DIGITAL PROJECTION

Specification Sheet

Mercury 930 WUXGA 3D (Preliminary)

14,000 Lumens | Contrast Ratio: 2,000:1 | Part No:114-339

Colour System:	DMD Specification:
3-chip DLP®	1920 x 1200 pixels native. Fast transit pixels for smooth greyscale and improved contrast.
Display Type:	**Aspect Ratio:**
3 x 0.96" DarkChip™ DMD™	16x10 **Fill Factor** 87%

Key Features

Standard Inputs (1-8): Front End Video Capabilities

Video & Graphics Processing

- High bandwidth digital & analog receiver with 10 bit A-D.
- Automatic detection of interlaced video and implementation of 3:2 or 2:2 extraction as appropriate, with pixel based, motion adaptive interpolation and auto cadence correction.
- Displayed image frame locked to input with as low as 1 frame total latency.
- 24p and 1080p native display.
- Image enhancement for MPEG, Mosquito noise & color transients in composite sources.

Geometry Correction

- Cornerstone, Vertical & Horizontal Keystone, Pincushion & Barrel, and Image Rotation.
- Non-linear Warp adjustment by moving points on an interpolated grid.

Edge Blending

- Semi-automated multi projector tiling
- 12 bit processing and Black Level Uplift in blend region.
- 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 projector to be placed up to 100m from source with low cost cabling.

Super Image Clarity

- Geometry correction and Edge Blending implemented in single stage process, retaining maximum image resolution.

Picture in Picture

- Two sources can be displayed either one within the other (PIP), or side by side, with original aspect ratios maintained.

ColorMax™

- Accurate matching of projectors in tiled or blended applications.
- User selection and storage of primary and secondary color targets.

High Bandwidth Inputs (9-11): Bypassing Front End for Minimal Latency

- Pixel mapped to the display.
- HDMI 1.4 for Side by Side, Frame Packing & Top Bottom formats.
- Dual Flash Processing can be used to multiply the displayed frame rate for 3D sources (example 144Hz display).
- FastFrame™ Smear Reduction.
- Dual Pipe processing: two sources in parallel for left and right eyes.
- Synchronisation of active glasses or polarising switcher.

Source Compatibility:

3GSDI is SMPTE 292M, SMPTE 259M-C and SMPTE 424M compliant.
HDMI and DVI include Deep Color™ processing up to 36 bit.
DVI inputs are HDMI compatible.
Digital Audio Extraction via SPDIF for HDMI sources.
Graphics standards up to 1920 x 1200 at 60Hz via DVI or VGA.
Component Video (SD and HD) via YPrPb, RGB or RGBS.
S-Video (PAL, NTSC & SECAM)
Composite Video (PAL, NTSC & SECAM)

High Bandwidth, Pixel Mapped Path:
Dual Pipe accepts graphics standards up to 1920 x 1200 at 120Hz.
HDMI 1.4 including 3D Standards
Dual Pipe (2 x DVI)

Inputs/Outputs

Video & Computer

Type	Connector	Qty
DVI-D / DVI-A	DVI-I	1
HDMI 1.3	HDMI	1
3G-SDI	BNC	1
HDBaseT	RJ45	1
VGA / Analog RGB	15-pin D-Sub	1
Component Video	4 x BNC	1
S-Video	4-pin Mini DIN	1
Composite Video	RCA	1
Composite Video	BNC	1
High Bandwidth Ports		
Dual Pipe	DVI-D	1
HDMI 1.4	HDMI	2
Audio		
SPDIF Digital Output	RCA	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 In	3.5mm Stereo Jack	1
Wired Remote Out	3.5mm Stereo Jack	1
Service Port	USB Type B	1

3D Formats Supported

Frame Packing
Dual Pipe
Frame Sequential
Side By Side (half)
Top and Bottom

HDTV Formats Supported

1080p (23.98Hz, 24Hz, 25Hz, 29.97Hz, 30Hz, 50Hz, 59.94Hz, 60Hz), 1080i (50Hz, 59.94Hz, 60Hz), 1080sf (23.98Hz, 24Hz), 720p (50Hz, 59.94Hz, 60Hz)

Computer Compatibility

Up to 1920 x 1200

Bandwidth

170 MHz on analog RGB
165 Megapixels per second on HDMI and DVI
330 Megapixels per second on Dual Pipe DVI

Remote Control

Addressable IR remote control, wireless and wired with loop-through.
On-Board keypad

Automation Control

RS232
LAN

Colour Temperature

User selectable from 3200 to 9000K

Lamp Type

2 x 465W High Intensity Discharge

Typical Lamp Life

Full Power: 1500 hours (up to 3000 hours in lamp sequential mode)
Eco Mode : 2000 hours (up to 4000 hours in lamp sequential mode)

Lenses

Lens	Part No.	Focus Range	Lens Shift
0.67:1 fixed HB	105-607	1.1m - 10m	Vert: 0.176 (U) 0.176 (D) frame, Hor: 0.063 (L) 0.063 (R) frame
1.12:1 fixed HB	105-608	3m - 15m	Vert: 0.685 (U) 0.5 (D) frame, Hor: 0.188 (L) 0.188 (R) frame
1.12:1 (short) fixed HB	105-609	1.2m - 2m	Vert: 0.685 (U) 0.5 (D) frame, Hor: 0.188 (L) 0.188 (R) frame
1.16 - 1.49:1 zoom HB	109-236	3m - 15m	Vert: 0.509 (U) 0.5 (D) frame, Hor: 0.188 (L) 0.188 (R) frame
1.39 - 1.87:1 zoom HB	105-610	4m - 24m	Vert: 0.685 (U) 0.5 (D) frame, Hor: 0.188 (L) 0.188 (R) frame
1.87 - 2.56:1 zoom HB	105-611	4m - 24m	Vert: 0.685 (U) 0.5 (D) frame, Hor: 0.188 (L) 0.188 (R) frame
2.56 - 4.16:1 zoom HB	105-612	9.1m - 45m	Vert: 0.685 (U) 0.5 (D) frame, Hor: 0.188 (L) 0.188 (R) frame
4.16 - 6.96:1 zoom HB	105-613	12m - 80m	Vert: 0.685 (U) 0.5 (D) frame, Hor: 0.188 (L) 0.188 (R) frame
6.92 - 10.36:1 zoom HB	109-235	12m - 80m	Vert: 0.685 (U) 0.5 (D) frame, Hor: 0.188 (L) 0.188 (R) frame

Lens Mount

Motorised and programmable shift, zoom and focus. Intelligent Lens Memory with 5 user-definable preset positions.

Mechanical Mounting

Front/Rear Table
Front/Rear Ceiling
Adjustable Front/Rear Feet
Optional RapidRig™ frame with integrated pitch, roll and yaw adjustments.

Orientation

Table Top or Inverted: Yes
Pointing Up: TBD
Pointing Down: TBD
Roll (Portrait): TBD

Power Requirements

90 - 240VAC 50/60Hz single phase

Power Consumption

TBD W

Thermal Dissipation

TBD BTU/Hour

Fan Noise

TBD

Operating/Storage Temperature

Operating: 0 to 40C (32 to 104F)
Storage: -20 to 60C (-4 to 140F)

Operating Humidity

20% to 90% non-condensing

Weight (Chassis Only)

TBD kg
TBD lb

Dimensions

L: 72 cm (approx) W: 51 cm (approx) H: 23 cm (approx)
L: 28.3 in (approx) W: 20 in (approx) H: 9.1 in (approx)

Safety & EMC Regulations

CE, FCC Class A & B, UL, CCC, KC

Downloads

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