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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: 118-053**

### Key Specifications:

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Colour System:</b>     | Blue Laser Phosphor + 4-segment colour wheel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Display Type:</b>      | 1 x 0.96" DarkChip™ DMD™                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Display Type:</b>      | 1 x 0.48" DMD™                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>DMD Specification:</b> | 1920 x 1200 pixels native display.<br>Fast transit pixels for smooth greyscale and improved contrast.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Aspect Ratio:</b>      | 16x10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Fill Factor</b>        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Key Features:</b>      | <b>Video &amp; Graphics Processing</b> <ul style="list-style-type: none"><li>• HDMI 1.4b for Side by Side, Frame Packing, Frame Sequential &amp; TopBottom 3D Formats.</li><li>• Dual Flash Processing can be used to multiply the displayed frame rate for 3D sources.</li><li>• Dual Pipe Processing: Two sources in parallel for Left and Right eyes.</li><li>• Synchronisation of active glasses.</li><li>• 3G-SDI with loop-through.</li><li>• 24p and 1080p native display.</li></ul> <b>Geometry Correction</b> <ul style="list-style-type: none"><li>• Cornerstone, Vertical &amp; Horizontal Keystone, Pincushion &amp; Barrel, and Image Rotation.</li><li>• Blanking control for custom input window sizing.</li><li>• Scaling for fixed aspect ratio screens.</li></ul> |

### 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                                                    |                   |     |
| RS232                                                  |                   |     |
| Wired Remote                                           |                   |     |
| 12V Trigger                                            | 9-pin D-Sub       | 1   |
|                                                        | 3.5mm Stereo Jack | 1   |
|                                                        | 3.5mm Stereo Jack | 2   |
| <b>NOTE: The HDBaseT and LAN ports are not shared.</b> |                   |     |

### 3D Formats Supported

Frame Packing

|                           | Dual Pipe<br>Frame Sequential<br>Side By Side (half)<br>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<br>165 Megapixels per second on HDMI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                        |                                                             |                        |                    |                    |         |                |                                                             |                      |         |            |                                                           |                      |         |            |                                                           |                      |         |              |                                                           |                      |         |          |                                                           |
| Remote Control            | Addressable IR Remote Control, wireless and wired<br>On-Board keypad                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                        |                                                             |                        |                    |                    |         |                |                                                             |                      |         |            |                                                           |                      |         |            |                                                           |                      |         |              |                                                           |                      |         |          |                                                           |
| Automation Control        | Crestron RoomView® Connected<br>PJLink Class 1<br>LAN<br>RS232<br>AMX (Device Discovery)<br>Served web page                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                        |                                                             |                        |                    |                    |         |                |                                                             |                      |         |            |                                                           |                      |         |            |                                                           |                      |         |              |                                                           |                      |         |          |                                                           |
| Colour Temperature        | 3200K to 9300K                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                        |                                                             |                        |                    |                    |         |                |                                                             |                      |         |            |                                                           |                      |         |            |                                                           |                      |         |              |                                                           |                      |         |          |                                                           |
| Operation                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                        |                                                             |                        |                    |                    |         |                |                                                             |                      |         |            |                                                           |                      |         |            |                                                           |                      |         |              |                                                           |                      |         |          |                                                           |
| illumination Type         | Laser Light Source                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                        |                                                             |                        |                    |                    |         |                |                                                             |                      |         |            |                                                           |                      |         |            |                                                           |                      |         |              |                                                           |                      |         |          |                                                           |
| Typical illumination Life | 20,000 hours                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                        |                                                             |                        |                    |                    |         |                |                                                             |                      |         |            |                                                           |                      |         |            |                                                           |                      |         |              |                                                           |                      |         |          |                                                           |
| Lenses                    | <table><tr><th>Lens</th><th>Part No.</th><th>Optimised Focus Range*</th><th>Lens Shift (Frame)</th></tr><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></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 |
| 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   |                        |                    |                    |         |                |                                                             |                      |         |            |                                                           |                      |         |            |                                                           |                      |         |              |                                                           |                      |         |          |                                                           |
| Lens Mount                | Motorised shift, zoom and focus, with programmable shift                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                        |                                                             |                        |                    |                    |         |                |                                                             |                      |         |            |                                                           |                      |         |            |                                                           |                      |         |              |                                                           |                      |         |          |                                                           |
| Mechanical Mounting       | Front/Rear Table<br>Front/Rear Ceiling<br>Adjustable Front/Rear Feet                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                        |                                                             |                        |                    |                    |         |                |                                                             |                      |         |            |                                                           |                      |         |            |                                                           |                      |         |              |                                                           |                      |         |          |                                                           |
|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                        |                                                             |                        |                    |                    |         |                |                                                             |                      |         |            |                                                           |                      |         |            |                                                           |                      |         |              |                                                           |                      |         |          |                                                           |

|                                                                                                                                                              |                                                                                                                                                                                               |          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| Orientation                                                                                                                                                  | Table Top or Inverted: Yes<br>Pointing Up: Yes<br>Pointing Down: Yes<br>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<br>Typical 1200W @ 240VAC in ECO mode<br>Typical 1200W @ 110VAC in Normal mode<br>Typical 1000W @ 110VAC in ECO mode                                    |          |
| Thermal Dissipation                                                                                                                                          | Typical 6482 BTU/Hour @ 220VAC in Normal mode<br>Typical 3753 BTU/Hour @ 110VAC in Normal mode                                                                                                |          |
| Fan Noise                                                                                                                                                    | Normal mode: 45 dBA max, 42 dBA typical<br>Eco mode: 42 dBA max, 39dBA typical                                                                                                                |          |
| Operating/Storage Temperature:                                                                                                                               | Operating: 0 to 40C (32 to 104F)<br>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<br>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<br>IEC EN 60825-1:2014 Class 1 Laser Product<br>IEC 60825-1:2007 Class 3R Laser Product<br>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                                                                                                                                                    | <a href="#">PDF CAD Drawings</a><br><a href="#">AUTOCAD Drawings</a><br><a href="#">STEP / IGS Drawings</a><br><a href="#">Lens CAD Drawings</a>                                              |          |
| User Guide                                                                                                                                                   | <a href="#">User Guides</a><br><a href="#">User Guides (Korean)</a><br><a href="#">Laser Risk Group Document</a><br><a href="#">Important Information</a><br><a href="#">Control Protocol</a> |          |



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