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DIGITAL PROJECTION
A Delta Associate Company

Specification Sheet

E-Vision Laser 13000 WU

12,000 ANSI / 13,500 ISO Lumens | Contrast Ratio: 10,000:1 (Dynamic Black) 1,000:1 native | Part Number: 119-734

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Colour System:	DMD Specification:
Blue and Red Lasers with Phosphor wheel and 3-segment colour wheel	1920 x 1200 pixels native display. Fast transit pixels for smooth greyscale and improved contrast.
Display Type:	**Aspect Ratio:**
1 x 0.67" DarkChip™ DMD™	16x10
	Fill Factor
	87%

Key Features

Red Laser Assist

- Uses blue and red laser diodes for increased colour fidelity and highly accurate colurs

Video & Graphics Processing

- HDMI 1.4b for Side by Side, Frame Packing, Frame Sequential & Top Bottom 3D formats.
- Dual Flash Processing can be used to multiply the displayed frame rate for 3D sources
- Dual Pipe Processing: Two sources in parallel for Left and Right eyes.
- Synchronisation of active glasses.
- 3GSDI with loop-through.
- 24p and 1080p native display.
- DICOM simulation mode.

Geometry Correction

- Cornerstone, Vertical & Horizontal Keystone, Pincushion & Barrel, and Image Rotation.
- Blanking control for custom input window sizing.
- Scaling for fixed aspect ratio screens.

Edge Blending

- For independent edge and blend width adjustment.

Picture in Picture

- Two sources can be displayed either one within the other (PIP), or side by side, with original aspect ratios maintained.

HDBaseT® Interface

- Built in support for reception of uncompressed High Definition Video over standard CAT5e/6 LAN cable.
- Allows the projector to be placed up to 100m from the source with low cost cabling.

Colour Processing

- Powerful seven point colour correction for accurate colour matching.

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.

Projector Maintenance Features

- Sealed optics.
- Long life 20,000 hour illumination.

Source Compatibility:

3GSDI is SMPTE 292M, SMPTE 259M-C and SMPTE 424M compliant.
HDMI including Deep Color™ processing.
Graphics standards up to 1920 x 1200 resolution at 60Hz via HDMI, DisplayPort or VGA.
Component Video (SD and HD) via RGBHV.

Inputs/Outputs

Video & Computer

Type	Connector	Qty
DVI-D 1.0	DVI	1

Communication & Control

Type	Connector	Qty
3D Sync Out	BNC	1

DisplayPort 1.1a	DisplayPort	1	3D Sync In	BNC	1
HDMI 1.4b	HDMI	2	LAN	RJ45	1
3G-SDI in	BNC	1	RS232	9-pin D-Sub	1
3G-SDI out	BNC	1	Wired Remote	3.5mm Stereo Jack	1
VGA / Analog RGB	15-pin D-Sub	1	12V Trigger	3.5mm Stereo Jack	2
VGA Monitor out	15-pin D-Sub	1			
Component Video	5 x BNC	1	**NOTE: The LAN port is shared with HDBase-T.**		
HDBaseT (see LAN)	LAN RJ45	1			

3D Formats Supported

Frame Packing
Dual Pipe
Frame Sequential
Side By Side (half)
Top and Bottom

HDTV Formats Supported

1080p (24Hz, 25Hz, 30Hz, 50Hz, 60Hz),1080i (50Hz, 60Hz), 720p (50, 60Hz)

Computer Compatibility

Up to 1920 x 1200

Bandwidth

165 MHz on analog RGB
165 Megapixels per second on HDMI

Remote Control

Addressable IR remote control, wireless and wired.
On-Board keypad.

Automation Control

Crestron RoomView® Connected
PJLink Class 1
LAN
RS-232
AMX (Device Discovery)
Served web page

Colour Temperature

3200 to 9300K

Operation

24x7 OPERATION

illumination Type

Blue and Red Laser Light Source

Typical illumination Life

20,000 hours

Lenses

Lens	Part No.	Optimised Focus Range*	Lens Shift
0.38 :1 fixed	117-341	0.68m - 2.44m	Depends on image size, see Installation Guide.
0.75 - 0.93 :1 zoom	115-339	1.02m - 12.7m	Vert: 0.5 (U) 0.3 (D) frame, Hor: 0.1(L) 0.2 (R) frame
0.76 :1 fixed	112-499	0.81m - 5.08m	none
1.25 - 1.79 :1 zoom	112-500	1.33m - 11.73m	Vert: 0.5 (U) 0.3 (D) frame, Hor: 0.1(L) 0.2 (R) frame
1.73 - 2.27 :1 zoom	112-501	1.83m - 14.9m	Vert: 0.5 (U) 0.3 (D) frame, Hor: 0.1(L) 0.2 (R) frame
2.22 - 3.67 :1 zoom	112-502	2.36m - 24.2m	Vert: 0.5 (U) 0.3 (D) frame, Hor: 0.1(L) 0.2 (R) frame
3.58 - 5.38 :1 zoom	112-503	3.8m - 35.35m	Vert: 0.5 (U) 0.3 (D) frame, Hor: 0.1(L) 0.2 (R) frame
5.31 - 8.26 :1 zoom	112-504	5.59m - 54.8m	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

Front/Rear Table
Front/Rear Ceiling
Adjustable Front/Rear Feet

Orientation

Table Top or Inverted: Yes
Pointing Up: Yes
Pointing Down: Yes
Roll (Portrait): Yes

Power Requirements

200-240VAC 50/60Hz single phase 7.8A
100-130VAC 50/60Hz single phase 11.5A
Note: that in 100-130VAC operation, the projector will be at 70% brightness

Power Consumption

Typical 1470W @ 240VAC in Normal mode
Typical 1220W @ 240VAC in ECO mode
Typical 1510W @ 240VAC in High Altitude mode
Typical 1060W @ 110VAC in Normal mode
Typical 1050W @ 110VAC in ECO mode
Typical 1110W @ 110VAC in High Altitude mode

Thermal Dissipation	Fan Noise
Typical 5016 BTU/Hour @ 240VAC in Normal mode Typical 4163 BTU/Hour @ 240VAC in ECO mode Typical 5152 BTU/Hour @ 240VAC in High Altitude mode Typical 3617 BTU/Hour @ 110VAC in Normal mode Typical 3583 BTU/Hour @ 110VAC in ECO mode Typical 3787 BTU/Hour @ 110VAC in High Altitude mode	Normal mode: 48 dBA Max, 46 dBA Typical Eco mode: 44 dBA Max, 42 dBA Typical High Altitude Normal mode: 59 dBA Max, 57 dBA Typical High Altitude Eco Mode: 59 dBA Max, 57 dBA Typical
Operating/Storage Temperature	**Operating Humidity**
Operating: 0 to 35C (32 to 95F) Operating: 35 to 40C (95 to 104F) w/ reduced light output Storage: -20 to 60C (-4 to 140F)	10 to 90% relative, non-condensing
Weight (Chassis Only)	**Dimensions**
31 kg 68.3 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	
UL / cUL, BIS, CB, CCC, KC, FCC (Part 15) Class A, FDA (Accession Number),CE, RoHS 2, IEC EN 60825-1-2014 Class 3R Laser Product, IEC EN 60825-1-2007 Class 1 Laser Product IEC EN 62471-5-2015 Risk Group 3	

Accessories

Accessory	Part No.
Infrared Remote (replacement)	117-780

**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

AUTOCAD Drawings

STEP / IGS Drawings

Lens CAD Drawings

User Guides

User Guides (German)

User Guides (French)

Laser Risk Group Document

Important Information

Important Information (German)

Important Information (French)

Control Protocol

Ultra Short Throw Lens

Ultra Short Throw Lens Installation Guide

Certificate Number 13629
ISO 9001

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