DIGITAL PROJECTION
A Delta Associate Company

M-Vision 23000 WU

23,000 ISO / 20,500 ANSI Lumens | Contrast Ratio: 10,000:1 (Dynamic Black) | Part No:121-083

M-VISION 23000 WU
DIGITAL PROJECTOR

THE VISIONARIES CHOICE

Colour System:	DMD Specification:
Blue + Red Laser and 4-segment colour wheel	1920 x 1200 pixels native display. Fast transit pixels for smooth greyscale and improved contrast.

Display Type:	Aspect Ratio:
1 x 0.96" DarkChip™ DMD™	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

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	1
12V Trigger	Jack	2
	3.5mm Stereo	
NOTE: The HDBaseT and LAN ports are not shared.	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

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

24x7 Operation

Lamp Type			Typical Lamp Life
Laser Light Source			20,000 hours

Lenses

Lens	Part No.	Optimised Focus	Lens Shift
0.9 - 1.21 : 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	Orientation
Front/Rear Table Front/Rear Ceiling Adjustable Front/Rear Feet	**Table Top or Inverted:** Yes **Pointing Up:** Yes **Pointing Down:** Yes **Roll (Portrait):** Yes

Power Requirements	Power Consumption
110V~130Vac/ 50~60Hz 180V~240Vac/ 50~60Hz single phase * Note that in 120V operation, the projector will be at 65% brightness	Typical 1900W @ 240VAC in Normal mode Typical 1250W @ 110VAC in Normal mode W

Thermal Dissipation	Fan Noise
Typical 6482 BTU/Hour @ 220VAC in Normal mode Typical 4265 BTU/Hour @ 110VAC in Normal mode BTU/Hour	Normal mode: 50 dBA max, 48 dBA typical Eco mode: 48 dBA max, 46dBA typical

Operating/Storage Temperature	Operating Humidity
Operating: 0 to 35C (32 to 95F) Operating: >35 (95F) Projector automatically set to eco mode Storage: -20 to 60C (-4 to 140F)	10% to 90% relative, non-condensing

Weight (Chassis Only)	Dimensions
54 kg 119 lb	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](#)	[User Guides German](#)
	[User Guides French](#)
	[Important Information](#)

Certificate Number 13629
ISO 9001