# nVisor SX111

## High-resolution wide field-of-view immersive head-mounted display

PRODUCT SPECIFICATIONS

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|---|---|
| **Optical** | |
| FOV, Monocular (diagonal) | 90° |
| FOV, Vertical | 64° |
| FOV, Horizontal | 102° |
| FOV, Binocular (diagonal) | 111° |
| Overlap | 66% |
| Overlap Angle | 50° |
| Pupil Size | 12, Non-Real mm |
| Eye Relief | 25 mm |
| Geometric Distortion | +/-0.5% Maximum |
| Brightness (MAX) | 7 fL |
| Contrast | 100:1 |
| Image Defect Criteria | Available Online |
| Spatial Resolution | 3.6 arcmn/pxl |
| **Microdisplay** | |
| Display Technology | Color Sequential, LCOS (Reflective) |
| 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 |
| Latency | <16.7 ms |
| **Audio** | |
| Headphones, Optional | Sennheiser HD 25-1 |
| Microphone, Optional | Shure WH20QTR, Sennheiser HMD 25-1, or Sennheiser HME 25-1 |
| **Controls** | |
| Interpupillary Distance (IPD) Range | 54 to 73 (Independent left and right) mm |
| **Power** | |
| Power Source | 100-240 VAC, 50-60 Hz, 0.4 A (IEC Type C13 Cord) |
| **Physical** | |
| Size (envelope) | 16.7 L x 9.0 W x 8.6 H max in |
| Mass | 1300 g |
| Cable Length | 4.5 m |
| **Compliancy** | |
| CE Compliance | CE Compliant |
| RoHS Compliance | RoHS Compliant |

The nVisor SX111 offers users a truly immersive display with a total viewing real estate covering 102° horizontal by 64° vertical, with 111 degrees across the diagonal. Other displays with comparable field-of-view either provide inadequate resolution or create undesirable tiling artifacts from use of multiple microdisplays. The nVisor SX111 uses a single microdisplay per eye and can be driven from a PC supporting dual DVI or analog video output. Adequate eye relief accommodate users with eyeglasses and a large exit pupil supports eye movement across the expansive field-of-view without vignetting.

The nVisor SX111 is now available directly from NVIS and through our global network of Authorized NVIS Resellers.

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