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M-VISION LASER 18K DIGITAL PROJECTOR

THE VISIONARIES CHOICE



M-Vision Laser 18K WUXGA

16,000 ANSI / 18,000 ISO Lumens | Contrast Ratio: 10,000:1 (Dynamic Black) | Part Number: 120-605

Key Specifications:

Colour System:	Blue Laser Phosphor + 4-segment colour wheel
Display Type:	1 x 0.96" DarkChip™ DMD™
Display Type:	1 x 0.48" DMD™
DMD Specification:	1920 x 1200 pixels native display. Fast transit pixels for smooth greyscale and improved contrast.
Aspect Ratio:	16x10
Fill Factor	
Key Features:	<p>Video & Graphics Processing</p> <ul style="list-style-type: none">• HDMI 1.4b for Side by Side, Frame Packing, Frame Sequential & TopBottom 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.• 3G-SDI with loop-through.• 24p and 1080p native display. <p>Geometry Correction</p> <ul style="list-style-type: none">• Cornerstone, Vertical & Horizontal Keystone, Pincushion & Barrel, and Image Rotation.• Blanking control for custom input window sizing.• Scaling for fixed aspect ratio screens.

Edge Blending

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

Picture in Picture

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

HDBaseT® Interface

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

Installation

- Integrated stacking mount pins.
- Eye bolts included for easy rigging.

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 or DisplayPort.

Inputs/Outputs

Video & Computer		
Type	Connector	Qty
DisplayPort 1.1a	DisplayPort	2
HDMI 1.4a	HDMI	2
3G-SDI in	BNC	1
3G-SDI out	BNC	1
HDBaseT (see LAN)	LAN RJ45	1
.		
Communication & Control		
Type	Connector	Qty
3D Sync Out	BNC	1
3D Sync In		
LAN	BNC	1
RS232	RJ45	1
Wired Remote	9-pin D-Sub	1
12V Trigger	3.5mm Stereo Jack	1
	3.5mm Stereo Jack	2
NOTE: The HDBaseT and LAN ports are not shared.		

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 (50Hz, 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 RS232 AMX (Device Discovery) Served web page																								
Colour Temperature	3200K to 9300K																								
Operation																									
illumination Type	Laser Light Source																								
Typical illumination Life	20,000 hours																								
Lenses	<table border="1"> <thead> <tr> <th>Lens</th> <th>Part No.</th> <th>Optimised Focus Range*</th> <th>Lens Shift (Frame)</th> </tr> </thead> <tbody> <tr> <td>0.9 - 1.2 : 1 zoom</td> <td>120-624</td> <td>0.92m - 13.46m</td> <td>Vert: 0.45 (U) 0.45 (D) frame, Hor: 0.15 (L) 0.15 (R) frame</td> </tr> <tr> <td>1.20 - 1.56 : 1 zoom</td> <td>120-625</td> <td>1m - 17.5m</td> <td>Vert: 0.5 (U) 0.5 (D) frame, Hor: 0.15 (L) 0.15 (R) frame</td> </tr> <tr> <td>1.50 - 2.00 : 1 zoom</td> <td>120-626</td> <td>2m - 21.8m</td> <td>Vert: 0.5 (U) 0.3 (D) frame, Hor: 0.15 (L) 0.15 (R) frame</td> </tr> <tr> <td>2.00 - 4.00 : 1 zoom</td> <td>120-627</td> <td>2.5m - 41.8m</td> <td>Vert: 0.5 (U) 0.3 (D) frame, Hor: 0.15 (L) 0.15 (R) frame</td> </tr> <tr> <td>4.00 - 7.00 : 1 zoom</td> <td>120-628</td> <td>4m - 42m</td> <td>Vert: 0.5 (U) 0.3 (D) frame, Hor: 0.15 (L) 0.15 (R) frame</td> </tr> </tbody> </table> <p>* 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%,</p>	Lens	Part No.	Optimised Focus Range*	Lens Shift (Frame)	0.9 - 1.2 : 1 zoom	120-624	0.92m - 13.46m	Vert: 0.45 (U) 0.45 (D) frame, Hor: 0.15 (L) 0.15 (R) frame	1.20 - 1.56 : 1 zoom	120-625	1m - 17.5m	Vert: 0.5 (U) 0.5 (D) frame, Hor: 0.15 (L) 0.15 (R) frame	1.50 - 2.00 : 1 zoom	120-626	2m - 21.8m	Vert: 0.5 (U) 0.3 (D) frame, Hor: 0.15 (L) 0.15 (R) frame	2.00 - 4.00 : 1 zoom	120-627	2.5m - 41.8m	Vert: 0.5 (U) 0.3 (D) frame, Hor: 0.15 (L) 0.15 (R) frame	4.00 - 7.00 : 1 zoom	120-628	4m - 42m	Vert: 0.5 (U) 0.3 (D) frame, Hor: 0.15 (L) 0.15 (R) frame
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Lens Mount	Motorised shift, zoom and focus, with programmable shift																								
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	100 - 240VAC 50/60Hz single phase * Note that in 120V operation, the projector will be at 65% brightness					
Power Consumption	Typical 2000W @ 240VAC in Normal mode Typical 1200W @ 240VAC in ECO mode Typical 1200W @ 110VAC in Normal mode Typical 1000W @ 110VAC in ECO mode					
Thermal Dissipation	Typical 6482 BTU/Hour @ 220VAC in Normal mode Typical 3753 BTU/Hour @ 110VAC in Normal mode					
Fan Noise	Normal mode: 45 dBA max, 42 dBA typical Eco mode: 42 dBA max, 39dBA typical					
Operating/Storage Temperature Operating:	Operating: 0 to 40C (32 to 104F) Storage: -20 to 60C (-4 to 140F)					
Operating Humidity	10% to 90% relative, non-condensing					
Weight	49 kg / 108 lbs					
Dimensions	H: 24.8 cm W: 53.0 cm L: 69.5 cm H: 9.8 in W: 20.9 in L: 27.4 in					
Safety & EMC Regulations	UL/cUL, CB, CCC, FCC Class A , CE, RoHS 2 IEC EN 60825-1:2014 Class 1 Laser Product IEC 60825-1:2007 Class 3R Laser Product IEC EN 62471-5:2015 Risk Group 3					
Accessories	<table border="1"> <thead> <tr> <th>Accessory</th> <th>Part No.</th> </tr> </thead> <tbody> <tr> <td>Infrared Remote (replacement)</td> <td>117-780</td> </tr> </tbody> </table> <p><i>*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.</i></p>		Accessory	Part No.	Infrared Remote (replacement)	117-780
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Infrared Remote (replacement)	117-780					
Downloads	PDF CAD Drawings AUTOCAD Drawings STEP / IGS Drawings Lens CAD Drawings					
User Guide	User Guides User Guides (Korean) Laser Risk Group Document Important Information Control Protocol					



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Certificate Number 13629
ISO 9001