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# M-VISION 24000 WU DIGITAL PROJECTOR

THE VISIONARIES CHOICE



## M-Vision 24000 WU (Preliminary)

**24,000 ISO / 21,600 ANSI Lumens | Contrast Ratio: 10,000:1 (Dynamic Black) | Part Number: 123-539**

### Key Specifications:

<b>Colour System:</b>	Blue + Red Laser illumination
<b>Display Type:</b>	1 x 0.96" DarkChip 3™ DMD™
<b>DMD Specification:</b>	1920 x 1200 pixels native display. Fast transit pixels for smooth greyscale and improved contrast.
<b>Aspect Ratio:</b>	16x10
<b>Fill Factor</b>	
<b>Key Features:</b>	<p><b>ColorBoost+Red Laser</b></p> <ul style="list-style-type: none"><li>• Uses red laser diodes for increased colour fidelity and highly accurate colours</li></ul> <p><b>Video &amp; Graphics Processing</b></p> <ul style="list-style-type: none"><li>• HDMI 2.0 compliance for Side by Side, Frame Packing, Frame Sequential and TopBottom 3D Formats.</li><li>• DisplayPort 1.2 with HDCP 2.2 compliance.</li><li>• 10-bit colour processing (30-bits per pixel).</li><li>• Support for 1080p 24Hz native display.</li><li>• Support for 4K 4096 x 2160 resolution.</li><li>• HDR support</li><li>• Input source automatically detected.</li><li>• Input redundancy mode with auto switching.</li><li>• Dual Pipe Processing: Two sources in parallel for Left and Right eyes.</li></ul>

- Synchronisation of active 3D glasses or polarising switcher.
- DICOM simulation mode.
- Sealed light engine

### Geometry Correction

- Vertical & Horizontal Keystone correction.
- Four Corner adjustment.
- Rotation.
- Pin/Barrel.
- Wall Corner adjustment.
- Centre Shift (Horizontal and Vertical linearity adjustment).
- Custom Warp.
- Upload of maps for warp, blend, uniformity and masking.
- Selectable aspect ratios: 5:4 / 4:3 / 16:10 / 16:9 / 1.88 / 2.35 / TheaterScope / Source / Unscaled.
- Digital Zoom.
- Blanking control for custom input window sizing.

### Edge Blending

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

### 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.
- HDBaseT® Includes Ethernet 100BaseT and RS232/IR control.

### 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

- 4 x eye bolts included for easy rigging.
- 4 x top stacking mounts and mount securing pins
- IP6X sealed optics.

### Source Compatibility

12G-SDI single link - SMPTE 292M (HD), SMPTE 424M (3G), SMPTE 2081 (6G), SMPTE 2082 (12G).

### Inputs/Outputs

Video & Computer		
Type	Connector	Qty
DisplayPort 1.2	DisplayPort	2
HDMI 2.0	HDMI	2
HDBaseT	RJ45	1
12G-SDI In	BNC	1
12G-SDI Out (loopthrough)	BNC	1

	Communication & Control			
	Type	Connector	Qty	
	3D Sync In	BNC	1	
	3D Sync Out	BNC	1	
	3D Sync IR	BNC	1	
	Ethernet / Art-Net	EtherCON RJ45	1	
	HDBaseT/Ethernet/RS232/IR	RJ45	1	
	Serial In RS-232C	9-pin D-Sub	1	
	Wired Remote In	3.5mm Stereo Jack	1	
	Wired Remote Out	3.5mm Stereo Jack	1	
	12V Trigger	3.5mm Stereo Jack	1	
	USB Power out 5V/2A	USB Type A	1	
<b>3D Formats Supported</b>	Frame Packing Dual Pipe Frame Sequential Side By Side (half) Top and Bottom  Compatible with polarised 3D glasses			
<b>HDTV Formats Supported</b>	EDTV (480p, 576p,) HDTV (720p, 1080i, 1080p, UHD, DCI 4K), Display Support for 4K-UHD 3840 x 2160 60HZ and up to 4096 x2160 60Hz.			
<b>Computer Compatibility</b>	VGA, SVGA, XGA, SXGA, SXGA+, WXGA, UXGA, WUXGA, Support for WQXGA			
<b>Bandwidth</b>	18Gb/s (600MHz clock rate) on HDMI			
<b>Remote Control</b>	Addressable IR Remote Control, wireless and wired On-Board keypad			
<b>Automation Control</b>	LAN RS-232 Alert E-Mails from Projector Served webpage OSD functions for full Projector Control via web browser LAN Control-Crestron Roomview™ LAN Control-Crestron eControl LAN Control-PJ Link compatible LAN Control-AMX SSDP LAN to RS232 (RS232 by Telnet) Concurrence Control for RS232/LAN DMX Art-Net control Scheduled On and Off times			
<b>Colour Temperature</b>	User selectable: 3200K / 5400K / 6500K / 7500K / 9300K / Native			
<b>Operation</b>				
<b>illumination Type</b>	MCL Blue Laser Light Source and MCL Red Laser Light Source with Custom light output setting range: 30% - 100% Constant Brightness mode.			
<b>Typical illumination Life</b>	20,000 hours			
<b>Lenses</b>	<b>Lens</b>	<b>Part No.</b>	<b>Optimised Focus Range*</b>	<b>Lens Shift (Frame)</b>
	0.38:1 fixed	123-417	1.6m - 5m	Vert: 0.50 (U) 0.50 (D) frame, Hor: 0.025

			(L) 0.025 (R) frame
0.9 - 1.2 : 1 zoom	120-624	0.92m - 10.6m	Vert: 0.45 (U) 0.45 (D) frame, Hor: 0.15 (L) 0.15 (R) frame
1.20 - 1.56 : 1 zoom	120-625	0.95m - 17.47m	Vert: 0.5 (U) 0.5 (D) frame, Hor: 0.15 (L) 0.15 (R) frame
1.50 - 2.00 : 1 zoom	120-626	1.24m - 16.4m	Vert: 0.5 (U) 0.3 (D) frame, Hor: 0.15 (L) 0.15 (R) frame
2.00 - 4.00 : 1 zoom	120-627	1.82m - 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	4.38m - 74.5m	Vert: 0.5 (U) 0.3 (D) frame, Hor: 0.15 (L) 0.15 (R) frame
6.9 - 10.3 : 1 zoom	123-418	12m - 80m	Vert: 0.5 (U) 0.5 (D) frame, Hor: 0.15 (L) 0.15 (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%,

<b>Lens Mount</b>	Motorised Shift, Zoom and Focus. Intelligent Lens Memory with 10 user-definable pre-set positions.
<b>Mechanical Mounting</b>	Front/Rear Table Front/Rear Ceiling Adjustable Front/Rear Feet
<b>Orientation</b>	<b>Table Top or Inverted:</b> Yes <b>Pointing Up:</b> Yes <b>Pointing Down:</b> Yes <b>Roll (Portrait):</b> Yes
<b>Power Requirements</b>	200 240VAC 50/60Hz single phase 10.6A 110 - 130VAC 50/60Hz single phase 11.1A
<b>Power Consumption</b>	Typical 1450W @ 220VAC in Normal Mode Typical 850W @ 110VAC in Normal mode
<b>Thermal Dissipation</b>	Typical 4949 BTU/Hour @ 220VAC in Normal mode Typical 2901 BTU/Hour @ 110VAC in Normal mode
<b>Fan Noise</b>	Normal mode: 50 dBA max, 48 dBA typical Eco mode: 48 dBA max, 46dBA typical
<b>Operating/Storage Temperature Operating:</b>	Operating: 0 to 40 °C (32 to 104 °F) Operating: 33 - 35 °C (91.4 - 95 °F) Projector automatically set to 90% laser power mode Operating: 35 - 40 °C (95 - 104 °F) Projector automatically set to eco mode Storage: -20 to 60 °C (-4 to 140 °F)
<b>Operating Humidity</b>	90% (with maximum temperature of 35 °C) non-condensing
<b>Weight</b>	47.2 kg / 104.1 lbs
<b>Dimensions</b>	<b>Projector Dimensions (Including handles and feet)</b> L: 768.4mm x W: 598.8mm x H: 302.75mm L: 30.25 inch x W: 23.57 inch x H: 11.92 inch

	<p><b>Projector Dimensions (Excluding handles)</b>  L: 669.4mm x W: 598.8mm x H: 302.75mm  L: 26.35 inch x W: 23.57 inch x H: 11.92 inch</p> <p><b>Carton Dimensions</b>  944mm x W: 758mm x H: 516mm  L: 37.17 inch x W: 29.84 inch x H: 20.31 inch</p>				
<b>Safety &amp; EMC Regulations</b>	CB report, cTUVus, CE (European Economic Area), UKCA (United Kingdom), CCC (China), FCC Class A (USA), FDA, KC (Korea), BSMI (Taiwan), RCM (Australia), BS IEC EN 60825-1:2014 Class 1 Laser Product, BS IEC EN 62471-5:2015 RG3, IEC 62471-5: Ed. 1.0 RG2 (for REF version employing RG2 lenses), GB 7247.1-2012				
<b>Accessories</b>	<table border="1"> <thead> <tr> <th>Accessory</th> <th>Part No.</th> </tr> </thead> <tbody> <tr> <td colspan="2">*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.</td> </tr> </tbody> </table>	Accessory	Part No.	*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.	
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<b>Downloads</b>	<p><a href="#">PDF CAD Drawings</a></p> <p><a href="#">AUTOCAD Drawings</a></p> <p><a href="#">STEP / IGS Drawings</a></p> <p><a href="#">Lens CAD Drawings</a></p>				
<b>User Guide</b>	<p><a href="#">User Guides</a></p> <p><a href="#">User Guides (German)</a></p> <p><a href="#">User Guides (French)</a></p> <p><a href="#">Laser Risk Group Document</a></p> <p><a href="#">Important Information</a></p>				



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