



pico neo2

Introduction



pico neo2



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Pico Neo 2 key features

1

6DoF room-scale tracking

3rd generation inside-out tracking system

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1

6DoF room-scale tracking



Qualcomm 3rd generation inside-out tracking system supports room-scale immersive movement.



Full freedom to play

The Inside-out tracking system composed of dual-stereo cameras and inertial sensor data fusion creates a fully immersive gaming and video watching experience, without any cable.

Room-scale tracking system

Provides the ability for users to move in a large room scale space.

High accuracy, low latency

Relocalization algorithm ensures the cumulative error to be less than 18cm and latency lower than 5ms.

Optimized tracking algorithm

Environmental scanning for constant spatial data update, ground plane monitoring for user height data acquisition and advance data fusion algorithm ensures 6DoF pose tracking accuracy.

1 6DoF room-scale tracking

Customized play boundary

The Play boundary can be built according to the actual surrounding area of a user.

See-through protection system

Actual surrounding shows up when users approach or across the play boundary.

Play boundary automatic recovery

System saves play boundary users create and automatically brings it back once users put on the headset.



Pico Neo 2 key features

2

360° 6DoF tracking controllers

Without any blind zone

2 360° 6DoF Tracking controllers



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Adopting 360° electro-magnetic technology in order to achieve better hand spatial positioning effect

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360° w/o blind zone

The adoption of 360° electro-magnetic technology enables the headset to keep tracking controllers without any blind zone.

Lower latency, higher accuracy

A higher refresh rate as 240Hz ensures low latency for position update and position tracking accuracy error rate below 10mm/1m.

Head & hand tracking algorithm fusion

Constantly calibrating headset and controllers position and orientation.

Propriety coil-winding technology and calibration solution in house

Strong R&D capability and superior process technologies of electro-magnetic module design, controllers production and software algorithms.

Pico Neo 2 key features

3

Ergonomic counterweight design

Easier and more comfortable wearing



3 Ergonomic counterweight design



Counterbalance

Battery in the back.

Weight 340g w/o strap

Lightweight material and compact design.

T- strap

Dividing pressure and providing
3 hours-comfort.

Rotating strap & knob type adjustment

User can easily wear and adjust the headset within 10s.

Pico Neo 2 key features

4

Wireless PC VR streaming*

Provides fully untethered 6DoF game streaming experience.

* Require VR ready PC

4 Wireless PC VR streaming

Wireless design

No base station and wire.

Mainstream GPU support

AMD* & NVIDIA are supported.

* Acquire AMD streaming application

Pico PC streaming assistant

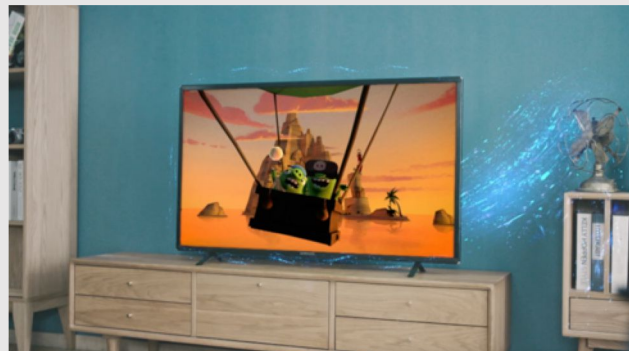
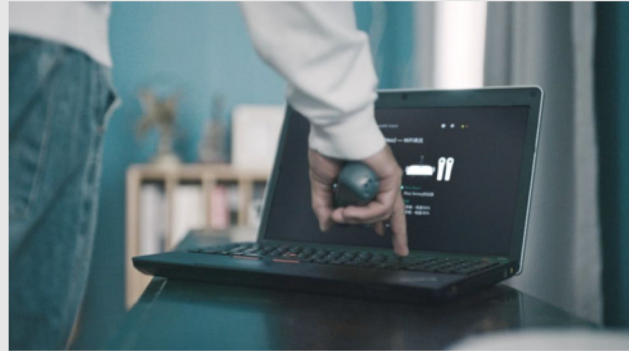
Quick setup of connecting PC to headset via PC streaming software powered by Pico.

High resolution

Optimized position and streaming algorithm.

SteamVR compatibility

Access to high quality SteamVR gaming.



Pico Neo 2 key features

5

Best-in-class hardware specs

Qualcomm flagship chipset, 4K true RGB display and high fidelity FOV

5 Best-in-class hardware specs



Qualcomm® Snapdragon™ 845 CPU

Performance improves 30%.

128GB ROM/ 4GB RAM

Plus a Micro-SD expansion slot.

4K & 101°FOV

True RGB display · Fast TFT · 818PPI · 75Hz refresh rate · Fresnel lens.

2.5h Battery life for immersive experience

4500mAH and fast charging support.

Thermal design

Active thermal design prevent the headset from over heating.

Data transfer

MIMO2 x 2 , Dual-band dual antenna.

3D audio

Build-in spatial stereo speakers.

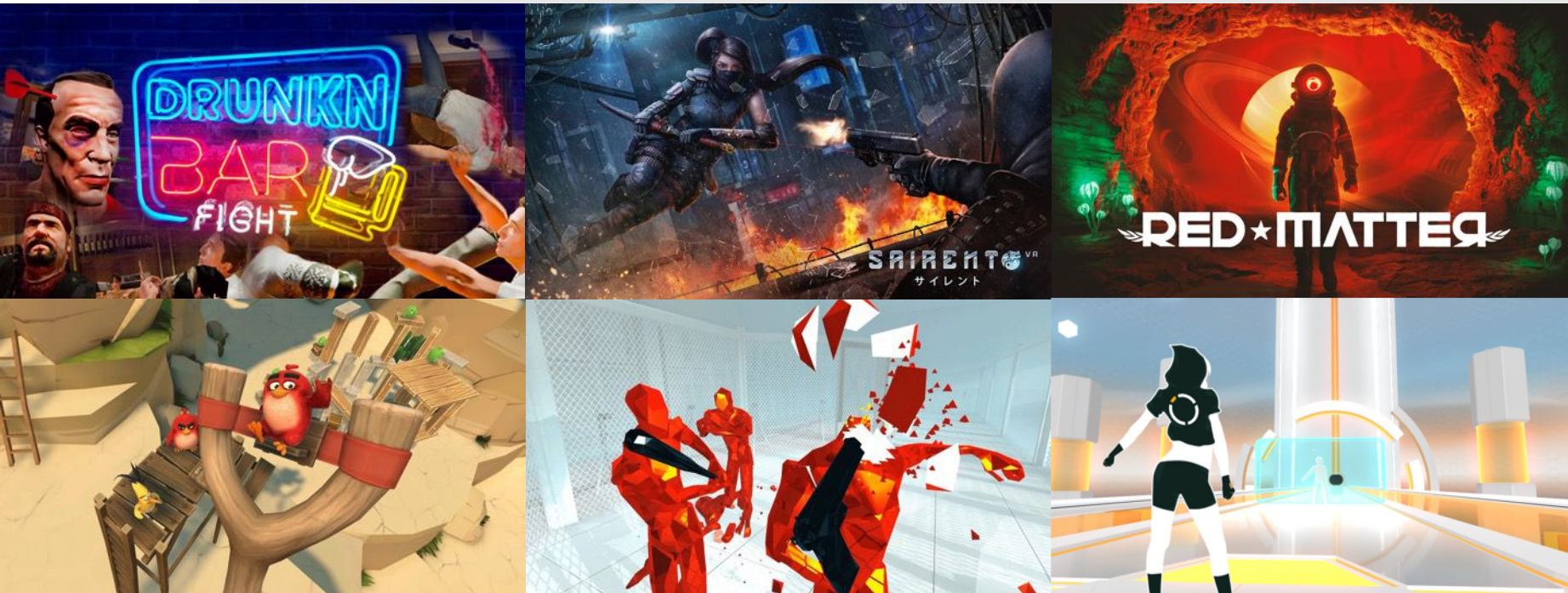
Pico Neo 2 key features

6

6DoF games
and VR browser

will be released soon

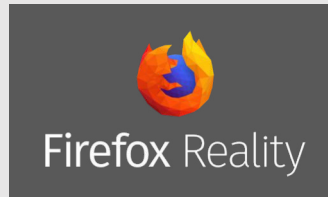
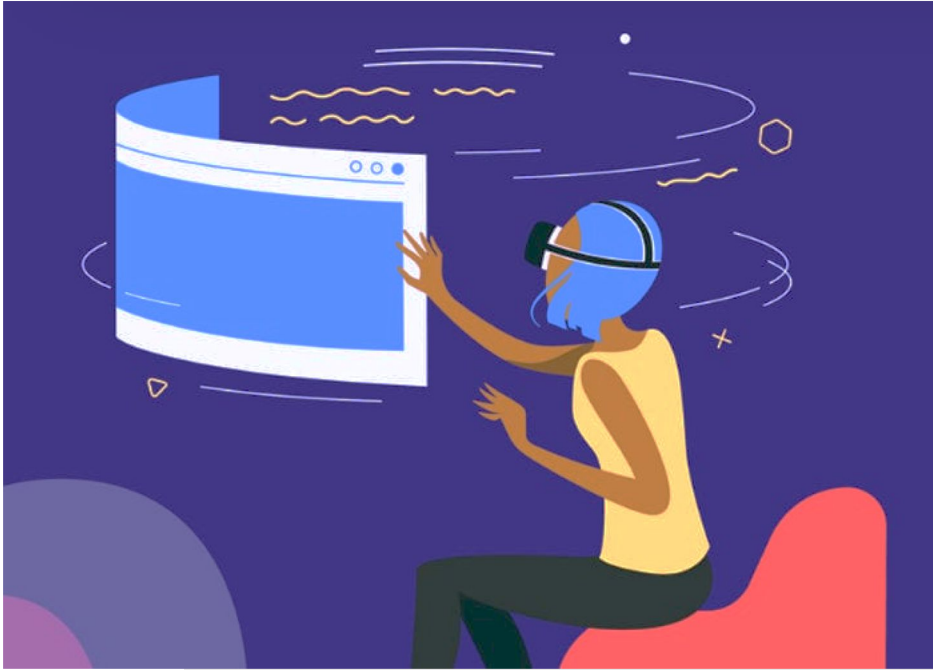
6 6DoF games and VR browser



Awesome 6DoF games now and in the future

With nearly 20 6DoF VR games already onboard in Pico App Store, users could expect more games coming. In the coming few months, there will be at least one new game published per week.

6 6DoF games and VR browser



Firefox VR browser

World class WebVR

Globally pre-install

Instantly use once open Neo 2.

Experience immediately

No waiting time for APP downloading.

Hub by Mozilla

Global VR SNS supports sharing a virtual room with friends for videos watching, 3D objects playing, or just hanging out.

Pico Neo 2 key features

7

Superior video experience

High resolution display and more updated rich built-in functions

7 Superior video experience



Advanced high resolution display technology

Renders media without compression so that media like videos, pictures and texts displayed sharply in VR world.

8K 360° video watching

Neo 2 system adapts AHDR to support 8K 360° video playing and transcoding.

External subtitle

Support for common formats subtitle files.

WeChat in VR

WeChat can be used in a small window during video watching.s

File encryption

User Privacy Protection.

Network disk & video streaming

More formats of video resources supported.

VR input method

powered by Sogou.

Various chooses of android apps

Weibo, Tic Tok and Kuaishou, etc.

Pico Neo 2 key features

8

VR social and experience sharing

Connecting with friends cross channels and
multi-platform

8 VR social and experience sharing



Improvement on Pico social cinema*

* only available in mainland China

Host the party in VR

Users can create their own parties and encourage others to join.

More props for fun

New fancy added that users can play with.

Cool avatars

Users can choose their own avatars in virtual world.

8 VR social and experience sharing



VR Assistance App in Phone

Miracast to phone

To project Neo2 screen to a mobile phone.

Cross platforms communication

Enables people to communicate and interact with each other through different channels, such as VR, IM, social media and etc.

Combined screen recording

One step of virtual screen and actual movement recording and easy of sharing.

Hardware parameters

Platform	Qualcomm® Snapdragon™ 845 CPU.
Storage	<ul style="list-style-type: none">• 128GB ROM/ 4GB RAM;• Plus a Micro-SD expansion slot.
Display & Optic	<p>4K , 3840 * 2160 , 75Hz refresh rate , 818 PPI , 5.5 inch * 1 VR TFT screen.</p> <p>FOV 101° and Fresnel lens.</p>
Ergonomics design	340g(w/o strap) , counterbalance design.
Battery	4500mAh, supports 2.5 – 3 hours' gaming playing or video watching.

Interaction	<ul style="list-style-type: none">• 3rd generation inside-out 6DoF head tracking and guardian system;• 360° electro-magnetic 6DOF haptic controller * 2;• Intelligent voice interaction.
PC compatibility	Wireless streaming , supports Steam game playing.
Audio	High Fidelity dual speakers, 3D surround sound · no need to wear headphones.

THANKS

