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# M-Vision 23000 WU

23,000 ISO / 20,500 ANSI Lumens | Contrast Ratio: 10,000:1 (Dynamic Black) | Part Number: 121-083

# Key Specifications:

Colour System:	Blue + Red Laser and 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:	Red Laser Assist		
	Uses blue and red laser diodes for increased colour fidelity and highly accurate colours		
	Video & Graphics Processing		
	<ul> <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> Geometry Correction		

- 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			
Туре	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 & Contro	1
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Continunication & Control			
Туре	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	
II			

	NOTE: The HDBaseT a			
3D Formats Supported	Frame Packing Dual Pipe Frame Sequential Side By Side (half) Top and Bottom			
HDTV Formats Supported	1080p (24Hz, 25Hz, 30հ	Hz, 50Hz, 60Hz), 1	080i (50Hz, 60Hz), 720p (50H	Hz, 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	24×7 OPERATION			
illumination Type	Laser Light Source			
Typical illumination Life	20,000 hours			
Lenses	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. (L) 0.025 (R) fram
	0.9 - 1.2 : 1 zoom	120-624	0.92m - 10.6m	Vert: 0.45 (U) 0.45 (D) frame, Hor: 0. (L) 0.15 (R) frame
	1.20 - 1.56 : 1 zoom	120-625	0.95m - 17.47m	Vert: 0.5 (U) 0.5 (I frame, Hor: 0.15
				0.15 (R) frame
	1.50 - 2.00 : 1 zoom	120-626	1.24m - 16.4m	Vert: 0.5 (U) 0.3 (I
	1.50 - 2.00 : 1 zoom  2.00 - 4.00 : 1 zoom	120-626 120-627	1.24m - 16.4m 1.82m - 41.8m	Vert: 0.5 (U) 0.3 (I frame, Hor: 0.15 0.15 (R) frame Vert: 0.5 (U) 0.3 (I
				Vert: 0.5 (U) 0.3 (I frame, Hor: 0.15 ( 0.15 (R) frame Vert: 0.5 (U) 0.3 (I frame, Hor: 0.15 (

			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 Ser +/- 5%. M-Vision Series: +/- 2%. Titan Series: +/-2%, INSIGHT Series: +/-2%,			
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	110V~130Vac/ 50~60Hz 180V~240Vac/ 50~60Hz single phase * Note that in 120V operation, the projector will be at 65% brightness			
Power Consumption	Typical 1900W @ 240VAC in Normal mode Typical 1250W @ 110VAC in Normal mode			
Thermal Dissipation	Typical 6482 BTU/Hour @ 220VAC in Normal mode Typical 4265 BTU/Hour @ 110VAC in Normal mode			
Fan Noise	Normal mode: 50 dBA max, 48 dBA typical Eco mode: 48 dBA max, 46dBA typical			
Operating/Storage Temperature:	Operating: 0 to 35C (32 to 95F) Operating: >35 (95F) Projector automatically set to eco mode Storage: -20 to 60C (-4 to 140F)			
Operating Humidity	10% to 90% relative, non-condensing			
Weight	47.2 kg / 104.1 lbs			
Dimensions	L: 74.8cm W: 53.0cm H: 24.8cm L: 29.5in W: 20.9in H: 9.8in			
Safety & EMC Regulations	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			
Accessories	Accessory	Part No.		
	Infrared Remote (replacement)	117-780		
	*Dimensions included for reference only ar CAD files for this display for more accurate	•	ge. Please download the full set of	
Downloads	PDF CAD Drawings			
	AUTOCAD Drawings			
	STEP / IGS Drawings			
	<u>Lens CAD Drawings</u>			
User Guide	<u>User Guides</u>			
	<u>User Guides (German)</u>			
	<u>User Guides (French)</u>			

**Laser Risk Group Document** 

<u>Important Information</u>

Important Information (German)

Important Information (French)

**Control Protocol** 



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