Visualization Series D-ILA Projector

DLA-VS4500

Laser-Phosphor Illumination
with Frame-Encoded Dynamic Laser Control

4096 × 2160
Native Resolution

120 Hz Frame Rate

Digital Smear Reduction
with Black Frame Insertion

12,000:1 Contrast Ratio

*Shown with optional lens

D-ILA®

4K

BLUEscent

Features

- Laser-Phosphor Illumination System with Long Life for Low Operating Cost and Consistent Performance
- 3 Active Matrix, 0.69″ Digital D-ILA Devices
- 4096 × 2160 Native Resolution
- 3,000 lumens (typical)
- Sequential Contrast Ratio 12,000:1 (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
- Digital Smear Reduction with 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 (DLC)
- Improved IR Output/Performance for Stimulated NVG
- User Adjustable Gamma Presets
- Long-life Wiregrid Polarizers and Inorganic Optical Components
- Zoom and Dual Cove Lens Options Available
- Custom Fixed Lens Mount Options Available
- Flexible Orientation - Unlimited Pitch and Roll
- 11 × 11 Matrix, 1/16 pixel Micro-convergence Control
- USB Firmware Upgrade and Configuration Save/Restore Capability
- Motion Compatible for Simulation Applications

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Specifications

Model		DLA-VS4500
Image device		0.69-inch D-ILA (4096 x 2160 pixels) x3
Brightness		3,000 ANSI lumens (typical) / 2,400 ANSI lumens (minimum)
Resolution		4096 x 2160
Contrast ratio (sequential)		12,000:1 (typical) / 10,000:1 (minimum)
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		4096x2160, 3840x2160, 2560x1600, 2048x1536, 1920x1200, 1600x1200, 2048x1080, 1920x1080, 640x480
		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 60 and 50 Hz
Color bit depth		12-bit Input, 12-bit display
I/O terminals		DisplayPort 1.2a x4, Sync out (mini jack TTL output) x1, RS-232-C (D-sub 9-pin male) x1, LAN terminal (RJ-45 jack) x1, Remote terminal (stereo mini jack) x1, USB port (Type A) x1
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%)
Light source life		Average 20,000 h at 100% output (depending on the environment)
Screen size		Approx. 60–300 inches (aspect ratio of 4096 x 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 x H x D)		500 x 235 x 719 mm with feet, 500 x 215 x 719 mm without feet
Weight		Approx. 35 kg
Supplied accessories		Power cord x2 (US, EU), Remote control
Approvals	Safety	North America: CSA C22.2 No.60950-1-07, UL60950-1, 2nd 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 5 Class A(CAN) Europe: EN61000-3-2, EN61000-3-3, EN55032 and EN55022(Class A), EN55024 Australia: AS/NZS: CISPR22:2009/A1:2010 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**

Options

GL-MZ4009SZW

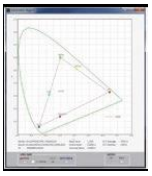
0.94–1.3:1 Zoom Lens

GL-MZ4014SZW

1.27–2.54:1 Zoom Lens

VSL40FE

Dual Cove Lens



PK-CS1601W

Calibration Software

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