

DLA-VS47NV

Laser-Phosphor Illumination
with **a dedicated IR LED engine**
for Stimulated NVG Exercises

8K e-shift
17.7 MP Effective Resolution

120 Hz Frame Rate

Digital Smear Reduction
with Black Frame Insertion

15,000:1 Contrast Ratio



*Shown with optional lens

D-ILA®

8K
e-shift

BLU Escent

Features

- Laser-Phosphor Illumination System with Long Life for Low Operating Cost and Consistent Performance
- New dedicated IR-LED Light Engine for Stimulated NVG
- 3 Active Matrix, 0.69-inch Digital D-ILA Devices
- 4096 × 2160 Native Resolution (8192 × 4320 addressable 8K e-shift mode)
- 3,000 lumens (typical)
- Sequential Contrast Ratio 15,000:1 (typical)
- 12-bit Color Bit Depth via DisplayPort 1.2a Inputs
- 6-axis Color Management System w/12-bit Gamma Correction
- Color Gamut—Default Calibration sRGB / Rec. 709
- Improved Digital Smear Reduction w/120Hz Laser Pulse Control
- Low-latency Signal Processing
- 50 Hz, 60 Hz, 120 Hz Synchronous Operation
- Comprehensive LAN/RS-232-C Control Protocol
- 100%–25% Illumination Control (125 steps)
- Built-in Auto Intensity and Color Calibration for Reduced Maintenance
- Frame-Encoded Dynamic Laser Control (FEDLC)
- User Adjustable Gamma Presets
- Long-life Wiregrid Polarizers and Inorganic Optical Components
- Zoom and Dual Cove Lens Options Available
- Custom Fixed and Adjustable Lens Mount Options Available
- Flexible Orientation - Unlimited Pitch and Roll
- 11 × 11 Matrix, 1/16 pixel Micro-convergence Control
- Easy Access Front Panel for Lens/Mount Access
- USB Firmware Upgrade and Configuration Save/Restore Capability
- Motion Compatible for Simulation Applications

Specifications

Model		DLA-VS47NV
Image device		0.69-inch D-ILA (4096 × 2160 pixels) ×3
Brightness		3,000 ANSI lumens (typical) / 2,400 ANSI lumens (minimum)
Resolution		4096 × 2160 (8192 × 4320 addressable in e-shift mode)
Contrast ratio (sequential)		Visible: 15,000:1 (typical) IR: 13,000:1 (typical)
Uniformity		Greater than 78%
Aperture		8 steps (light aperture)
Gamma control		Standard 2.2 gamma and 3 user adjustable gamma presets
Color management		6-axis adjustable Color management system
Input-supported formats		4096×2160, 3840×2160, 2560×1600, 2048×1536, 1920×1200, 1600×1200, 2048×1080, 1920×1080, 640×480 50 Hz, 60 Hz, 120 Hz Single, Dual stripe, Quad stripe, Quad cross input modes
Latency		<16.6 ms w/120 Hz input, <25 ms w/60 Hz, <30 ms w/50 Hz input
Clear Motion Drive (CMD)		Off, Mode 1–3. Available at 120, 60, and 50 Hz
Color bit depth		12-bit input, 12-bit display
I/O terminals		DisplayPort 1.2a ×4, Sync out (mini jack TTL output) ×1, RS-232-C (D-sub 9-pin male) ×1, LAN terminal (RJ-45 jack) ×1, Remote terminal (stereo mini jack) ×1, USB port (Type A) ×1
Remote control		RS-232-C/LAN fully featured control protocol, Wired/IR remote control
Light source		Blu-Escent Laser/Phosphor: 125-step power setting (25%–100%) IR LED: 125-step IR LED current setting (25%–100%)
IR LED wavelength		750 nm
Light source life		Average 20,000 h at 100% output (depending on the environment)
Screen size		Approx. 60–300 inches (aspect ratio of 4096 × 2160)
Power requirement		100–240 VAC, 50/60 Hz
Power consumption		750 watts, 1.5 watts in standby mode
Calorific value		2,700 kJ/h (648 kcal/h)
Noise level (0°C to 26°C)		<49 dB(A) at 1 m (3.3 ft)
Operating environment		Temperature: 5°C to 35°C Humidity: 20% to 80% (non-condensing)
Storage temperature		–10°C to 60°C
Operating altitude		<2,000 meters for safe operation
Installation orientation		Angle free
Motion platform		Motion compliant
Dimensions (W × H × D)		500 × 235 × 741 mm with feet, 500 × 215 × 741 mm without feet
Weight		Approx. 35 kg
Supplied accessories		Power cord ×2 (US, EU), Remote control, Lens spacer
Approvals	Safety	North America: CSA C22.2 No.60950-1-07, UL60950-1, 2 nd Europe: IEC60950-1:2005/A1:2009/A2:2013, EN60950-1:2006/A11:2009/A1:2010/A12:2011/A2:2013 China: GB4943.1-2011
	Safety (Laser)	North America: IEC60825-1: 2007(2nd edition) The other countries: IEC60825-1: 2014(3rd edition)
	EMC	North America: FCC part 15 subpart B Class A(US), ICES-003 Issue 6 Class A(CAN) Europe: EN61000-3-2, EN61000-3-3, EN55032 (Class A), EN55024 Australia: AS/NZS: CISPR32 Class A China: GB9254-2008, GB17625.1-2012
	Environmental	RoHS North America Proposition 65 (US) Europe WEEE New Battery directive, REACH
Optional product		Calibration Software: PK-CS1601W Short throw zoom lens: GL-MZ4009SZW TR: 0.94–1.30:1, ±50% Vertical offset, ±18% Horizontal offset capability Standard zoom lens: GL-MZ4014SZW TR: 1.27–2.54:1, ±100% Vertical offset, ±40% Horizontal offset Capability Dual cove lens: VSL40FE Motorized lens shift mount: PK-MLS01W

Options



GL-MZ4009SZW

0.94–1.3:1 Zoom Lens



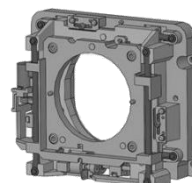
GL-MZ4014SZW

1.27–2.54:1 Zoom Lens



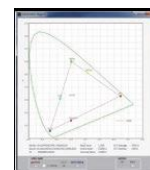
VSL40FE

Dual Cove Lens



PK-MLS01W

Motorized Lens Shift Mount



PK-CS1601W

Calibration Software

Design and specifications are subject to change without notice. All pictures on this brochure are simulated. Please be aware that, because the D-ILA device is manufactured using highly advanced technologies, 0.01% or fewer of the pixels may be non-performing (always on or off). This product is designed for professional use; operator of the product must be a trained professional.

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