



Virtual Binocular SV

Hand-Held Display

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 40° 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 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.

PRODUCT SPECIFICATIONS

optical

Total HFOV	32°
Exit Pupil (mm)	5
Eye Relief (mm)	20
Focus/convergence	+/- 4
Monocular FOV (diagonal)	40°
Vertical FOV	25°
Geometric Distortion	< 15%

mechanical

IPD Range (mm)	55 to 73
Weight (g)	850

performance

Resolution	800x600
Contrast	200:1
Brightness (fL)	40
Visual Acuity (arc-min/pixel)	2.4

COMPATIBLE PRODUCTS

Video Control Units

- Virtual Binocular SV Video Control Unit

Optional Accessories

- InertiaCube 2+

