



# Virtual Binocular SV

Low-cost Simulated Binocular

## PRODUCT SPECIFICATIONS

### Optical

|                           |                          |
|---------------------------|--------------------------|
| FOV, Vertical             | 25.5°                    |
| FOV, Horizontal           | 34.5°                    |
| FOV, Binocular (diagonal) | 43.5°                    |
| Pupil Size                | 5, Non-Real mm           |
| Eye Relief                | 13 mm                    |
| Geometric Distortion      | +9% Maximum (Pincushion) |
| Brightness (MAX)          | 30 fL                    |
| Contrast (Min.)           | 800:1                    |
| Image Defect Criteria     | Available Online         |
| Spatial Resolution        | 2.58 arcmin/pxl          |

### Microdisplay

|                    |                                     |
|--------------------|-------------------------------------|
| Display Technology | Organic Light-Emitting Diode (OLED) |
| Resolution         | SVGA 800 x 600                      |
| Color Depth        | 24-BIT (8 bits per R,G,B)           |

### Video

|                    |                        |
|--------------------|------------------------|
| Video Input Format | SVGA 800 x 600 @ 60 Hz |
| Latency            | < 0.002 ms             |

### Physical

|                 |                             |
|-----------------|-----------------------------|
| Size (envelope) | 6.64 L x 6.06 W x 2.97 H in |
| Mass            | 685 g                       |
| Cable Length    | 5.1 m                       |

### Compliance

|                 |                |
|-----------------|----------------|
| CE Compliance   | CE Compliant   |
| RoHS Compliance | RoHS Compliant |

The Virtual Binocular SV (VBSV) hand-held display is designed for cost-sensitive, professional training and simulation applications. The VBSV features a remarkably bright 800x600 display with focus-adjustable eyepieces displaying a 43 degree field-of-view. Stereopsis is supported via two independent video inputs. The VBSV has a user accessible door that allows users to install and replace most popular motion trackers. Mounting hardware inside the VBSV supports the IC2/3/4 and IS-900 motion trackers from InterSense®. The VBSV provides six programmable USB Joystick compatible buttons, plus a z-axis scroll wheel, offering developers and users a wide array of interactivity within their applications.

The VBSV was designed for applications with sensitive budgets requiring an easy-to-use, professional immersive display. Its intuitive interface lends itself well to applications ranging from simulated binoculars used in military trainers to virtual 3D microscopes for medical simulations.



11495 Sunset Hills Rd., Ste. 106, Reston, VA 20190, USA  
Voice: +1.571.201.8095 - Fax: +1.571.201.8806 - [www.nvisinc.com](http://www.nvisinc.com)  
© 2017 NVIS, Inc.