

## M-Vision 23000 WU

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

## M-VISION 23000 WU DIGITAL PROJECTOR



THE VISIONARIES CHOICE

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### Colour System:

Blue + Red Laser and 4-segment colour wheel

### DMD Specification:

1920 x 1200 pixels native display.  
Fast transit pixels for smooth greyscale and improved contrast.

### Display Type:

1 x 0.96" DarkChip™ DMD™

### Aspect Ratio:

16x10

### Fill Factor

87%

## Key Features

### Red Laser Assist

- Uses blue and red laser diodes for increased colour fidelity and highly accurate colours

### Video & Graphics Processing

- HDMI 1.4b for Side by Side, Frame Packing, Frame Sequential & TopBottom 3D Formats.
- Dual Flash Processing can be used to multiply the displayed frame rate for 3D sources.
- Dual Pipe Processing: Two sources in parallel for Left and Right eyes.
- Synchronisation of active glasses.
- 3G-SDI with loop-through.
- 24p and 1080p native display.

### 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.

### 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 Stereo Jack	1
			12V Trigger	3.5mm Stereo Jack	2

**NOTE: The HDBaseT and LAN ports are not shared.**

### 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

### 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



### Illumination Type

Laser Light Source

### Typical illumination Life

20,000 hours

### Lenses

Lens	Part No.	Optimised Focus Range*	Lens Shift
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 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%,

### 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 (Chassis Only)

54 kg  
119 lb

## 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 and are subject to change. Please download the full set of CAD files for this display for more accurate information.*

## Downloads

[PDF CAD Drawings](#)

[User Guides](#)

[AUTOCAD Drawings](#)

[Laser Risk Group Document](#)

[STEP / IGS Drawings](#)

[Important Information](#)

[Lens CAD Drawings](#)

[Control Protocol](#)



Certificate Number 13629  
ISO 9001

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