pico neo 3

Launching with major PICO system software upgrades, the Neo 3 provides users a high performance/low cost VR product for all commercial applications. Featuring the industry standard XR2 chipset, near 4K resolution, 90Hz refresh rate, hand-tracking, and industry leading 6 DoF controller and HMD tracking algorithms, Neo 3 achieves superior performance at an attractive price point.

Industry Standard XR2 platform

- **CPU & GPU:** The SnapdragonTM XR2 processor with 256GB storage and 6GB LPDDR4X RAM which provides industry standard performance and a smooth user experience.

PICO Patented Optical Positioning Algorithm

- **Minimal motion discomfort:** Neo 3 implements a custom SLAM algorithm to capture real-time spatial data which keeps the delay lower than 2ms and ground monitoring error less than 10mm. see-through mode opens automatically when the user leaves the play boundary.

- **6DoF controller positioning:** Infrared optical tracking improves accuracy, especially during low light or other sub-optimal light environments.

Signature Counter Balance Design

- **Ergonomic Design:** Neo 3 feels light and comfortable around the head with its softstrap that connects a front HMD and a rear battery pack.

- **Glasses friendly:** Neo 3 is designed to accommodate the use of glasses without any additional pressure on the face, increasing accessibility for users that require prescription glasses.

Open and Modern Development Environment

- **Application development:** Compatible with the newest version of all major development environments with PICO SDK: Unity v2.3 Unreal v2.3, OpenXR v2.2, WebXR.

- **Brand new UI design**：With the latest OS, Neo 3 provides a more friendly UI to enable users to interact with the operating system at ease, especially those with no previous VR experience.

- **Application stability:** Optimizes application compatibility, endurance performance, and improves application freezing bugs.

- **Casting upgrades:** No device limits, users can cast the PICO screen to a smartTV, browser, smartphone easily.

- **System experience:** Full Android developer setting and PICO Lab features to be able to easily customize Neo 3 to meet your requirements for any operating environment.

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  Built-in PICO Business Suite: For advanced customization, administrators can leverage the built-in Pico Business Suite to enable extra settings and configurations for system functions. Features include customizing the homescreen, enabling kiosk mode, and controlling and streaming content among multiple devices.

Security and Trust

- **Hardware and System Security:** SoC with ARM Trustzone technology and enhanced kernel security.

- **Device-side Data Security:** PICO OS supports all encryption protocols designed for Android, and provides computing and algorithm security.

- **Online Service and Data Security:** Infrastructure, data transmission and storage security enable stable online service.

- **Decided Customer Service team:** Clear policies, procedures and requirements are set up to manage upgrade patches and incident responses.

Specifications

PART NUMBER: PHS-N3-PE1018580
PHS-N3-P1018556
PHS-N3-E10288H

Computing Platform

CPU	Qualcomm Snapdragon XR2
RAM	6GB LPDDR4X, 2133MHz
ROM	256GB, UFS3.0
OS	Android 10

Display

Resolution	Almost 4K Resolution, 3664x1920, PPI : 773
Refresh Rate	72/90Hz

Optics

FOV	98°
Lens	Fresnel ,PMMA
IPD	Default: 63.5mm, three physical positions, 58mm, 63.5mm, 69mm

Others

HS code	8543709990
Dimension of the box	365mm(L) * 260mm(W)* 180mm(H)

Design

Weight	Without headstraps: 395g, total: 620g

Accessories

Controllers	6DoF * 2
Face Foam	Replaceable and washable fabric face cushion
Glasses Spacer / 2 Controllers / Lanyards / AC Adapter / USB-C / 2.0 Data Cable / User Guide	
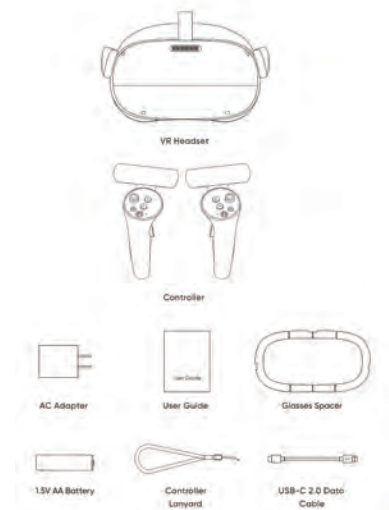
PICO Offerings & Services

Warranty

1-year warranty which includes coverage for the headset, controllers, face cushion, power adapter and USB cable.

After-sales technical support

Technical support is provided for hardware and software needs, subject to certain limitations, conditions and restrictions.

www.pny.com/pico

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