ForceWare Graphics Driver

*nView Desktop Manager User’s Guide*

Driver Release 75 for Windows
NVIDIA Corporation
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The following major topics are discussed in this chapter:

- “About this Guide” on page 1
- “NVIDIA Display Properties and nView Desktop Manager” on page 2
- “Why Do I Need Desktop Management?” on page 3
- “About nView Desktop Manager” on page 4
- “Features and Benefits” on page 9
- “Application Compatibility” on page 17
- “Notes on Feature and Configuration Support” on page 18
- “Examples in this Guide” on page 19

About this Guide

This is a user’s guide addressed to end users of the NVIDIA® nView™ Desktop Manager application, which is a component of the NVIDIA ForceWare™ graphics display driver. nView Desktop Manager is a desktop and application management tool that runs on Windows operating systems and graphics cards based on NVIDIA graphics processing units (GPUs).

Note: Supported NVIDIA products are listed in Table 3.1, “Supported NVIDIA Desktop Consumer Products” and Table 3.2, “Supported NVIDIA Workstation Products”. For technical details on the features and benefits of the NVIDIA...
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Introduction

ForceWare graphics display driver, refer to the NVIDIA Web page:

Other Related Documentation

• If you are primarily using the display properties components of the NVIDIA ForceWare graphics display drivers with NVIDIA GeForce™-based graphics cards, see the following user’s guide:
  NVIDIA ForceWare Graphics Driver: User’s Guide — Release 75 driver version

• If you are primarily using the display properties components of the NVIDIA ForceWare driver with NVIDIA Quadro®-based graphics cards, see the following user’s guide:
  NVIDIA ForceWare Graphics Driver: Quadro Workstation User’s Guide — Release 75 driver version

• The documents titled NVIDIA ForceWare Graphics Driver: Release Notes — (Release 75 driver version) describe performance improvements and software fixes in the ForceWare graphics display drivers. These documents enable add-in-card (AIC) producers and original equipment manufacturers (OEMs) to monitor performance improvements and bug fixes in the driver.

NVIDIA Display Properties and nView Desktop Manager

The NVIDIA ForceWare graphics display driver software includes two user interface-based components: NVIDIA display properties and nView Desktop Manager. The name “nView” represents a collection of multi-display technologies encompassing driver support, multi-display GPU architecture, and desktop management support.

• NVIDIA Display properties refers to the control panel-based user interface from which you can configure the advanced display properties of the NVIDIA ForceWare graphics display driver. For details, see “nView Desktop Manager Control Panel Access” on page 5.

• nView Desktop Manager (the topic of this user’s guide) is a user level application utility that focuses on making you more productive when working on your Windows desktop. Desktop Manager was originally created for multi-display graphics cards but has grown to enhance single-display user desktops as well. Desktop Manager supports both single-display and multi-display configurations
running with single-display, multi-display, or multiple graphics cards based on NVIDIA GPUs.

Desktop Manager is also a separate item on the Microsoft® Windows® Control Panel group (Figure 1.1). You can click this item to access the nView Desktop Manager control panel.

**Figure 1.1 Windows Control Panel with nView Desktop Manager Item**

![nView Desktop Manager Item](image)

**Note:** There are several additional ways to enable the nView Desktop Manager control panel to configure its various features. For complete details, see “Enabling and Accessing the nView Desktop Manager Control Panel” on page 41.

**Why Do I Need Desktop Management?**

As users run more and more applications and process even more information, their screen sizes are getting larger and larger. Larger screen area simply makes users more productive.

One of the more cost effective and common ways of increasing screen area is to use multiple displays and/or multiple desktops (for single-display users), which allow you to place your applications on multiple displays having ready and immediate access to the information they contain.

While large screens and multiple displays and desktops are a great way of increasing your visible work area, these larger desktops start becoming more difficult to manage. Once simple operations such as finding your mouse cursor or even a window can become very time-consuming when you have to hunt through several screens.
In addition, using multiple displays results in additional issues such as the screen split between two displays — windows that are placed on this screen split are extremely difficult to read. So, while larger desktop areas promise to dramatically increase your productivity, there are user interface issues that can make it difficult to use at times.

A “desktop manager” manages your large desktop and takes care of many of the user interface issues that result from moving to a larger desktop area. You can think of a desktop manager as being an extension of the windows user interface tailored for large desktops.

**About nView Desktop Manager**

nView Desktop Manager supports both single-display and multi-display configurations running with single-display, multi-display, or multiple graphics cards based on NVIDIA GPUs.

nView Desktop Manager can manage and control many items on your desktop. Generally, it operates on two types of desktop objects — “windows” or “applications”. Refer to the “Glossary” on page 229 for descriptions of key concepts.

**Multi-Display Support**

The nView Desktop Manager feature set primarily focuses on multi-display use by workstation users in finance, corporate, digital content creation (DCC) and similar organizations as well as in the mobile (laptop) markets. Therefore, to take advantage of the full feature set of the Desktop Manager, you need a multi-display configuration. With multiple displays, you can view a single application as a large window stretching across several displays, or you can display different applications on each monitor. Using a multi-display configuration is an efficient and cost-effective way to increase the size of your computer display area, commonly called the “desktop”.

**Single-Display Support**

nView Desktop Manager is designed for broad applications across the wide range of NVIDIA product lines and markets. Therefore, single-display users can also take advantage of many of its features. Although you cannot use multi-display features in
a single-display configuration, you can create multiple desktops and use hot keys, NVKeystone, and windows effects.

nView Desktop Manager Control Panel Access

Beginning with Release 50 of the ForceWare graphics display driver, the nView Desktop Manager control panel is available as a “tabbed” stand alone interface and also integrated with the NVIDIA display menu, as shown in features accessible from the nView Desktop Manager control panel are also accessible from the NVIDIA display menu, shown in Figure 1.2.

Starting with the Release 55 NVIDIA ForceWare driver, the nView Desktop Manager control panel can be opened as a standalone control panel and accessed from the NVIDIA display properties menu. This functionality resulted from the nView Desktop Manager control panel options being integrated into the NVIDIA Display control panel menu (Figure 1.2).

Once nView Desktop Manager is enabled, its control panel is easily accessible from a variety of areas on your desktop.

When you first open the nView Desktop Manager control panel, the default Desktop Management tab is displayed. Once you enable the Enable nView Desktop Manager option, the remaining tabs (or menu items) are available and configurable, as described in “Features and Benefits” on page 9.

Note: Individual chapters in this guide describe the various categories of features to configure.
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Figure 1.2  nView Desktop Manager Control Panel — Stand-alone (tabbed) vs. NVIDIA Display Menu Style

nView Desktop Manager control panel — stand-alone style with tabs to access individual pages.

nView Desktop Manager control panel — NVIDIA display menu-style with menu options to access the individual pages.

nView Desktop Manager control panel — integrated in the NVIDIA display menu.
Release 75 Enhancements

nView Desktop Manager

Note: Release 75 no longer supports the nView Display Wizard for Windows NT 4.0 and NVKeystone for Windows 98/Me. The driver does include enhancement to the following nView Desktop Manager sections:

- **TV/Display Wizard** is enhanced to make HDTV setup easier. Each high-definition mode can be previewed to determine the capabilities of the flat panel.
- **Desktop Manager setting** — Release 75 lets you create system-wide nView Desktop Manager settings that apply across all users.
- **Per-display desktops** — Release 75 brings support for independent per-monitor virtual desktops to nView Span mode and Multiview environments.

OpenGL Enhancements

- Support for OpenGL 2.0 Specification
- New extensions:
  - ARB_draw_buffers
  - ARB_color_buffer_float
  - ARB_half_float_pixel
  - ARB_texture_float

SLI Support Improvements

- Additional SLI support

  Release 75 adds support for the following combinations of PCI Express graphics cards and NVIDIA nForce systems:

<table>
<thead>
<tr>
<th>NVIDIA Product</th>
<th>PCI-Express Graphics Cards</th>
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<tr>
<td>NVIDIA nForce4 SLI</td>
<td></td>
</tr>
<tr>
<td>NVIDIA nForce Professional 2200</td>
<td>GeForce 7800 GTX + GeForce 7800 GTX</td>
</tr>
<tr>
<td>NVIDIA nForce Professional 2200 + NVIDIA nForce Professional 2050</td>
<td></td>
</tr>
<tr>
<td>All NVIDIA GPUs</td>
<td>GeForce 6600 + GeForce 6600</td>
</tr>
</tbody>
</table>
• SLI support for OpenGL workstation applications with Quadro-based PCI-Express graphics cards.

• Improved SLI performance for DirectX and OpenGL applications

• Improved control of SLI rendering modes.

• Improved end-user control of SLI profiles and rendering modes

For additional information on SLI features, refer to the NVIDIA ForceWare Graphics Driver User’s Guide and any NVIDIA SLI-specific Application Note.

Display Driver

• Improved support for custom timings, including non-divisible by 8 resolutions on TMDS/LVDS panels, control of back-end and front-end timings, and variable overscan shift values.

  The driver can also present underscan modes on demand and supports variable underscan ratios.

• Off-screen 2D memory management optimization

• Efficient synchronization between clients allows for sharing of off-screen resources with DirectX applications. This avoids potential performance issues with applications that use DirectX rendered surfaces in ways that conflicted with 2D caching.

• VESA Coordinated Video Timing (CVT) support
  • Support via control panel option for analog displays
  • Support for CVT/CVT-RB timing restriction using R&T strings

• Color compression support

• SLI Enhancements

• SLI screen capture support

• Improved performance

• Improved management of profiles between driver updates, enabling you to select which profiles to keep and which profiles to update with each new software update. This ensures that if you have setup your profiles in your current software driver, you will not lose any settings when you update your driver.

• Improved high-resolution scalable desktop functionality for Quadro GPU-based workstations.

  For additional information, refer to the NVIDIA Quadro Workstation User’s Guide.
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Introduction

DirectX

Improved driver stability and performance, including the following areas:

- UMA support
- 2D operations
- SLI

NVIDIA Display Control Panel

Release 75 includes enhancement to the following sections of the NVIDIA display control panel user interface:

- Additions and improvements in the Performance & Quality page include:
  - Combined DirectX and OpenGL application profiles on one page.
  - All application profiles, including workstation applications, are combined into the same application profiles page.
    For additional information, refer to the NVIDIA Quadro Workstation User’s Guide.
  - Added a triple-buffering option for improved frame rates.
  - Added a transparency antialiasing option, which applies to graphics cards based on newer GPUs such as the GeForce 7800 GTX. This option enables transparent pixels (such as between fence links or leaves on trees) within textures to be used in edge blending operations to clean up jaggies in images.
  - Added a gamma correct antialiasing option, which applies to graphics cards based on newer GPUs such as the GeForce 7800 GTX. This option enables gamma correct antialiasing for a better color calculation to help reduce jaggies and maintain the highest level of color reproduction of 3D images.
  - Improved the SLI rendering mode options by allowing complete end-user control of SLI for any application. This provides maximum flexibility over creating application profiles for any for current and new applications.
  - Underscan support has been added for full screen overlay and full screen video mirror outputs.

Features and Benefits
Chapter 1
Introduction

The Desktop Manager application engine consists of several features that manage windows, desktops, displays, applications, hot keys, and window effects. This section provides an overview of the key functions in terms of these features.

For details on these features and how to use them, refer to individual chapters in this guide.

Note: A few features may be restricted to users with System Administrator access privileges under Windows XP/2000 and Windows NT 4 and will be noted as such, where applicable in this guide.

Desktop-Management Features

When you first launch nView Desktop Manager, the Desktop Management page appears. It provides the following information and features:

• nView Desktop Manager file name, description, and version information
• Lets you toggle between enabling and disabling nView Desktop Manager
• Gives you quick access to the Desktop Manager Setup Wizard
• Gives you quick access to the Windows Display Properties Settings page

Window-Management Features

The window-management features are available on the Windows page of nView Desktop Manager control panel.

Multi-display features allow you to:

• Configure your system to prevent windows from stretching across (spanning) displays
• Configure where dialog boxes pop up on your desktop. You can have them appear centered on the display device on which your cursor is displayed
• and much more...

For complete details on using Windows Management features, see “Managing Windows” on page 79.
Desksops Features

Using the Desktops page of the nView Desktop Manager control panel, you can perform the following tasks:

• Create up to 32 different desktops, each with its own background. Use multiple desktops to reduce the clutter on your desktop – you can group similar applications on different desktops and quickly switch between them.

• Open and move applications between different desktops and switch between desktops with a single keystroke

• Configure multiple-desktop options, including:
  • Set per desktop resolutions
  • Show the desktop name while switching desktops
  • Show your desktops, including a graphical birds-eye view of each desktop within Windows Explorer

• Manage your desktop in several ways to suite your style. You can access and, therefore, switch between desktops using various methods, including:
  • Hot keys
  • Right clicking on a desktop
  • Desktop Explorer — a folder tree in Windows Explorer
  • Menu options from an NVIDIA Settings icon on your Windows taskbar
  • A desktop nView toolbar (enabled from the User Interface page) that can be floated or docked to your Windows taskbar
  • nView task switcher (enabled from the User Interface page)

For complete details on using Desktops Management features, see “Managing Desktops” on page 86.

Application Management

The application management functionality of nView Desktop Manager is available from the Applications page. You can use the options on the Applications page to do the following tasks:

• Perform operations on entire applications, such as moving an entire application to a desktop or to a monitor.
• Set up your Window Manager to function differently for different applications. For example, you may never want a Word window to span multiple displays; however, you may want a spreadsheet, such as Excel windows, to span multiple displays so you can see all the columns.

• Save all your customized Desktop Manager settings for an application when you close it and restore them when you reopen the application. For example, if you enable the Individual Settings feature, the application manager can remember if you closed the Microsoft Word application on your second desktop and whether or not the Word window was transparent when you closed it. When you re-open Word, it automatically opens on your second desktop and have transparency enabled.

Using this feature, you can also specify that Word always launches on a specific desktop with a specific state (such as Transparent or Always on top).

• Extend certain applications. While every window under Desktop Manager has an extended menu giving options such as transparency or desktop visibility, certain applications such as Internet Explorer 6.0 have additional nView menu options allowing you to be more productive with the application.

Profiles Features

You can quickly set up the Desktop Manager using the Profiles page on the nView Desktop Manager control panel.

Desktop Manager lets you save a snapshot of all desktop management settings to the disk, including all individual application, NVKeystone, and other settings to a data file called a “profile”. In addition, profiles can save and restore display mode, system power profile, and Windows taskbar location. Display mode information includes the number and position of enabled display device, each display device's refresh rate, resolution, color depth, etc. For details, see Types of Data Saved and Restored by a Profile below.

Note: Beginning with the NVIDIA Release 50 driver, under NVIDIA Quadro-based graphics cards, profiles can also save and load more than eight open application states. This number is limited to eight under NVIDIA non-Quadro-based graphics cards.

You can then reload your profile on any computer at any point in the future. If you switch computers, upgrade your operating system, or are configuring an office, you can simply save all your settings to a profile and then load those settings on any computer that you want.
Note: If you are using an NVIDIA Quadro-based graphics card, the nView Desktop Manager installation comes with several pre-defined profiles to get you started quickly. These profiles contain the basic settings for different user levels and industries. You can start with one of these pre-defined profiles and tailor it to your own needs.

Types of Data Saved and Restored by a Profile

Specific types of NVIDIA ForceWare graphics display driver and display mode settings that can be saved in a profile are:

- **Graphics Driver Settings**
  - Desktop colors
  - Performance and quality settings, including OpenGL and Direct3D
  - Overlap and edge blending settings (applies to Quadro FX-based graphics cards)
  - Overlay and full screen video settings
- **Desktop Management Settings include:**
  - Open application state
  - Desktop Management
  - Display mode information
    - Taskbar position
    - Computer power state

Saving Profiles for Different Operating Modes

If you use a notebook (laptop) computer, you may want Desktop Manager to be set up differently when you are docked than when you are not docked. Using profiles, you can create a docked and undocked profile and switch between them. You can even set up a hot key to load a profile so you can switch with a single keystroke.

Profiles management features are discussed in “Working With Profiles” on page 66

User Interface Features

The nView Desktop Manager **User Interface** options let you customize the user interface that is used on your desktop. Using the User Interface features, you can do the following:
Chapter 1
Introduction

• Control nView Desktop Manager access and notification messages
• Switch between desktops
• Dock profiles, actions, and desktops on an nView toolbar.
• Define gridlines on each of your monitors, which divides your display area o function as sub-monitors for easily performing tasks involving dialog box repositioning, window spanning and window maximize operations, etc.
• Add application title bar buttons that give you quick and easy access to nView features and also provide feedback about the application state.
  For example, the application title bar “maximize” button maximizes an application window to full desktop in Dualview, Clone, and Single-Display mode or a single display screen in nView Horizontal or Vertical Span mode.
• The nView options menu on each application window let you access nView options (features), which can also be customized for individual applications.

The User Interface features are discussed in “Using the User Interface Settings” on page 113.

Tools Features

For details on using the Tools features, see “Using Tools Options” on page 196.

The nView Desktop Manager toolbox includes several utilities designed to solve specific user problems. You can use tools, such as “NVKeystone” and “flat panel calibration” to improve your display quality. Utilities include anti-keystoning support and flat panel monitor calibration screens are designed to improve windows multi-display features.

The Tools page contains the following key features:

• **NVKeystone** can be set to compensate for keystoning effects on your windows display, allowing you to fix distorted projection images. This feature is primarily for laptop (mobile) computers.

• **Analog flat panel calibration** displays a screen on your display optimized for your flat panel’s auto-calibrate feature allowing for improved image quality during the “auto-sync” process.

• **Automatically align displays** will snap multiple displays into alignment if they are slightly misaligned. This also fixes certain Windows issues where Windows can sometimes leave small gaps between displays.
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Zoom Features

The Zoom page shows you a user-definable zoom area of your desktop. Basic Zoom styles include:

- **Cursor** – window shows area around cursor.
- **Magnifying Glass** – you can drag the zoom window around to zoom the area of the desktop on which you place the zoom window.
- **Fixed Frame** – lets you define a fixed zoom source for the window.

Other zoom features include:

- Ability to configure a QuickZoom hot key. For details, see “QuickZoom Hot Key” on page 177.
- Using the mouse wheel to dynamically change zoom levels
- Using the auto-move feature to keep the zoom window out of your way.
- Using bi-directional zoom editing to edit through your zoom window.
- Inverting colors of the zoomed image for better visibility.

For additional details, see “Using Zoom Options” on page 160.

Hot Keys and Effects Features

The **Effects** and **Hot Key** page options offer additional enhancements, including:

- Ability to configure a QuickZoom hot key. For details, see “QuickZoom Hot Key” on page 177.
- Faster opening and closing of windows
- Making windows transparent when dragged and making the taskbar transparent
  
  **Note:** The transparency level is a global level affecting all applications. Note that this value is one which can be individualized for an application
- A “zoom” tool that lets you see a zoomed view of the area around the cursor. You can even use the zoom tool like a **magnifying glass** and drop it on top of what you want to magnify on the desktop
- A full set of hot keys. Virtually every action from toggling a window to be transparent to jumping to a different desktop can be assigned to a hot key.
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• For NVIDIA Quadro-based cards, the color keying feature allows you to color windows with different borders, which is most useful with individual application settings and hot keys.

For details on using the above features, see the following chapters, as appropriate:
- “Using Zoom Options” on page 160
- “Using Effects” on page 154
- “Using Hot Keys” on page 179.

Mouse Features

The Mouse page of the nView Desktop Manager control panel lets you configure a variety of mouse-related actions for easier navigation.

A few key features are described here:
- The throw window action allows you the “throw” a window to a screen edge using your mouse.
- Throw Sensitivity can be adjusted using a slider.
- The Jump dead screen areas option will cause the mouse to jump dead areas in non-rectangular multi-display configurations as long as you are moving your mouse at a reasonable speed.
- Toggle window Z-order with middle mouse button option does the same as the hot key only with the mouse and to the window that contains the cursor.
- Auto-activate windows under cursor – does just that.
- Kinematics and gestures features allow you to
  - Assign mouse movements to trigger different actions (same actions as hot keys)
  - Adjust the gestures with a Gesture Sensitivity slider
  - Use a key press to control these actions

Setup Wizard and Online Help

• A Setup Wizard helps you get started with Desktop Manager.
• On-line Help displays context-sensitive help when using Desktop Manager configuration options.
Application Compatibility

While the vast majority of applications are compatible with desktop and windows management, there are some applications that are not. If Desktop Manager detects these types of applications, it will not attempt to manage them. Depending upon the level of compatibility of the application, Desktop Manager may offer varying levels of functionality.

Functionality that may be disabled for these applications includes support for Transparency and Individual Settings features, window position management, nView Desktop Manager menu options, and/or multiple desktop support.

If an application window supports the nView Options Menu, but does not support certain Desktop Manager functions, a menu item called About this app... is added to the application’s nView option menu. In this case, you can click on this menu item to display information about the features that have been disabled for the application.

If you have any nView title bar buttons enabled, then an nView application status indicator appears to the left of the nView buttons. If the application does not support certain nView functions, this indicator will be red; otherwise it will be black. If the indicator is red, you can click it to display information about the features that have been disabled for this application. For further details, see “Using the User Interface Settings” on page 113.

Examples of Incompatible Applications

Examples of application windows that do not support certain Desktop Manager features include:

- **Command prompt** (DOS window) under all operating systems. (All desktop management features are disabled.)
- **Solitaire and Freecell** under Windows Me. (All window management features are disabled.)
- **Microsoft PowerPoint**. (The transparency feature is disabled.)

Skinning Utilities: Known Issues

If you use skins, Desktop Manager has been tested with several commonly available “skinning” utilities with no known compatibility issues other than those listed below.
Some skins do not expose the application window’s system menu on its window frame (title bar). As a result, the nView options menu can only be accessed from either a title bar button (see “Adding Title Bar Buttons” on page 135) or a hot key but not from the application window’s system menu.

However, you can still access the nView options menu by right clicking the application on the taskbar. For details on the methods available for accessing an application’s system menu, see “Adding “nView Options” to Application System Menus” on page 141.

Notes on Feature and Configuration Support

Feature Support

- To access NVIDIA nView-based features using the nView Desktop Manager driver, you need
  - a multi-display graphics card based on any of the NVIDIA GPUs that support multiple displays on a single graphics card, as indicated in “Hardware — Supported NVIDIA Products” on page 11, and
  - at least two display devices connected to the card.
- Other non-nView features are supported by either single-display or multi-display NVIDIA GPU-based cards; i.e., you can connect only one display device, such as a monitor, and access these features, provided the NVIDIA GPU supports these features.
- The options shown in the NVIDIA Display control panel may vary depending on the specific NVIDIA GPU-based graphics cards you are using. For example, one or more options that are available for a specific GPU-based card, such as a GeForce FX, may not be available on a GeForce4, and so on.

Multi-Display Configuration: Tips and Requirements

- When running Windows XP or Windows 2000 with more than two active displays, using “Dualview” mode is strongly recommended.
- When running Windows with multiple cards (i.e., two or more NVIDIA GPU-based graphics card are installed in your computer), note the following:
  - Using cards based on the same NVIDIA GPU is strongly recommended.
- The same NVIDIA ForceWare graphics display driver (version) must be installed for each card.

**Note:** For details on using multi-display modes, see the *ForceWare Release 50 Graphics Driver: User’s Guide.*

**Multi-Display Mode and Feature Support**

Table 1.1 lists details of supported operating system modes and Desktop Manager features for Windows 2000, XP, and 9x.

<table>
<thead>
<tr>
<th>Supported Modes and Features</th>
<th>Windows XP</th>
<th>Windows 2000</th>
<th>Windows NT 4.0</th>
<th>Windows 9x</th>
</tr>
</thead>
<tbody>
<tr>
<td>Is there nView Dualview support (default) for up to nine (9) display devices?</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Is nView Clone mode supported?</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Are nView Span (Horizontal/Vertical) modes supported?</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>NA</td>
</tr>
<tr>
<td>Note: In Span mode, a maximum of two (2) display devices are supported.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Does switching between nView Span/Clone mode and nView Dualview mode require restarting your computer?</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>NA</td>
</tr>
<tr>
<td>Are all nView Desktop Manager features supported?</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes, except transparency, mouse, application bar, gridlines, and NVKeystone features</td>
<td>Yes, except transparency, gridlines, and mouse features.</td>
</tr>
<tr>
<td>Hardware Acceleration?</td>
<td>DirectX: Yes</td>
<td>OpenGL: Acceleration is disabled in Multiview mode.</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>- DirectX operations are accelerated if window is constrained to a single monitor otherwise operation is redirected to the software.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- OpenGL support</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td></td>
</tr>
</tbody>
</table>

**Examples in this Guide**
• For example purposes, the NVIDIA Display control panel pages show a specific NVIDIA GPU-based graphics card. You may be using a different NVIDIA GPU-based graphics card, in which case you will see the exact name of the GPU that your graphics card uses on the NVIDIA display menu and on the NVIDIA GPU-named tab that appears from the Windows Display Properties > Settings > Advanced option.

• As noted earlier, the current NVIDIA ForceWare graphics display driver allows access to the nView Desktop Manager control panel as a “tabbed” standalone user interface as well as menu options in the NVIDIA display menu (Figure 1.2). The example nView Desktop Manager control panel pages in this guide will generally show the tabbed version of the control panel instead of the NVIDIA display menu version. See Figure 1.2, “nView Desktop Manager Control Panel — Stand-alone (tabbed) vs. NVIDIA Display Menu Style” on page 6.

• The Windows XP pages shown in this document apply also to Windows 2000 functionality, unless noted otherwise.

• The Windows Me pages shown in this document also apply also to Windows 98/95 functionality, unless noted otherwise.
nView Desktop Manager features are categorized by the NVIDIA ForceWare Driver releases in which they appeared.

• “Release 70 New Features and Enhancements” on page 2-1
• “Release 60 Enhancements” on page 2-5
• “Release 55 Features and Support” on page 2-6
• “Release 50 Features and Support” on page 2-7
• “Release 40 Features and Enhancements” on page 2-8

Release 70 New Features and Enhancements

Overview

• Desktop Manager Wizard Improvements
  • Improved Setup Wizard for display monitor, television, and high definition television (HDTV).
  • New hot keys — “Toggle stereo 3D display” and “Transparent desktop lock”
• Support for Newest GeForce 6 Series GPUs — All driver modules within Release 70 support the latest GPUs from the NVIDIA GeForce 6 Series.
Chapter 2

nView Desktop Manager Feature History

The Release 70 graphics driver also supports the TurboCache™ memory management architecture of the GeForce 6200 GPU.

- **Improved Video Functionality** — Improved video functionality includes scaling for the newest GeForce 6 Series GPUs, and improved de-interlacing.
- **New Setup Wizards** — The Release 70 driver provides custom setup wizards for monitor and television displays.

**Control Panel Interface Improvements**
- Improved HDTV-over-DVI User Interface, and support for arbitrary overscan/underscan for HDTV-over-DVI
- Improved pages—Driver Information Screen, Advanced Timings, Change Resolutions
- New property pages - SLI (available with NVIDIA SLI graphics cards) and Tools.
  New features—**Play On My Display, Best fit scaling** option, and ability to rename the monitors in the display menu on the nView Page.

Details by Driver Module

**nView Desktop Manager**

**New Features**
- “Toggle Stereo 3D Display” hot key
- “Transparent Desktop Lock” hot key
- New **Display Optimization Wizard** (Display Calibration, Gamma)

**Feature Enhancements**
- **nView Desktop Manager Wizard**
  - Improved layout and usability of the wizards.
  - Improved television and HDTV support in the setup wizards and TV Wizard.
  - New **Display Optimization Wizard** (Display Calibration, Gamma)
- **Profiles** — .tvp file association: manage/load profiles from Windows Explorer
- **Hot Keys** enhancements include:
  - Consolidation of some actions, providing fewer hot keys and increased functionality
• New hot keys: Activate Last Active Desktop, and Show Last Blocked Popup
• **nView Toolbar** — Added drag-n-drop window management to the display toolbars.
• **Gridlines** — New gridline creation tools to insert preset rows and columns
• **Internet Explorer Popup Preventer** — Sensitivity Adjustment
• **Window Management** — New setting to open window on next empty display

**NVManagement**

Improved functionality in response to customer feedback. The NVManagement application includes new switches for scripting driver settings.

**Driver Independence**

For ForceWare graphics drivers Release 50 and later, any nView version can be installed over any driver version.

**Display Driver, DirectX, and OpenGL**

**Table 2.1** Release 70 Graphics Driver — Performance Improvement and New Features

<table>
<thead>
<tr>
<th>Display Driver</th>
<th>DirectX</th>
<th>OpenGL</th>
</tr>
</thead>
</table>
| **Performance Improvements** | • Improved stability and robustness  
• Improved NVIDIA SLI multi-GPU functionality  
• Support for 512 MB graphics cards  
• HDTV-over-DVI functionality | • Improved robustness  
• Multi-GPU refinements  
• Improvements in  
- Texture management  
- SRGB handling  
- Anisotropic filtering | Improved workstation performance for OpenGL applications. |
| **New Features** | • Support of the unified memory architecture of the latest GeForce 6 series of GPUs.  
• Support of the latest GeForce 6 series of GPUs.  
• Support of the TurboCache memory management architecture of the latest GeForce 6200 series GPUs.  
TurboCache dynamically allocates system memory to augment the frame buffer, resulting in increased memory bandwidth. | Support of the unified memory architecture of the latest GeForce 6 series of GPUs. | Support of the latest GeForce 6 series of GPUs. |
Chapter 2

nView Desktop Manager Feature History

NVIDIA Display

For details on using these features, see the NVIDIA ForceWare Graphics Driver: User’s Guide — Release 70 driver version.

- **Improved NVIDIA display slideout menu** layout and functionality. The menu automatically resizes to fit content when you first launch the NVIDIA display control panel. You can also resize the slideout menu by dragging the window border. See chapter 3 — “NVIDIA Driver Installation and Control Panel Access” on page 21.

- **Improved EDID [Extended Display Identification Data] display names** in the control panel, desktop menus, and APIs are more descriptive than the previous “Digital” and “Analog” display designators. See “Other NVIDIA Display Menu Items” on page 33.

- **Rename displays** — You can now rename your displays from the nView Display Settings page.

- **Play-On-My-Display** — Right-click on the pop-up menu item to play video files on any connected display.

- **Tools page** — provides options for shortcuts, display optimizations, and troubleshooting. The Tools page replaces the Release 65 Troubleshooting page.

- **Improved Driver Information** and **Change Resolutions** pages.

- **Application profiles can include “color settings”** — You can now associate application-specific color settings (Digital Vibrance, Brightness, Contrast, Gamma, etc.) with video games.

- **Improved HDTV-over-DVI user interface and support for arbitrary overscan/underscan for HDTV-over-DVI.**

- **Variable “Underscan” and “Shift Threshold”** — The HDTV Overscan Configuration page now lets you adjust the HDTV underscan and overscan (“shift threshold”).

- **Show HDTV display formats** option on the Change Resolutions page lets you add and remove standard EIA 861b HD modes and enables HD over DVI.

- **The Advanced Timings** page now lets you modify the X and Y resolution to create a custom mode. Custom modes creation and advanced timings adjustments are combined on one page.

- **Improved SLI multi-GPU mode pages** — available with NVIDIA SLI graphics cards intended for use by **advanced users**.

For details, see the document “Application Note — Using NVIDIA SLI Graphics Cards” Version 2.0 or later.
Video

New video processing features include:
- Windows Media Video 9 (WMV9) video acceleration — support for hardware accelerating decoding WMV9 video files on GeForce 6 series GPUs. To enable this feature, a software update from Microsoft is required.

Video processing improvements include:
- Video scaling implementations to support the newest GeForce 6 series GPUs.
- Motion adaptive de-interlacing
- Color management improvements include:
  - Color space conversion and processing amplifiers
  - Extended color range
  - Color temperature correction

Release 60 Enhancements

nView Toolbar

Several new enhancements have been added to the nView toolbar, including:
- a “display-based” toolbar when using an NVIDIA Quadro GPU-based graphics card. See “Using the New Display Toolbar” on page 120 for details.
- Zoom settings on the standard nView toolbar, as explained in “Enabling and Disabling Actions, Profiles, Desktop, and Zoom Settings” on page 126.

QuickZoom Hot Key

You can now configure a QuickZoom Hot Key from the Zoom page. For details, see “QuickZoom Hot Key” on page 177.
Release 55 Features and Support

nView Desktop Manager

Basic Changes

• Seamless nView support for both 32-bit and 64-bit processes
• Hot key-only mode
• Dual NVKeystone support for independent keystone trapezoids under nView Spanning modes.
• Edge blending luma compensation independent of NVKeystone
• Per-display desktop management — desktops can be switched for each display independently.

Feature Changes

• Improved Windows Internet Explorer popup preventer
• Window snapping to display edges as well as other windows
• Support for dragging maximized windows between displays
• nView toolbar updated to support per-display functionality;
• Improved display gridlines user interface and functionality
• Anchor point targets allow dialog repositioning to user-specified coordinates

User Interface Changes

• New window caption button for moving windows to the next display
• nView Desktop Manager icon on the Windows system tray indicates the active desktop and allows desktop switching
• Display Schemes Configuration menu, which is a customizable display configuration user interface
Chapter 2  
nView Desktop Manager Feature History

Release 50 Features and Support

- **nView toolbar** lets you dock hot keys and other actions — such as desktop switching, mode switching, and profile loading — on a toolbar for easy access.
- **Profiles** can store and load the open application state.
- **Kinematic mouse actions** such as switching to the next or previous desktop can be accomplished by specific mouse movements such as shakes or circular motions. Mouse features also include throw-action detection for a more interactive “movie style” user interface.
- **Resolution per desktop support** allows each desktop can be set to a different resolution.
- **Microsoft Internet Explorer pop-up prevention**
- **Monitor grids** allows display devices to be divided into subgrids, which—for the purposes of geometric operations such as application window maximizing—act as separate display devices.
- **NVKeystone™ luma compensation**
- **Application display exclusions and inclusions** allows the user to set up applications to always launch on a specified monitor, or never launch on a specified monitor.

Release 50 Performance Improvements and Enhancements

- **Desktop switching** speed has increased by 40%.
- **Integrated control panel** — The nView Desktop Manager control panel is now consolidated with the NVIDIA Display properties control panel.
- **New nView Desktop Manager Setup Wizard** includes mode set support for nView Standard, Clone, Spanning, and Dualview modes.
- **Driver independence** allows nView Desktop Manager to be installed independently of the graphics display driver, with no version interdependencies.
Release 40 Features and Enhancements

Feature Enhancements

The following features have been enhanced in the previous Release 40 NVIDIA nView Desktop Manager:

- **Operating system support** includes Windows NT 4.0, Windows 9x/Me, and Windows 2000/XP.
- **Profile feature** — Display modes are now saved to and loaded from each profile.
- **Multiple desktop support** contains the following new features:
  - Support for multi-display wallpaper selection. (See “Properties: Changing Wallpaper and Desktop Icons” on page 94.)
  - Graphical display in Windows Explorer shell extension
  - Support for icons to represent desktops. (“Properties: Changing Wallpaper and Desktop Icons” on page 94.)
  - Support for arbitrary positioning of windows on the desktops
- **Zoom support** includes:
  - New fixed-frame zoom (See “Fixed Frame” on page 164.)
  - Bi-directional zoom editing capability (See “Enabling Bi-Directional Editing” on page 165.)

New Features

The following are features that have been added to the new version of NVIDIA nView Desktop Manager:

- **nView task switcher** — When enabled, nView adds a desktop switcher in addition to the standard application tab switcher. By default, this additional “switch desktop” functionality is accessed through a Alt-- keystroke combination which you can change through options in the Hot Key page. See “Enabling the nView Task Switcher” on page 119.
- **Color-keyed windows** allows the user to color key windows for easy identification when activating them on the desktop. See “Enabling Window Color Keying” on page 157.
• **NVKeystone** allows real-time image correction on portable projectors and heads-up displays. (NVKeystone is not supported on graphics cards based on the TNT, TNT2 or Vanta product families.)

For example, NVKeystone can be set to compensate for keystoneing effects on your windows display, allowing you to fix distorted projection images. This feature is primarily for laptop (mobile) computers.

See “Accessing NVKeystone” on page 199.

• **Taskbar** and **Menu Transparency**. See “Using Effects” on page 154.

• **New window actions**, such as Collapse

• **New applications settings**, including a full set of application launch and disable settings. See “Managing Applications: For Advanced Users” on page 203.
This chapter discusses the following major topics:

- “Supported Operating Systems” on page 10
- “Hardware — Supported NVIDIA Products” on page 11
- “Supported Languages” on page 14
- “Software — NVIDIA ForceWare Graphics Driver Installation” on page 14

### Supported Operating Systems

This Release 75 driver includes drivers designed for the following Microsoft® operating systems:

- Microsoft Windows® XP
  - Windows XP Media Center Edition 2005
  - Windows XP Media Center Edition 2004
  - Windows XP Professional
  - Windows XP Home Edition
  - Windows XP Professional x64 Edition
  - Windows Server 2003 x64 Edition
- Microsoft Windows 2000 and Windows NT® 4.0
• Microsoft Windows 98 and Windows Millennium Edition (Me), collectively called Windows 9x in this document

Hardware — Supported NVIDIA Products

Table 3.1 and Table 3.2 list the NVIDIA products supported by the Release 75 driver.

Note: All GPU products listed below support multiple displays (usually two displays) on a single graphics card, with the following exceptions:
• Graphics cards based on a GeForce3 series GPU support only one display per graphics card.
• Graphics cards based on a Quadro NVS 400 GPU support up to four displays per graphics card.

Table 3.1  Supported NVIDIA Desktop Consumer Products

<table>
<thead>
<tr>
<th>NVIDIA Product (GPU)</th>
<th>Windows XP 32-bit Windows 2000</th>
<th>Windows XP Professional x64</th>
<th>Windows 98/Me</th>
<th>Windows NT4</th>
</tr>
</thead>
<tbody>
<tr>
<td>GeForce 7800 GTX</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GeForce 6800 Ultra</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>GeForce 6800 LE</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>GeForce 6800 GT</td>
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<tr>
<td>GeForce 6800</td>
<td>X</td>
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<td>X</td>
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<td>GeForce 6610 XL</td>
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<td>GeForce 6600 GT</td>
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<td>GeForce 6600</td>
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<tr>
<td>GeForce 6200SE with TurboCache</td>
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<td>GeForce 6200 with TurboCache</td>
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<td>GeForce 6200</td>
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<tr>
<td>GeForce FX 5950 Ultra</td>
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<td>GeForce FX 5700 Ultra</td>
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</table>
### Table 3.1  Supported NVIDIA Desktop Consumer Products (continued)

<table>
<thead>
<tr>
<th>NVIDIA Product (GPU)</th>
<th>Windows XP 32-bit Windows 2000</th>
<th>Windows XP Professional x64</th>
<th>Windows 98/Me</th>
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<td>GeForce FX 5700</td>
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<td>GeForce4 MX 4000</td>
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## Table 3.2  Supported NVIDIA Workstation Products

<table>
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<tr>
<th>Product</th>
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<th>Windows 98/Me</th>
<th>Windows NT4</th>
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<td>Quadro4 400 NVS</td>
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<td>Quadro4 380 XGL</td>
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<td>Quadro4 200 NVS</td>
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<td>Quadro NVS 400</td>
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<td>Quadro NVS 285 PCI</td>
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<td>Quadro NVS 280 PCI</td>
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<td>Quadro NVS 280</td>
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<td>Quadro NVS 200</td>
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</tr>
<tr>
<td>Quadro NVS</td>
<td>X</td>
<td></td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>
Chapter 3
System Requirements

Supported Languages

The Release 75 nView Desktop Manager supports the following languages in the main driver control panel:

<table>
<thead>
<tr>
<th>Language</th>
<th>English (USA)</th>
<th>German</th>
<th>Portuguese (Euro/Iberian)</th>
</tr>
</thead>
<tbody>
<tr>
<td>English (UK)</td>
<td>English (UK)</td>
<td>Greek</td>
<td>Russian</td>
</tr>
<tr>
<td>Arabic</td>
<td>Arabic</td>
<td>Hebrew</td>
<td>Slovak</td>
</tr>
<tr>
<td>Chinese (Simplified)</td>
<td>Chinese (Simplified)</td>
<td>Hungarian</td>
<td>Slovenian</td>
</tr>
<tr>
<td>Chinese (Traditional)</td>
<td>Chinese (Traditional)</td>
<td>Italian</td>
<td>Spanish</td>
</tr>
<tr>
<td>Czech</td>
<td>Czech</td>
<td>Japanese</td>
<td>Spanish (Latin America)</td>
</tr>
<tr>
<td>Danish</td>
<td>Danish</td>
<td>Korean</td>
<td>Swedish</td>
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<tr>
<td>Dutch</td>
<td>Dutch</td>
<td>Norwegian</td>
<td>Thai</td>
</tr>
<tr>
<td>Finnish</td>
<td>Finnish</td>
<td>Polish</td>
<td>Turkish</td>
</tr>
<tr>
<td>French</td>
<td>French</td>
<td>Portuguese (Brazil)</td>
<td></td>
</tr>
</tbody>
</table>

**Software — NVIDIA ForceWare Graphics Driver Installation**

**Minimum Hard Disk Space Requirement**

The minimum hard disk space requirement for each operating system are listed in Table 3.3, Table 3.4, and Table 3.5:

**Table 3.3**  Hard Disk Space Requirements—English

<table>
<thead>
<tr>
<th>Operating System</th>
<th>Minimum Hard Disk Space</th>
</tr>
</thead>
<tbody>
<tr>
<td>Windows XP (all editions)</td>
<td>27.56 MB</td>
</tr>
<tr>
<td>Windows 2000</td>
<td>27.56 MB</td>
</tr>
</tbody>
</table>
Additional Operating System Requirements

The operating systems in Table 3.6 require the additional packages listed in order to be supported by NVIDIA.

Table 3.6  Additional Operating System Requirements

<table>
<thead>
<tr>
<th>Operating System</th>
<th>Additional Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Windows NT 4.0</td>
<td>Service Pack 4</td>
</tr>
<tr>
<td>Windows 98</td>
<td>Microsoft DirectX™ 5</td>
</tr>
</tbody>
</table>

Driver Installation Instructions

Note: If you do not have System Administrator access privileges, it is assumed that the appropriate person with System Administrator access in your organization will set up and install the Release 75 NVIDIA ForceWare graphics driver software on your computer.
Chapter 3
System Requirements

- The installation process copies all necessary NVIDIA Release 75 ForceWare graphics driver files for operation into the appropriate directories.
  Note: If you are using a mobile (laptop or notebook) computer, please be sure that you are using the “mobile” version of the NVIDIA display driver.
- The nView system files are copied to your Windows\System directory.
- nView Desktop Manager Profile files (*.tvp) are saved in the Windows\nView directory.
  Depending on the version of the NVIDIA driver previously installed, profiles may also be located in the Documents and Settings\All Users\Application Data\nView_Profiles directory.
- As part of the install process, an uninstall is registered in your system.
- Under Windows Me and Windows XP, the NVIDIA driver is installed in “Dualview mode” display. However, note that the second display is not activated by default, but must be enabled.
- Under Windows 2000, the NVIDIA Display Driver is installed in Span mode. See the instructions in the ForceWare Graphics Drivers User’s Guide for instructions on how to install nView Dualview mode.

Preserving Settings Before Upgrading Your Software

Before uninstalling or installing software, you can preserve your nView Desktop Manager and/or NVIDIA Display settings by using the nView Desktop Manager Profiles features.

Note: Follow the steps below and/or refer to the NVIDIA nView Desktop Manager User’s Guide for details. Under Windows XP/2000 and Windows NT 4.0, you must have, at least, Power User access privileges in order to create or save a profile. (Refer to Windows Help if you need an explanation of Power User access rights.)

Follow the steps below and/or refer to the NVIDIA nView Desktop Manager User’s Guide for details.

1 Open the nView Desktop Manager Profiles page (Figure 3.1).
To preserve your current settings, you can use either the **Save** or the **New** option from the nView Desktop Manager Profiles page:

- If you want to overwrite the currently loaded profile with your changed settings, use the **Save** option. Notice that a warning message indicates that you are about to overwrite the selected profile.

- If you want to retain the currently loaded profile and want to save your changed settings to a new file, click the **New** option. Enter a name and description of the profile in the New Profile dialog box. For example, you can name this profile **My Settings**.

If you are an “advanced” user and want to customize certain settings in the saved profile, click **Advanced <<** to expand the dialog box (Figure 3.2).
To customize the settings, you can select or clear any of the settings check boxes.

Click Save to return to the main Profiles page.

If you created a new profile, you will see the name of the newly created profile in the profiles list.

If you overwrote a current profile, the same profile name is retained in the list.

Note: nView Desktop Manager profile (.tvp) files are saved in the Windows\nView directory. Depending on the version of the NVIDIA driver previously installed, profiles may also be saved in the Documents and Settings\All Users\Application Data\nView_Profiles directory.

Now you can uninstall your current driver for a driver upgrade.

After you restart your computer following an NVIDIA new driver install, you can easily load the saved profile from the Profiles page of nView Desktop Manager.
About Using Saved Profiles in Another Computer

You can easily use any saved profile (.tvp file in the Windows\nView directory) from one computer and use it in another computer, if you want. You'll need to copy it to the Windows\nView directory of a computer that has the NVIDIA ForceWare graphics display driver, etc. installed properly. Then this profile can be loaded from another computer from the nView Desktop Manager Profiles page just as it can from your original computer.

Uninstalling the NVIDIA Display Driver Software

Note: It is highly recommended that you follow the steps in this section to completely uninstall the NVIDIA Display Driver software before updating to a new version of the software.

To uninstall the nView software, follow these steps:

1. From the Windows taskbar, click Start > Settings > Control Panel to open the Control Panel window.

2. Double-click the Add/Remove Programs item.

3. Click the NVIDIA Display Driver item from the list.

4. Click Change/Remove.

5. Click Yes to continue.

A prompt appears asking whether you want to delete all of the saved nView profiles.

- If you click Yes, all of the nView software and all of your saved profiles will be deleted.
- If you click No, the nView software is removed, but the profile files are saved in the Windows\nView directory on your hard disk.

Your system now restarts.

Installing the NVIDIA ForceWare Graphics Drivers

1. Follow the instructions on the NVIDIA.com Web site driver download page to locate the appropriate driver to download, based on your hardware and operating system.

2. Click the driver download link.

   The license agreement dialog box appears.
3 Click **Accept** if you accept the terms of the agreement, then either open the file or save the file to your PC and open it later. Opening the EXE file launches the NVIDIA InstallShield Wizard.

4 Follow the instructions in the NVIDIA InstallShield Wizard to complete the installation.
Chapter 4
NVIDIA Driver Installation and Control Panel Access

This chapter discusses the following major topics:
- “NVIDIA Display Setup Wizards” on page 21
- “Accessing nView Desktop Manager from the Windows Control Panel” on page 24
- “Accessing Desktop Manager Settings from the NVIDIA Display Menu” on page 25
- “Accessing the NVIDIA Display and Desktop Manager Control Panel” on page 27
- “Using the NVIDIA Display Menu” on page 30
- “Using the NVIDIA Display Menu Help and Tool Tips” on page 35
- “Troubleshooting” on page 37

NVIDIA Display Setup Wizards

After a fresh installation of the NVIDIA Release 75 graphics display driver and restarting your computer, one or both of the NVIDIA display wizards (Display Wizard or TV Wizard) are automatically invoked, depending on the types of displays that are connected to your graphics card — i.e., analog or digital display, television, or HDTV. The wizards help set up the most commonly used nView display modes, including screen resolution and output.
Note: On subsequent session using the NVIDIA display driver, you can manually start any one of these wizards by clicking either the Display Wizard or the TV Wizard button from the Desktop Management page (Figure 4.1).

To see sample Wizard pages, see Appendix A, “NVIDIA Setup Wizard Pages” on page 218.
1 Click Change/Remove.

2 Click Yes to continue.

A prompt appears asking whether you want to delete all of the saved nView profiles.

- If you click Yes, all of the nView software and all of your saved profiles will be deleted.
- If you click No, the nView software is removed, but the profile file are saved in the Windows\nView directory on your hard disk.

Your system now restarts.
Accessing nView Desktop Manager from the Windows Control Panel

To access nView Desktop Manager settings from the Windows Control Panel, follow these steps:

1. From your Windows desktop, click Start > Settings > Control Panel.

2. From the Name column, double-click NVIDIA nView Desktop Manager (Figure 4.2) to display the nView Desktop Manager control panel (Figure 4.3).

![Figure 4.2 Windows Control Panel With NVIDIA nView Desktop Manager Program](image)

3. From the Desktop Management page, click Enable. The feature tabs are now all enabled, as shown in Figure 4.3.

4. It is strongly recommended that you follow an additional step here to add some nView Desktop Manager menu options to your Windows desktop menu for the quickest access to your nView Desktop Manager control panel and multiple desktops you may have created. See “Accessing the NVIDIA Display and Desktop Manager Control Panel” on page 27.
**Accessing Desktop Manager Settings from the NVIDIA Display Menu**

Beginning with the Release 50 NVIDIA driver, the nView display properties and the nView Desktop Manager options have been consolidated into one NVIDIA display menu. Therefore, another way to access the nView Desktop Manager control panel is from the NVIDIA display menu.

1. Right click on your Windows desktop, select **NVIDIA Display**, and choose the option for your display device.

2. When the NVIDIA display menu opens, click the **Desktop Management** menu option to display the Desktop Management page (Figure 4.3 and Figure 4.4).
3 Click **Enable** and click **Apply**.

Figure 4.5 shows a sample Desktop Management page after you clicked the Enable button.

4 It is strongly recommended that you follow an additional step here to add some nView Desktop Manager menu options to your Windows desktop menu for the quickest access to your nView Desktop Manager control panel and multiple desktops you may have created. See “Accessing the NVIDIA Display and Desktop Manager Control Panel” on page 27.
Accessing the NVIDIA Display and Desktop Manager Control Panel

Once your NVIDIA ForceWare graphics display driver is installed, you can easily access the driver features from a convenient menu. You can quickly access the NVIDIA display menu that gives you direct access to the NVIDIA display control panel pages.

For quick access, you can use either the Desktop Access or the Windows Taskbar Access access method, explained below.

**Note:** When needed, you can still access the NVIDIA display control panel pages through the Microsoft Display Properties Settings > Advanced option. (See “Windows Display Properties Setting Access” on page 30.)
Desktop Access

1. Right click on your Windows desktop to open the desktop menu.

2. If you do not see the menu item **nView Properties** (Figure 4.6), continue with steps a. and b.; otherwise skip to step 3.

   ![Figure 4.6 Windows Desktop Menu — With and Without the nView Properties Menu Item](image)

   **a** From the NVIDIA display menu, click **Tools** to open the Tools page (Figure 4.7).

   **b** Select the check box **Enable taskbar icon** and click **Apply**.

3. Click **nView Properties** to open the nView Desktop Manager control panel.
Figure 4.7  Tools Settings

Windows Taskbar Access

To access nView Desktop Manager settings from the Windows taskbar notification area, follow these steps:

1. From the NVIDIA display menu, click **Tools** to open the Tools page (Figure 4.7).
2. Select the check box **Enable desktop context menu** and click **Apply**.
3. From your Windows taskbar, click the NVIDIA Settings menu icon (Figure 4.8) to display the menu shown in Figure 4.9.

Figure 4.8  NVIDIA Settings Menu Icon in the Windows Taskbar Notification Area
4  To open the nView Desktop Manager control panel, click **nView Properties** (Figure 4.9)

5  To quickly access nView profiles, click **nView Profiles** and then the specific profile you want. For details on using profiles, see “Working With Profiles” on page 66.

Windows Display Properties Setting Access

You can still access the NVIDIA display control panel through the Microsoft Display Properties **Settings > Advanced** option, if needed.

1  Right click from your Windows desktop to open the desktop menu.

2  Select **Properties** and then the **Settings** tab.

3  Click **Advanced** and then click the NVIDIA GPU tab.

   The NVIDIA display control panel with menu appears (Figure 4.10).

Using the NVIDIA Display Menu

From the NVIDIA display menu (Figure 4.10), you can access all the NVIDIA display control panel pages where you can configure many NVIDIA driver features.

To view any of the NVIDIA display control panel pages, simply click a menu item from the NVIDIA display menu.

**Note:** The nView Display Settings menu item appears only when you have more than one display connected, as shown in Figure 4.10. Figure 4.11 shows the menu when only one display is connected; the example is for a notebook computer.
Chapter 4
NVIDIA Driver Installation and Control Panel Access

Figure 4.10 NVIDIA Display Menu Showing the GPU Page—Multiple Displays Connected

**NVIDIA display menu** showing the main NVIDIA GPU page.

**Note:** The **nView Display Settings** menu item appears when multiple displays are connected.

Click the **green button** to toggle between hiding and opening the NVIDIA display menu.

**Note:** When the menu is hidden, you can also click the **Additional Properties** button to reopen the menu.

**System information** details selected aspects of your system than could affect overall graphics performance.

**Graphics card information** details the hardware aspects of the currently selected NVIDIA GPU.

Click the **NVIDIA Information >> button** to open a menu from which you can choose to update your NVIDIA driver, send feedback to NVIDIA, keep current with NVIDIA news, products, and demos, and see NVIDIA display driver version and file information.

Browse the NVIDIA Web site (www.nvidia.com)
Chapter 4
NVIDIA Driver Installation and Control Panel Access

Figure 4.11 NVIDIA Display Menu — Single Display Connected

To toggle between hiding and showing the NVIDIA display menu, click the green button on the green button that appears on any NVIDIA display menu page (Figure 4.10). You can also click the Additional Properties button to show the menu when it is hidden (Figure 4.10).

You can resize the NVIDIA display menu by directly manipulating it with your mouse.

The NVIDIA GPU Page

As mentioned previously, during first use of a newly installed NVIDIA driver, the “default” page that opens is always this main NVIDIA GPU page, as shown in the Figure 4.10 example.

This GPU page contains system and graphics card information. You can also use the NVIDIA Information >> button (Figure 4.10) to access a menu from which you can choose to update your NVIDIA driver, send feedback to NVIDIA, keep current with NVIDIA news, products and demos, and view NVIDIA display driver version and file information.
Chapter 4
NVIDIA Driver Installation and Control Panel Access

The Desktop Management Page

From the Desktop Management page, you can click the About button for file and version information about the version of nView Desktop Manager that you are using.

Figure 4.12 Desktop Management Page — nView Desktop Manager Version Information

Other NVIDIA Display Menu Items

This section gives an overview of the pages associated with the other NVIDIA display menu items

• nView Display Settings page is shown in Figure 4.13.
Figure 4.13 NVIDIA Display Menu Showing nView Display Settings Page

EDID display names

EDID display names
Note: This menu item only appears if you have more than one display connected. For complete details on using the nView Display Settings features, see the “NVIDIA ForceWare Graphics Drivers User’s Guide” Release 70 driver version.

• Performance and Quality Settings — see the “NVIDIA ForceWare Graphics Drivers User’s Guide” Release 75 driver version.

• Video Overlay Settings — see the “NVIDIA ForceWare Graphics Drivers User’s Guide” Release 75 driver version.

• Full Screen Video — see the “NVIDIA ForceWare Graphics Drivers User’s Guide” Release 75 driver version.

  Note: This menu item only appears if you have more than one display connected and the nView display mode list is not set to Single display.

• Tools — see the “NVIDIA ForceWare Graphics Drivers User’s Guide” Release 75 driver version.

• PowerMizer™ — for mobile computers only; see the “NVIDIA ForceWare Graphics Drivers User’s Guide” Release 75 driver version.

• NVRotate™ — see the “NVIDIA ForceWare Graphics Drivers User’s Guide” Release 75 driver version.

• Temperature Settings menu option is available on newer GPUs, such as GeForce FX, and on certain older GPUs. See the “NVIDIA ForceWare Graphics Drivers User’s Guide” Release 75 driver version.

• Refresh Rate Override — see the “NVIDIA ForceWare Graphics Drivers User’s Guide” Release 75 driver version.

• Screen Resolutions & Refresh Rates — see the “NVIDIA ForceWare Graphics Drivers User’s Guide” Release 75 driver version.

• Desktop Manager — the topic of this user’s guide.

• Menu Editing — — see the “NVIDIA ForceWare Graphics Drivers User’s Guide” Release 75 driver version.

Using the NVIDIA Display Menu Help and Tool Tips

Context Help

You can obtain context Help (Figure 4.14) for any of the settings and options on the NVIDIA display control panel page by using any one of these methods:
• Select or move your mouse pointer to the option for which you want help and then press F1, or

• Click the “?” icon located on the top right corner of the NVIDIA display control panel page you have open, move the “?” icon over the option for which you want help, then click your mouse again to display the help.

**Figure 4.14 NVIDIA Display — Sample Context Help**

![Sample context Help on an NVIDIA display control page.](image)

**Tool Tips**

Windows-style tool tip (pop-up) Help appears when you hover your mouse pointer on an item that is partially obscured. For example, you can place you mouse on any of the long NVIDIA menu names that may be partially obscured (such as Performance and Quality Settings) and be able to view the name in its entirety.

**Tool Tips for Disabled Settings**

When an option or setting is disabled (grayed) on any NVIDIA display control panel page, you can place the mouse pointer on the disabled option for a couple of seconds to see “tool tip” help describing the reason it is disabled.
An example of this kind of tool tip Help is shown in Figure 4.15.

Figure 4.15 NVIDIA Display Menu — Sample Tool Tip for Disabled Settings

Troubleshooting

If you have trouble accessing the nView Desktop Manager control panel, you can follow these steps to verify that a current version of the NVIDIA ForceWare graphics display driver is installed on your system.

1. From your Windows desktop, right click to display the properties menu and then select Properties > Settings tab to access the Display Properties Settings page.
   The “Display” field shows the name of your NVIDIA-GPU based graphics card; for example, “Monitor name on NVIDIA Quadro2 MXR/EX”.

2. Click Advanced and the NVIDIA GPU tab.

3. Verify that the “Driver Version Information” box lists the most recent versions of the NVIDIA ForceWare graphics display driver files. Scroll down to confirm that all files have the same version number. If there’s any discrepancy, make sure you
or your system administrator uninstalls the NVIDIA ForceWare graphics display driver software according to the instructions in “Uninstalling the NVIDIA Driver” on page 34 and then reinstall the software.

Note: Make sure that the file nvdesk32.dll does not appear on the Driver Version Information list of files. This file is now obsolete and can result in inconsistencies. If you see this file, uninstall the NVIDIA ForceWare graphics display driver and then re-install a current version.
This chapter contains the following major sections:

• “About the Wizards” on page 39
• “About Using the Wizards” on page 40
• “Display Wizard: Auto-Launch vs. Manual Launch” on page 41
• “Setup Wizard” on page 54

**About the Wizards**

The nView Desktop Manager Setup Wizard is a series of dialog boxes that guides you in setting the most common global settings for window, desktop, and application management.

Each Wizard page (window) contains descriptive text for a specific option and, in some cases, an illustration that shows the effect of the option; for example, window repositioning or spanning. You can also choose to skip major option groups.

There are two kinds of Wizards: **Display Wizard** and **Setup Wizard**

• The **Display Wizard** helps enable and customize your multi-display setup. See “Display Wizard: Auto-Launch vs. Manual Launch” on page 41 for sample Wizard pages.
• The Setup Wizard helps set up nView Desktop Manager features. See “Setup Wizard” on page 54 for sample Wizard pages.

About Using the Wizards

The figures in this section show a few examples of the step-by-step Wizard pages you will see when running the Desktop Manager Wizard.

Use the following guidelines when using the Wizard:
• Use the Back and Next options to navigate through the windows.
• Carefully read the content of each Wizard page, which serves as a quick overview of key Desktop Manager features and lets you enable/disable certain key features by clicking an option.
• If you enable a feature, note that you can change this setting later through the Desktop Manager control panel tabs or menu options,
• If you do not want to enable one or more features in a given window, click Next to go to the next window.

Notes Before You Begin

There may be some variation in the number and type of Wizard pages that appear, depending on your configuration; i.e., whether you are running Windows Me/9x (limited Desktop Manager features), multiple displays or single-display connected, and so on.
• For example, if your system only has one display device connected and no gridlines defined, Window Management Wizard pages (e.g, Figure 5.22 through Figure 5.25) will not appear.
• Also note that because transparency is not a supported feature under Windows 9x or Windows NT 4.0, the Wizard page containing this option (Figure 5.27) will not be available under those operating systems.
Chapter 5
Using the Desktop Manager Setup Wizard

Display Wizard: Auto-Launch vs. Manual Launch

If you are setup with a multi-display configuration (i.e., you have more than one display device connected), the first time you start Windows on your computer after installing the NVIDIA ForceWare graphics display driver, the Wizard starts automatically.

Use these Display Wizard pages to enable and customize your multi-display setup.

- **Auto-launch.** After a first-time installation of the NVIDIA ForceWare graphics display driver when there are at least two display devices connected to your computer, this Display Wizard will launch automatically.

  **Note:** This Wizard will not start automatically if you have only one display device connected to your computer.

- **Manual launch.** On subsequent sessions, to manually launch this Wizard, click Display Wizard from the Desktop Management panel.

  **Note:** Based on your display device configuration and the options you choose on a Wizard page, the subsequent Wizard pages you will see may differ slightly from the examples given in this section.

**Figure 5.1**  Auto-Launch Wizard Welcome Page
Figure 5.2   Auto-Launch Wizard Setup Option — “Typical Setup” Selected
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Using the Desktop Manager Setup Wizard

Figure 5.3  Auto-Launch Wizard Setup Option — Display Settings for Typical Setup

Figure 5.4  Auto-Launch Wizard Setup Options — “Custom Setup” Selected
Figure 5.5  Auto-Launch Wizard — Multi-Display Mode Dualview Mode Selected

Multi-Display Mode

Multi-display modes define how your two displays work together.

- **Single**: Single display mode.
- **DualView**: Native multi-display mode. Each display has its own resolution, colour depth and refresh rate.
- **Span**: Displays are combined to create one virtual display. Your desktop spans both displays.
- **Clone**: Both displays show the same information.
Figure 5.6  Auto-Launch Wizard Settings — Dualview Mode (2 CRT Example)
Figure 5.7  Auto-Launch Wizard Multi-Display Mode — Span Mode Selected

Figure 5.8  Auto-Launch Wizard Display Settings — Span Mode (Example 1)
Figure 5.9  Auto-Launch Wizard Display Settings — Span Mode (Example 2)
Figure 5.10 Auto-Launch Wizard Display Settings — Span Mode (Example 3)

Figure 5.11 Auto-Launch Wizard Display Settings — Span Mode (Example 4)
Figure 5.12 Auto-Launch Wizard Multi-Display Mode — Clone Mode Selected
Figure 5.13 Auto-Launch Wizard Display Settings — Clone Mode (2 CRT Example)
Figure 5.14 Auto-Launch Wizard — NOT Enabling Desktop Manager

The nView Desktop Manager makes your multi-display setup even more usable with these features:
- Window repositioning
- Dialog box repositioning
- Window transparency
- And more...

Would you like to enable the nView Desktop Manager?

- [ ] Yes
- [ ] No, finish setup now
Figure 5.15 Auto-Launch Wizard Completion Without Enabling nView Desktop Manager

Completing the NVIDIA nView Desktop Manager Multi-Display Setup Wizard

When you click Finish, your new multi-display settings will be applied.

You can further customize your setup using the Desktop Manager control panel.

To close this wizard, click Finish.
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Using the Desktop Manager Setup Wizard

Figure 5.16 Auto-Launch Wizard — Enabling nView Desktop Manager

Figure 5.17 Wizard Completion
Setup Wizard

The Wizard pages in this section are available when you click the Setup Wizard option from the Desktop Management panel (Figure 5.18).

**Note:** If the Setup Wizard option is disabled (grayed), click Enable and Apply to enable nView Desktop Manager. The Setup Wizard will now be enabled for use.

**Note:** Based on your display device configuration and the options you choose on a Wizard page, the Wizard pages you will see may differ from the examples given in this section.
Figure 5.19  nView Desktop Manager Setup Wizard — Welcome Page
Figure 5.20 nView Desktop Manager Setup Wizard — Selecting a Profile
Figure 5.21 nView Desktop Manager Setup Wizard — Selecting a Profile When Using a Quadro-based Graphics Card
Figure 5.22 nView Desktop Manager Setup Wizard — Window Management (1)
Figure 5.23  nView Desktop Manager Setup Wizard — Window Management Options When Using a Quadro-based Graphics Card (1)
Figure 5.24  nView Desktop Manager Setup Wizard — Window Management (2)
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Using the Desktop Manager Setup Wizard

Figure 5.25 nView Desktop Manager Setup Wizard — Window Management Page (3)
Figure 5.26  nView Desktop Manager Setup Wizard — Enabling the nView Desktop Manager Control Panel
Figure 5.27 nView Desktop Manager Setup Wizard — Window Transparency

For examples of other Wizard pages, including the new TV and HDTV setup pages, see “NVIDIA Setup Wizard Pages” on page 218.
Figure 5.28  nView Desktop Manager Setup Wizard — Completion
Figure 5.29 nView Desktop Manager Control Panel Launched
This chapter discusses the following topics:
- “About Profiles” on page 66
- “Benefits of Using Profiles” on page 69
- “Accessing the Profiles Page” on page 70
- “List of Profiles” on page 70
- “Load Profile Dialog Box” on page 72
- “Loading a Profile” on page 73
- “Creating a Profile” on page 74
- “Saving a Profile” on page 76
- “Deleting a Profile” on page 77
- “Importing a Profile” on page 77
- “Exporting a Profile” on page 78

**About Profiles**

You can configure profiles settings on both single-display and multi-display computer setups. Use these settings to save your nView Desktop Manager settings as well as your NVIDIA graphics display driver settings into a single file called a profile. To change how your desktop functions, you can subsequently load these profiles with a single “hot key” keystroke or by using the Load option from the Profiles page.
Profile are a “snapshot” of your “NVIDIA graphics display driver” and “nView Desktop Manager” settings. There is never an “active” profile — instead, you can reload your Desktop Manager settings “snapshot” and then edit it if you need to modify the settings later on. For example, if you switch computers, upgrade your operating system, or are configuring an office, you can simply save all your settings to a profile and then load those settings on any computer that you want.

**Note:** The profile file is not updated as you change nView Desktop Manager settings. Use the Save option to update the profile with your current (new) nView Desktop Manager and/or NVIDIA graphics display driver settings.

**Note:** Under Windows XP/2000 and Windows NT 4.0, you must have, at least, **Power User** access privileges in order to create, save, delete, import, and export profiles.

**NVIDIA Graphics Display Driver Information**

NVIDIA graphics display driver information in a profile *can include*:

- Desktop colors — brightness, contrast, gamma, Digital Vibrance, image sharpening, etc.
- OpenGL and Direct3D
- Performance and quality
- Overlay and full-screen
- Overlap and edge-blending — includes NVKeystone settings
- Screen resolution and refresh rate
  and more...

**nView Desktop Manager Information**

nView Desktop Manager information in a profile *can include* the following categories of information:

- “Open Application State” on page 67
- “Desktop Management” on page 68
- “Display Mode” on page 68

**Open Application State**

“Open application states” refers to saving the information about a set of applications to launch when a profile is loaded. When you save a profile with the “open
application states” option enabled, the open application(s) on your desktop(s) are recorded and stored in the profile you are saving. When you load the profile, those same application(s) are reopened.

**Note:** “Open application state” saving is an available feature with both NVIDIA GeForce-based and Quadro-based graphics cards, but with a limitation — when using GeForce-based cards, up to *eight* applications states can be saved and loaded. NVIDIA When using Quadro-based graphics cards, there is no such limitation.

The following is the mechanism for saving open application states:

- A snapshot of all running applications on the system is taken including size, position, window state, and desktop. When this profile is loaded, all of these applications are restored to their proper positions.
- Microsoft Internet Explorer, Windows Explorer, Office, and Exceed applications can also have their data state saved when a profile is saved and restored (when the profile is loaded) including the file/URL/Unix application with which the application may have been working.

**Note:** If you save with four Internet Explorer windows open and restore while you have two Internet Explorer windows open, only two new Internet Explorer windows will load.

### Desktop Management

Desktop management information can include:

- Multiple desktops and their backgrounds
- Individual application settings
- Windows and dialog box positioning
- User interface settings and other effects, such as window and taskbar transparency settings
- Mouse and zoom settings
- Hot key settings

### Display Mode

Display mode information can include the number and position of each of your enabled display device, each display device’s refresh rate, resolution, color depth, and so on.
Note: However, unlike desktop management settings, display mode settings depend on the hardware in your computer and thus may not work when transferred between computers. For example, if a profile was saved with display mode information on a computer that had four displays connected and is then copied to a computer that has only two displays connected, then loading this profile on the two-display computer will not restore the display mode because the physical hardware (i.e., four displays) does not exist on the computer.

Taskbar Position

When saving a profile, if you have enabled the Display mode option (check box) and you also want to save (to later restore) the Windows taskbar position, then enable the Taskbar position option (check box).

Computer Power State

When saving a profile, if you have enabled the Display mode option (check box) and you also want to save (to later restore) your computer’s power state, then enable the Computer power state option (check box).

Your computer is always running a particular power profile. To access your power profile, open the Windows Control Panel and open the Power program. You will notice that your system is set up to use a particular power profile. The power profile controls your system’s power management. For desktop systems, this is almost always the “Always On” profile but for mobile (notebook) computers, this can be “Long Life,” “Extremely Long Life,” “Performance,” and other, which can include many manufacturer-specific profiles.

Show This Profile in the Display Scheme Menu

If this option is enabled, the profile being saved will appear in the nView Display Scheme menu, which is available through an assigned nView hot key. For details, see “Display Settings Actions” on page 183

Benefits of Using Profiles

Using Profiles features, you can tailor different Desktop Manager modes to more closely match your operating needs and then easily switch between profiles with a hot key.
You can use profiles to quickly switch your system configuration, depending on your needs.

For example, if you have a notebook computer that is sometimes docked with an extra display device and sometimes undocked, you may want to have dialog boxes pop up on the notebook computer’s screen while undocked but while docked, have dialog boxes appear on the extra display device. In this case, you can set up two profiles on your system; a docked version and an undocked version with different settings. When you switch configuration (i.e., dock or undock your notebook computer), you can load your configuration with a single keystroke.

**Note:** The loaded profile can also include turning on or off an external display connected to your notebook computer.

If you work in a company with an IT department, profiles are even more useful. For example, a System Administrator can define a custom Desktop Manager mode and roll it out in one step to a department or other defined group in the company rather than have to configure each workstation separately. This can help reduce training and support costs since everyone within a group or department can use a common Desktop Manager configuration that is tailored for their needs.

### Accessing the Profiles Page

1. **If** you need help accessing the nView Desktop Manager control panel, see “Enabling and Accessing the nView Desktop Manager Control Panel” on page 41.

2. **Click** the Profiles tab or menu option to display the nView Desktop Manager Profiles page. Sample Profiles pages are shown in Figure 6.1 and Figure 6.3.

**Note:** Under Windows XP/2000 and Windows NT 4.0, you must have, at least, Power User access privileges in order to create, save, delete, import, and export profiles.

**Note:** If you are using an NVIDIA Quadro GPU-based graphics card, additional pre-defined profiles are provided by NVIDIA and viewable on the Profiles page, as shown in Figure 6.1.

### List of Profiles

The Profiles page display a list of profiles available for loading, as shown in the examples in Figure 6.1 and Figure 6.3.
If you are using an NVIDIA Quadro GPU-based graphics card, the nView Desktop Manager installation comes with additional pre-defined profiles to get you started quickly. These profiles contain the basic settings for different user levels and industries. You can start with one of these pre-defined profiles and tailor it to your own needs.

**Figure 6.1** Sample Profiles Page — For NVIDIA Quadro-based Graphics Cards

Each profile in the list displays one or more of these icons:

- **A locked profile** displays a “closed padlock” icon in the profiles list. You cannot modify the nView settings of a locked profile.

- An **unlocked profile** displays an “open padlock” icon in the profiles list — as shown in Figure 6.1 — and has no restrictions.

- A **monitor icon** (Figure 6.1) means that there is NVIDIA ForceWare graphics display driver information stored in the profile. When you create or save a profile, you can choose to include NVIDIA ForceWare graphics display driver settings information with the profile.

- An **application icon** (Figure 6.1) means that application states have been saved within this profile. When you create or save a profile, you can choose to include nView desktop management settings information with the profile.
If you are an advanced user, click Advanced >> to expand the Load Profile dialog box — as shown below.

The enabled and disabled (grayed) settings vary, based on the type of profile, how it was saved, the access privileges it was assigned, etc.

For Help on an option, click the ? icon, move the icon to the option for which you need Help, and click to display the Help.
Current Profile

The **Current profile** heading (shown in Figure 6.1 and Figure 6.3) simply displays the name of the current profile that is loaded or saved. Notice that the current profile is also shown in **bold** in the profiles list.

Loading a Profile

**Note:** You may see additional profiles set up specifically for your company or organization if your Administrator has set up custom profiles and/or if you are using an NVIDIA Quadro GPU-based graphics card.

1. To load a profile, select a profile from the list and click **Load**.

   The Load Profile dialog box appears (Figure 6.2) indicating that your current profile settings will be overwritten by the profile settings you are about to load.

2. If you are an “advanced” user, click **Advanced >>** to expand the dialog box as shown in Figure 6.2.

   To customize any of the settings, you can clear or check (enable) any of the check boxes that correspond to the settings.

   The enabled and disabled (grayed) settings vary, based on the type of profile, how it was saved, its access settings, etc.

   For **Help** on the options, click the ? icon (Figure 6.2), move it to the option for which you want Help, and click to display the Help. Or you can refer to the following sections earlier in this chapter:

   “NVIDIA Graphics Display Driver Information” on page 67

   “nView Desktop Manager Information” on page 67

**Note:** If you have checked the **Load display mode information** but nView Desktop Manager cannot locate the hardware to support the display mode stored in the profile (for example, the profile mode information is to turn on four display devices but the computer that is loading the profile only has two display devices connected), then the display mode loading will silently fail. However, note that the nView Desktop Management settings in the profile will be loaded.

3. To complete loading the new profile, click **Load**.

   You are returned to the Profiles page, which displays the name of the loaded profile in **bold** in the profiles list and as the “Current profile:” (Figure 6.3).
Creating a Profile

Note: Under Windows XP/2000 and Windows NT 4.0, you must have, at least, Power User access privileges in order to create a profile.

1. To create, name, and add a new profile that contains all of the current nView settings, click New from the Profiles page.
   The New Profile dialog box appears, as shown in Figure 6.4.

2. Enter a profile name and description.

3. To customize the settings, you can clear or check (enable) any of the check boxes that correspond to the settings.
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Working With Profiles

4 For Help on the options, click the ? icon (Figure 6.4), move it to the option for which you want Help, and click to display the Help. Or you can refer to the following sections earlier in this chapter:
   - “NVIDIA Graphics Display Driver Information” on page 67
   - “nView Desktop Manager Information” on page 67.

Figure 6.4 New Profile Dialog Box

Click and move the Help (?) icon to the option for which you need Help, and click again to display the Help.

5 Click Save to save the profile.

Note: Under Windows 2000/XP, newly created profile (.tvp) files are saved in the following directory:

   Documents and Settings\All Users\Application Data\nView_Profiles
Saving a Profile

**Note:** Under Windows XP/2000 and Windows NT 4.0, you must have, at least, **Power User** access privileges in order to save a profile.

1. If you want to overwrite the *current* profile with modified nView Desktop Manager and/or NVIDIA ForceWare graphics display driver settings, click **Save** from the Profiles page.

   The **Save Profile** dialog box appears (Figure 6.5). Notice that a warning message indicates that you are about to overwrite the selected profile.

   **Figure 6.5**  **Save Profile Dialog Box**

2. If you are an “advanced” user and want to customize certain settings in the saved profile, click **Advanced <<** to expand the dialog box (Figure 6.5).

   1. To customize the settings, you can clear or check (enable) any of the check boxes that correspond to the settings.
2 For Help on the options, click the ? icon (Figure 6.4), move it to the option for which you want Help, and click to display the Help. Or you can refer to the following sections earlier in this chapter:

“NVIDIA Graphics Display Driver Information” on page 67
“nView Desktop Manager Information” on page 67

3 Click Save to complete saving the profile; otherwise, click Cancel.

Predefined nView Desktop Manager profile (.tvp) files are saved in the following directory on your computer: Windows\nView

Deleting a Profile

Note: Under Windows XP/2000 and Windows NT 4.0, you must have, at least, Power User access privileges in order to delete a profile.

1 From the Profiles page, select the profile you want to delete.

2 Click Delete.

A warning message (Figure 6.6) indicates that you are about to lose all the settings in the selected profile you are about to delete.

Figure 6.6 Deleting a Profile

3 Click Yes to continue with the deletion process; otherwise, click No.

Importing a Profile

Note: Under Windows XP/2000 and Windows NT 4.0, you must have, at least, Power User access privileges in order to import a profile.
Use the **Import** option to copy a profile from another location or computer to your current computer. You can load the file after you import it.

1. From the Profiles page, click **Import**.
2. Change directory, if needed, to locate the profile (.tvp) file you want to import.
   
   **Tip:** You may want to search the following locations on the system(s) from which you are importing the profile(s):
   
   - `Windows\nView`
   - `Documents and Settings\All Users\Application Data\nView_Profiles`

3. Click **Open**. You are returned to the Profiles page, which now displays the profile you just import.

4. To load this profile, click **Load**. Refer to “Loading a Profile” on page 73 if you need help.

---

**Exporting a Profile**

**Note:** Under Windows XP/2000 and Windows NT 4.0, you must have, at least, **Power User** access privileges in order to export a profile.

Use the **Export** option to copy a profile from your current computer to another location.

1. From the Profiles page, click the profile you want to export in order to select and highlight it.

2. Click **Export**.

3. Change directory/folder, as needed.
   
   **Tip:** You may want to specify the following locations on the system to which you are exporting the profile(s) — especially if you want the profile(s) to quickly appear on the target computers nView Desktop Manager Profiles page.
   
   - `Windows\nView`
   - `Documents and Settings\All Users\Application Data\nView_Profiles`

4. Click **OK** to copy the profile (.tvp) file to that folder.
   
   You are returned to the Profiles page.
Chapter 7
Managing Windows

This chapter discusses the following major topics:

• “About Windows Settings” on page 79
• “Accessing the Windows Page” on page 80
• “Window Control Settings” on page 81
• “Dialog Box Repositioning Settings” on page 83

About Windows Settings

The nView Desktop Manager Windows page contains features that only apply to multi-display configurations.

Note: The options on this page will be disabled (grayed) if you are using only one display or running in nView single-display mode.

A key benefit of using windows management features is that you no longer have to spend your time resizing, relocating, or searching for windows because you can specify how you want your windows to function. You can specify how you want windows to operate on your desktops and/or display devices.

For example, when you maximize an application under Span mode, it stretches across all display devices, which can be quite inconvenient. Using Windows management features, you can change this functionality to make the window only maximize to a single display device. Conversely, under Dualview mode, where
windows normally maximize to a single screen, you can make applications maximize to the entire desktop.

Accessing the Windows Page

1. If you need help accessing the nView Desktop Manager control panel, see “Enabling and Accessing the nView Desktop Manager Control Panel” on page 41.

2. Click the Windows tab or menu option to display the Windows page (Figure 7.1).

Figure 7.1 Windows Page

This option is available only in nView Span modes.

This option is available only under Quadro GPU-based graphics cards when not in nView Span mode.
Window Control Settings

Note: Be sure to click Apply after enabling any of the settings.

Preventing Windows from Opening Off-Screen

Select the Prevent windows from opening off-screen check box to prevent windows from opening off the screen.

Limiting Taskbar to a Single Display

Note: This option is available only when your nView Display Settings page is set to nView Horizontal or Vertical Span mode.

Select the Limit taskbar to a single display check box (see left image in Figure 7.1) if you want to limit displaying the Windows taskbar to a single display instead of having it stretched across displays.

Allowing the Taskbar to Span Multiple Displays

Note: The Allowing the taskbar to span multiple displays check box is available when using graphics cards based on one of the NVIDIA Quadro series of GPUs and nView display mode is not set to Horizontal or Vertical Span mode.

When you select the Allowing the taskbar to span multiple displays check box, the Windows taskbar spans multiple display devices that are connected and active.

Enabling Window Spanning Across Multiple Displays

This option allows windows to span (appear across) displays. When the option is disabled, all windows are prevented from spanning displays.

Default: Option is enabled (checked).

Enabling Child Window Spanning Across Displays

To access the Enable child window spanning across displays check box, you must first select the Enable window spanning across displays check box and click Apply.
Note: If you clear this check box, all child windows are prevented from spanning displays even if the parent window does.

Open Windows On Display

Click the Open windows on list and then specify the display where you always want to start the application.

• Use global setting means the setting you selected for this option on the Windows page.
• Default display is the display that contains your Windows taskbar showing the Start menu button.
• Start display is the display that contains the Start menu button on the Windows taskbar.
• Next display is the next display that is empty.
• Last display is the display where you last closed the application. This setting also saves and then restores the application state (including the application window maximize or collapse state) when the application starts.
• Display 1 or Display 2. If you are using a multi-display setup, these numbered displays are available, one of which you can select to open the application on.

Snap Window Edges By

Select the Snap window edges by check box if you want to enable window snapping for easier handling of windows when you move them.

1 To use the option, click the list and select a pixel value (Figure 7.2).

2 Then when you move a window within this value from the edge of your desktop or from another window, one or more of its edges is automatically “snapped” to one or more of the edges of your desktop or other window, depending on where you place the window.
Figure 7.2  “Snap Window Edges By” Option

Dialog Box Repositioning Settings

Dialog box repositioning options let you specify the location of dialog boxes.

1 Click the Reposition dialog boxes on list to specify the location of dialog boxes (Figure 7.3).

2 Be sure to click Apply after enabling any of the settings.
Figure 7.3  “Reposition Dialog Boxes On” Settings

No Repositioning

This option disables dialog box control.

Move to Display \( n \)

(where \( n \) is the number) repositions dialog boxes to the specified display.

Move to Cursor Display

This option repositions dialog boxes to the display where the cursor is located.
Move to Application Display

This option repositions dialog boxes on the parent application’s display.

Move to grid $n.m$

(where $n.m$ is the number) repositions dialog boxes to a specific grid.

Note: When editing “grids” (see “Enabling and Using Display Gridlines” on page 132), if you enabled the feature for dialog box repositioning, you can access the above option:

Normally, the convention for identifying a display device is a number $n$, as in display $n$, or display 1, display 2, etc.

When grids are enabled, each display device can have grid areas.

- Grid 1.2 means display 1, grid 2
- Grid 2.1 means display 2, grid 1
- and so on.

Center Dialog Box on Display

Enable this option (check box) to force dialog boxes to be centered on their target display.

Identify Displays

Click this option show the display number on each monitor that is connected and turned on.

Note: These numbers should match those on the Windows Display Properties Settings page monitor icons and match the numbers that appear when you click Identify from the same Settings page.
The following major topics are discussed in this chapter:

- “About Desktops Settings” on page 86
- “Accessing the Desktops Page” on page 87
- “Notes Before You Begin” on page 88
- “Desktops List” on page 89
- “Creating Desktops” on page 89
- “Activating or Switching Desktops” on page 91
- “Renaming Desktops” on page 93
- “Removing Desktops” on page 94
- “Properties: Changing Wallpaper and Desktop Icons” on page 94
- “Multiple Desktop Global Options” on page 97

About Desktops Settings

You can use the Desktop Manager “Desktops” options to create and configure up to 32 different “virtual” desktops whether you are using a single monitor or multiple monitors.

If you are using a single monitor, you can create a lot of space by distributing one or more applications among different desktops to prevent application clutter on your
window. Desktop Manager reduces your desktop clutter by letting you easily move applications to other desktops thus avoiding the need to open/close or minimize/maximize applications in order to navigate between them. So, window clutter is reduced without compromising performance or using extra keystrokes.

You can assign customizable names to desktops you create and easily switch between desktops using assigned hot keys, the Windows Explorer-based Desktop Explorer, or even the NVIDIA Settings icon, as explained later in this chapter.

A variety of methods to create, customize, manage, rename, remove, and switch between multiple desktops, as well as easily move applications from one desktop to another are discussed in this chapter.

Accessing the Desktops Page

1 If you need help accessing the nView Desktop Manager control panel, see “Enabling and Accessing the nView Desktop Manager Control Panel” on page 41.

2 Click the Desktops tab or menu option to display the nView Desktop Manager Desktops page (Figure 8.1).
Notes Before You Begin

- Desktop options Add, Properties, Rename, and Remove take immediate effect when clicked.
- Each desktop is identified by a name and can have optional customizations, such as independent backgrounds or icons that identify the desktop in menus and in the Desktop Explorer.
- The type of background (wallpaper) selected for your desktop can significantly affect how fast you can switch from one desktop to another. For further details, see the “Note” in “Properties: Changing Wallpaper and Desktop Icons” on page 94.
Chapter 8
Managing Desktops

Desksops List

The Desksops list box displays a list of all currently available desktops.

- Desktop Manager maintains a minimum of one desktop and a maximum of 32 desktops. By default, there is always one desktop named “Default” — this is the desktop on which you start up.
- The Default desktop is listed first, followed by all other desktops in alphabetical order.

Note: If you disable Desktop Manager, you are returned to the Default desktop and all open windows are moved to the Default desktop.

Creating Desktops

Multiple desktops can be created either from Desktops page using the “Add” option, as explained below, or the Explorer shell extension.

Each desktop can be assigned a unique name.

Note: You cannot add duplicate desktop names.

Using the “Add” Option

1 From the Desktops page (Figure 8.1), click Add. The “Create a new desktop” dialog box prompts for a name of the new desktop (Figure 8.2).

2 If you want to add a Wallpaper background and/or assign the desktop a unique “Icon”, go the next steps.

   Otherwise, click OK to complete adding the desktop and return to the Desktops page where you will see the new desktop added to the Desktops list.

3 After you enter the desktop name, optionally, you can assign the desktop a Wallpaper background and/or assign the desktop a unique icon.

   For details, see “Selecting a Background for the Desktop” on page 95, “Selecting Separate Backgrounds Per Display” on page 96, or “Selecting a Desktop Icon” on page 96.
Figure 8.2 Creating a Desktop

Enter a name for the desktop.

Note: If you have checked the Enable Desktop Explorer option from the Multiple Interfaces tab, you can also use the Desktop Explorer node in the Windows Explorer to create desktops. See “Creating Desktops from Desktop Explorer” on page 102.
Activating or Switching Desktops

From the “Desktops” tab, double-click the desktop you want to activate from the list of desktops.

**Note:** The type of background (wallpaper) selected for your desktop can significantly affect how fast you can switch from one desktop to another.

For further details, see the “Note” in “Properties: Changing Wallpaper and Desktop Icons” on page 94.

You can also use a variety of other methods to switch between desktops as discussed in these sections:

- “Activating Desktops from the NVIDIA Settings icon” on page 92
• “Activating Desktops From the Windows Desktop Properties Menu” on page 93
• “Activating Desktops from Desktop Explorer” on page 93
• “Activating Desktops With Hot Keys” on page 93

Activating Desktops from the NVIDIA Settings icon

To activate desktops from the NVIDIA Settings icon (Figure 8.4), follow these steps:

1. Right click the NVIDIA Settings icon from the Windows taskbar, choose Desktop Manager > nView Desktops to display the list of your desktops. Figure 8.5 shows an example of a list of desktops.

   Note: If nView Desktop Manager is disabled, you cannot access the nView Desktops option. In this case, right click the NVIDIA Settings icon from the Windows taskbar, click Desktop Manager > Enable nView. Again, right click the NVIDIA Settings icon from the Windows taskbar, then click nView Desktops.

2. Choose the desktop you want to activate.

Figure 8.5 Accessing Desktops Using the NVIDIA Settings Menu
Activating Desktops From the Windows Desktop Properties Menu

1. Confirm that nView Desktop Manager is enabled.
2. Right click from your Windows desktop to display the properties menu.
3. Choose nView Desktops to view a list of your desktops.
4. Choose the desktop you want to activate.

Activating Desktops from Desktop Explorer

See “Renaming, Deleting, and Activating Desktops from Desktop Explorer” on page 105.

Activating Desktops With Hot Keys

See “Using Hot Keys” on page 179.

Renaming Desktops

Click Rename to rename the selected desktop from a text-input dialog box where you can type in a new name for the selected desktop.

Note: You cannot rename the Default desktop.

You can perform the same function from the Desktop Explorer; see “Renaming, Deleting, and Activating Desktops from Desktop Explorer” on page 105.
Chapter 8
Managing Desktops

Removing Desktops

Click **Remove** to remove the selected desktop from the list.

Once you delete a desktop, it is removed from the list of desktops. The applications on the deleted desktop now move to the Default desktop.

**Note**: You cannot remove the startup (or `default`) desktop.

You can perform the same function from the Desktop Explorer; see “**Renaming, Deleting, and Activating Desktops from Desktop Explorer**” on page 105.

Properties: Changing Wallpaper and Desktop Icons

The **Properties** option lets you change the background of the selected desktop and assign an icon to represent the desktop.

1. From the Desktops page, select the desktop for which you want to change the background and/or icon.

2. Click **Properties** to open a dialog box where you can set or change the background wallpaper and icon. From this dialog box, you can perform the following *optional* tasks, as shown in **Figure 8.6**:
   - Browse for different wallpapers (graphics files)
   - When using multiple display devices, choose separate wallpapers for each display device.
   - Set the wallpaper style (tiled, centered, stretched)
   - Set the desktop icon.
Selecting a Background for the Desktop

1. To assign a background to the desktop, click **Browse**.

2. Select a graphics file to use.

**Note:** The type of background (wallpaper) you select for your desktop can significantly affect how quickly you can switch from one desktop to another. Desktop switching performance from fastest to slowest based on types of desktop backgrounds is listed below:

<table>
<thead>
<tr>
<th>Type of Desktop Background</th>
<th>Fastest to Slowest Desktop Switching Speed</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>Fastest</td>
</tr>
<tr>
<td>Bitmap</td>
<td>Faster</td>
</tr>
<tr>
<td>Active desktop bitmap</td>
<td>Fast</td>
</tr>
<tr>
<td>Active desktop .JPEG file</td>
<td>Slower</td>
</tr>
<tr>
<td>Active desktop .HTML</td>
<td>Slowest</td>
</tr>
</tbody>
</table>
1 From the drop-down list, click **Stretch**, **Tile**, or **Center**, depending on how you want the background to be displayed.

The background you select is immediately reflected in the monitor icon in the dialog box, as shown in Figure 8.6.

Notice that the background change takes effect immediately if you are modifying your current desktop. If you are modifying a different desktop, the change is applied the next time you switch to that desktop.

2 If you want to completely remove the background, click **Clear**.

3 Click **OK** to return to the Desktops page, or continue to the next section if you want to set, change, or remove the icon representation of your desktop.

### Selecting Separate Backgrounds Per Display

To select different Wallpapers per display in a multi-display setup, follow these steps:

1 Click the **Allow different Wallpaper per display** option to enable (check) it and click **Apply**.

2 As shown in Figure 8.6, click the monitor icon (1 or 2) for which you want to change the Wallpaper, click **Browse** and proceed according to the steps shown in the previous section.

3 To change the Wallpaper for the second display, repeat the previous step.

### Selecting a Desktop Icon

To assign an icon to a desktop, follow these steps:

1 Click **Change Icon**.

2 Select a graphics file to use.

   Notice that the selected icon is immediately reflected by the icon image, as shown in the example in Figure 8.6.

3 If you want to completely remove the icon, click **Clear**.

4 Click **OK** to return to the Desktops page.
Multiple Desktop Global Options

To display the Multiple Desktop Global Options dialog box (Figure 8.7) click Options from the Desktops page.

**Figure 8.7  Multiple Desktop Global Options**

This option is available only when using a graphics card based on one of the NVIDIA Quadro series of GPUs.
Show Desktop Name When Switching

If you select the **Show desktop name when switching** check box, when you switch desktops, the name of the desktop to which you switched will be appear for approximately two (2) seconds on every display in your setup and then the desktop name will fade out.

**Note:** In Span modes (and Multiview mode in Windows NT 4.0), the desktop name may not appear on all displays.

Show Desktops in Windows Explorer

See “**Showing Desktops in Windows Explorer**” on page 102.

Show Active Desktop in the System Tray

When you select the **Show active desktop in the system tray** check box, the desktop icon (see **Note** below) for your current active desktop appears in the Windows system tray. The Windows “system tray” is also known as the Windows “taskbar notification area,” which is the area on the right side of the taskbar.

**Note:** To verify the assigned icon for your current desktop or any other desktop you have, follow these steps:

1. From the Desktops page, select the desktop.
2. Click **Properties** to open the Desktop Properties page.
3. View the area labeled “Desktop icon:” at the bottom of the page. You can change any assigned icon by clicking **Change Icon**.

![Figure 8.8 Desktop Icon for Current Active Desktop on the Windows Taskbar](image)

Sample desktop icon for your current active desktop added to the Windows “system tray” — also known as the “taskbar notification area”.

You can also use this desktop icon to switch among desktops assigned to different displays, if you selected the **Allow Display to Show Different Desktop** check box — see “**Allow Displays to Show Different Desktops**” on page 100.
Maximize Desktop Switching Speed

Enabling this option results in the very quick switching between desktops by forcing the current wallpaper background on all desktops and disabling different resolutions per desktop.

Note: You cannot enable both this option and the Allow desktops to use different speeds option at the same time because of memory constraints that can affect performance of both features.

Show Command Prompt Windows on All Desktops

When your enable this option, every command prompt window shows on every desktop. When you disable this option, command prompt windows only appear on the desktop on which they were opened.

Force Desktop to Redraw in One Step

When you enable this option, desktops are redrawn in one step when you switch desktops. However, this action may slow down the desktop switching speed.

Allow Desktops to Use Different Resolutions

When you enable this option, you can set different screen resolutions for each of your desktops.
Note: You cannot enable both this option and the Maximize desktop switching speed options at the same time because of memory constraints that can affect performance of both features.

Allow Displays to Show Different Desktops

When you select the Allow Display to Show Different Desktop check box, you can assign desktops to each active display. This means you can conveniently view more than one desktop (one on each display) simultaneously instead of viewing only one desktop at a time.

For example, you can look at an applications in one desktop on one display and at the same time access another application from another desktop on another display. This means you don’t have to leave one desktop to view an application on another desktop.

There are three basic ways you can access and switch desktops per active display:

- Use the current active desktop icon from the Windows taskbar “system tray” (notification area). See “Show Active Desktop in the System Tray” on page 98 for details on enabling this feature.
- Use the nView toolbar.

In the following example, there are two connected displays and two desktops named Default and Content Creation.

In this example, Analog Display 1 and Analog Display 2 are the two connected displays. To identify your displays, right click on your desktop to open the desktop menu and click NVIDIA Display as shown in Figure 8.10.

Note: The background in effect will be what you set for the active desktop. When you change per display desktop, the desktop background will be what you set for the active desktop from the Desktops page.
You can use these steps to open a separate desktop on each of the two displays.

1 First, add the **nView Properties** and **nView Desktops** options to your Windows desktop menu — see “Enabling nView Options in the Windows Desktop Menu” on page 115.

2 To display the **Default** desktop on your **Analog Display 1**, right-click your desktop on Analog Display 1 to open the desktop menu, click **nView Desktops** and **Default**.

   The **Default** desktop is enabled on your **Analog Display 1** (Figure 8.11).

3 To display the **Content Creation** desktop on **Analog Display 2**, right-click your desktop on Analog Display 2 to open the desktop menu, click **nView Desktops** and **Content Creation**.

   The **Content Creation** desktop is enabled on your **Analog Display 2** (Figure 8.11).
**Figure 8.11** Opening Separate Desktops on Separate Display Screens

Reset Desktops to the Current Resolution

Click **Reset** to reset all your desktops to the resolution of your current desktop.

Showing Desktops in Windows Explorer

When you enable the **Show desktop in Windows Explorer** option, you can view desktops in the Windows Explorer folder tree.

1. Enable (check) this option to add the Desktop Explorer node to your Windows Explorer.

2. Click **Apply** for the setting to take effect. A prompt appears asking you to log off for the change to take effect (**Figure 8.12**).

**Figure 8.12** Desktop Explorer Prompt

3. Click **Yes** to log off for the change to take effect, or **No** to ignore your change.
If you just enabled the Desktop Manager Explorer extension, once you log back in, it will be visible in your Windows Explorer window. A sample Desktop Explorer view is shown in Figure 8.13.

**Figure 8.13 Desktop Explorer Nodes in Windows Explorer**

If you disabled the Desktop Manager Explorer extension, once you log back in, it will be removed from your Windows Explorer window.

**Note:** nView Desktop Explorer requires an installed version 6.0 or later of Internet Explorer. Note that while Internet Explorer 6.0 must be installed to use the Desktop Explorer, you can still use other web browsers for browsing the Web. For details on using the Desktop Explorer, see “Using nView Desktop Explorer” on page 103.

**Using nView Desktop Explorer**

Activating the **Enable Desktop Explorer** adds a new **Desktop Explorer** node in the Windows Explorer tree (Figure 8.14), with each defined desktop being represented as a child node (with its name and icon) of the Desktop Explorer parent node.
When a desktop node is selected, the content pane can displays the applications present. To see the graphical representation of the desktop itself, you need to select the Desktop Explorer (parent node).

The active applications are displayed as leaves of each corresponding desktop node, allowing drag and drop and other common Explorer functionality.

The following topics are discussed in this section:
- “Creating Desktops from Desktop Explorer” on page 105
- “Renaming, Deleting, and Activating Desktops from Desktop Explorer” on page 105
- “Enhancing the Desktop Explorer “Thumbnails” View” on page 106
- “Using the Thumbnail Styles” on page 107
- “Moving Applications Between Desktops or to a New Desktop” on page 107
- “Accessing Other Application Settings from Desktop Explorer” on page 109
Creating Desktops from Desktop Explorer

To create and add a desktop using the Desktop Explorer, follow these steps:

1. Right click Desktop Explorer in the Folders list, as shown in Figure 8.14.
2. Click **New Desktop** to display a dialog box to enter the desktop name.
3. Type the new desktop name (Figure 8.15) and click **OK**. The new desktop appears as a new desktop under Desktop Explorer.

![Figure 8.15 Entering a Desktop Name](image)

Renaming, Deleting, and Activating Desktops from Desktop Explorer

Using the Desktop Explorer, you can also rename, delete, and activate (switch to) a selected desktop.

1. Right click the Desktop name in the Explorer window to display a pop-up properties menu, as shown in Figure 8.16.
2. Click one of these options:
   - **Activate**: This option immediately switches you over to the selected desktop.
   - **Delete**: lets you delete the selected desktop.
• **Rename** lets you rename (in edit mode) the desktop name.

Under Windows NT 4.0, clicking **Rename** displays a **Rename Desktop** dialog box in which you can enter a desktop name. Click **OK** when you are done and the new name replaces the old one in the Explorer window.

• **Properties**: Click this option to open the Desktops page.

### Enhancing the Desktop Explorer “Thumbnails” View

From the Desktop Explorer window, click the **View** menu to see a variety of styles you can choose to view your folders, files, and desktops in the content pane of the Explorer window. These styles include Lists, Icons, Details, and Thumbnails.

**Note**: In addition to the basic views offered by Windows Explorer, if you choose the **Thumbnails** view from the Desktop Explorer **View** menu, nView Desktop Manager provides a number of Thumbnail styles you can choose to display the desktops you have created.

Thumbnail style choices are:
• **Screenshot** shows an actual image of the desktop including wallpaper and windows. Note that this style requires the most processing power. Also note that the image displayed is a snapshot of the desktop when you switched from it is only updated when you switch from it, it does not dynamically update.

• **Geometry** shows the desktop wallpaper along with a wire frame view of the windows on the desktop. This thumbnail style dynamically updates as windows are opened and closed on the desktop.

• **Wallpaper** shows the desktop wallpaper only per desktop.

• **Disabled** shows the desktop icons only.

### Using the Thumbnail Styles

To use the Thumbnail styles for your desktops, follow these steps:

1. From the Desktop Explorer window, click the **View** menu and then the **Thumbnails** option to enable the Thumbnails option (if it isn’t already enabled).

2. Click the icon labeled **Desktop Explorer** in the folder tree of your Explorer window to expand the folder so that you can view your desktops in the contents pane.

3. Then right click on the desktop for which you want to configure Thumbnail styles. A pop-up menu appears as shown in (Figure 8.16).

4. Click **Thumbnails** and then select one of these styles: **Disabled**, **Wallpaper**, **Screenshot**, or **Geometry** (Figure 8.17).

5. Not all thumbnail styles are supported by all operating systems. However, Windows XP supports all styles.

### Moving Applications Between Desktops or to a New Desktop

**Note:** If you enabled the **nView options** menu item from the User Interface page, you can also move applications between desktops using the application’s nView menu options. See “Customizing nView Menu Options” on page 142 and “nView Menu Options: Description” on page 144 for details.

You can use any of the following methods to “move” or “add” applications from one desktop to another:

• To move applications from one desktop to another, you can use your mouse to drag and drop applications from one desktop to another.
Figure 8.17 nView Desktop Explorer — nView Desktop Thumbnails Styles

To move or add application between desktops, you can highlight an application listed in a desktop and right click to display a properties menu, as shown in Figure 8.18. Then follow these steps:

1. Click **Send to** (to move) or **Add to** (to add) followed by an existing desktop to which you want to move the application or add the application. The application will then appear under the desktop you selected.

2. If you want to create a new desktop on which you want to place the application, click **New Desktop**, enter the name of the new desktop in the dialog box that appears, and click **OK**. The application will appear under the new desktop.
Accessing Other Application Settings from Desktop Explorer

Using the Desktop Explorer, you can access a few application-specific settings as explained below.

**Note:** If you enabled adding *nView options* on the User Interface page, you can also access these application-specific options using the application’s nView menu options. See “Customizing nView Menu Options” on page 142 and “nView Menu Options: Description” on page 144 for details.

- **Visible on all desktops**
  
  To access this option, follow these steps:
  
  1. Right click an application in a desktop to display a properties menu, as shown in Figure 8.18.
  1. Then click **Visible on all desktops** to check the option and enable it.
  1. Notice that the application now appears under each of your desktops, as shown in Figure 8.19.
Once you enable the **Visible on all desktops** option for an application, you can undo the process by limiting the availability of the application to only one desktop. To do so, follow these steps:

1. Right click the instance of the application that appears in the desktop in which you want the application to remain.

2. From the properties menu that appears, click **Collapse to <desktop name>**, as shown in Figure 8.20.

3. Notice that the application is removed from all desktops except the one under which you wanted the application to remain, as shown in Figure 8.21.

- **Properties.** Click **Properties** (Figure 8.20) to open the **Applications** page. For details on using the Applications settings, see “Managing Applications: For Advanced Users” on page 203.
Click "Collapse to desktop n" to remove the application from other desktops.

Click Properties to open the Applications page.

Applications “collapsed” to selected desktop and removed from other desktops.
Advanced Menu Options

- Using the **Add to desktop** menu option, you can place an application on any number or subset of desktops.

  For example, if you had four desktops named “Default”, “Desk2”, “Desk3”, and “Desk4” and you had an application on Default, you could Add it to Desk3. After adding the application to Desk3, the application would exist on Default and Desk3 but not on Desk2 and Desk4.

- Using the **Remove from desktop** menu option, you can remove an application from an individual desktop.
About User Interface Settings

The User Interface options let you control the nView Desktop Manager user interface within Windows. For example, using the User Interface settings, you can control the following:

- Addition of button features to your Windows application title bars
- Availability of options on the nView options menu.
Chapter 8
Using the User Interface Settings

- How nView notifies you of changes in your desktop state
- How nView Desktop Manager is displayed on the Windows desktop

Accessing the User Interface Page

1. If you need help accessing the nView Desktop Manager control panel, see “Enabling and Accessing the nView Desktop Manager Control Panel” on page 41.

2. Click the User Interface tab or menu option to display the nView Desktop Manager User Interface page (Figure 8.1).

Figure 8.1  User Interface Settings — nView Single, Clone, and Dualview Modes

- “Full-desktop maximize” check box is available under nView Single, Clone, and Dualview modes.
- Click Options to open the nView menu options dialog box.
- These nView buttons appear on your application title bars, based on the corresponding check boxes that you have selected. Each button represents a selected check box.
Enabling nView Options in the Windows Desktop Menu

The **Enable nView option in the Windows desktop right-click menu** check box controls whether the **nView Properties** and **nView Desktop** menu choices appear in your Windows desktop “right-click” menu.

1. To quickly access the nView Desktop Manager control panel and multi-deskops from your Windows desktop right-click menu, select the **Enable nView option in the Windows desktop right-click menu** check box.

If you clear the **Enable nView option in the Windows desktop right-click menu** check box and click **Apply**, the nView Properties and nView Desktops entries are also cleared from the Windows desktop menu.
Note: It is recommended that you keep the Enable nView option in the Windows desktop right-click menu check box selected and not clear it.

2 Click Apply.

3 From your Windows desktop, right-click to display the desktop menu (Figure 8.3). Notice that nView Properties appears as an option on the menu.

**Figure 8.3 nView Properties and nView Desktops as Options on the Desktop Menu**

![Desktop Menu Screenshot]

4 Click nView Properties to display the nView Desktop Manager control panel.

See “Accessing Desktops from the Desktop Menu” on page 116 to use the nView Desktops menu option.

### Accessing Desktops from the Desktop Menu

The nView Desktops option appears on the desktop menu (Figure 8.3) only if you have created and enabled multiple desktops from the Desktops page.

Using the nView Desktops menu option, you can access both single-display desktops (Figure 8.7) and, if you have a multi-display setup, any “per-display” desktops you may have assigned, as shown in Figure 8.5.
Chapter 8
Using the User Interface Settings

Figure 8.4 Using nView Desktops to Activate Desktops on a Single Display

1 Before you can assign desktop to displays using the nView Desktops menu option, you must select the Allow displays to show different desktops check box on the Multiple Desktop Global Options dialog box. For details, see “Allow Displays to Show Different Desktops” on page 100.

2 Then follow these steps to view and switch desktops per display:
   1 On any one of your displays, right click on the desktop to view the desktop menu.
   2 Click nView Desktops.
      As shown in Figure 8.5, the menu that appears contains the name of your display (as the first grayed item) and the desktops that you can activate on that display.
   3 To activate a desktop, simply click the desktop.
      Note: Remember, to change any per-display desktop assignment for a specific display, repeat steps 1 through 3 on each display.
**Figure 8.5** Using **nView Desktops** to Activate Desktops Per Display in a Multi-Display Setup

Accessing NVKeystone Options From the Desktop Menu

The **NVKeystone** menu option appears *only* if you selected both NVKeystone-based check boxes on the Tools page. See “Using Tools Options” on page 196 for details. You can use the **NVKeystone** menu option (Figure 8.6) to quickly access NVKeystone features explained in “About NVKeystone” on page 197.
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Using the User Interface Settings

Figure 8.6  Using the NVKeystone Option From the Windows Desktop Menu

Showing Notification Messages on the Windows Taskbar

When the Show notification messages on taskbar check box is selected, a balloon help notification message appears on the taskbar whenever there is a major change in the nView desktop state.

For example, transparent windows are not compatible with Direct3D applications and must be disabled when a Direct3D application starts. With this check box selected, if a Direct3D application starts and nView Desktop Manager must disable transparency, a message appears on your taskbar to inform you of this change.

Enabling the nView Task Switcher

When this option is enabled, nView enhances the standard Windows application task switcher functionality.

By default, you can access this enhanced “task switcher” functionality through a Alt-~ keystroke combination, which you can change through options in the Hot Keys page. (See “Using Hot Keys” on page 179.)

The nView Desktop Manager task switcher performs the following functions:
• Indicates the desktop on which your selected application is located
• Allows you to switch among desktops
• Allows you to switch among applications on a specific desktop

Enable nView Toolbar

The nView Desktop Manager toolbar lets you place commonly used nView Desktop Manager Hot Key Actions, Profiles, Desktops, and Zoom features on a dockable toolbar. As an alternative to using the Desktop Manager control panel, you can use the nView toolbar to quickly access these features with a single click of a button.

Note: If you are using a Quadro GPU-based graphics card, a new component of the nView toolbar lets you enable a display-based toolbar. See the next section, “Using the New Display Toolbar” on page 120.

Using the New Display Toolbar

If you are using a Quadro GPU-based graphics card, the current ForceWare Release 75 graphics driver includes a new nView toolbar component called “display toolbar.” By enabling this option, you can view “thumbnail” representations of your desktop on each display in a “single display toolbar” as shown in the example in Figure 8.7.
To enable the display-based nView toolbar, follow these steps:

1. Make sure your computer is installed with an NVIDIA Quadro GPU-based graphics card, you are running Windows XP in a multi-display configuration (i.e., you have at least two display connected to your computer), and you have the most current NVIDIA Release 75 display driver installed.

2. Open the nView Display Settings page from the NVIDIA Display control panel.

3. Select Dualview from the nView modes list and click Apply.

4. Open the nView Desktop Manager Desktops page. (See “Managing Desktops” on page 86 if you need additional help.)

5. Select the Enable multiple desktops check box and click Apply. (See “Multiple Desktop Global Options” on page 97 if you need additional help.)

6. Click Options to display the Multiple Desktops Global Options dialog box.

7. Select the Allow displays to show different desktops check box and click Apply.

8. Click the User Interface menu option or tab to open the page.
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Using the User Interface Settings

9 Click **Enable nView toolbar** and click **Apply** to display the nView toolbar on your desktop.
   • To close the toolbar, right-click on the nView toolbar title bar and click **Close** or click the “x” button on the right corner of the nView toolbar window.
   • When you close the nView toolbar, notice that the **Enable nView toolbar** option in the User Interface page is disabled, i.e., cleared of its check mark.
   • To re-enable the toolbar, you have to repeat steps 6. and 7.

**Note:** The nView toolbar functions just like any other Windows toolbar, such as the Windows taskbar. For details on how to work with the nView toolbar, you can refer the Windows Help for working with Windows toolbars and the taskbar, in particular.

1 Click the title bar of the open nView toolbar on your desktop.

2 From the menu that appears, select **Toolbars > Show Display Toolbars** (Figure 8.8).

**Figure 8.8** nView Toolbar Components — **Show Display Toolbars** Enabled.

**Figure 8.7** shown earlier is a sample display toolbar. Notice that each window on this “display toolbar” contains a “thumbnail” representation of a desktop on one of your displays. Each of your active displays will contain this toolbar labeled by the display number (Display 1 or Display 2 or Display 3, depending on the number of active displays). **Figure 8.7** shows a Display 1 labeled toolbar.

**Note:** If you rest your mouse directory on each thumbnail window that represents your desktop, a “tool tip” appears that contains your desktop name.
3 To select different views of the desktop thumbnails that appear on your display toolbar, right click directly on the thumbnail desktop image (not the title bar of the display toolbar). A context menu of options appears, as shown in Figure 8.9.

Figure 8.9  nView Display 2 (of 2) Toolbar Showing Context Menu for Desktop Thumbnail Windows.

Figure 8.10  nView Toolbar Components — **Show Display Toolbars** Enabled.

- **Show icons** toggles (showing/hiding) the application icons in all thumbnail views. The examples in Figure 8.7 and Figure 8.11 through Figure 8.14 show both enabled and hidden application icons in desktop thumbnails.

- **Background view** is useful if you want to associate your desktops with backgrounds. This option renders only the frames of open application windows so that the backgrounds of these applications are always visible. Examples are shown in Figure 8.11 and Figure 8.12.
Figure 8.11 nView Display 2 (of 2) Toolbar Showing Background View with Show Icons Enabled

• Window view is useful if you want to see as close a representation as possible of your desktop applications. You can see screenshots of application on your current display thumbnail as well as shaded versions of application windows on other display thumbnails. The sample thumbnail desktops in Figure 8.7 are in this view. The examples in Figure 8.13 and Figure 8.14 are also in this view.

Figure 8.12 nView Display 2 (of 2) Toolbar Showing Background View with Show Icons Hidden

Figure 8.13 nView Display 2 (of 2) Toolbar Showing Window View with Show Icons Hidden
Enabling and Using the nView Toolbar

To enable and use the nView toolbar, follow these steps:

1. From the User Interface page, click **Enable nView toolbar**.
2. Click **Apply** to display the nView toolbar on your desktop.
3. To close the toolbar, right-click on the nView toolbar title bar and click **Close** or click the “x” button on the right corner of the nView toolbar window.
   - When you close the nView toolbar, notice that the **Enable nView toolbar** option in the User Interface page is disabled, i.e., cleared of its check mark.
4. To re-enable the toolbar, you have to repeat steps 1. and 2.

**Note:** The nView toolbar functions just like any other Windows toolbar, such as the Windows taskbar. For details on how to work with the nView toolbar, you can refer the Windows Help for working with Windows toolbars and the taskbar, in particular.
Enabling and Disabling Actions, Profiles, Desktop, and Zoom Settings

You can toggle between enabling and disabling the nView toolbar band for any of these nView Desktop Manager components:

- Desktops
- Actions
- Profiles
- Zoom

Figure 8.15 shows two (Desktops and Actions) of the three nView Desktop Manager components enabled.

Enabling Profiles

To enable the Profiles component, follow these steps:

1. Right-click on the toolbar to display the context menu.
2. Select the Profiles “unchecked” component to enable (check) it. Notice that the Profiles component is added to the nView toolbar (Figure 8.16).
3. You can also remove any of the enabled bands by using steps 1 and 2 to disable (uncheck) the enabled component.

Enabling Zoom

To enable the Zoom component, for example, follow these steps:

1. Right-click on the toolbar to display the context menu.
2. Select the Zoom “unchecked” component to enable (check) it. Notice that the Zoom component is added to the nView toolbar (Figure 8.18).
3 You can also remove any of the enabled bands by using steps 1 and 2 to disable (uncheck) the enabled component.

4 To quickly access the Zoom menu, right click the Zoom component from the nView tool bar and select Zoom, as shown in Figure 8.18.
Viewing the Descriptions of nView Toolbar Buttons

To view any of the descriptions of the Actions, Desktops, or Profiles buttons on the nView toolbar, simply rest your mouse cursor on the button until the “tool tip” text description appears (Figure 8.19). Tool tip text can also include additional information such as the target application for “Toggle always on top” or “Toggle transparency” actions. You can also control text and title options for the Actions, Desktops, and Profiles nView toolbar buttons.

1. Right-click the nView toolbar, click Actions, Desktops, or Profiles, depending where you are clicking.

2. Select Show title and/or Show text.

Figure 8.19 shows several views of enabled and disabled “Show Text” and “Show Title” options. It also shows a “tool tip” example.

Removing, Adding, and Arranging Actions

You can add, remove, and arrange the actions that appear on the Actions component of the nView toolbar.
1 From the nView toolbar, right-click the Actions component to display its context menu.

2 Click Customize (Figure 8.20) to display the Customize Toolbar dialog box (Figure 8.21).

Figure 8.19 nView Toolbar — “Show Title” and “Show Text” Options

Example of “tool tip” text

Figure 8.20 nView Toolbar — “Customize” Option from the Actions Context Menu

Actions menu with “Show Title” enabled and “Show Text” disabled

Profiles menu with “Show Title” and “Show Text” disabled
Figure 8.21 nView Toolbar — Customize Toolbar Dialog Box

3 For details on how to use the Customize Toolbar dialog box, press F1 to display Windows context Help.

Locking and Unlocking the nView Toolbar Components

Note: When you lock the nView toolbar components into position, they cannot be moved or rearranged inside the nView toolbar frame.

To lock the nView toolbar components (i.e., the Profiles, Desktop, and/or Actions bars, depending on what is displayed on your nView toolbar) into position, follow these steps:

1 Right-click the nView toolbar and click Lock the Toolbars (Figure 8.22).

Figure 8.22 nView Toolbar — “Lock the Toolbars” Enabled
2 To disable the option, click **Lock the Toolbars** again to clear the check mark.

3 You can now drag any of the nView toolbar component bars (i.e., the Profiles, Desktop, and/or Actions bars, depending on what is displayed on your nView toolbar) to a different area within the nView toolbar frame.

### Docking and Undocking the nView Toolbar

You can “dock” and “undock” your nView toolbar by choosing, respectively, to “attach” or “detach” the toolbar to/from the top, bottom, left, or right edges of your Windows desktop. If you have a multi-display setup and want to dock your nView toolbar, you can move the nView toolbar to a different display.

1 Right-click the nView toolbar and then click **Attach** (Figure 9.10.).

2 From the context menu, choose any one of these tasks:
   - Select **Top, Bottom, Left, or Right** if your nView toolbar is not yet docked and you want to dock it to one of these edges of your desktop.
   - Select **Detach** to “undock” your nView toolbar from one of the docked positions.
   - Select a **Display** choice if you have a multiple-display setup and want to move your nView toolbar to a specified display.

**Figure 8.23** shows an nView toolbar docked to the “Bottom” edge of a Windows desktop.

**Figure 8.23** nView Toolbar — Docked to the “Bottom” of the Windows Desktop
Auto-Hiding the nView Toolbar

Note: The nView toolbar must be attached in order to access the Auto-Hide option. You cannot access the Auto-Hide option if your nView toolbar is detached.

1 To hide the nView toolbar, right-click the nView toolbar and click Auto-Hide from the context menu (Figure 8.23).

2 To re-display the taskbar, point to the area of your screen where the nView toolbar is located.

Note: If you want to be sure that the nView toolbar will be visible whenever you point to it, select the Always on top of other windows check box (see Keeping the nView Toolbar on Top of Other Windows) and also select the Auto-hide the taskbar check box.

Keeping the nView Toolbar on Top of Other Windows

Right-click the nView toolbar and click Always on Top from the context menu if you want to ensure that the nView toolbar is always visible, even when you run a program in a maximized (full screen) window.

Enabling and Using Display Gridlines

When you enable the Enable gridlines option (Figure 9.11) from the User Interface page, you can define grids on each of your displays. The grids function as sub-monitors for repositioning and maximizing dialog boxes.

- Under NVIDIA GeForce-based graphics cards, you can define up to four (4) grids.
- Under NVIDIA Quadro-based graphics cards, you can define up to nine (9) grids.

Follow these steps to create grid lines:

1 From the User Interface page, select the Enable display gridlines check box and click Apply.

2 Then click Edit Gridlines. The Edit Display Gridlines dialog box appears (Figure 8.24).

3 Click the list and select the display on which you want to set up your gridlines. Then click OK.
The Grid Settings screen appears over the darkened desktop (Figure 8.25).

Figure 8.24  Edit Display Gridlines.

Figure 8.25  Grid Settings — Main Menu.

4  To create a grid line on the darkened desktop, simply click on a point where you want the line to appear and drag vertically or horizontally, depending on whether you want a horizontal or vertical line. Release the mouse and the line is drawn automatically.

Figure 8.26 shows a desktop with gridlines used to create sub-display regions.

Note: You can create from two (2) to a maximum of nine (9) such sub-display regions when using Quadro GPU-based graphics cards, or up to nine (9) such regions when using GeForce GPU-based graphics cards.

5  Use the Grid Settings main menu options to create and work with gridlines.
To display the grid number, click **Show Grid Names** from the Grid Settings main menu. Figure 8.27 shows grid numbers displayed.

**Figure 8.26** Gridlines Drawn and Displayed

**Figure 8.27** Grid Names Displayed
7 Use the Grid Settings main menu options to create and work with gridlines.

8 To set up other grid controls, click Options. The Grid Settings: Options menu appears (Figure 8.28).

**Figure 8.28 Grid Settings — Options Menu**

![Grid Settings: Options Menu](image)

9 Click Back when done to return to the previous screen — the Grid Settings main menu.

10 Click Exit to return to the desktop.

### Adding Title Bar Buttons

Adding nView Desktop Manager title bar buttons to application windows, as explained in the sections below, provides easy access to nView Desktop Manager features including the following:

- the nView options menu
- a windows minimization (collapse to title bar) button and
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• desktop/monitor maximizing commands (max to desktop, max to monitor).

Note: An image of each button you add appears on the sample button bar on the User Interface page.

nView Options

When you select the nView options check box (Figure 8.1), an nView Desktop Manager options menu button is added to every application window title bar.

For addition details, see “Enabling the “nView Options” Title Bar Button” on page 141.

Full-Desktop Maximize

Note: This option is displayed if you are in nView single display, Dualview, or Clone mode (Figure 8.1).

Click the “full-desktop maximize” button on application window title bars to toggle between a custom maximized state (the application window maximizes to the full desktop) and a restored state.

To add this button to application title bars, select the Full desktop maximize check box and click Apply.

The nView full-desktop maximize button (button shown in Figure 8.1 and Figure 8.29 below) is added to title bars on all application windows.

Figure 8.29 nView Title Bar Button: “Full Desktop/Single-Display Maximize”

Full-desktop (single-display) maximize button
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Single-Display Maximize

**Note:** The *Single-display maximize* check box is displayed if you are in nView Span (Horizontal or Vertical) mode under Windows 2000/XP (Figure 8.1).

Click the “single-display maximize” button on application window title bars to toggle between a custom maximized state (the application window maximizes to the entire screen of the display device on which the application is located) and a restored state.

To add this button to application title bars, select the *Single-display maximize* check box and click **Apply**.

The nView *single-display maximize button* shown in Figure 8.1 and Figure 8.29 (previously) is added to title bars on all application windows.

Next Display

Click the **Next display** nView title bar button to move the application window to the next display.

Follow these steps to add the Next display button to your application window title bars.

1. From the User Interface page, enable the **Next display** check box.
2. Click **Apply**.
   
   The “next display” button is added to the nView title bar button, as shown in Figure 8.29.
Figure 8.30 nView Title Bar Button — “Next Display”

Click this “next display” button to move the application window to your next display device.

Collapse to Title Bar

Click the “collapse to title bar” button on application window title bars to toggle between shrinking the application window to just its title bar (or the smallest size possible for the window) and restoring the window to its former size.

To add this button to application title bars, follow these steps:

1 Select the **Collapse to title bar** check box and click **Apply** to enable the option (Figure 8.1).

   The nView “collapse to title bar” button (shown in Figure 8.1 and Figure 8.31) is added to the title bars on all application windows.

2 When you click the “collapse to title bar” button (shown in Figure 8.32), the application window shrinks in size to just its title bar (or the smallest size possible for the window) as shown in Figure 8.31.

3 When you click the button again, the window is restored to its former size, also shown in Figure 8.31.
Figure 8.31 nView Title Bar Button: “Collapse to Title Bar”

1) Click the “Collapse to title bar” button to shrink the application window to only its title bar, as shown in the image below.

2) On the collapsed title bar, click the same button again to restore the application window to its original size, as shown in the above image.

About the Title Bar Buttons LED Status Indicators

In addition to allowing quick access to controls, the nView button bar also provides status LEDs on each side.

- On the left side of the nView button bar is a LED that is either off or red.
  - When the LED is off, this means that the application does not have any nView Desktop Manager functions disabled for the window.
  - When the LED is red (shown in Figure 8.32), then certain nView Desktop Manager functions for the application window are disabled.

  Note: To determine the Desktop Manager functions that are disabled, open the nView options menu for the application and select “About this app...”.

- On the right side of the nView button bar is a LED that is either off or white (shown in Figure 8.32).
  - When LED is off, the window uses global nView settings.
  - When LED is white, the application has individual (application) settings defined for it.
Figure 8.32 nView Title Bar Button: LED Indicator

Accessing nView Menu Options

Using the nView options menu, you can quickly and easily access nView Desktop Manager features from any application. The nView menu options are described in “nView Menu Options: Description” on page 144.

You can also access nView application-specific options from the nView options menu. For example, with certain applications such as Internet Explorer (minimum version 6.0), you can create links between two Internet Explorer windows.

There are two basic ways you can access nView menu options from your application — you can enable one or more of these methods at any given time.

- You can enable the nView options menu title bar button and then click the button to open the nView options menu. For details, see “Enabling the “nView Options” Title Bar Button” on page 141.
- Another way to access the same nView options menu is by adding the menu item “nView Options” to an application’s system menu. Every window has a “system
menu” for basic tasks such as moving or resizing the window. For details, see “Adding “nView Options” to Application System Menus” on page 141.

Enabling the “nView Options” Title Bar Button

1 To access the “nView options” title bar button on application windows, first select the nView options check box and click Apply (Figure 8.1).

An nView Desktop Manager options menu button is added to every application window’s title bar — an example is shown in Figure 8.33.

Figure 8.33 nView Title Bar Button — nView Options

Click the nView options menu button from the application’s title bar to display the nView options menu.

2 Now you can click the green nView options menu button from the application’s title bar to display the nView options menu (Figure 8.33).

Adding “nView Options” to Application System Menus

Another way to access the same nView options menu is by adding the menu item “nView Options” to an application’s system menu. Follow these steps to do so:

1 From the User Interface page, select the check box Add nView options to system menus and click Apply.

2 You can now use one of two methods to display the nView options menu:
Right click an application’s title bar and click the **nView options** menu item (Figure 8.34) or right click the “minimized” application icon in the Windows taskbar and click the **nView options** menu item (Figure 8.34).

**Figure 8.34** Accessing the nView (Desktop Manager) Options Menu

Click **nView Options** from the application’s title bar as another way to display the **nView Desktop Manager options menu**.

Right click the application name/icon from the Windows task bar and click **nView Options** to display the nView Desktop Manager options menu.

---

**Customizing nView Menu Options**

nView Desktop Manager can perform a variety of operations on windows in the system. You can access this functionality through an **nView Options** menu, as explained in the earlier sections.
Figure 8.35 shows the dialog box that appears when you click **Options**. From this dialog box, you can change the nView Desktop Manager options that you want to display in the nView options menu. In this way, you can customize your nView options menu to only show those features that you want to use.

The options that appear in this dialog box correspond to those available from the nView options menu available from your application title bars and system menus, as shown previously in Figure 8.33 and Figure 8.34 examples.

If you do not want to have all options available, enable/disable (check/uncheck) one or more options, as needed. Once you disable (uncheck) an option, you will no longer see the option in the nView options menu for that application.

**Figure 8.35** nView Menu Options Dialog Box

All option are enabled

Multi-desktop options are enabled

---

**Note:** For detailed descriptions of each of these options, see “Customizing nView Menu Options” on page 142.

- nView maximize (Shift Max)
- Send windows to display n
- Send application to display n
- Send windows to desktop n
• Send application to desktop $n$
• Transparent
• Always on top
• Visible on all desktops.
• Collapse to this desktop
• Individual settings
  • Click Enable All Options if you want to enable all of the above options.
  • Click Disable All Options if you want to disable all of the above options.
  • Click Enable Multi-Desktop Options if you want to add only the multiple desktop-specific options.
  • Click Disable Multi-Desktop Options if you want to remove only the multiple desktop-specific options.

nView Menu Options: Description

This section explains the nView options that are available from an application’s nView options menu and part of the configurable nView Menu Options dialog box (Figure 8.35).

nView Maximize

This option performs the same action as the nView max/restore title bar button, as explained in “Full-Desktop Maximize” on page 136 and “Single-Display Maximize” on page 137.

Send window to. . .

• Display $n$: A pop-up menu displays the number ($n$) of active display devices in your setup. Select a display device number, which will represent the display to which you want the window to move.
• Desktop $n$: A pop-up menu displays each defined and active desktop name, represented by $n$, including selections for the default and current desktop. Select a desktop. The active window will be sent that desktop.
Send application to . . .

- **Display n**: A pop-up menu displays the number \( n \) of active display devices in your setup. Select a monitor number, which will represent the monitor on which you want the application to move.

- **Desktop n**: A pop-up menu displays each defined and active desktop name, represented by \( n \), including selections for the default and current desktop. Select a desktop. The application will be sent to that desktop. For an application that has more than one window (e.g., Microsoft Outlook), every owned window of the active window (or active window parent) is moved to the selected desktop or monitor.

**Transparent (alpha blended)**

Click this check box to toggle transparency on/off for the window.

**Always on top**

Click “**Always on top**” to toggle the option on/off for the window.

When a window is marked as being always on top, it will always be placed in front of any other window. So you can use this settings on windows that you don’t want to appear behind or obscured by other windows.

If two windows have the “Always on top” enabled and they are dragged on top of one another, then the last active window is placed in the top position.

**Visible on All Desktops**

Click **Visible on all desktops** to toggle the visibility (on/off) of the window on all desktops.

Enabling this option causes the window to appear on all desktops.

**Collapse to This Desktop**

Enabling “**Collapse to desktop**” moves the active application window to the current desktop.
Individual Settings

Note: If you are an advanced user, you can further customize applications and also configure individual settings from the Applications page. For further details, see “Managing Applications: For Advanced Users” on page 203.

In order to see the Individual Settings option enabled on the nView Options menu on an application’s title bar, you need to have checked (enabled) the Individual Settings option in the nView Menu Options dialog box, as explained in “Customizing nView Menu Options” on page 142 and shown in Figure 8.35.

- Enable lets you turn on/off the individual settings for the application without losing those settings.

- Edit: To edit individual settings for an application, select Individual Settings > Edit on an application’s nView option menu.

The Individual Application Settings dialog box appears (Figure 8.36).

Figure 8.36 Individual Application Settings

Click any of these settings to toggle between “global,” “enabled,” and “disabled” states.
From this dialog box, you can set up both individual as well as launch settings for the application.

Individual Applications Settings

Use this dialog box to customize window, dialog box, and launch settings for a specific application.

Several nView Desktop Manager options are represented by a check box, which can be in one of three states, as described below. Click the check box to toggle among the three states. Click **Apply** for a specific state to take effect.

- **Global** state — In the first group box, the check box that appears in the sentence “Note: ___ means use global settings.” contains a “global” marker, which can be a “gray” check mark (Figure 8.36), a solid colored square (Figure 8.37), or other indicator, depending on your application. If you want a particular check box-based option to use the standard nView Desktop Manager “global” setting (as entered in one of the nView Desktop Manager control panel pages), then click the check box until the global marker appears.

- **Disable** — In the first group box, the sentence changes to “NOTE: ___ means disable for this application.” when you click the check box to clear it (Figure 8.37). To “disable” another check box-based option for the application, click the check box until it is cleared.

- **Enable** — In the first group box, the sentence changes to “NOTE: ___ means enable for this application.” when you click the check box until a solid black check mark appears (Figure 8.37). To “enable” another check box-based option for the application, click the check box until a solid black check mark appears.

Enable Window Spanning

For details on functionality, see “Enabling Window Spanning Across Multiple Displays” on page 81.

Allow Title Bar Buttons

For details on functionality, see “Enabling nView Options in the Windows Desktop Menu” on page 115.
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Allow Transparency and Draw at n%

The **Allow transparency and draw at n%** option is simply an on/off setting that either enables or disables transparency for the application and sets an individual transparency level to be used for the application during transparent operations.

Enable Color Keying and Use

For details on functionality, see “Windows Color Keying” on page 157.

Reposition Dialog Boxes

For details on functionality, see relevant sections in “Managing Windows” on page 79.

Launch Settings

Launch settings control the state of the application when it is started. By default, the setting is Off. The Transparency, Always on top, and Visible on all desktops can have one of three settings:

- **On** To force a setting to be on when starting the application, select On.
- **Off** means that the feature is always disabled when this application starts.
- **Last Setting** To save a window setting when you close the application and then restore the setting when you restart the application, select Last Setting.
- **Open windows on display**. For details, see “Open Windows On Display” on page 82.
- **Launch application on desktop** lets you specify a desktop on which to always start the application.

Click the list to specify a desktop where you always want to start the application.

- If you select **Active**, the application always starts on your currently active desktop.
- If you select **Default**, the application always starts on the desktop labeled Default.
- If you select **Last**, the application always starts on the last desktop on which it was closed. The last desktop is the desktop on which the application was located when it was closed.
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Figure 8.37 Individual Application Settings — Dialog Box and Launch Settings
• If you select a specific named desktop, the application always starts on that desktop and you are automatically switched to that desktop.

• **Force window to stay on display on which they open** — To force your application windows to always stay on this particular display, first select a numbered display from the “Open windows on display” list, and then select this check box.

• **Keep system active while application is open** — When selected, this option prevents screen savers and stand-by or other power schemes from activating while the application is open. For example, if you are giving a presentation using Microsoft Excel and you do not want the screen saver to appear during the presentation, you can specify the use of this setting with Excel.

### Individual Settings: Clear all

Clear all displays the message in Figure 8.38.

**Figure 8.38** Prompt for Clearing Individual Settings for an Application

- Click Yes only if you want to erase all individual settings that Desktop Manager may have stored for the application.
- Otherwise, click No.

### Other Methods of Clearing Individual Settings

You can also use the following means to clear all Individual Settings for an application:

- Load a profile, which resets your application database.
- Use the **Remove** option on the nView Desktop Manager control panel Application page. (See “Managing Applications: For Advanced Users” on page 203.)

### Menu Options

When you select **Menu Options**, the nView Menu Options dialog box (Figure 8.35) opens.
See “Customizing nView Menu Options” on page 142 and “nView Menu Options: Description” on page 144 for details.

About this Application ...

Depending on the context, select the About this Application option from the nView menu to view information either about a disabled nView Desktop Manager function or a brief description of how to use an enabled “custom” application-specific nView Desktop Manager function.

This About this Application nView menu option appears under the following situations:

• You have disabled one or more nView Desktop Manager functions for the application.

Select the About this Application option from the nView menu to view information about the disabled nView Desktop Manager function(s).

A sample “About this Application” information box for PowerPoint is shown in Figure 8.39. This information describes both disabled and enabled PowerPoint-specific nView Desktop Manager functions.

• You have enabled one or more “custom” application-specific features for the application.

Select the About this Application option from the nView menu to view a brief description of how to use the enabled “custom” application-specific nView Desktop Manager function(s)

A sample “About this Application” information box for Internet Explorer is shown in Figure 8.39. The information describes two enabled Internet Explorer-specific nView Desktop Manager functions.

Application-Specific nView Menu Options

In addition to the standard nView menu options described previously, certain applications have custom features on the nView options menu. Note that when an application has such custom features enabled, the About this application... option appears on the nView options menu.

Select this menu option to view a brief description of how to use the feature. A sample “About this Application” for a disabled nView Desktop Manager function is shown in Figure 8.39.
For detailed information on how to enable “custom” nView options for Microsoft Internet Explorer and PowerPoint®, see “Application Enhancements” on page 212.

Application-Specific nView Menu Options

In addition to the standard nView menu options described previously, certain applications have custom features on the nView options menu. Note that when an application has such custom features enabled, the “About this application...” option appears on the nView options menu. Select the option to view a brief description of how to use the feature. A sample “About this Application” for a disabled nView Desktop Manager function is shown in Figure 8.39.

**Figure 8.39** Sample “About this Application” Information for Disabled and Enabled nView Desktop Manager Functions

<table>
<thead>
<tr>
<th>powerpnt</th>
<th>iexplore</th>
</tr>
</thead>
<tbody>
<tr>
<td>This application does not fully support nView transparency functions. Transparency while dragging is the only transparency feature allowed. PowerPoint has been extended by nView. To use the extension, choose the display on which you want to display slide shows on. You can also disable alert windows from showing on top of your slide show with the Prevent alerts during slideshow option.</td>
<td>Microsoft Internet Explorer has been extended by nView. To use the extension, from the nView extension menu, choose the display on which you want to open links. To open selected hyperlinks on that display, press Ctrl-left-click or double right-click. nView has added a popup preventer extension to Internet Explorer. To use this extension, select the Internet Explorer popup prevention option in the nView Options menu on your Internet Explorer window.</td>
</tr>
</tbody>
</table>
For detailed information on how to enable “custom” nView options for Microsoft Internet Explorer and PowerPoint®, see “Application Enhancements” on page 212.
The following major topics are discussed in this chapter:

- “About Effects” on page 154
- “Accessing the Effects Page” on page 155
- “Window Drawing Enhancements” on page 155
- “Windows Color Keying” on page 157

About Effects

The Desktop Manager Effects page provides 2D and 3D features for windows on the desktop. Effects features can be used in both single-display and multi-display computer setups.

Among the features you can enable from the Effects page is increasing the speed of windows opening/closing and to change Windows behavior to automatically activate windows underneath your cursor. You can also add transparency support to windows on the desktop.

Key benefits of using Effects features are that

- Speed up maximizing, minimizing restoring, and opening windows.
- Making a window transparent effectively gives you more space on your desktop.
Accessing the Effects Page

1. If you need help accessing the nView Desktop Manager control panel, see “Enabling and Accessing the nView Desktop Manager Control Panel” on page 41.

2. Click the Effects tab or menu option to display the nView Desktop Manager Effects page (Figure 10.1 and Figure 10.2).

Figure 10.1 Effects Page for NVIDIA GeForce-based Graphics Cards

Window Drawing Enhancements

Making Windows Minimize and Maximize Faster

Select the **Make Windows Minimize and Maximize Faster** check box to accelerate opening, maximizing, and restoring application windows.
Make Windows Transparent When Dragged

Select the **Make Windows Transparent When Dragged** check box to enable window transparency when windows are dragged. Windows become transparent as you hold down the mouse option while on the window’s title bar, allowing you to quickly see what is underneath the window. When you release the mouse option, the window becomes opaque.

**Figure 10.2** Effects Page for NVIDIA Quadro-based Graphics Cards

Require Shift Key to be Held Down

If you want to perform the “**Make windows transparent when dragged**” action while holding down the **Shift** key, select the **Require Shift key to be held down** check box.

Enable Taskbar Transparency

Select the **Make Windows Transparent When Dragged** check box option to make the Windows taskbar transparent.
Using Effects

Transparency Level

Select the **Transparency Level** check box to set the degree of transparency for the transparency features above. The higher the percentage you select, the more transparent the window appears.

**Note:** You can change the transparency level of an individual application using the **Individual Settings** feature. For details, see Chapter 14, which discusses the features of the Applications page.

**Note:** Transparency percentage values are limited to a maximum of 80%.

**Notes on Transparency Support**

- Transparency is only supported on Windows 2000/XP.
- Transparency can take a lot of processing power. If Desktop Manager detects that your system may be sluggish when dragging large transparent windows, you will be given an option to disable transparent window dragging for windows larger than a certain size.
- Transparency is disabled when a 3D or hardware overlay application is running.
- Some applications do not support transparency, in which case, an **About this application** .. menu choice is added to the nView Extension menu for that application.

**Windows Color Keying**

**Note:** Color Keying options are available only when using NVIDIA Quadro GPU-based graphics cards.

**Enabling Window Color Keying**

When you select the **Enable window color keying** check box, the nView Desktop Manager colors the border of application windows according to:

- **Individual Application Settings** (if you have enabled this option, see “**Individual Settings**” on page 146 and/or “**Individual Settings**” on page 211) or
- **Automatically assign colors**. . option described below.
Manipulating Color-Keyed Windows Using Hot Keys

Color-keyed windows can then be manipulated using color-keyed hot keys that you can define using options on the Hot Key page. When you press a color-keyed hot key combination, it will toggle the corresponding color-keyed window to be brought to the forefront, maximized, and visible on all desktops. In other words, it allows for a window to be immediately accessible with a single keystroke no matter where on the desktop(s) the window is located.

For details, see “Using Hot Keys” on page 179.

Automatically Assign Colors to Windows

When you select the Automatically Assign Colors to Windows check box, your application windows that are open will automatically become “color keyed” with the enabled colors. Colors will be automatically chosen out of the color pool as long as colors are available — i.e., not used by individual application settings. If all colors have been used, new windows will not be colored.

Using the Color Key table

To enable, disable, or edit any of the colors in the Color Key table (shown in Figure 10.1), follow these steps:

1 Double-click any of the colors to display the Color Key Properties dialog box shown in Figure 10.3.

![Figure 10.3 Color Key Properties](image)

2 To disable the color to be used with the Color-Keyed windows, click the checked box to remove the check mark and click OK. Notice that the color for that number (in this case “4”) is removed from the Color-Keyed table in the Effects page.

3 To enable a color, follow these steps:
1 Click a uncolored box number (“4” in this case since it was disabled in the previous example) to display the Color Key Properties dialog box again.
2 Click the **Enable the color key** check box to insert the check mark.
3 Click **OK**.

**4** To **edit the color to be used** with the Color-Keyed window, follow these steps:
1 From the Effects page, double-click the color number you want to edit.
2 Click the **Edit Color** options from the Color Key Properties dialog box.
3 Choose the color you want from the Color palette dialog box and click **OK** to return to the Color Key Properties dialog box. Notice the new color is reflected in the **Current Color** field.

5 Click **OK**. Notice the new color for the number is reflected in the **Color Key** table on the Effects page.

**Colored Application Window Borders**

**Figure 10.4** shows sample applications with colored window borders.

**Figure 10.4 Sample Colored Application Window Borders**
This chapter contains the following sections:

- “About Zoom Options” on page 161
- “Accessing the Zoom Page” on page 161
- “Zoom Features: Display Properties vs. Desktop Manager” on page 163
- “Zoom Window Styles” on page 164
- “Using the Mouse Wheel to Change Zoom Levels” on page 164
- “Showing the Cursor in a Zoom Window” on page 165
- “Automatically Moving Zoom Window to the Next Screen” on page 165
- “Enabling Bi-Directional Editing” on page 165
- “Inverting the Colors of the Zoomed Image” on page 166
- “Zooming Video Playback (disables overlay)” on page 166
- “Showing the Zoom Window” on page 167
- “Full Screen Video Zoom” on page 176
- “QuickZoom Hot Key” on page 177
About Zoom Options

Zoom window shows you a user definable zoom area of your desktop.

The Zoom feature of Desktop Manager provides dynamic zoom functionality on the desktop. Zoom features can be used by both single-display and multi-display users. Among the zoom features you can enable from the Zoom page is a resizable “zoom window” to zoom in on areas of the desktop for easier reading or for fine editing. The zoom window shows you a user definable zoom area of your desktop.

Key benefits of using zoom features are the following:

• You don’t have to change resolutions to view and/or edit small graphics or text – you can simply open up your “zoom” window.
• You can display a portion of your desktop on a second display without additional hardware.

Accessing the Zoom Page

1. If you need help accessing the nView Desktop Manager control panel, see “Enabling and Accessing the nView Desktop Manager Control Panel” on page 41.

2. Click the Zoom tab or menu option to display the nView Desktop Manager Zoom page.

Figure 11.1 shows options specific to Magnifying glass and Centered on cursor zoom styles. Figure 11.2 shows options specific to Fixed Frame zoom styles.
Figure 11.1 Zoom Page for **Magnifying Glass** and **Center on cursor** Zoom Styles
Zoom Features: Display Properties vs. Desktop Manager

If you are using an NVIDIA multi-display GPU-based graphics card, you have several zoom options available.

- If you just want a Windows tool that lets you zoom certain areas of the desktop in a window, use the “Zoom Window” tool described in this section.

- If you are specifically interested in zooming video playing back on your computer from a DVD or other video source, it is recommended that you use the Overlay Video Mirroring controls described in the NVIDIA Display Properties User’s Guide. You can set up Video Mirroring to zoom and automatically display full-screen video on your second display device.

**Note:** The nView Desktop Manager Zoom page contains the Video Mirror Controls. Clicking this option will give you access to the Overlay Controls page where you can set Video Mirror options.
Zoom Window Styles

This selection controls what type of Zoom window you want to open. nView Desktop Manager supports three types of Zoom windows:

- **Magnifying Glass**
- **Centered on Cursor**
- **Fixed Frame**

**Magnifying Glass**

This option creates a magnifying glass style zoom window when you launch a Zoom Window. The magnifying glass zoom window contains a white square inside the zoom window. For details on using this option, see “Using Magnifying Glass Style Zoom” on page 171.

**Centered on Cursor**

This option creates a zoom window that displays a magnification of the area around the mouse cursor when a zoom window is launched. For details on using this option, see “Using Cursor Style Zoom” on page 169.

**Fixed Frame**

This option creates a zoom window that displays a magnification of a fixed area on your desktop. For details on using this option, see “Using Fixed Frame Zoom” on page 173.

Using the Mouse Wheel to Change Zoom Levels

- To use the mouse wheel to change zoom levels when a zoom window is active, enable the “**Use the mouse wheel to change zoom levels...**” option.

  **Note:** In addition, or as an alternative, you can also use the “Zoom Level” menu from the Zoom Window to change zoom levels. See “**Zoom Window Menus**” on page 167.
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Using Zoom Options

- To use the mouse wheel to change zoom levels while holding down one of the following keys (Shift or Ctrl), follow these steps:

  1. Click the **Use the mouse wheel to change zoom levels** check box to enable the option.
  2. Then click Shift and/or Ctrl.
  3. Click **Apply**.

### Showing the Cursor in a Zoom Window

**Note:** This option doesn’t apply under Magnifying Glass zoom.

This option causes the mouse cursor to be shown in the zoom window when enabled (checked). This feature only applies to centered on cursor and fixed frame zoom styles. When enabled, the mouse cursor will be shown in the zoom window if the mouse cursor is in the area of the screen that is being zoomed. When disabled (unchecked), the mouse cursor will not appear in the zoom window.

### Automatically Moving Zoom Window to the Next Screen

**Note:** The **Automatically move zoom window to the next screen** check box is only available when you have selected the “Centered on cursor” option on the Zoom page.

When you select the **Automatically move zoom window to the next screen** check box and the zoom window is maximized, nView Desktop Manager will automatically move the window to the next screen if your cursor moves onto the Zoom window.

### Enabling Bi-Directional Editing

**Note:** The **Enable bi-directional editing** check box is only available if you have selected the “Magnifying glass” or “Fixed Frame” option on the Zoom page.

When you select this check box, you can use your mouse with applications under either “Magnifying glass” or “Fixed Frame” zoom windows using the application’s standard mouse-editing methods.
Using an example of the Microsoft Accessories Paint program, (Start > Programs > Accessories > Paint), follow these steps:

1. Open the Zoom window (see “Showing the Zoom Window” on page 167 for details) and place the Magnifying Glass or Fixed Frame zoom window over the Paint window so that the drawing buttons as well as some of the paint area is being magnified.

2. Press the paint buttons on the Zoom window (not the paint window) and then draw directly on the zoom window. This allows for easier editing since the area is magnified.

### Inverting the Colors of the Zoomed Image

Select the Invert zoomed image check box to invert the colors of your zoomed image.

### Zooming Video Playback (disables overlay)

**Note:** The Enable zoom of video playback (disabled overlay) check box is only available if you have selected the “Magnifying glass” option on the Zoom page.

The Zoom Window cannot zoom video data contained in hardware overlay windows. Hardware overlay is used by default to play back video data. So, if you open a video playback window, the Zoom Window normally will not zoom the content.

The Enable zoom of video playback (disabled overlay) check box to disable hardware overlay when the Zoom Window is open. This prevents the use of hardware overlay by the video playback.

**Note:** This setting does not affect videos that are currently playing when the Zoom Window opens but only affects video windows opened after you have opened the Zoom Window. In other words, if a video is playing before you open a Zoom Window, the video data will not be zoomed. If a video is opened after the Zoom Window is open, the video data will be zoomed if this option is set.
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Using Zoom Options

Showing the Zoom Window

Click **Show Zoom Window** to open a Zoom Window that can display a magnification of a selected area of your screen using the zoom style you have selected on the Zoom page — i.e., “Magnifying Glass,” “Centered on Cursor,” or “Fixed Frame”.

- When a Zoom window is open, this button changes to **Hide Zoom Window**. Clicking **Hide Zoom Window** closes the Zoom window.
- Using the Zoom Window, you can change zoom levels, the update rate of the zoomed data, and even toggle the window on or off with a hot key.

Zoom Window Menus

The following topics are discussed in this section:

- “Zoom Level” on page 167
- “Zoom Refresh” on page 168
- “Zoom Style” on page 169
- “Using Cursor Style Zoom” on page 169
- “Using Magnifying Glass Style Zoom” on page 171
- “Using Fixed Frame Zoom” on page 173

Zoom Level

Zoom Level can be set from 1x to 10x (Figure 11.3).

**Note:** You can also change zoom levels with the mouse wheel by itself or in combination with the **Ctrl** and/or **Shift** keys if you selected this option in the Zoom page.
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Using Zoom Options

Figure 11.3 Zoom Level Menu

Zoom Refresh

Zoom Refresh can be set from 5 frames/second to 30 frames/seconds, in increments of 5 (Figure 11.4).

Note: Higher refresh rates require more processing power.

Figure 11.4 Zoom Refresh Menu
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Using Zoom Options

Zoom Style

Zoom Style can be set to any one of the following settings as shown in Figure 11.1 and Figure 11.5.

• Centered on cursor
• Magnifying glass
• Frame Window

Figure 11.5 Zoom Style Menu

Using Cursor Style Zoom

1 To use the Cursor style zoom, move your mouse cursor to the area of your screen (or open application) that you want to zoom.

2 You will see the area magnified in the zoom window, as shown in Figure 11.6.
Figure 11.6 Cursor Style Zoomed Area in Zoom Window (1)

Another cursor style zoom window is shown in Figure 11.7 below.

Figure 11.7 Cursor Style Zoomed Area in Zoom Window (2)
Using Magnifying Glass Style Zoom

1 Enable **Magnifying glass** zoom style either from the Zoom page (shown in Figure 11.1) or (if you already have the zoom window open) from the Zoom menu (Figure 11.5).

2 If you enabled the option from the Zoom page, when you click the **Show Zoom Window** option from the Zoom page with the **Magnifying glass** option enabled (checked), the magnifying glass style zoom window appears with a white square inside the window (Figure 11.8).

**Figure 11.8** Magnifying Glass Style Zoom Window

To use the Magnifying Glass style zoom, follow these steps:

1 Adjust the zoom level to increase or decrease the size of the white square. To adjust the zoom level you can either use the mouse wheel (or the mouse wheel and the **Ctrl/Shift** key options) or the Zoom Level menu options on the Zoom Window.

2 Click on the title bar of the Zoom window and drag the zoom window over the area on the screen that you want to magnify so that the transparent white square encompasses the area to magnify. Figure 11.9 shows an example of the magnifying glass style zoom window covering an area of an open window. Note the white box surrounding the display area.

3 Release the mouse option. The section of the screen inside the transparent white square now becomes magnified to fill the entire zoom window. Figure 11.10 shows the result of a magnifying glass zoom.
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Figure 11.9 Magnifying Glass Style Zoom Window Over Zoom Area
Using Fixed Frame Zoom

When you select the Fixed frame check box and click the Show Zoom Window option, the Zoom Window opens along with a second, smaller “zoom source” window labeled “Zoom Window - Fixed Frame”, as shown in Figure 11.13. You can
then use this “Fixed Frame” window to magnify a fixed area of your desktop inside the Zoom Window.

1 Select the **Fixed frame** check box and click **Apply**.

2 Click **Show Zoom Window** to display the Zoom Window. Notice that the fixed frame window (titled **Show Window - Fixed Frame**) appears inside the Zoom Window (Figure 11.13).

**Figure 11.12** Zoom Window - Fixed Frame Window

Large Zoom Window showing magnification of the image in the “Zoom Window - Fixed Frame” “zoom source” window shown on the right.

3 To magnify an area of your desktop, move this fixed frame window outside the Zoom Window to an area of your desktop that you want to magnify. The magnified area then appears in the Zoom Window.

4 To magnify another area of your desktop, click the **Fixed Frame** menu from the Zoom Window to redisplay the fixed frame window and move the fixed frame window the desktop area you want to magnify.

5 Repeat step 4 for each new desktop area you want to magnify using the fixed frame style.
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6 Move the small "Zoom Window – Fixed Frame" window (labeled in Figure 11.13) to another area of the desktop that you want to zoom.

Note: Now that you have adjusted the position of the Zoom Window - Fixed Frame “zoom source” window, it is automatically hidden while the magnified contents are displayed in the large Zoom Windows, as shown in Figure 11.14.

Figure 11.13 Zoom Window-Fixed Frame Window

Large Zoom Window showing magnification of the image in the “Zoom Window - Fixed Frame” “zoom source” window shown on the right. “Zoom source” Zoom Window - Fixed Frame window can be moved to different areas on your desktop.

7 To toggle the Zoom Window - Fixed Frame “zoom source” window on and off (display or hide), click the Fixed Frame menu option on the main Zoom Window, as shown in Figure 11.14.

When the Zoom Window is not active, the “zoom source” window will be hidden but the area where it was last dropped will continue to be zoomed and shown in the Zoom Window.

1 To re-display the Zoom Window - Fixed Frame window, click the Fixed Frame menu option in the main Zoom Window.

2 Then move the now visible Zoom Window - Fixed Frame window to the new area of the desktop you want to zoom.”
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Figure 11.14 Magnified Area in Zoom Window: Zoom Window

Click the Fixed Frame menu to re-display (unhide) the “zoom source” Zoom Window-Fixed Frame window.

8 To adjust the zoom level, use either the mouse wheel or the mouse wheel and the Ctrl/Shift key options or the Zoom Level menu options on the main Zoom Window.

Note: You can adjust the zoom level to increase or decrease the size of the Zoom Window – Fixed Frame. In other words, the higher the Zoom Level you set, the smaller the size of the Zoom Window – Fixed Frame becomes.

Note: You can also adjust the zoomed area by resizing the main Zoom Window.

Full Screen Video Zoom

Note: You cannot use Full Screen Video Zoom if you have only one display device connected, i.e., your nView display mode setting is “single-display” on the nView Display Settings page.

To display full-screen video on one of your display devices,

1 Click the Full Screen Video Zoom option to open the NVIDIA display properties Full Screen Video page.

2 Click the Full screen device list.
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3 Select **Auto-select** if the nView Modes list on the nView Display Settings page is set to nView Dualview or one of the Span modes.

4 Select **Primary display** or **Secondary display** if the nView Mode list on the nView Display Settings page set to nView Clone mode.

For further details on using the Full Screen Video options, refer to the *NVIDIA Display Properties Desktop User’s Guide: Driver Release 50.*

**QuickZoom Hot Key**

From the Zoom page, click the **QuickZoom Hot Key** option to open the Hot Keys Properties dialog box (Figure 11.15) where you can configure the following **QuickZoom style** settings.

**Figure 11.15** Hot Key Properties for the QuickZoom Hot Key Option

- **Current grid** lets you zoom the display to show the grid where your mouse cursor is located. If there are no grids set, then the display where your mouse cursor is located is shown.
• **Centered on cursor** lets you zoom the display around the mouse cursor.

• **Use the mouse wheel**…. If you want to quickly zoom in and out of your entire desktop by pressing a Shift or Ctrl key together with your mouse wheel, select this check box and then select *either* the Shift or the Ctrl check box.

Be sure to click **Apply** for the changes to take effect.
The following topics are discussed in this chapter:

- “About Hot Key Options” on page 179
- “Accessing the Hot Keys Page” on page 180
- “Selecting an Action” on page 181
- “Adding a Hot Key” on page 186
- “Removing a Hot Key” on page 189
- “Removing All Hot Keys” on page 189
- “Active Hot Keys List” on page 189

About Hot Key Options

The Hot Key features can be used by both single-display and multi-display users.

nView Desktop Manager lets you set up hot keys (shortcut keys or key combinations) to access and perform virtually every action of the Desktop Manager. The key benefits of using hot keys is quick access to common functions with a single keystroke.

Using the Hot Keys features (Figure 12.1), you can

- View a list of hot keys that you have defined for your system.
- Arranged hot keys in a tree view
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Using Hot Keys

- Quickly add, remove, or edit defined hot keys
- Assign multiple hot keys to one action but cannot assign multiple actions to one hot key
- Copy assigned hot keys to the clipboard —
- Change the functionality of a hot key from operating on the active window to operating on the window under the cursor

Accessing the Hot Keys Page

1. If you need help accessing the nView Desktop Manager control panel, see “Enabling and Accessing the nView Desktop Manager Control Panel” on page 41.

2. Click the Hot Keys tab or menu option to display the nView Desktop Manager Hot Keys page (Figure 12.1).

Figure 12.1 Hot Keys Page
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Selecting an Action

The Select an Action list box (Figure 12.1) displays a list of actions that can be performed when you press a key or combination of keys, i.e., assigned hot keys for the actions.

1. Select an action by clicking it.
2. Use the scroll bar to access the complete list of actions.
   The actions and their descriptions are listed below.
3. Go to the section “Adding a Hot Key” on page 186 to assign the hot key to the selected action.

Windows and Applications Actions

- **Move window to display** — moves the active window to a user-specified display.
- **Move window to next display** — moves the window to the next monitor on your system.
- **Move window to desktop** — moves the active window to a user-specified desktop.
- **Max/Restore window** — toggles a Windows maximize/restore function for the current window.
- **NVMax/Restore window** — toggles an nView maximize/restore function maximize/restore function for the current window. This functionality is explained in
- **Minimize/Restore window** — minimizes a window to the taskbar and restore if the window still selected.
- **Collapse/Restore window** — toggles between collapsing the application window to its title bar and restoring the window to its former size.
- **Toggle window Z-order** — moves the window to the top if it is not at the top. Moves window all the way to back if it is on top, but it does not change activation state of window.
- **Toggle transparency** — toggles the active window between being transparent and opaque.
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- **Toggle always on top** — toggles the active window between being always on top or not being on top.
- **Toggle show all desktops** — forces the window to appear on all desktops.
- **Toggle show on all desktops** toggles the active window between showing on all desktops or on a single desktop.
- **Collapse to desktop** — causes the active window to appear on only the current desktop and turns off the “Show on all desktops” functionality.
- **Show nView options menu** — displays the nView options menu for the currently active window.

**Desktop Management Actions**

- **Show desktop name** — brings up the desktop name of the current desktop.
- **Activate desktop...** — switches the display to a user-specified desktop.
  
  After you enter the keystroke in the text box and click **Add**, a list box appears with all possible desktop targets. Choose a desktop that you will activate or “switch to” with the hot key you assigned.
- **Next desktop** — switches the display to the next desktop.
- **Previous desktop** — switches the display to the previous desktop.

**Window Management Actions**

- **Send all windows to display** — Gathers all windows on the desktop and cascades them on the selected display device.
- **Toggle color-keyed windows** — lets you easily control color-keyed windows so that a window can be immediately accessible with a single keystroke no matter where on the desktop(s) the window is located.

  **Note:** This option is available only when using a graphics card based on one of the NVIDIA Quadro-based GPUs.

  After you define a hot key corresponding to a color (for details, see “Examples of Actions Requiring Additional Information” on page 187), then when you press this hot key, it will toggle the corresponding color-keyed window to be brought to the forefront, maximized, and visible on all desktops.

  Press the hot key again and the window will be sent back to its original position.
- **Collapse all windows** — collapses all windows on the desktop to their title bars. If all windows are already collapsed, this action restores all windows to original size.
Display Mode Actions

- **Switch to next display device** — is functional only in single-display mode when more than one display device is connected. In this case, your video display will switch to the next device.
  
  **Note:** Note that this hot key only works when your display card is running in single-display mode.

- **Toggle TV output** — toggles TV output on if TV is connected and you are running in nView single-display mode.

- **Toggle LCD scaling** — turns LCD scaling on/off if you are using a flat panel display.

- **Toggle Clone mode** — When running in nView single-display mode, this action will toggle Clone mode on and off and will cycle through display devices.
  
  **Note:** This hot key is only available with Windows XP and only works when you are in single-display or nView Clone mode.

- **Rotate display** — allows you to rotate display devices or desktops with a hot key to the same modes available on the NVIDIA display properties NVRotate page:
  
  - Landscape
  - Portrait
  - Inverted Landscape
  - Inverted Portrait

Display Settings Actions

- **Show display scheme menu** — shows the Display Scheme Configuration menu (Figure 12.2) that you can use to add, delete, and configure schemes.
  
  - To add a display scheme to the menu on the left, press the **Ins** (Insert) key.
  - To delete a display scheme from the menu on the left, press the **Del** (Delete) key and select an item from the list on right side of the **Display Scheme Configuration** dialog box.
  
  - You can also rearrange the order of the menu by dragging and dropping menu items.
  - The order of display schemes on the menu list also depends on the frequency with which the display schemes are applied.
This frequency has higher priority than the order in which you may have configured through drag and drop.

For example, let’s say that you have created display scheme 1 (DS1) through display scheme 5 (DS5) on the menu list in the order of 1 through 5, initially. Then display scheme 2 (DS2) was applied twice, display scheme 1 (DS1) was only applied once, and the remaining display schemes were not applied at all. In this case, when the menu is next opened, DS2 will be the first item on the list and DS1 will be the second on the list. So, for example, if you now drag and drop the items to the following order: DS2, DS3, DS1, DS5, DS4, the menu list will appear as DS2, DS3, DS1, DS5, DS4 — reverting to the frequency with which the display schemes have been applied instead of the user configured order.

When the list has more than six items, scroll button(s) are available. The list scrolls when the mouse is over the scroll button.

When you cursor over the menu items on the left, the description of the display schemes appear on right side of the menu within the white background.

The “close window” option is designated by the X icon in the bottom right corner of the Display Scheme Configuration dialog box. You can also exit the menu by pressing the Escape key or by clicking anywhere on the screen.
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• The Help option is designated by the ? icon in the bottom right corner of the Display Scheme Configuration dialog box. Click ? to display Help text.

• **Toggle NVKeystone mode** — toggles the NVKeystone mode between off, on, and adjust.

  Note: NVKeystone must be enabled (checked) on the Tools page for this hot key to have any effect.

• **Show display grid** — shows the display grid for the monitor where the cursor is located.

• **Edit display grid** — lets you edit the monitor grid which the cursor is on.

• **Adjust display brightness** — lets you adjust the display brightness of the monitor where your cursor appears.

• **Adjust display contrast** — lets you adjust the display contrast of the monitor where your cursor appears.

• **Adjust display gamma** — lets you adjust the display gamma of the monitor where your cursor appears.

• **Reset gamma, brightness, contrast to default** — resets gamma, brightness, and contrast values to their default.

### Miscellaneous Actions

• **Open nView Desktop Manager control panel** — opens the nView Desktop Manager control panel

• **Run application...** — runs a user-specified application. Note that after selection, a browse file dialog appears where you can select the program file you want to run.

• **Locate cursor** — highlights the area around the cursor allowing it to be located on the desktop.

• **Toggle zoom window** — shows and hides the zoom window.

• **Toggle zoom type** — toggles the zoom window between different types

• **Load profile** — loads a saved profile.

• **Save profile** — saves the current or newly created profile.

• **nView task switcher: Toggle desktop applications** — lets you switch between applications on the currently selected desktop. (The default hot key is Alt-Tab.)

• **nView task switcher: Toggle all applications** — lets you switch between applications on all of your desktops.

• **nView task switcher: Toggle desktops** — lets you switch between desktops.
• **Save workspace state** — lets you save the current display, desktop management, and open application states.

• **Restore workspace state** — lets you restore a saved workspace state, including the display, desktop management, and open application states.

• **Toggle nView toolbar** — lets you toggle the nView toolbar on and off.

## Adding a Hot Key

**Note:** Only one action can be linked to a hot key. (If you attempt to add an action to a hot key that is already defined, an error message appears.) However, more than one Hot Key can be assigned to the same action.

To add a hot key, follow these steps:

1. From the Hot Keys page, click **Add**. A Hot Keys Add properties dialog box appears (Figure 12.3 shows two examples) that lets you set the “hot key” keystroke and set any additional information the hot key needs to operate.

**Figure 12.3** Hot Keys Properties Dialog Box Examples

- **Hot key stroke:** This text box lets you select the key or combination of keys you want to use to perform the selected action.
To use the text box, follow these steps:

1. Click in the **Hot Key stroke** text box to display your cursor.
2. Press the key or keys you want to use for the selection action. For example, if you press the **Ctrl** key followed by the **G** key, **Ctrl + G** appears in the text box.

   **Properties:** Hot keys for certain actions require *additional information* to be entered in order to operate.

   When these types of hot keys require additional information, the information is requested in this “Properties” dialog box. The information requested can be a display, desktop, profile, or an application designation. In the first three cases, a list of numbered display devices, named desktops, or named profiles appear from which you can select your choice.

   If Desktop Manager requires an application input (e.g., for the “Run application” hot key action listed in “Selecting an Action” on page 181), a **Browse** button appears allowing you to browse for the application.

   Also see “Examples of Actions Requiring Additional Information” on page 187.

2. Click **OK** when you’ve entered the key strokes., the selected hot key action and keystroke combination are added to the Active Hot Keys list. Once a hot key is added, it is active and available for use.

**Examples of Actions Requiring Additional Information**

**Move window to display...**

An example of an action requiring addition information is the **Move window to display...** action. Before you can add a hot key for this action, you must use the Hot Keys Properties dialog box (Figure 12.5) to enter the monitor (display device) on which you want the hot key to move windows
Figure 12.4 Hot Keys Properties for “Move window to display.” Action

![Hot Key Properties dialog box]

Toggle Color-Keyed Window

Another example of an action requiring addition information is “Show color-keyed window” available in the Display Settings category of actions. Before you can add a hot key for this action, you must use the Hot Keys Properties dialog box to enter additional information.

To assign this action to a hot key, follow these steps:

1. Confirm that the “Enable window color keying” option is enabled on the Effects page but the “Automatically assign colors to windows” option is disabled (unchecked). For details, see “Enabling Window Color Keying” on page 157.

2. Set up a color for a particular application in the Individual Application Settings dialog box.

3. Then, set up the “Show Color-Keyed window” hot key for the corresponding color by following these steps:
   1. Double-click the Color Key number shown in the Properties dialog box for the hot key (Figure 12.5).
   2. Edit the color as explained in “Using the Color Key table” on page 158 in Chapter 8.
   3. Click Apply to add the hot key for this action.
When the application is open and you press the assigned hot key, the application becomes “Visible on all desktops” so that you can see it on the active desktop (even if it is not on the active desktop) and is maximized.

**Figure 12.5 Hot Key Properties — “Toggle Color-Keyed Window” Action**

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**Removing a Hot Key**

The Remove option removes the selected hot key from the Active Hot Keys list. Once a hot key is removed, it is no longer active or available for use.

---

**Removing All Hot Keys**

The Remove All option removes all hot keys from the Active Hot Keys list. Once the hot keys are removed, they are no longer active or available for use.

---

**Active Hot Keys List**
The Active Hot Keys list box displays a list of hot keys that have been assigned and are currently active. Figure 12.6 shows parts of an Active Hot Keys list.

The Active Hot Keys list box displays the hot key itself (for example, Ctrl + G), the hot key action (for example, “Gather all windows to Mon1”), and then any further information for that hot key, such as Properties and Application Name information, if applicable.

**Note:** Use the scroll bar at the bottom of this list box to scroll to the right to see all the information columns for a hot key.

**Figure 12.6** Active Hot Keys List
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Configuring Mouse Effects

Chapter 13
Configuring Mouse Effects

This chapter discusses the following major topics:

- “About Mouse Effects” on page 191
- “Accessing the Mouse Page” on page 192
- “General Settings” on page 192
- “Kinematics” on page 194

About Mouse Effects

Mouse features include the following:

- **Throw window** – allows you to use your mouse to “throw” a window to a screen edge. Sensitivity can be adjusted by the slider.
- **Jump dead screen areas** allows you to use your mouse to jump dead areas in non-rectangular multi-display environments (mouse has to be moving at a reasonable velocity).
- **Toggle window z-order with middle mouse button** performs the same function as the hot key, but with the mouse and to the window that is under your mouse pointer.
- **Auto-activate windows under the cursor** allows any window on which your cursor appears to become active and move to the front of the window order.
- **Assign mouse movements** to trigger different actions.
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Configuring Mouse Effects

Accessing the Mouse Page

1. If you need help accessing the nView Desktop Manager control panel, see “Enabling and Accessing the nView Desktop Manager Control Panel” on page 41.

2. Click the Mouse tab or menu option to display the nView Desktop Manager Mouse page (Figure 13.1).

Figure 13.1 Mouse Page 1

General Settings

Note: Be sure to click Apply after enabling any of the below settings.
Enable Throw Window Actions

If you want to use your mouse to throw windows (for example, while dragging a window with your mouse, release the mouse) to screen edges, select the Enable throw window action check box.

Jump Dead Screen Areas

If you want to use your mouse to jump dead areas in non-rectangular multi-display environments, select the Jump dead screen areas check box.

Note: In order to jump dead areas, you must be moving your mouse at a reasonable speed.

Toggle Window Z-Order with Middle Mouse Button

The z-order of a window indicates the window’s position in a stack of overlapping windows. This window stack is oriented along an imaginary z-axis, extending outward from the screen. The window at the top of the z-order overlaps all other windows. The window at the bottom of the z-order is overlapped by all other windows.

When an application creates a window, the system puts it at the top of the z-order for windows of the same type.

You change the z-order by activating a different window. The system positions the active window at the top of the z-order for windows of the same type. When a window comes to the top of z-order, so does its child windows.

After selecting the Toggle window Z-order with middle mouse button check box, you can use your middle mouse button (if applicable) to toggle the z-order of the application window that is under your cursor.

Automatically Activating the Window Under Your Cursor

To make any window that is under your cursor to become active and move to the front of the window order, select the check box Automatically activate window under cursor.
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Configuring Mouse Effects

Change Window Z-order When Activating

If you selected the **Automatically activate window under cursor** check box, you can also select the **Change window z-order when activating** check box to control whether the window that is auto-activated is brought to the front of the z-order.

Kinematics

Enable Mouse Gestures

In order to use any of the Kinematic options on this Mouse page, you must first select the **Enable mouse gestures** check box and click **Apply**.

Gesture Sensitivity

Require Shift Key to be Held Down

If you want to hold down the **Shift** key while performing any of the mouse gestures listed on this Mouse page, select the **Require Shift key to be held down** check box.

Operate on Window Under Cursor

If you want to perform any of the mouse gestures on the window that appears under you cursor instead of the active window, select the **Operate on window under cursor** check box.

Shake Mouse Horizontally

1 To assign an action to the **Shake mouse horizontally** option, click the list and select the action you want to assign.

2 Click **Apply**.

3 Shake the mouse horizontally to automatically perform, the action you just assigned.
Chapter 13
Configuring Mouse Effects

Shake Mouse Vertically

1. To assign an action to the Shake mouse vertically option, click the list and select the action you want to assign.
2. Click Apply.
3. Shake the mouse vertically to automatically perform the action you just assigned.

Rotate Mouse Clockwise

1. To assign an action to the Rotate mouse clockwise option, click the list and select the action you want to assign.
2. Click Apply.
3. Rotate the mouse clockwise to automatically perform the action you just assigned.
This chapter contains the following major sections:

- “About Tools Options” on page 196
- “Accessing the Tools Page” on page 196
- “About NVKeystone” on page 197
- “Display Calibration” on page 202
- “Windows Utilities” on page 202

About Tools Options

The nView Desktop Manager Tools page offers several miscellaneous tools that can help you be more productive. Included features are NVKeystone to correct for display keystoning, a flat panel calibration screen used to optimize the calibration of your analog flat panels, and several windows utilities that can automatically correct for improper display settings when they occur.

Accessing the Tools Page

1 If you need help accessing the nView Desktop Manager control panel, see “Enabling and Accessing the nView Desktop Manager Control Panel” on page 41.
2 Click the **Tools** tab or menu option to display the nView Desktop Manager **Tools** page (Figure 14.1).

### Figure 14.1 Tools Page

![nView Desktop Manager Tools Page](image)

**About NVKeystone**

The NVKeystone options (Figure 14.1) allow you to place your 2D windows desktop onto a 3D surface, which you can then manipulate to compensate for image distortion caused by poor alignment of projection screens.

NVKeystone is an anti-keystoning tool that allows you to map your entire windows desktop onto a 3D surface and then manipulate and “warp” the surface to compensate for distortion effects of any surface on which you are displaying.
Because NVKeystone is a 3D application that operates on the entire desktop, it takes a great amount of bandwidth to operate. You may notice that your display is sluggish or that 3D games run very slowly when NVKeystone is active.

It is recommended that you disable NVKeystone when you are playing games or using a 3D program.

Enable NVKeystone Display Correction

Click this check box to toggle enabling/disabling the anti-keystone feature.

Note: If this option is disabled, NVKeystone menus and hot keys will not work.

Enabling NVKeystone Option in Desktop Menu

Click the Enable NVKeystone Option in Desktop Menu check box to add an NVKeystone menu option in your desktop right-click menu (Figure 14.2) for easy access to NVKeystone.

Figure 14.2 NVKeystone Option in Windows Desktop Menu

Note: If you do not select this check box, the NVKeystone option will not be placed in the desktop right-click menu. In this case, the only way to turn NVKeystone on/off is by using a “hot key” assignment. See “Display Settings Actions” on page 183.
Accessing NVKeystone

You can access NVKeystone using one of two methods:

- If you have selected the Enable NVKeystone...check box as explained in Enabling NVKeystone Option in Desktop Menu in the previous section, then right-click on your desktop to open your Windows desktop menu and click NVKeystone (Figure 14.2).
- Use a hot key assignment. See “Display Settings Actions” on page 183.

Note: Using the “hot key” method is similar to the desktop menu method but only the hot key method can rotate between three different modes – Off, On, and Adjust.

NVKeystone Menu

The NVKeystone menu (Figure 14.2) contains four options – Activate, Adjust, Options, and Reset.

- **Activate** turns NVKeystone on and off.
- **Adjust** displays the NVKeystone Adjustment Screen. See NVKeystone Adjustment Screen in the next section for details.
- **Options** displays the NVKeystone Options dialog box. See “NVKeystone Options” on page 200 for details.
- **Reset** resets NVKeystone to its default settings; that is, “warping” is disabled.

NVKeystone Adjustment Screen

The “Adjustment Screen” (Figure 14.3) lets you adjust the warping of the display.

You can grab each of the red “hot spots” on the screen with the mouse and then drag it to warp the display. In addition, you can use your arrow keys to perform fine adjustments of the corner that you are currently grabbing with your mouse.

Note: Four options are available within the Adjustment Screen: OK, Cancel, Reset and Options.

- **OK** lets you exit the Adjustment Screen after automatically saving the adjustments you have made.
- **Cancel** lets you exit the Adjustment Screen and discards any adjustments you have made. Note that your screen then reverts to its state before you opened the Adjustment Screen.
- **Reset** resets your screen to *default* settings; i.e., no warping of the display.
- **Options** displays the NVKeystone Options dialog box. See “NVKeystone Options” on page 200 for details.

**NVKeystone Options**

From your desktop, right click your mouse to display the properties menu, then click **NVKeystone > Options** to display the NVKeystone options menu. The following options can be set:

**Figure 14.3** NVKeystone Adjustment Screen
• **Enable video overlay while NVKeystone is running** allows video to play back correctly when NVKeystone is active.

  **Note:** It is recommended that this option remain enabled (checked).

• **Automatically turn NVKeystone off if disabled for more than 30 seconds** automatically turns off NVKeystone and unloads it from memory if it is unused for more than 30 seconds.

  When NVKeystone is not active (i.e., the “Activate” option is not checked in the NVKeystone menu), NVKeystone is still present in your computer's memory, however. This allows you to quickly turn on NVKeystone again, if needed.

**Figure 14.4 NVKeystone Options**

![NVKeystone Options](image)

• Select the **Disable hardware video overlay while NVKeystone is running** check box to disable hardware video overlay on applications while NVKeystone is running.

  **Note:** This feature affects applications started after NVKeystone is active.

• Select the **Use sticky mouse clicks when editing** check box to enable “sticky” mouse clicks for the NVKeystone Adjustment Screen.

  **Note:** “Sticky” mouse click means that you can click your mouse once to grab a corner of the Adjustment Screen and then click again to release a corner instead of having to hold down the mouse button.

• **Apply NVKeystone to monitor** ...lets you to change the display device on which NVKeystone appears.

  **Note:** If you are running in nView Span or Clone mode, both displays will have NVKeystone applied. However, if you are running in Dualview mode, you will have the option to choose a display for NVKeystone.
• **Change NVKeystone modes with…** lets you change or assign a hot key to toggle the keystone mode between off, on, and adjust.

  **Note:** You can perform the same hot key assignment from the Desktop Properties Hot Keys tab. See “Using Hot Keys” on page 179.

### Display Calibration

You can display a calibration screen to use when “auto-adjusting” your flat panel displays.

**Note:** This calibration screen is not needed if you use analog display monitors (CRTs).

1. Click **Calibration Screen** from the Tools Page (Figure 14.1).

   Each of your display screens will now display the nView calibration screen. This calibration screen has been designed to optimize calibration of analog flat panels when using auto-calibrate (or auto-synchronization) features available on most flat panels.

2. For each analog flat panel, select its **auto-calibrate** or **auto-synchronization** function.

   **Note:** This function varies for each flat panel manufacturer.

3. After auto-synchronizing each flat panel, press any key to close the flat panel calibration screens.

   Your display flat panels should now be calibrated to their optimum settings.

### Windows Utilities

• **Align displays.** Select this check box if you want nView Desktop Manager to automatically align your displays and remove small pixel gaps when you change your display mode.

• **Move to display.** Click **Move to display** to move your Windows icons and taskbar to a display you specify.
This chapter contains the following major sections:
- “Accessing the Applications Page” on page 203
- “About the Applications Features” on page 204
- “Adding an Application” on page 206
- “Removing an Application” on page 207
- “Globally Disable Individual Settings and Window Memory” on page 208
- “About Windows Classes” on page 208
- “Adding a Window Class” on page 209
- “Disabling an nView Desktop Manager Function” on page 210
- “Individual Settings” on page 211
- “Application Enhancements” on page 212

**Accessing the Applications Page**

1 If you need help accessing the nView Desktop Manager control panel, see “Enabling and Accessing the nView Desktop Manager Control Panel” on page 41.
2 Click the Applications tab or menu option to display the nView Desktop Manager Applications page (Figure 15.2).

**Figure 15.1 Applications Page**

About the Applications Features

nView Desktop Manager can be customized to function differently for each application. You can set up some applications to maximize to the full desktop while you can set up others to maximize to a single display.

You can also configure how an application launches. For example, you can choose a Windows application such as Calculator to always launch transparently while have Internet Explorer always launch on a specific desktop.

The nView Desktop Manager Applications page provides a central spot where you can set up and edit these individual application settings. The Applications page also
allows you to disable nView Desktop Manager functions for each application. While NVIDIA tests hundreds of applications for compatibility, there may be certain third-party applications that are not compatible with certain features, such as Transparency or the nView Desktop Manager menu options. Using the Applications page, you can disable these features for applications that are not compatible with these features.

In addition to distinguishing between different applications, nView Desktop Manager can also distinguish between different window classes.

The Applications page (Figure 15.1) displays a list of applications and window classes that have been added and then set up for Individual Settings and/or to have nView Desktop Manager functions disabled for it.

Each line in the list box contains a few elements. The name of the application or class is listed along with an icon to the left.

- If there is a green check mark on the icon, this means the application has Individual Settings.
- If there is a yellow ! on the icon, this means that some nView Desktop Manager functions are disabled.
- If there is a bold red X on the icon, this means that all nView Desktop Manager functions are disabled for that application or class.

For example, the list in Figure 15.1 shows the following:

- The *CicMarshalWndClass* has all nView functions disabled.
- The *Notepad* application has no special settings.
- The *Regedit* application has some nView functions disabled.
- *My Window Class* has no special settings.
- The *Explorer* application has Individual Settings.

**Note:** When you add a class or an application to the list box, you still have not set any special settings for it. In this case, the icon (for the class or application) will be blank as in the Notepad application or My Window Class as shown in Figure 15.1. If you close the Applications page now and then re-open it, these two list elements will be removed because they had no special settings applied to them.

**Note:** In the section titled Selected application’s settings, a text description of the selected item in the list is also provided. For the “Wordpad” application example, the text box correctly states that wordpad has no Individual Settings but that some nView Desktop Manager functions are disabled for it.
Adding an Application

Use the Add option to add an application to the individually managed list box on the Applications page.

**Note:** If you do not set Individual Settings for the application, the application will be removed from the list when you close the nView Desktop Manager control panel.

1. To add an application, click Add to display a dialog box (Figure 15.2) where you can use the Find or Browse option to locate an application to add to the list box.

   **Figure 15.2 Add Application Dialog Boxes (1)**

2. If you want to use the Browse option, click Browse and locate the application executable file you want to add. Then click Open.
3 If you want to use the Find option, make sure that the application you want to add is open on your desktop. When you click the Find option, another dialog box (shown in Figure 15.2) appears.

4 Click and drag the circular Finder tool option to the title bar of the open application you want to add. Then, release the mouse button. The name of the application appears in the Application field (Figure 15.2).

5 Click OK.

Figure 15.3 Add Application Dialog Boxes (2)

Removing an Application

Click Remove to do the following:

- Remove the application or class from the list, thus removing it from being individually manage and
• Delete any Individual Settings or disabled function information for the application or class.

Globally Disable Individual Settings and Window Memory

At the bottom of the application list is a setting labeled Globally disable individual settings and window memory.

When enabled (checked), this option disables all nView Desktop Manager individual application settings throughout the system for all windows.

About Windows Classes

In rare cases, some applications may be written in such a way that either its main window or, more commonly, their child windows do not support an nView Desktop Manager feature (such as transparency) or else they do not support a user making changes to their size and/or position. In these cases, you can disable nView Desktop Manager functions only for the particular window(s) that may have support issues.

A class is simply a type of window. Often, window classes are unique to an application. For example, in nView Desktop Manager, several Window Classes are used; for example, a class called “Zoom1” for the Zoom window, a class called “Child1” for the little white square inside the Zoom window, and so on.

In addition to classes that are unique to an application, there are certain global classes of windows that are used by every application. An example is a dialog box that is a global class (the name is #32768 – class names are not always intuitive).

Note: Using class names, however, allows you to more precisely target windows for which you want to disable features.

For example, the Zoom1 window class can be set up not to support the transparency feature. Therefore, there is no need to turn off transparency for all nView Desktop Manager windows. Also, if another application uses the Zoom1 window class, the transparency rule will still operate.

When a class is selected in the list, the Individual Settings option is disabled. Classes cannot have Individual Settings enabled; they can only have nView Desktop Manager functions disabled.
**Chapter 15**  
**Managing Applications: For Advanced Users**

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**Adding a Window Class**

1. To add a class, click **Add** to display a dialog box (Figure 15.3) where you can use the **Find** option to locate a window class to add to the list box.

2. Before you use the **Find** option, make sure that the application window (main or child window) for which you want to add class information is open on your desktop. When you click the **Find** option, another dialog box (shown in Figure 15.4) appears.

3. Click and drag the circular **Finder tool** option to the title bar of the open application for which you want to add class information. Then, release the mouse button. The class name appears in the **Class** field (Figure 15.4).

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**Figure 15.4 Add Class Dialog Boxes (1)**
4 Click OK to return to the Applications page where you will now see the class listed.

**Disabling an nView Desktop Manager Function**

To disable one or more nView Desktop Manager functions for a particular application or class of windows, follow these steps:

1 From the Application page, select the application or class for which you want to disable a function.

   **Note:** If the application or class for which you want to disable the function does not appear in the list box, add it using the Add option.

2 Click Disable to display the Disable nView Functions dialog box (Figure 15.5).

**Figure 15.5** Disable nView Desktop Manager Functions

By default, all functions are enabled. You can choose to disable all functions (Enable nView Desktop Management) or just a subset of functions from the group of check boxes.

3 Click OK when you have finished selecting functions to disable.
Individual Settings

Note: You can also set up individual application settings using the nView options menu. To edit individual settings for an application, select Individual Settings > Edit on an application’s nView option menu.

1 To set individual nView Desktop Manager window management and launch settings for an application, click the application in the list to highlight it.

2 Click Individual Settings from the Applications page.

The Individual Application Settings dialog box appears (Figure 15.6).

Figure 15.6 Individual Application Settings

From this dialog box, you can set up both individual window settings as well as launch settings for the application.
For details on using this dialog box, see “Individual Applications Settings” on page 147.

### Application Enhancements

The Application Enhancements dialog box (Figure 15.7) lets you add useful features such as browser pop-up blocking and miscellaneous Internet Explorer-specific and PowerPoint-specific system menu extensions for customized application use.

Click Enhancements from the Application page to open the Application Enhancements dialog box (Figure 15.7).

### Internet Explorer Options

**Note:** You must be running Internet Explorer 6.0 (at minimum) to access the nView Desktop Manager-based Internet Explorer options.

**Figure 15.7 Application Extensions Dialog Box**
Add Internet Explorer Double Right-click and Shift-left-click Extension

When you enable this option (Figure 15.7), a new menu item labeled Create the link window on display n (Figure 15.8) on your Internet Explorer 6.0 browser, where n represents your display device.

This option allow you to open links on a new window on the display of your choice.

For example, “1” is the only choice when only one display device is connected; 1 and 2 are choices when two display devices are connected; 1, 2, and 3 are choices when three display devices are connected, and so on.

Once you set this option on a primary Internet Explorer window, as shown in the example in Figure 15.8, when you Shift-left click or double right-click any link from this primary window, the browser window for that link opens on the display device you selected with this option.

Note: If you want the links to open on a different display after already creating a “link window,” you must first close the current “link window” and then create a different link window.

Figure 15.8 Internet Explorer-Specific nView Menu Options
Add Internet Explorer Popup Preventer Extension

When you enable this option, a new menu item labeled Internet Explorer popup prevention is added to the nView options menu (Figure 15.8).

To set the Internet Explorer pop-up preventer extensions for additional sessions of your Internet Explorer window, follow these steps:

1 Select the Internet Explorer popup preventer extension check box on the Applications Enhancements dialog box (Figure 15.7).
2 Click Apply.
3 To configure additional settings, click Properties (Figure 15.7).

The Popup Prevention Settings window appears. It contains three tabs: Settings, Allow, and History. See Figure 15.9 and Figure 15.10.

Figure 15.9 Popup Prevention Settings: Settings and Allow Pages
Configure the settings in each of the pages by enabling options, etc., as you need.

Be sure to click Apply after making changes to the pages.

Click OK to return to the Application Enhancements page.

Note: These settings will now apply to any Internet Explorer session you open on your desktop.

To apply settings to the current session of Internet Explorer while the window remains open, follow these steps:

1. From the Internet Explorer window, click the application title bar to access the nView options menu.
   
   Note: If you don’t see the nView options menu, that means you haven’t yet added the nView options menu to your application title bar and/or system menus. To do so, see “Accessing nView Menu Options” on page 140.

2. Select the Internet Explorer popup preventer extension check box on the Applications Enhancements dialog box (Figure 15.7).
Again, from the Internet Explorer window, click the title bar to access the nView options menu.

Select the **Internet Explorer popup prevention** menu option and select **Edit** to open the Internet Popup Window dialog box (Figure 15.11).

Enable the settings you want and click **OK**.

When you select the **Add PowerPoint Side Show Extension** check box on the Application Enhancements dialog box (Figure 15.7), a new menu item labeled **Show slides on display n** (where n represents the display device) is added to the nView Desktop Manager options menu when you open the Microsoft PowerPoint 2000 or PowerPoint 2002 application (Figure 15.12).
**Note:** Once you select a display on which to show slides, future slide shows started from Microsoft PowerPoint will be shown on that display.
Appendix A
NVIDIA Setup Wizard Pages

APPENDIX

NVIDIA SETUP WIZARD PAGES

These sections contain the wizard pages in sequence for a few different display setups.

- “NVIDIA Display Wizard — Typical Setup” on page 219
- “NVIDIA Display Setup Wizard — Custom Setup” on page 220
- “NVIDIA Display Wizard — HDTV Component Connection” on page 222
- “NVIDIA Display Wizard — Analog Display with HDTV/DVI” on page 224
- “NVIDIA Display Wizard — Digital Display and Television” on page 226
NVIDIA Display Wizard — Typical Setup

Figure A.1  NVIDIA Display Wizard — Typical Setup

Welcome to the NVIDIA nView Multi-Display Setup Wizard

This wizard will help you enable multi-display setup.
To continue, click Next.

Setup Type
Choose the setup type that best suits your needs.

Choose whether to use typical or custom settings:

- Typical setup (recommended)
  Configures your multiple display environment quickly using the most common settings.
- Custom setup
  Allows you to customize your multiple display environment.

Click the Preview button to get a 15-second preview of the selected settings.
If changes are needed, click Back until you get the setting you want to change.
If you are happy with the preview, click Next.

Completing the nView Multi-Display Setup Wizard

When you click Finish, your new multi-display settings will be applied.

ViewSonic G5815
- Resolution: 1280 x 1024 pixels
- Color quality: Highest (32-bit)

Display 2 (DFP)
- Resolution: 1280 x 1024 pixels
- Color quality: Highest (32-bit)
NVIDIA Display Setup Wizard — Custom Setup

Figure A.2  NVIDIA Display Setup Wizard — Custom Setup Pages (1)
Figure A.3 NVIDIA Display Setup Wizard — Custom Setup Pages (2)

NVIDIA Multi-Display Setup Wizard

NVIDIA nView Display Mode
Select the display mode you wish to use.

- Dualview
- Span
- Gnome

The wizard has determined that you have Dualview mode selected. It is recommended that you use Dualview mode.

NVIDIA Multi-Display Setup Wizard

Display Appearance
Adjust your displays to look how you want them to.

Use the controls below to adjust the appearance of your computer display:

- ViewSonic GS915
  - Screen resolution: 1280 x 1024 pixels
  - Color quality: 32 bit

- Display 2 (DFP)
  - Screen resolution: 1024 x 768 pixels
  - Color quality: Highcolor (24 bit)

Completing the nView Multi-Display Setup Wizard

When you click Finish, your new multi-display settings will be applied.

- ViewSonic GS915
  - Resolution: 1280 x 1024 pixels
  - Color quality: Highcolor (32 bit)

- Display 2 (DFP)
  - Resolution: 1024 x 768 pixels
  - Color quality: Highcolor (24 bit)

Multidisplay mode
- Dualview

To close this wizard, click Finish.
NVIDIA Display Wizard — HDTV Component Connection

Welcome to the NVIDIA Display Setup Wizard

The wizard will help you enable and customize your multi-display settings.
To continue, click Next.

NVIDIA Television Setup Wizard

Connector Type
The wizard needs to know how your television is connected to your computer.

Select the type of connector you are using to connect your TV to your computer:
- S-Video
- Composite
- Component

Definition Type
Select the definition type for your HDTV.

Which definition type would you like to use for your HDTV?
- 480i (Standard)
- 480p (Enhanced)
- 576i (Standard)
- 576p (Enhanced)
- 720p (High)
- 1080i (High)
- Not sure, I would like to preview them all

Test Definition Types
Preview each of the definition types.

To begin previewing each of the definition types, click Preview.

If you need to cancel a particular preview because you cannot see it, press the ESC key.
Figure A.5 NVIDIA TV Display Wizard — HDTV Component Connection Page (2)
Appendix A  
NVIDIA Setup Wizard Pages

NVIDIA Display Wizard — Analog Display with HDTV/DVI

Figure A.6 NVIDIA Display Wizard—Analog Display with HDTV/DVI Pages (1)
Figure A.7 NVIDIA Display Wizard—Analog Display with HDTV/DVI Pages (2)
NVIDIA Display Wizard — Digital Display and Television

Figure A.8  NVIDIA Display Wizard — Digital Display with TV Pages (1)
Figure A.9  NVIDIA Display Wizard — Various Types of TV Connectors

Select the type of connector you are using to connect your TV to your computer:

- Auto-select
- S-Video
- Composite
- DVI

Select the type of connector you are using to connect your TV to your computer:

- Auto-select
- S-Video

Select the type of connector you are using to connect your TV to your computer:

- Auto-select
- S-Video
- Composite
- DVI
Figure A.10 NVIDIA Display Wizard — Digital Display with TV Pages (2)

NVIDIA Display Setup Wizard

Display Appearance
Adjust your display to look how you want them to.

Use the controls below to adjust the appearance of your computer displays:

- Screen resolution:
  - 1280 x 1024 pixels

- Color quality:
  - 32 bit

NVIDIA Display Setup Wizard

Preview
Preview your display settings.

Click the Preview button to get a 15-second preview of the selected settings.

If changes are needed, click Back until you get to the setting you want to change.
If you are happy with the preview, click Next.

Completing the nView Multi-Display Setup Wizard

When you click Finish, your new multi-display settings will be applied.

- Viewsonic VP1950
  - Resolution: 1024 x 768 pixels
  - Color quality: Highest (32 bit)
- TV
  - Connector type: Auto-select
  - Signal type: NTSC
- Multi-display mode
  - Clone

To close this wizard, click Finish.
analog display

Analog display refers to your CRT display, in general. The terms CRT and analog display may be used interchangeably in this guide.

application

An application (or program) can have any number of windows. Some applications have only a single window such as Calculator or Notepad. Other applications can have many windows such as Outlook where you can open several E-mail windows, have your Inbox open, open calendars, etc.

Desktop Manager can perform operations on applications as well as windows. In the case of applications, the operation is performed on every window that is part of that application only if the operation is enabled through the Individual Settings feature of that application.

If you run multiple copies of an application, any operation you perform on a copy of the application will apply to every copy of the application that is running.

child window

A child window refers to any “sub” window of the main or “parent” application window. For example, in the Microsoft Excel application, you can open several
worksheets at once inside the main Excel window. Each worksheet is a child window of Excel.

Control Panel (Windows)

You can access the **Windows Control Panel** window by clicking **Start > Settings > Control Panel** from the Windows desktop taskbar.

custom control panel (NVIDIA Display Properties)

The NVIDIA Display Properties “control panel” (shown in **Figure 1.2**) refers to the entire NVIDIA GPU-tabbed window, including the fly-out NVIDIA menu.

custom control panel (nView Desktop Manager)

The nView Desktop Manager “control panel” refers to the entire nView Desktop Manager properties window (shown in **Figure 1.2**) from which you configure nView Desktop Manager settings.

**Note:** nView Desktop Manager is also clickable icon in the Windows Control Panel group of icons. When you click this icon, the nView Desktop Manager “control panel” appears.

digital display

A digital display can be a digital flat panel (DFP) or, for example, a mobile (laptop or notebook) computer’s LVDS internal display panel.

desktop

Desktop is your Windows on-screen work area on which windows, icons, menus, and dialog boxes appear.

dialog box

Dialog boxes are user-input windows that contain command (buttons) and various kinds of options through which you can carry out a particular command or task. For example, in a Windows application “Save As” dialog box, you must indicate the folder to contain the document to be saved and the name of that document when saving it.
Also see the definition of “modal dialog box” and “modeless dialog box” on this page.

**dual-card configuration**

A setup where two or more display devices are connected to two NVIDIA GPU-based graphics cards installed in the computer.

**GPU**

**graphics processing unit (GPU).** NVIDIA graphics chip products are called GPUs. Supported NVIDIA GPUs are listed in Table 3.1, “Supported NVIDIA Desktop Consumer Products” and Table 3.2, “Supported NVIDIA Workstation Products”

**HDTV (High Definition Television)**

A system for transmitting a TV signal with far greater resolution than the standard National Television Committee (NTSC) standards. An HDTV set requires at least two million pixels versus a common television set of 360,000.

**keystoning (NVKeystone)**

Keystoning describes the distortion that occurs when your display is projected onto a curved surface or is projected at an oblique angle to a surface.

For example, if a projector were used to project an image on a flat wall, the projector would ideally be set up to point straight at the wall. If you then angled the projector right or left, you would see the image on the wall distort.

As a second example, if you projected your image onto a curved wall instead of a flat wall, you would also see your image distorted. This type of distortion is called “keystoning.”

The nView Desktop Manager feature called NVKeystone that can compensate for this effect. For details on using this feature, see “Using Tools Options” on page 196.

**modal dialog box**

A dialog box that puts you in the state or “mode” of being able to work only in the dialog box. You can move a modal dialog box but cannot reposition it
behind other application windows. You cannot make a modal dialog box inactive. You can only close the dialog box by clicking one of its buttons.

**modeless dialog box**

You can move a modeless dialog box, make it inactive and active again, and close it.

**multiple-graphics card configuration**

A setup where two or more display devices are connected to two (or more) NVIDIA GPU-based graphics cards in the computer.

**multi-display configuration**

A setup where two or more display devices are connected to either a multi-display NVIDIA GPU-based graphics card in the computer; or two (or more) NVIDIA GPU-based graphics cards in the computer.

**parent window**

A “parent” window refers to the “main” default launch window that you see when an application opens. For example, in the Microsoft Outlook application, the main window is your “Inbox”, since that’s the first window that launches when you open Outlook.

**single-display configuration**

A setup where only one display device is connected to the NVIDIA GPU-based graphics card in your computer.

**SLI (Scalable Link Interface)**

NVIDIA SLI multi-GPU technology takes advantage of the increased bandwidth of the PCI Express™ bus architecture to allow multiple GPUs to work together to deliver accelerated performance.

An NVIDIA SLI system consists of a PCI Express motherboard that supports two physical connectors capable of having two NVIDIA PCI Express graphics cards.
plugged into them. The two graphics cards must be joined together by the NVIDIA SLI connector.

With the appropriate graphics drivers installed, SLI mode can then be enabled or disabled. When SLI mode is disabled, you can use all the nView multi-display modes that are supported, including using up to four monitors connected to the two SLI graphics cards. When SLI mode is enabled, nView multi-display modes are not available. Instead, the two graphics cards drive a single display1 to provide accelerated 3D performance in DirectX and OpenGL applications2.

**Note:** For details, see the Application Note “Using NVIDIA SLI Graphics Cards”.

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**skin**

A file that customizes the “look and feel” of the Windows graphical user interface.

**tab**

Individual Desktop Manager “tabs” (i.e., Profiles, Effects, Windows, Hot Keys, and Desktops) are available from the nView Desktop Manager control panel.

**window**

A “window” is any independent window on your desktop. Applications such as Outlook or Explorer may have several windows, which are all part of the same application. Windows can be dragged around the screen, opened and closed, and resized. Desktop Manager allows you to do even more with windows such as make them transparent or force them always to be on top of other windows.

**window class**

(For advanced users only.)

Every type of window shown on your desktop has what is called a “window class” that describes the type of window it is. These window classes are shared between different applications. Normally, this window class information is hidden from users as there is no need to know it. nView Desktop Manager, however, allows you to perform operations on window classes as well as applications. This allows nView Desktop Manager to be set up to treat certain types or classes of windows differently. Because window classes are shared between applications, by individually
configuring a particular window class, you can modify behavior for all applications that use windows of that class.

For example, all dialog boxes have a window class of #32770. nView Desktop Manager can be set up to disable transparency for all #32770 class windows. The effect of this would be that no dialog boxes from any application would ever be transparent.

For details on using this feature, see “Managing Applications: For Advanced Users” on page 203.