

Sensics dSight™

Panoramic HMD with dual 1080p resolution



The dSight™ is a high-performance HMD that combined **dual HD1080p** display, **precision optics** and **panoramic field of view** into an unprecedented visual experience.

Single-display systems force the user to choose between wide field of view and high pixel density. The former provides immersion. The latter provides realism and detail. The dSight delivers the best of both worlds.

In addition to the core high-performance HMD, the dSight is offered with a multitude of add-on options such as augmented reality, wireless video, gesture tracking, eye tracking and more.

Key Features

- Dual HD1080p (1920x1080) flat-panel displays, one for each eyes
- Designer optics provide crisp image with minimal distortion.
- Panoramic field of view: 131 degrees diagonal
- Integrated high-performance 9-sensor tracker for rapid angular position and linear acceleration reporting
- Self-contained: no need for external control electronics.
- Comfortable and adjustable elastic strap
- Ultra low-latency wireless video option
- Augmented reality option
- Eye tracking option
- Hand and finger tracking option
- "add your own" peripheral mounting holes



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Specifications

Display:

Display resolution:	Dual 1920x1080 full-color with 16,777,216 colors, color gamut 70% of CIE 1931.
Contrast ratio:	1000:1 typical
Display technology	Flat panel display, active-matrix TFT

Optical:

Field of view:	131° diagonal (120° horizontal, 54° vertical)
Binocular overlap	74%
Eye relief	20 mm
Eye box	9mm
Geometrical distortion	<10%

Electrical:

Power input	+5VDC, battery compatible
Power consumption	~10W
Inputs	Dual HDMI video input, one 1080p signal per eye. Also accepts "side by side" 1080p video allowing the operate the device with a single 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°

Physical:

Head mounting	Adjustable elastic strap
Weight	570 grams

Available options:

- Video-based augmented reality
- Eye tracking
- Hand and finger tracking