DIGITAL PROJECTION
A Delta Associate Company

E-Vision Laser 4K-UHD Black HC

4,200 ANSI / 4,700 ISO Lumens | Contrast Ratio: 18,000:1 (Dynamic Black) 2,000:1 native | Part Number: 118-151

E-VISION LASER 4K
DIGITAL PROJECTOR

THE VISIONARIES CHOICE

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Colour System:	DMD Specification:
Laser Phosphor with colourwheel	Display resolutions 4K-UHD (3840 x 2160) or WQXGA+ (2716 x 1528) 8.3 megapixels on screen at 4K-UHD Fast transit pixels for smooth greyscale and improved contrast.
Display Type:	**Aspect Ratio:** 16:9
1 x 0.67" WQXGA+ TRP UHD DMD™	**Fill Factor** Not applicable: Smooth Picture DMD™

Key Features

Video & Graphics Processing

- HDR processing

- Two projectors in one - 4K-UHD and WQXGA+.

- DisplayPort 1.2.

- 2 x HDMI 2.0.

- 2 x HDMI 1.4b for Dual Pipe processing and Frame Sequential 3D format.

- Sequential Processing: 3D via single HDMI 1.4b input.

- Dual Pipe Processing: 3D Left and Right Eyes via two HDMI 1.4b inputs.

- Synchronisation of active glasses.

- 3G-SDI with loop-through.

- DICOM simulation mode.

Geometry Correction

- Cornerstone, Vertical & Horizontal Keystone, Pincushion & Barrel, Arc and Image Rotation.

- Non-linear warp.

- Digital zoom, pan and scan.

- Blanking control for custom input window sizing.

- Scaling available for fixed aspect ratio screens.

- Unscaled processing for pixel mapped display.

Edge Blending

- Blending control available for all sides with width control.

- Correction for non-active pixels at the edge of the display.

Picture in Picture

- Two sources can be displayed simultaneously using 2D inputs: either picture in picture (PIP), or side by side (PBP), with original aspect ratios maintained.

HDBaseT® Interface

- Built in support for reception of uncompressed High Definition Video over standard CAT5e/6 LAN cable.

- Allows projector to be placed up to 100m from source with low cost cabling.

- Supports up to 4K UHD 3840 x 2160@60Hz 4:2:0 or 4K UHD 3840 x 2160@30Hz 4:4:4

Colour Processing

- Four colour modes available.

- Powerful seven point colour correction for accurate colour matching with presets.

- Easy colour temperature selection.

- Manual seven point colour adjustment.

- Traditional lifts and gains.

Projector Controller Software

- Intuitive user interface for network control.

- Simultaneous control of user-defined groups of projectors.

- At-a-glance monitoring of projector status.

Projector Automation

- Real-time clock provides daily on/off automation.

- E-mail alerts for system status.

Source Compatibility:

2D graphics standards up to 4K-UHD 3840 x 2160 resolution at 60Hz via HDMI 2.0, HDBaseT (4:2:0) and DisplayPort

inputs.

3D graphics standards up to WQXGA at 120Hz DualPipe via HDMI 1.4b inputs.

3GSDI is SMPTE 292M, SMPTE 259M-C and SMPTE 424M compliant.

WQXGA+ mode

2D sources up to WQXGA+ at 120Hz can be displayed scaled to fit WQXGA+.

3D sources up to WQXGA at 120Hz can be displayed scaled to fit WQXGA+.

4K-UHD mode

2D sources up to 4K-UHD will be displayed scaled to fit 4K-UHD.

Auto mode

Sources greater than WQXGA+ will be displayed scaled to fit 4K-UHD.

Sources up to WQXGA+ will be displayed scaled to fit WQXGA+.

Inputs/Outputs

Video & Computer

Type	Connector	Qty
DisplayPort 1.2 (2D)	DisplayPort	1
HDMI 1.4b (3D)	HDMI	2
HDMI 2.0 (2D)	HDMI	2
3G-SDI in (2D)	BNC	1
3G-SDI out	BNC	1
HDBaseT (see LAN) (2D)	RJ45	1

Communication & Control

Type	Connector	Qty
3D Sync Out	BNC	1
3D Sync In	BNC	1
LAN	RJ45	2
RS232	9-pin D Sub	1
Wired Remote	3.5mm Stereo Jack	1
12V Trigger	3.5mm Stereo Jack	2
3D Sync IR Out	BNC	1

NOTE: One of the LAN ports is shared with HDBase-T.

3D Formats Supported

Frame Sequential

Dual-Pipe

HDTV Formats Supported

1080p (24Hz, 25Hz, 30Hz, 50Hz, 60Hz, 100Hz, 120Hz)

1080i (50Hz, 60Hz)

720p (50, 60Hz)

2K (24Hz, 25Hz, 30Hz, 50Hz, 60Hz)

4K-UHD (24Hz, 25Hz, 30Hz, 50Hz, 60Hz)

Computer Compatibility

2D

4K-UHD up to 60Hz.

WQXGA+ up to 120Hz.

3D

Supported formats will be displayed within WQXGA+.

Bandwidth

498 megapixels per second via DisplayPort and HDMI 2.0.

Remote Control

Addressable IR remote control, wireless and wired.

On-Board keypad

Automation Control

Crestron RoomView® Connected

PJLink Class 1

LAN

RS232

AMX (Device Discovery)

Served web pages (projector status, projector control, Crestron RoomView®, network settings, alert mail setup, time setup, error log, On Screen Display)

Colour Temperature

3200K to 9300K

Operation

illumination Type

Laser Light Source

Typical illumination Life

20,000 hours

Lenses

Lens	Part No.	Optimised Focus Range*	Lens Shift
0.74 - 0.93 :1 zoom	118-679	1.02m - 12.7m	Vert: 0.5 (U) 0.3 (D) frame, Hor: 0.1 (L) 0.2 (R) frame
1.24 - 1.78 :1 zoom	118-563	1.33m - 11.73m	Vert: 0.5 (U) 0.3 (D) frame, Hor: 0.1 (L) 0.2 (R) frame
1.71 - 2.25 :1 zoom	118-562	1.83m - 14.9m	Vert: 0.5 (U) 0.3 (D) frame, Hor: 0.1 (L) 0.2 (R) frame
2.20 - 3.67 :1 zoom	118-680	2.36m - 24.2m	Vert: 0.5 (U) 0.3 (D) frame, Hor: 0.1 (L) 0.2 (R) frame

* Lens focal ranges above are the optimised distances but are likely to focus further, please contact your RSM for more details. Lens ratio tolerances: E-Vision Series: +/-3%. HighLite Series: +/- 5%. M-Vision Series: +/- 2%. Titan Series: +/-2%, INSIGHT Series: +/-2%,

Lens Mount

Motorised and programmable shift, zoom and focus.
Intelligent Lens Memory with 10 user-definable preset positions (except UST lens).

Mechanical Mounting	Orientation	
Front/Rear Table	**Table Top or Inverted:** Yes	
Front/Rear Ceiling	**Pointing Up:** Yes	
Adjustable Front/Rear Feet	**Pointing Down:** Yes	
	Roll (Portrait): Yes	

Power Requirements	Power Consumption
100-130VAC and 200-240VAC selectable, 50/60Hz single phase	950 W @220 Vac (1000 W @110 Vac)

Thermal Dissipation	Fan Noise
Max 3139 BTU/hour @100 VAC	**Smooth Picture On:**
Max 3002 BTU/hour @240 VAC	*Normal mode*: typical 40 (max 42) dBA
	Eco2 mode: typical 37 (max 39) dBA
	Smooth Picture Off:
	Normal mode: typical 38 (max 40) dBA
	Eco2 mode: typical 34 (max 36) dBA

Operating/Storage Temperature	Operating Humidity
Operating: 5 to 40C (41 to 104F) Storage: -10 to 60C (14 to 140F)	10 to 85% non-condensing

Weight (Chassis Only)	Dimensions
28.15 kg 62 lb	L: 59.83 cm x W: 50 cm x H: 21.85 cm L: 23.55 in x W: 19.68 in x H: 8.60 in

Safety & EMC Regulations

CE, FCC Class A, CCC, UL/cUL, FDA CB, KC, CEL, CECP

Accessories

Accessory	Part No.
Infrared Remote (replacement)	117-880

Dimensions included for reference only and are subject to change. Please download the full set of CAD files for this display for more accurate information.

Downloads

[PDF CAD Drawings](#)	[User Guides](#)
[AUTOCAD Drawings](#)	[Laser Risk Group Document](#)
[STEP / IGS Drawings](#)	[Important Information](#)
[Lens CAD Drawings](#)	[Important Information (Korean)](#)
	[Control Protocol](#)
	[Ultra Short Throw Lens](#)
	[Ultra Short Throw Lens Installation Guide](#)

Certificate Number 13629
ISO 9001

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