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M-VISION 24000 WU DIGITAL PROJECTOR

THE VISIONARIES CHOICE



M-Vision 24000 WU (Preliminary)

24,000 ISO / 21,600 ANSI Lumens | Contrast Ratio: 10,000:1 (Dynamic Black) | Part Number: 123-538

Key Specifications:

Colour System:	Blue + Red Laser illumination
Display Type:	1 x 0.96" DarkChip 3™ 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:	ColorBoost+Red Laser • Uses red laser diodes for increased colour fidelity and highly accurate colours Video & Graphics Processing • HDMI 2.0 compliance for Side by Side, Frame Packing, Frame Sequential and TopBottom 3D Formats. • DisplayPort 1.2 with HDCP 2.2 compliance. • 10-bit colour processing (30-bits per pixel). • Support for 1080p 24Hz native display. • Support for 4K 4096 x 2160 resolution. • HDR support • Input source automatically detected. • Input redundancy mode with auto switching. • Dual Pipe Processing: Two sources in parallel for Left and Right eyes.

- Synchronisation of active 3D glasses or polarising switcher.
- DICOM simulation mode.
- Sealed light engine

Geometry Correction

- Vertical & Horizontal Keystone correction.
- Four Corner adjustment.
- Rotation.
- Pin/Barrel.
- Wall Corner adjustment.
- Centre Shift (Horizontal and Vertical linearity adjustment).
- Custom Warp.
- Upload of maps for warp, blend, uniformity and masking.
- Selectable aspect ratios: 5:4 / 4:3 / 16:10 / 16:9 / 1.88 / 2.35 / TheaterScope / Source / Unscaled.
- Digital Zoom.
- Blanking control for custom input window sizing.

Edge Blending

- Correction for non-active pixels at the edge of the display.

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.
- HDBaseT® Includes Ethernet 100BaseT and RS232/IR control.

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

- 4 x eye bolts included for easy rigging.
- 4 x top stacking mounts and mount securing pins
- IP6X sealed optics.

Source Compatibility

12G-SDI single link - SMPTE 292M (HD), SMPTE 424M (3G), SMPTE 2081 (6G), SMPTE 2082 (12G).

Inputs/Outputs

Video & Computer		
Type	Connector	Qty
DisplayPort 1.2	DisplayPort	2
HDMI 2.0	HDMI	2
HDBaseT	RJ45	1
12G-SDI In	BNC	1
12G-SDI Out (loopthrough)	BNC	1

	Communication & Control										
	Type	Connector	Qty								
	3D Sync In	BNC	1								
	3D Sync Out	BNC	1								
	3D Sync IR	BNC	1								
	Ethernet / Art-Net	EtherCON RJ45	1								
	HDBaseT/Ethernet/RS232/IR	RJ45	1								
	Serial In RS-232C	9-pin D-Sub	1								
	Wired Remote In	3.5mm Stereo Jack	1								
	Wired Remote Out	3.5mm Stereo Jack	1								
	12V Trigger	3.5mm Stereo Jack	1								
	USB Power out 5V/2A	USB Type A	1								
3D Formats Supported	Frame Packing Dual Pipe Frame Sequential Side By Side (half) Top and Bottom Compatible with polarised 3D glasses										
HDTV Formats Supported	EDTV (480p, 576p,) HDTV (720p, 1080i, 1080p, UHD, DCI 4K), Display Support for 4K-UHD 3840 x 2160 60HZ and up to 4096 x2160 60Hz.										
Computer Compatibility	VGA, SVGA, XGA, SXGA, SXGA+, WXGA, UXGA, WUXGA, Support for WQXGA										
Bandwidth	18Gb/s (600MHz clock rate) on HDMI										
Remote Control	Addressable IR Remote Control, wireless and wired On-Board keypad										
Automation Control	LAN RS-232 Alert E-Mails from Projector Served webpage OSD functions for full Projector Control via web browser LAN Control-Crestron Roomview™ LAN Control-Crestron eControl LAN Control-PJ Link compatible LAN Control-AMX SSDP LAN to RS232 (RS232 by Telnet) Concurrence Control for RS232/LAN DMX Art-Net control Scheduled On and Off times										
Colour Temperature	User selectable: 3200K/ 5400K / 6500K / 7500K / 9300K / Native										
Operation											
illumination Type	MCL Blue Laser Light Source and MCL Red Laser Light Source with Custom light output setting range: 30% - 100% Constant Brightness mode.										
Typical illumination Life	20,000 hours										
Lenses	<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</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
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) 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. Intelligent Lens Memory with 10 user-definable pre-set positions.		
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	200 240VAC 50/60Hz single phase 10.6A 110 - 130VAC 50/60Hz single phase 11.1A		
Power Consumption	Typical 1450W @ 220VAC in Normal Mode Typical 850W @ 110VAC in Normal mode		
Thermal Dissipation	Typical 4949 BTU/Hour @ 220VAC in Normal mode Typical 2901 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 40 °C (32 to 104 °F) Operating: 33 - 35 °C (91.4 - 95 °F) Projector automatically set to 90% laser power mode Operating: 35 - 40 °C (95 - 104 °F) Projector automatically set to eco mode Storage: -20 to 60 °C (-4 to 140 °F)		
Operating Humidity	90% (with maximum temperature of 35 °C) non-condensing		
Weight	47.2 kg / 104.1 lbs		
Dimensions	Projector Dimensions (Including handles and feet) L: 768.4mm x W: 598.8mm x H: 302.75mm L: 30.25 inch x W: 23.57 inch x H: 11.92 inch		

	Projector Dimensions (Excluding handles) L: 669.4mm x W: 598.8mm x H: 302.75mm L: 26.35 inch x W: 23.57 inch x H: 11.92 inch Carton Dimensions 944mm x W: 758mm x H: 516mm L: 37.17 inch x W: 29.84 inch x H: 20.31 inch			
Safety & EMC Regulations	CB report, cTUVus, CE (European Economic Area), UKCA (United Kingdom), CCC (China), FCC Class A (USA), FDA, KC (Korea), BSMI (Taiwan), RCM (Australia), BS IEC EN 60825-1:2014 Class 1 Laser Product, BS IEC EN 62471-5:2015 RG3, IEC 62471-5: Ed. 1.0 RG2 (for REF version employing RG2 lenses), GB 7247.1-2012			
Accessories	<table><tr><td>Accessory</td><td>Part No.</td></tr></table> <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>		Accessory	Part No.
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Downloads	PDF CAD Drawings AUTOCAD Drawings STEP / IGS Drawings Lens CAD Drawings			
User Guide	User Guides User Guides (German) User Guides (French) Laser Risk Group Document Important Information			



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