



Low-Latency Wireless Video

Optimized for Head-Mounted Displays

KEY SPECIFICATIONS

HMD COMPATIBILITY

Compatible with all Sensics products including:

- xSight panoramic HMD
- piSight ultra-panoramic HMD
- zSight
- Custom solutions

WIRELESS LINK

End-to-end latency	<2 frames (less than 32 mSec)
Spectrum	Wi-Fi (wireless N)
Distance	Up to 100 meters
Compression	MPEG4 H.264
Multiple links	Up to 9 separate HMDs

Supported AUDIO and VIDEO

Resolution	1920x1080 and lower resolutions, all at 60 Hz
Video interface	HDMI 1.3
Audio	Dual channel

Electrical and Mechanical

Power consumption	6W typical
Power input	+5VDC input or battery option
Size	Approx 13x13x3 cm

Sensics, Inc.
7125 Thomas Edison Dr, Suite 103
Columbia, MD 21046, USA

Tel: +1 443 927 9200,
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www.sensics.com

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Sensics believes that head-mounted displays need not be tied with a cable to a computer. To realize this vision, we offer a wireless video link that is optimized for HMD use: low-latency, high-definition and large distance.

With the Sensics low-latency wireless video link, users can:

- Use Sensics HMDs without requiring a cable connection to image generator.
- Allow greater freedom of motion and movement.
- Extend the distance between image generator and HMD.
- Simplify rapid deployment of multiple HMDs.

Key features include:

- A low-latency wireless video link that is optimized for head-mounted displays.
- Support for high definition (up to 1920x1080) at 60 Hz frame rates.
- Integrated stereo audio
- Ability to use multiple transmitter/receiver pairs simultaneously to drive multiple independent HMDs
- Available battery option for both HMD and wireless video link.
- Simple interface: HDMI/DVI from image generator, HDMI/DVI to HMD
- Automatic HMD capability negotiations (EDID-capable)
- Wireless N technology which does not require line of sight and works over large distances