

### Overview

### HP Windows Mixed Reality Headset - Professional Edition



### Introduction

The HP Windows Mixed Reality Headset - Professional Edition offers stunning immersive computing with significant ease of setup and use in a cost effective solution. This solution is well suited for Engineering Product Dev and design reviews, AEC (Architecture, Engineering & Construction) reviews, and MRO (Maintenance, Repair and Overhaul) training use environments.

Take advantage of the complete Windows 10 Mixed Reality ecosystem.

**Important note:** HP Windows Mixed Reality Headset - Professional Edition is not recommended for children under the age of 13. All users should read the HP Windows Mixed Reality Headset User Guide to reduce the risk of personal injury, discomfort, property damage, and other potential hazards and for important information related to your health and safety when using the headset. Windows Mixed Reality requires Windows 10 Fall Creator's Update installed on the workstation or PC. Features may require software or other 3rd-party applications to provide the described functionality. To minimize the possibility of experiencing discomfort using a VR application, ensure that the PC system is equipped with the appropriate graphics and CPU for the VR application. For HP workstation VR ready recommended configurations, see: <http://www8.hp.com/h20195/v2/GetPDF.aspx/4AA6-9646ENW.pdf>

### Overview

#### Key Features and Benefits

- 1440x1440 resolution per eye: Get lost in ultra-sharp visuals with 1440x1440 resolution per eye that takes all your content to a remarkable place.
- Controller and Headset six degrees of freedom: Explore the virtual world around you with six degrees of freedom. Move up, down, back, forth, and side to side in the VR experience.
- Two Motion controllers: Included Bluetooth® connected motion controllers give you accurate tracking of hand and arm movements.
- Wide field of view: Large field of view means deeper immersion. Stun your visual senses with approximately 100-degree field of view with a Windows Mixed Reality Ultra ready PC.
- High refresh rate React quicker and experience it clearer with a 90Hz refresh rate\* when paired with a Windows Mixed Reality Ultra PC (60Hz when paired with a Windows Mixed Reality PC), offering high resolution details that move smoothly from frame to frame.
- Integrated motion tracking: Jump right into mixed reality without the hassle of setting up additional peripherals.
- Front-hinged display: Easily enter and exit mixed reality experiences with just a flip of the visor.
- Double-padded headband. Stay comfortable with thick padding at both the front and back of the headband.
- Easy adjustment knob: Get a perfect fit with the easy adjustment knob at the back of the headset for quick size alterations.
- Quick-release cable: Quickly and easily attach and detach the cables running from your PC to the headset.
- Face cushion: Keep the headset clean with 3 long-lasting, replaceable face cushions. The face cushions are easy to clean for repetitive use.
- 2-in-1 cables: Choose the cable length that is best for your VR setup with both 3.6m and 0.6 HMD 2-in-1 cables. The 3.6m cable is ideal to connect to desktop or mobile workstations. The 0.6m cable is ideal for connecting to the HP Z VR Backpack wearable VR PC (Z VR backpack PC sold separately).
- Full support in both the Windows Mixed Reality platform ecosystem.

\*To enable full 90 fps performance, an HDMI 2.0 or later connection is required with the graphics solution provided by the PC.

#### In The Box

- Windows Mixed Reality Headset
- 3.6m headset cable for desktop and mobile PC's
- 0.6m headset cable for HP Z VR Backpack wearable VR PC (Z VR backpack PC sold separately)
- 2 motion controllers
- 3 PU (Polyurethane) face cushions – cleanable
- Setup document
- 1 year limited warranty

#### Recommended minimum workstation specifications

Graphics: DX12 capable graphics. NVIDIA® GTX 1060, NVIDIA® Quadro® P4000, AMD Radeon™ Pro WX 7100, equivalent or better

Processor: Intel® Core™ i7, Intel® Xeon® E3-1240 v5, equivalent or better

Memory: 16 GB RAM or more

Video out: HDMI 2.0, DisplayPort™ 1.3 (requires a DP to HDMI 2.0 adapter)

USB ports: 1x USB 3.0

Operating system: Windows 10 Pro Fall Creators Update recommended

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#### Available Localizations and HP AMO Product Numbers

HP Windows Mixed Reality Headset - Professional Edition

3VM67AA#ABA

3VM67AA#ABB

3VM67AA#UUF

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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 Windows Mixed Reality Headset

<b>Screen:</b>	dual LCD 2.89" diagonal with Pulse Backlight technology
<b>Resolution:</b>	1440 x 1440 pixels per eye (2880 x 1440 pixels combined)
<b>Refresh rate:</b>	90 Hz (HDMI 2.0), 60Hz (HDMI 1.4)
<b>Field of view:</b>	~100 degrees, Fresnel-Aspherical
<b>Tracking:</b>	2 front-facing cameras
<b>Sensors:</b>	Windows Mixed Reality inside/out 6 DOF motion tracking, gyroscope, accelerometer, and magnetometer
<b>Eye adjustments:</b>	63mm +/- 8mm by eye tracking detection and software control
<b>Connections:</b>	HDMI 2.0, USB 3.0, stereo 3.5 mm headphone/mic jack
<b>Cables:</b>	One 3.6m 2-in-1 (HDMI 2.0 + USB 3.0) cable, and one 0.6m 2-in-1 (HDMI 2.0 + USB 3.0) cable
<b>Accessories:</b>	Three polyurethane face cushions, cleanable, detachable
<b>Mechanical ID:</b>	Head strap ring design with quick adjust ratchet style adjustment nob. Head strap includes integrated comfort fit front and rear cushions. Flip up visor design. Replaceable face cushions.
<b>Dimensions:</b>	13.34x6.93x5.03 in (339x176x128 mm)
<b>Weight (without cable):</b>	1.16 lb (524g)

### Technical Specifications



#### Windows Mixed Reality Controller

<b>Sensors:</b>	Windows Mixed Reality tracking, IMU, active LEDs
<b>Connections:</b>	Bluetooth®
<b>Input:</b>	multifunction touchpad, Menu button, Windows Start button, Grab button, Thumbstick (Teleport & Rotate), Trigger (Select)
<b>Power:</b>	Two AA batteries for each controller (included with solution)
<b>Dimensions (WxDxH)</b>	6 x 4.7 x 4.7 inch (152 x 120 x 120mm)
<b>Weight (w/o cable)</b>	0.38 lb (173g)

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#### Tracked area requirements

<b>Standing / seated:</b>	No minimum space requirements
<b>Room-scale:</b>	2m x 1.5m min., 5m x 5m max.

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### Summary of Changes

Date of change:	Version History:		Description of change:
	From v1 to v2		

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