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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: 121-083**

### 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>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>	87%
<b>Key Features:</b>	<p><b>Red Laser Assist</b></p> <ul style="list-style-type: none"><li>• Uses blue and 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 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> <p><b>Geometry Correction</b></p> <ul style="list-style-type: none"><li>• Cornerstone, Vertical &amp; Horizontal Keystone, Pincushion &amp; Barrel, and Image Rotation.</li></ul>

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

### 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

<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 border="1"> <thead> <tr> <th>Lens</th> <th>Part No.</th> <th>Lens Shift (Frame)</th> <th>Optimised Focus Range*</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.	Lens Shift (Frame)	Optimised Focus Range*	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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<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>	54 kg / 119 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					
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<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>						
<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> <a href="#">Laser Risk Group Document</a> <a href="#">Important Information</a> <a href="#">Important Information (German)</a> <a href="#">Important Information (French)</a> <a href="#">Control Protocol</a>					



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