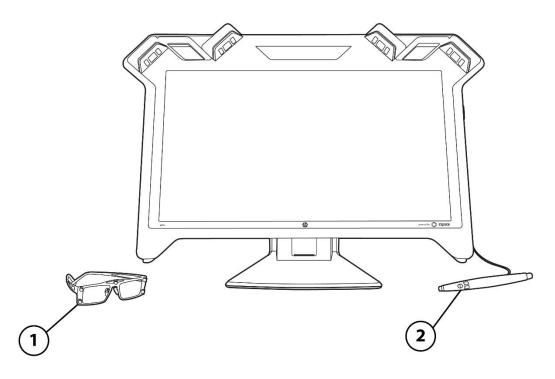
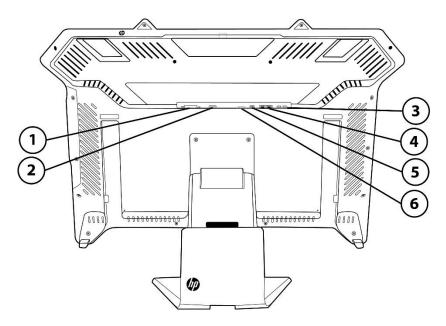
Overview

HP Zvr 23.6-inch Virtual Reality Display



Passive eyewear

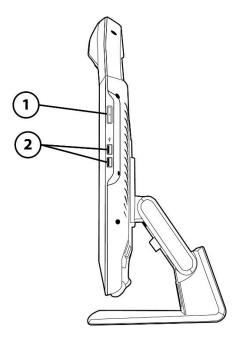
2. Active stylus



- 1. DVI-D, Dual Link
- 2. DisplayPort 1.2
- **3.** USB 2.0

- **4.** RJ-11 (stylus)
- **5.** DC in
- 6. USB 2.0 upstream

Overview



1. Master power switch

2. USB 2.0 ports

Overview

Change the way you think, work, and create with a virtual-holographic 3D¹ image from the HP Zvr 23.6-inch Virtual Reality Display.

Key features:

- Experience real-time, natural interaction with your 3D¹ content as the display follows the movement of your lightweight, passive glasses.^{2,3}
- Immerse yourself in every detail of the holographic image with the stylus pen.³
- Project your 3D¹ models to a 2D big screen with choice of third-party hardware.⁴
- Easily drive your content from an HP Z Workstation or HP Business Desktop with DVI or DisplayPort connectors.
- Create your own niche-specific software with the zSpace Developer Kit.⁵
- Get award-winning service and support, and extend your protection with optional HP Care Packs.⁶
- 3D content is required for 3D performance.
- 2 User must be wearing 3D glasses for tracking to occur.
- 3 3D glasses, 3D glass clip-on, and stylus pen are included.
- 4 Sold separately.
- 5 Download from zSpace website at http://developer.zspace.com.
- HP Care Pack Services are sold separately. Service levels and response times for HP Care Pack Services may vary depending on your geographic location. Service starts from date of hardware purchase. Restrictions and limitations apply. See www.hp.com/go/cpc for details. HP services are governed by the applicable HP terms and conditions of service provided or indicated to Customer at the time of purchase. Customer may have additional statutory rights according to applicable local laws, and such rights are not in any way affected by the HP terms and conditions of service or the HP Limited Warranty provided with your HP Product.



Change Log

Models: K5H59A4

Panel Type 23.6-inch TN with segmented LED backlight

Viewable Image Area 59,94 cm (23.6-inch) widescreen; diagonally measured

(diagonal)

Panel Active Area 52,12 x 29,32 cm (20.52 × 11.54 in)

(W × H)

Resolution 1920 x 1080 @ 120Hz (typical 3D mode of operation)

Aspect Ratio 16:9

Viewing Angle* Up to 170° horizontal/160° vertical typical

Brightness* 200 cd/m² in 3D mode of operation

Contrast Ratio (Typical)* 300:1 average in 3D mode of operation

1000:1 average in 2D mode

Response Times* 5.6 ms on/off without overdrive

Pixel Pitch* 0.272 mm

Pixels Per Inch (PPI)* 93.5

Backlight Lamp Life

(to half brightness)*

30,000 hours minimum

Color Support* Up to 16.7 million colors with the use of FRC technology

Color Gamut (Typical)* 72% of NTSC

User Controls

Buttons or Switches Right side: power button (press once to turn-off backlight; press 4

seconds for "soft OFF")

User Programmable Modes N/A

Languages None
On Screen Display No OSD
(OSD) User Controls

Audio Controls N/A

Signal Interface/ Performance **Horizontal Frequency** 24 - 80 kHz **Vertical Frequency** 60 - 120 Hz

Native Resolution 1920 x 1080 @ 120Hz (typical 3D mode of operation)

Preset Graphic Modes 640 x 480 @ 60Hz (non-interlaced) 1920 x 1080 @ 60 Hz

1920 x 1080 @ 120Hz (typical 3D mode of operation)

Maximum Pixel Clock 285.5 MHz

Speed

Anti-Glare Yes
Plug and Play Yes

Input/Output Connectors (1) DVI-D, Dual Link

Inputs

Video/Other

^{*} Performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.

Change Log

(1) DisplayPort 1.2

HDCP support on all inputs

USB 5 USB 2.0 [4 downstream, 1 upstream]

Video Cables Included (1) DisplayPort **1,8 m** (5.9 ft)

(1) USB 2.0 1,8 m (5.9 ft)

Audio N/A

Cameras 4 IR cameras, for head and stylus tracking

Multimedia Speakers N/A

Power Supply External

Input Power 100 - 240 VAC 50/60 Hz

Maximum Power 90 W

Typical Power 65W typical with 3D mode enabled Energy Saving/Standby 12W standby and 0.5W "Soft OFF"

Mode

Power Cable Length 1,8 m (5.9 ft)

Mechanical Dimensions Unpacked w/stand 69 x 28,29 x 52,53 cm

 $(W \times D \times H)$ 27.17 x 11.14 x 20.68 in

Unpacked w/o stand 69 x 6,81 x 52,53 cm (head only) (27.17 x 2.68 x 20.68 in)

Packaged 78,8 x 62,5 x 38 cm

(31.2 x 24.6 x 14.96 in)

Weight Head Only 5,92 kg (13.024 lb)

 Unpacked
 9,1 kg (20.02 lb)

 Packaged
 14,3 kg (31.526 lb)

Ergonomic Detachable Stand Yes

Height Adjustment Yes, 162 mm (at full recline)

Tilt Range -7° to $+60^{\circ}$

Swivel N/A
Pivot N/A

Environmental Temperature - Operating 5° to 35° C (41° to 95° F)

Temperature - Non- -20° to 60° C (-4° to 140° F)

operating

Humidity - Operating20% to 80% non-condensingHumidity - Non-operating5% to 95%, 38.7° C max wet-bulb

 Altitude - Operating
 0 to 5,000 m (0 to 16,404 ft)

 Altitude - Non-operating
 0 to 12,192 m (0 to 40,000 ft)

White LED Backlights Yes
CCFL Panel No
Arsenic-Free Display Glass Yes



Features

Change Log

Low Halogen No
Mercury-Free Display Yes
Backlighting

Options N/A

What's in the box?

Monitor and Accessories HP Zvr 23.6-inch Virtual Reality Display, AC power cord 1,8 m (5.9 ft),

External power supply (90W), DisplayPort cable 1,8 m (5.9 ft), USB cable 1,8 m (5.9 ft), (1) Active stylus, (1) Passive eyewear, (1) Passive

Eyewear clip-ons

Documentation DVD (includes user guide, warranty, drivers)

Software • Zvr system software

Zvr Experience - Demo software

Other User Guide Languages English, Arabic, S. Chinese, T. Chinese, Czech, Danish, Dutch, Finnish,

French, German, Greek, Hungarian, Italian, Japanese, Kazakh, Korean, Norwegian, Polish, Brazilian Portuguese, Russian, Slovenian, Spanish,

Swedish and Turkish.

Warranty Languages English, Arabic, S. Chinese, T. Chinese, Czech, Danish, Dutch, Finnish,

French, German, Greek, Hungarian, Italian, Japanese, Kazakh, Korean, Norwegian, Polish, Brazilian Portuguese, Russian, Slovenian, Spanish,

Swedish and Turkish.

Color Black

VESA Mounting 100 mm VESA mount

Security Lock-Ready No
Country of Origin China

Certification and Compliance

UL/CSA, CE, FCC marking, CB, FCC Class A for EMEA and FCC Class B for ROW, Microsoft Windows 7,

SmartWay Transport Partnership (NA only)

Compatibility Compatible with platforms using the VESA standard video modes. Recommended for use with HP

products.

Service and Warranty

Protected by HP, including a 3 year standard limited warranty. Optional HP Care Pack Services are

extended service contracts that extend your protection beyond the standard warranties.1

© Copyright 2015 Hewlett-Packard Development Company, L.P. The information contained herein is subject to change without notice. The only warranties for HP products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein.

1. Service levels and response times for HP Care Pack Services may vary depending on your geographic location. Service starts from date of hardware purchase. Restrictions and limitations apply. See www.hp.com/qo/cpc for details.



Change Log

Change Log	

