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# M-VISION 23000 WU DIGITAL PROJECTOR

THE VISIONARIES CHOICE



## M-Vision 23000 WU

**23,000 ISO / 20,500 ANSI Lumens | Contrast Ratio: 10,000:1 (Dynamic Black) | Part Number: 121-679**

### Key Specifications:

<b>Colour System:</b>	Blue + Red Laser and 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. Fast transit pixels for smooth greyscale and improved contrast.
<b>Aspect Ratio:</b>	16x10
<b>Fill Factor</b>	
<b>Key Features:</b>	<b>Red Laser Assist</b> <ul style="list-style-type: none"><li>• Uses blue and red laser diodes for increased colour fidelity and highly accurate colours</li></ul> <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>

- 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.
- IP6X sealed optics

#### 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 1.4b	HDMI	2
3G-SDI in	BNC	1
3G-SDI out	BNC	1
HDBaseT	LAN RJ45	1
.		
Communication & Control		
Type	Connector	Qty
3D Sync Out	BNC	1
3D Sync In	BNC	1
LAN	RJ45	1
RS232	9-pin D-Sub	1
Wired Remote	3.5mm Stereo Jack	1
12V Trigger	3.5mm Stereo Jack	2

	<b>NOTE: The HDBaseT and LAN ports are not shared.</b>																																		
<b>3D Formats Supported</b>	Frame Packing Dual Pipe Frame Sequential Side By Side (half) Top and Bottom																																		
<b>HDTV Formats Supported</b>	1080p (24Hz, 25Hz, 30Hz, 50Hz, 60Hz), 1080i (50Hz, 60Hz), 720p (50Hz, 60Hz)																																		
<b>Computer Compatibility</b>	Up to 1920 x 1200																																		
<b>Bandwidth</b>	165 MHz on analog RGB 165 Megapixels per second on HDMI																																		
<b>Remote Control</b>	Addressable IR Remote Control, wireless and wired On-Board keypad																																		
<b>Automation Control</b>	Crestron RoomView® Connected PJLink Class 1 LAN RS232 AMX (Device Discovery) Served web page																																		
<b>Colour Temperature</b>	3200K to 9300K																																		
<b>Operation</b>																																			
<b>illumination Type</b>	Laser Light Source																																		
<b>Typical illumination Life</b>	20,000 hours																																		
<b>Lenses</b>	<table> <tr> <th>Lens</th><th>Part No.</th><th>Optimised Focus Range*</th><th>Lens Shift (Frame)</th></tr> <tr> <td>0.38:1 fixed</td><td>123-417</td><td>1.6m - 5m</td><td>Vert: 0.50 (U) 0.50 (D) frame, Hor: 0.025 (L) 0.025 (R) frame</td></tr> <tr> <td>0.9 - 1.2 : 1 zoom</td><td>120-624</td><td>0.92m - 10.6m</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>0.95m - 17.47m</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>1.24m - 16.4m</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>1.82m - 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>4.38m - 74.5m</td><td>Vert: 0.5 (U) 0.3 (D) frame, Hor: 0.15 (L) 0.15 (R) frame</td></tr> <tr> <td>6.9 - 10.3 : 1 zoom</td><td>123-418</td><td>12m - 80m</td><td>Vert: 0.5 (U) 0.5 (D)</td></tr> </table>			Lens	Part No.	Optimised Focus Range*	Lens Shift (Frame)	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)
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	* 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, with programmable shift		
<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>	110V~130Vac/ 50~60Hz 180V~240Vac/ 50~60Hz single phase * Note that in 120V operation, the projector will be at 65% brightness		
<b>Power Consumption</b>	Typical 1900W @ 240VAC in Normal mode Typical 1250W @ 110VAC in Normal mode		
<b>Thermal Dissipation</b>	Typical 6482 BTU/Hour @ 220VAC in Normal mode Typical 4265 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 35C (32 to 95F) Operating: >35 (95F) Projector automatically set to eco mode Storage: -20 to 60C (-4 to 140F)		
<b>Operating Humidity</b>	10% to 90% relative, non-condensing		
<b>Weight</b>	47.2 kg / 104.1 lbs		
<b>Dimensions</b>	L: 74.8cm W: 53.0cm H: 24.8cm L: 29.5in W: 20.9in H: 9.8in		
<b>Safety &amp; EMC Regulations</b>	UL / cUL, CB, CCC, FCC Class 1, CE, BIS, RoHS 2, IEC EN 60825-1 Class 3R Laser Product, IEC EN 62471-5 Risk Group 2		
<b>Accessories</b>	Accessory		Part No.
	Infrared Remote (replacement)		117-780
	<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>		
<b>Downloads</b>	<a href="#">PDF CAD Drawings</a> <a href="#">AUTOCAD Drawings</a> <a href="#">STEP / IGS Drawings</a> <a href="#">Lens CAD Drawings</a>		
<b>User Guide</b>	<a href="#">User Guides</a> <a href="#">User Guides (German)</a> <a href="#">User Guides (French)</a>		

[Laser Risk Group Document](#)

[Important Information](#)

[Important Information \(German\)](#)

[Important Information \(French\)](#)

[Control Protocol](#)



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