

New! Now with Wireless Video Option



zSight™

Plug-and-play Professional Head-Mounted Display

The zSight™ is a professional HMD with high-resolution displays, comfortable and lightweight packaging, low power consumption and integrated peripherals. It is an excellent choice for a variety of training, imaging, tactical display and remote presence applications.

Key Features

- Bright, crisp, high-contrast display that uses the latest in OLED microdisplay technology.
- High resolution full-color SXGA 1280x1024 pixels per eye.
- Patent-pending user-selectable usage modes:
 - 60° field of view with 100% binocular overlap
 - 70° field of view with 75% binocular overlap
- Operates with single or dual HDMI/DVI inputs.
- Innovative “movie mode” allows widescreen viewing of 1680x1050 input signals.
- Integrated 3 DOF tracker, stereo audio and microphone
- Self contained: no need for bulky external control electronics.
- Lightweight, low profile and comfortable: 450 grams (less than 1lb)
- Accepts low power DC or USB power input¹. Optional battery operation.
- Compatible with the Sensics low-latency high-performance wireless video option for truly portable, untethered operation.



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Specifications subject to change without notice. July 2010

¹ Ability to use USB power depends on specific PC

KEY SPECIFICATIONS

IMAGE

Binocular FOV	60° (100% overlap) and 70° (75% overlap), user-selectable
Display Resolution	SXGA 1280x1024 full-color pixels per eye
Technology	OLED
Contrast ratio	>10000:1
Luminance	150 fL
Color depth	24 bit
Diopter adjustment	-4 to +4 per eye

INTERFACE

Video format	Single or dual HDMI/DVI 60Hz input
Supported input resolutions	SXGA 1280x1024 HD720P (1280x720) WSXGA+ 1680x1050 ("panoramic movie mode")
Audio	Integrated microphone and stereo sound. Audio in can be provided via audio jack or embedded in HDMI signal.
Stereo	Binocular or bi-ocular (auto sensing)
Power consumption	<4 Watts
Power input	AC adapter. DC/USB. Battery power option.

INTEGRATED TRACKER

Sampling frequency	125 Hz
Interface	USB
Pitch/Roll Accuracy	0.75°
Degrees of freedom	3 DOF (Yaw/Pitch/Roll)



MECHANICAL

Weight	450 gram
IPD	52-72 mm
Eye box	9 mm
Eye relief	16 mm. Built-in diopter adjustment
Cable breakout box	5x10x2 cm (approx 2x4x1 inch), 50 grams

WIRELESS VIDEO OPTION

Frame rate	60 Hz
Latency	<35 mSec
Spectrum	Wi-Fi (wireless N)
Distance	Typically Up to 100 meters
Audio	Stereo on HDMI signal or with separate audio input

BATTERY OPTION

Technology	Rechargeable Lithium Ion
Time between charges	2 hours typical for HMD and wireless video link, 6 hours without wireless link