With PNY and NVIDIA Quadro, VYV Delivers Immersive Video Projections that Entertain Live Audiences Worldwide

What do Miley Cyrus, Justin Timberlake, the Eagles, Shakira, and Cirque du Soleil have in common? All have amazed audiences with live shows incorporating dazzling, out-of-this-world video projections made possible by an elite 3D interactive video projection company based in Canada.

Spectators stunned by the creativity, artistry, and impact of the projections can thank VYV and its Photon interactive media server, the most powerful real-time video control system available. Powered by high-end NVIDIA® Quadro® GPUs, Photon systems deliver the accuracy, reliability, and flexibility required for VYV's elaborate multi-projector productions.

When developing its Photon interactive media server for live entertainment, VYV turned to PNY for their technical expertise to define the professional graphics technology, including NVIDIA Quadro GPUs, it needed to drive the live video feeds. PNY used its extensive knowledge of the full range of NVIDIA GPUs to determine the right solution for the VYV Photon system and provided pre- and post-support services throughout the product design process.

Miley Cyrus BANGERZ Tour 2014- High resolution videos projected on two 30-feet high inflatables.

Story of a Fort, Legacy of a Nation - forty-eight projectors with a wide variety of surfaces, drapes and curtains to project onto.

Taking Live Video Projections to New Levels

Founded originally by two University of Montreal computer science students doing masters projects on using projectors and cameras for interactive realtime 3D reconstruction, VYV has taken the live performance market by storm.

VYV uses its Quadro-powered Photon system to continually push the envelope of what's possible with live 3D projections—whether that's displaying perfectly aligned real-time video onto moving objects or people on stage for a high-profile concert tour, or using multiple projectors to display real-time animated video on the rotating, irregular surface of a car during its world-wide introduction event.

> **"Our experience with PNY has been great. They have been instrumental in helping us determine the best products for our system, and they provide us the technical support we need."**
> *- Eric Plante, general manager of VYV*

"VYV's Photon is the most advanced media server available for live events production, with unparalleled ability to dynamically map projections onto moving objects," said Anthony Bezencon, Project Engineer with Creative Technology Ltd., which used 19 Photon servers driving 48 projectors to produce Franco Dragone's groundbreaking, complex *Story of a Fort, Legacy of a Nation* live special event in Abu Dhabi.

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NVIDIA Quadro GPUs Supply Needed Performance and Reliability

VYV's flagship Photon interactive media server uses NVIDIA Quadro GPUs to provide reliable, adapted, and innovative solutions to the challenging requirements of multi-video projections for live shows.

"Our Photon interactive media servers require high-performance everything, including graphics cards," said Eric Plante, general manager of VYV. "The NVIDIA Quadro GPUs are the only way we've been able to output to multiple projectors at once with the accuracy and reliability we need. With the Quadro cards, technology is not a barrier to our creativity. We are able to 'think outside the screen' and imagine what we want to see, without constraints."

Each Photon media server includes an NVIDIA Quadro K5000 graphics board, NVIDIA CUDA™ for some real-time effects, a video input card, and Photon software running on a high-end PC, supporting 16 megapixels of uncompressed video decoded in real time and the use of various types of cameras, including infrared and industrial (prisms).

PNY worked with VYV throughout the entire Photon development process, from selection of the right NVIDIA GPU solution for the system to integration and post-sales support. PNY provided the high level of technical support and commitment required to ensure that VYV could develop its ultra-reliable solution for complex multimedia productions, and VYV continues to rely on PNY's technical expertise to keep them up-to-date on the latest NVIDIA technology—with enough lead time to incorporate new models into updated generations of its media servers.

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"Our experience with PNY has been great," said Plante. "They have been instrumental in helping us determine the best products for our system, and they provide us the technical support we need. They are knowledgeable and flexible and address our requirements with enthusiasm."

"With the heavy-duty mathematics—equations and algorithms—they use in the Photon system, the graphics card becomes crucial," said Bezencon. "It takes the professional-level Quadro cards, provided and supported by PNY, to enable the Photon to achieve that level of performance. The Quadro cards have first-class drivers, easy integration with the OS, and impeccable reliability—as proven in the hot, dusty, humid, harsh desert environment of Abu Dhabi, where we ran the *Story of a Fort, Legacy of a Nation* installation successfully for two months without a single problem. In fact, the Quadro cards actually boost the reliability of the entire Photon media server system."

- Featured Product -

NVIDIA Quadro K5000
PNY Part #: VCQK5000-PB

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