

Sensics zSight-M810™

Rugged high-performance HMD for demanding training applications

The zSight-M810™ is a high-performance professional HMD that is designed to withstand high-impact training conditions such as shock, vibration and rain.



The zSight-M810 uses high-resolution SXGA OLED displays and precision optics in a helmet-mounted, rugged enclosure that is Mil-810G tested to endure tough in-field training conditions. It is a unique solution for demanding applications that need high-fidelity imaging.

Key Features

- Dual high-resolution SXGA 1280x1024 OLED displays
- Designed to Mil-810G standards withstand shock, vibration, extended temperature, rain, salt fog and other adverse conditions
- 60° field of view with 100% binocular overlap, large eye relief and eye box
- Retractable eyecups
- Integrated high-performance 9-sensor tracker for rapid angular position and linear acceleration reporting
- Self-contained: no need for external control electronics.
- Lightweight, low profile and comfortable: approximately 1lb excluding helmet
- Accepts low power DC or USB power input. Optional battery operation.
- Helmet-mountable using standard night-vision goggle mounts.
- Compatible with the Sensics ultra low-latency wireless video option for truly portable, untethered operation.



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Specifications

Display:

Display resolution:	1280x1024 full-color OLED displays
Colors:	16,777,216
Brightness:	Adjustable; 10 fL typical
Contrast ratio:	10000:1

Optical:

Field of view:	60° diagonal (47° horizontal, 38° vertical)
Binocular overlap	100%
Eye relief	25mm
Eye box	12mm
Geometrical distortion	<1%
Eye cups	Foldable eye cups for optimal occlusion

Electrical:

Power input	+5VDC, battery compatible
Power consumption	~2W
Inputs	Single or dual HDMI/DVI video input, USB control input

Tracker:

Reporting	Yaw/pitch/roll heading and X/Y/Z linear acceleration
Reporting rate	250Hz with advanced AHRS Kalman Filtering. Higher rates available
Accuracy	1° in all three axes
Resolution	Better than 0.08°
Repeatability	Better than 0.085°

Operating conditions:

Operating temperature:	-4°F to 130°F (-20°C to +55°C) per MIL-STD-810G. Method 501.5, proc. I,II, and method 502.5, proc. I,II
Storage temperature:	-22°F to 158°F (-30°C to +70°C) MIL-STD-810G. Method 501.5, proc. I, II, and method 502.5, proc. I,II
Shock resistance:	4ft (1.2 meter) drop to concrete per MIL-STD-810G. Method 516.5 proc. IV
Humidity:	95% RH non-condensing per Mil-STD-810G method 507.5 proc. II
Temperature shock:	0°F to 130°F (-18°C to +55°C) in 1 min per Mil-STD-810G method 503.5
Solar radiation	1120w/m ² per Mil-STD-810G method 505.5 proc. I
Rain	Blowing rain per Mil-STD-810G method 506.5 proc. I
Sand and dust	Withstand sand and dust conditions per MIL-STD-810G. Method 510.5, proc. I proc. II
Salt fog	Withstand salt fog conditions per MIL-STD-810G. Method 509.5
Operating altitude	10 Kft operating, 40 Kft storage per MIL-STD-810G. Method 500.5 proc. I,II