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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:

| | |
|---------------------------|--|
| 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: | <p>Red Laser Assist</p> <ul style="list-style-type: none">• Uses blue and red laser diodes for increased colour fidelity and highly accurate colours <p>Video & Graphics Processing</p> <ul style="list-style-type: none">• 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. <p>Geometry Correction</p> |

- 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 | | |
|-------------------------|-------------------|-----|
| 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 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 | <table border="1"> <thead> <tr> <th>Lens</th> <th>Part No.</th> <th>Optimised Focus Range*</th> <th>Lens Shift (Frame)</th> </tr> </thead> <tbody> <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 (L) 0.025 (R) frame</td> </tr> <tr> <td>0.9 - 1.2 : 1 zoom</td> <td>120-624</td> <td>0.92m - 10.6m</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>0.95m - 17.47m</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>1.24m - 16.4m</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>1.82m - 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>4.38m - 74.5m</td> <td>Vert: 0.5 (U) 0.3 (D) frame, Hor: 0.15 (L) 0.15 (R) frame</td> </tr> <tr> <td>6.9 - 10.3 : 1 zoom</td> <td>123-418</td> <td>12m - 80m</td> <td>Vert: 0.5 (U) 0.5 (D)</td> </tr> </tbody> </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 (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) |
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|---------------------------------------|---|--|--|-----------|----------|-------------------------------|---------|
| | * 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 | 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 | <table border="1"> <thead> <tr> <th>Accessory</th> <th>Part No.</th> </tr> </thead> <tbody> <tr> <td>Infrared Remote (replacement)</td> <td>117-780</td> </tr> </tbody> </table> <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> | | | Accessory | Part No. | Infrared Remote (replacement) | 117-780 |
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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](#)

[Important Information \(German\)](#)

[Important Information \(French\)](#)

[Control Protocol](#)



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