

### Overview

### HP Reverb G2 Omnicept Edition



### Introduction

Sensory data. Sensational VR. Introducing a VR headset enabling a new way to live and work. We've paired our innovation HP Reverb G2 design with a state-of-the-art sensor system, so you can scientifically capture data in real time and improve training, wellbeing, creation and collaboration. This HMD take it to the next level.

Integrated sensors monitor muscle movement, gaze, pupil size and pulse and seamlessly transfer data to the HP Omnicept platform<sup>1</sup>. By capturing user responses in real time, you can generate insights and adapt each user's experience.

<sup>1</sup> VR application compatibility required. 30 day trial of HP Omnicept can be downloaded from the HP Developer Portal (<https://developers.hp.com/>). Functionality is limited to sensor data after the trial period. To continue full functionality, resale model requires Royalty License; per seat Developer and Runtime License is required for Enterprise and Government customers.

### Overview

#### Key Features and Benefits

- Integrated with HP Omnicept, pupillometry and pulse sensors capture the level of brain power users exert in a VR session, so their experiences can be personalized to their needs.<sup>1</sup>
- With eye tracking and pupillometry sensors built into the HMD and integrated with HP Omnicept, get eye tracking data to better understand how a user interacts with a VR experience.<sup>1</sup>
- With built-in eye tracking, the HMD is able to discern where the wearer's center of gaze lies and reduce the image quality in the peripheral vision, freeing up GPU render workload.<sup>2</sup>
- Immerse yourself in ultra-sharp visuals with mura-free, 2160 x 2160 LCD panels per eye and full RGB stripe.
- With four cameras and internal sensors for position detection, you can now track more of your arm movement. Jump right into virtual reality without additional peripherals.
- With a smaller and more ergonomic design, our controllers are more natural and comfortable to hold onto. Plus, get superb tracking performance with integrated Bluetooth® connection.
- With a ratcheting headband, increased cushion size, flex material and adjustable interpupillary distance (IPD), you get a personalized, more comfortable fit for longer wear.
- Get a high quality audio experience with industry-leading Valve speakers. They sit off the ear by 10mm, allowing you to have a more comfortable fit.
- Get more clarity over the previous gen with new lenses designed by Valve. And, interpupillary distance (IPD) adjustment allows you to adapt with the width of lenses – so you get a perfect fit.
- Connecting directly to the headset, our new and improved 6 meter cable is thinner, lighter and longer than ever, allowing for more room to move freely.

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<sup>2</sup> Foveated rendering applications must be built and compiled with the HP Omnicept SDK or NVIDIA VRS.

#### In The Box

- HP Reverb G2 Omnicept Edition
- 6m headset cable for desktop and mobile PC's
- Power adapter
- 2 motion controllers
- 1 DisplayPort to mini-DisplayPort™ adapter
- Setup document
- 1 year limited warranty

#### Recommended minimum workstation specifications

**™Cards that typically run HP Reverb G2 Omnicept Edition at full resolution:**

- Consumer
  - NVIDIA® GeForce® GTX 1080, NVIDIA® GeForce® GTX 1080 Ti
  - NVIDIA® GeForce® RTX 2060 SUPER, NVIDIA® GeForce® RTX 2070, NVIDIA® GeForce® RTX 2070 SUPER, NVIDIA® GeForce® RTX 2080, NVIDIA® GeForce® RTX 2080 SUPER, NVIDIA® GeForce® 2080 Ti
  - NVIDIA® GeForce® RTX 3070, NVIDIA® GeForce® RTX 3080, NVIDIA® GeForce® RTX 3090
  - AMD Radeon™ RX 5700, AMD Radeon™ RX 5700 XT, AMD Radeon™ 7
- Workstation
  - NVIDIA® Quadro® P5200
  - NVIDIA® Quadro® RTX 4000, NVIDIA® Quadro® RTX 5000, NVIDIA® Quadro® RTX 6000, NVIDIA® Quadro® RTX 8000, NVIDIA® RTX A6000

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- AMD Radeon™ Pro WX 8200, AMD Radeon™ Pro WX 9200
- AMD Radeon™ Pro W5700

#### **Cards that typically run HP Reverb G2 Omnicept Edition at half resolution:**

- Consumer
  - NVIDIA® GeForce® GTX 1060, NVIDIA® GeForce® GTX 1660, NVIDIA® GeForce® GTX 1660ti, NVIDIA® GeForce® GTX 1070
  - NVIDIA® GeForce® RTX 2060
  - AMD Radeon™ RX 580, AMD Radeon™ RX 5500XT, AMD Radeon™ RX 590, AMD Radeon™ RX 5600 XT, AMD Radeon™ RX Vega<sup>56</sup>, AMD Radeon™ RX Vega<sup>64</sup>
- Workstation
  - NVIDIA® Quadro® P3200, NVIDIA® Quadro® P4000, NVIDIA® Quadro® P4200, NVIDIA® Quadro® P5000
  - NVIDIA® Quadro® RTX 3000
  - AMD Radeon™ Pro WX 7100

Processor: Intel® Core™ i5, i7, Intel® Xeon® E3-1240 v5, equivalent or better. AMD Ryzen 5 equivalent or better

Memory: 8 GB RAM or more

Video out: DisplayPort™ 1.3

USB ports: 1x USB 3.0 Type C

Power: USB Type-C® with power delivery or included power adapter

Operating system: Windows 10 May 2019 update or later

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### Overview

#### Available Localizations

HP Reverb G2 Omnicept Edition

3A7X9AA

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#### Service and Support

1 year standard limited warranty. Optional Care Packs are available to extend your protection beyond the standard limited warranty. For details, visit <http://www.hp.com/go/cpc>.

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### Technical Specifications



#### HP Reverb G2 Omnicept Edition

<b>Screen:</b>	Dual LCD 2.89" diagonal with Pulse Backlight technology
<b>Resolution:</b>	2160 x 2160 pixels per eye (4320 x 2160 pixels combined). RGB sub-pixels
<b>Refresh rate:</b>	90 Hz with recommended system specs
<b>Field of view:</b>	~114 degrees, Fresnel-Aspherical
<b>Tracking:</b>	2 front-facing cameras and 2 side-facing cameras
<b>Sensors:</b>	Windows Mixed Reality inside/out 6 DOF motion tracking, gyroscope, accelerometer, and magnetometer Eye Tracking with pupillometry, heart rate, face camera
<b>Eye adjustments:</b>	64mm +/- 4mm by hardware slider
<b>Connections:</b>	DisplayPort™ 1.3, USB 3.0 type C, power adapter
<b>Cables:</b>	One 6m 2-in-1 (DisplayPort™ 1.3 + USB 3.0 type C) cable, and one power adapter (for use when USB-C does not have power delivery). Mini DisplayPort™ to Full size DisplayPort™ adapter
<b>Mechanical ID:</b>	Replaceable face cushions
<b>Dimensions (without straps):</b>	11 x 25.3 x 29 cm
<b>Weight :</b>	1.6 lbs 727 g

### Technical Specifications



#### HP Reverb G2 Omnicept Edition Controllers

<b>Sensors:</b>	Windows Mixed Reality tracking, IMU, active LEDs
<b>Connections:</b>	Bluetooth®
<b>Inputs:</b>	A/B or X/Y buttons, Menu button, Windows Start button, Grip trigger, Thumbstick, Trigger
<b>Power:</b>	Two AA batteries for each controller (included)
<b>Dimensions (WxDxH)</b>	2.6x5x4.7in ( 66x129x119mm )
<b>Weight (w/o cable)</b>	0.37lbs (167g)

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#### Tracked area requirements

<b>Standing / seated:</b>	No minimum space requirements
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### Summary of Changes

<b>Date of change:</b>	<b>Version History:</b>		<b>Description of change:</b>
December 11, 2020	From v1 to v2	Changed	Options and Accessories section
December 20, 2021	From v2 to v3	Removed	Options and Accessories section
		Changed	Recommended minimum workstation specifications section

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