



nVisor ST50

Professional see-through compatible head-mounted display

PRODUCT SPECIFICATIONS

| | |
|-------------------------------------|--|
| Optical | |
| FOV, Vertical | 32° |
| FOV, Horizontal | 40° |
| FOV, Binocular (diagonal) | 50° |
| See-Thru Transmission | 44% |
| Pupil Size | 10, Non-Real mm |
| Eye Relief | 23 mm |
| Geometric Distortion | -2% Maximum (Barrel) |
| Brightness (MAX) | 23 fL |
| Contrast (Min.) | 10000:1 |
| Image Defect Criteria | Available Online |
| Spatial Resolution | 1.88 arcmin/pxl |
| Microdisplay | |
| Display Technology | Organic Light-Emitting Diode (OLED) |
| Resolution | SXGA 1280 x 1024 |
| Color Depth | 24-BIT (8 bits per R,G,B) |
| Video | |
| Video Input Format | SXGA 1280 x 1024 @ 60 Hz |
| Video Interface | DVI over HDMI |
| Latency | < 0.002 ms |
| Audio | |
| Headphone Response | 15-25,000 Hz |
| Headphone Impedance | 60 Ohms |
| Microphone, Standard | Integrated, Shell-mounted Microphone |
| Mic Transducer Principle | Electret |
| Controls | |
| Interpupillary Distance (IPD) Range | 53-73 (Independent left and right) mm |
| Power | |
| Power Supply | INPUT: 100-240 VAC, 0.3A 50-60 Hz. OUTPUT: +5 V DC, 2 A min. |
| Physical | |
| Size (envelope) | 14.2 L x 9.0 W x 8.6 H max in |
| Mass | 1050 g |
| Compliance | |
| CE Compliance | CE Compliant |
| RoHS Compliance | RoHS Compliant |

The nVisor ST50 offers virtual and augmented reality developers and users a high-fidelity head-mounted display with unprecedented visual clarity and acuity for under \$20k.

The nVisor ST50 is built around a high-contrast Organic Light Emitting Diode (OLED) microdisplay. The microdisplay provides 1280x1024 pixels per eye in a low-power, compact design. The patent-pending eyepieces display the image across a 50° diagonal field-of-view with < 2% distortion, making the see-through compatible optics ideal for professional augmented reality applications that require precision alignment between real and virtual environments. The nVisor ST50 works equally well as a see-through or fully immersive display. A removable cover can be quickly applied to allow users the flexibility to develop both virtual and augmented reality applications using the same HMD. And the nVisor ST50 supports standard motion tracking devices from InterSense, Ascension, Polhemus, and others via a tracker platform mounted on the back of the HMD.

NVIS is at the forefront of immersive display technology and development, and the culmination of our experience is evident in the simplicity and performance of this HMD. Unsurpassed visual fidelity is designed into a lightweight, ergonomically friendly device that is both easy to use and comfortable to wear. HDMI cables from the HMD plug directly into the image source with no additional video processing electronics. Stereo headphones, built-in microphone, and programmable buttons compliment the high-resolution visuals to provide the rich, immersive experience required in the most demanding training and simulation applications.

Contact NVIS today to learn more. The nVisor ST50 will be available within the US directly from NVIS and worldwide through our authorized resellers.



11495 Sunset Hills Rd., Ste. 106, Reston, VA 20190, USA
 Voice: +1.571.201.8095 - Fax: +1.571.201.8806 - www.nvisinc.com
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