

Sensics rSight™

High Performance. Cost-effective.



The rSight™ is a high-performance HMD that combined an **HD1080p display, precision optics** and flexible helmet- or head-mounting options into a professional-grade, cost-effective visual solution.

Two models are available with either 90 degree or 66 degree field of view. Both provide low geometrical distortion, generous eye box and eye relief and a bright, crisp image.

Key Features

- HD1080p (1920x1080) flat-panel display shared across both eyes
- Designer optics provide crisp image with minimal distortion.
- Wide field of view: 90 degrees or 66 degree with 100% overlap
- Integrated high-performance 9-sensor tracker for rapid angular position and linear acceleration reporting
- Self-contained: no need for external control electronics.
- Accepts low power DC or USB power input. Optional battery operation.
- head-mounting using 'ski goggle' design or helmet-mountable using standard night-vision goggle mounts
- Rugged design



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Specifications

Display:

Display resolution:	1920x1080 full-color with 16,777,216 colors, color gamut 70% of CIE 1931. 960x1080 resolution per eye
Contrast ratio:	1000:1 typical
Display technology	Flat panel display, active-matrix TFT

Optical:

Field of view:	rSight90: 90° diagonal (60° horizontal, 60° vertical) rSight66: 66° diagonal (60° horizontal, 60° vertical)
Binocular overlap	100%
Eye relief	rSight90:21mm rSight66:20 mm
Eye box	rSight90:10mm rSight66: 8 mm
Geometrical distortion	<10%

Electrical:

Power input	+5VDC, battery compatible
Power consumption	~2W
Inputs	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°

Physical:

Head mounting	Standard NVG helmet mount or 'ski goggle' head strap
Weight	<1 lb

Available options:

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