



Scout Virtual Binoculars Detailed Datasheet Rev 9

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Product Specifications

Optical

FOV, Circular	35 °
Shape Of View (SOV) Type 2	Vertical Inscribed Circle (Type 2)
FOV Masking	Optional Software Masking (1080 pixel circle)
FOV, Binocular (diagonal)	35° ±1.7° (Round) °
Overlap	100 %
Pupil Size	5 mm, Non-Real mm
Eye Relief	13mm mm
Geometric Distortion	-5.8% (Barrel)
Accommodation (Fixed Or User Adjustable Range)	-5 to +5 diopter
Convergence Angle	0 °
Brightness (MAX)	46 fL
Brightness Levels	46 (default), 30, 22 fL
Chromaticity (X)	.313
Chromaticity (Y)	.329
Contrast (Min.)	10000:1
Image Defect Criteria	Per 104921 Image Defect Criteria (Sony OLED Products).
	[CONTACT NVIS OR VISIT NVISINC.COM]
Spatial Resolution	1.94 arcmin/pxl

Microdisplay

Display Technology	Organic Light-Emitting Diode (OLED)
Resolution	1920 x 1080
Pixel Format	5.0 μm hexagonal subpixels in RGB Delta Arrangement Pixel pitch: 8.1 μm
Color Depth	24-BIT (8 bits per R,G,B)

Video

Video Input Format	Full HD 1080p 1920 x 1080 @ 60 Hz
Video Interface	2 x HDMI Type A
Latency	<1 ms

Controls

On/Off Control	Powers up when connected to USB power.
Brightness Control	Adjustable via software interface
Display Configuration Control	Custom software over USB

User Input Button(s)	6 Programmable Joystick HID Buttons over USB (Button 1 = Right Proximal Button 2 = Right Middle Button 3 = Right Distal Button 4 = Left Proximal Button 5 = Left Middle Button 6 = Left Distal) (Scout 35) None (Scout 35 (NB))
User Input Scroll Wheel	Yes (Rotating top distally decreases Z value) (Scout 35) None (Scout 35 (NB))
Interpupillary Distance (IPD) Range	54-74 mm
Indicators	
Power On/Off Indicator	Internal, on board only.
Sync (video Signal) Indicator	Internal (LED4 illuminates with correct sync)
Power	
Power Consumption (TYP)	4 (820 mA @ 5 VDC) W
Power Supply	USB or USB Compatible
Power Source	USB host or charger
Power Input	+5V DC, 1 A
Physical	
Size (envelope)	6.53 L x 6.06 W x 2.97 H in (Scout 35) 6.53 L x 6.62 W x 2.97 H in (Scout 35 (NB))
Mass	750 g
Color	Green (Scout 35) Gray (Scout 35 (NB))
Cable Exit	Downward through access door.
Cable Length	4.2 m
Cable Minimum Bend Radius	1 in
Cable Makeup	1 USB 2 HDMI
Tripod Mounting	1/4-20 thread Integrated on bottom of binocular,
Neck Strap	Neoprene strap with 3/8" webbing connectors; adjustable length of 25" to 51" with quick disconnects
Hand Strap(s)	None/Mounting points provided
Trackers Supported	Custom housing IS900 Others: Contact NVIS
Tracker Mounting	Internal
Environment	
Operating Temperature Range	0 - 30 °C
Operating Humidity Range	85% RH, Non-condensing

Storage Temperature Range

-20 - 60 °C

Storage Humidity Range

85% RH, Non-condensing

Compliance

CE Compliance

CE Compliance Pending

RoHS Compliance

RoHS Compliance Pending

Drawings

