

HIGHlite 740 1080p 3D

10,000 ANSI Lumens | Contrast Ratio: 2,000:1 | Part No:114-005

Highlite 740 Series Digital Projectors

DIGITAL  **PROJECTION**

Colour System: 3-chip DLP®	DMD Specification: 1920 x 1080 pixels native. Fast transit pixels for smooth greyscale and improved contrast.
Display Type: 3 x 0.65" DarkChip™ DMD™	Aspect Ratio: 16x9 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
- 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.

Projector Controller Software

- Intuitive user interface for network control
- Simultaneous control of user-defined groups of projectors
- At-a-glance monitoring of projector status

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			Communication & Control		
Type	Connector	Qty	Type	Connector	Qty
DVI-D / DVI-A	DVI-I	1	3D Sync Out	BNC	1
HDMI 1.3	HDMI	1	3D Sync In	BNC	1
3G-SDI	BNC	1	LAN	RJ45	1
HDBaseT	RJ45	1	RS232	9-pin D Sub	1
VGA / Analog RGB	15-pin D-Sub	1	Wired Remote In	3.5mm Stereo Jack	1
Component Video	4 x BNC	1	Wired Remote Out	3.5mm Stereo Jack	1
S-Video	4-pin Mini DIN	1	Service Port	USB Type B	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			

3D Formats Supported	HDTV Formats Supported
Frame Packing	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)
Dual Pipe	
Frame Sequential	
Side By Side (half)	
Top and Bottom	

Computer Compatibility	Bandwidth
Up to 1920 x 1200	170 MHz on analog RGB 165 Megapixels per second on HDMI and DVI 300 Megapixels per second on Dual Pipe DVI

Remote Control	Automation Control
Addressable IR remote control, wireless and wired with loop-through. On-Board keypad	RS232 LAN

Colour Temperature
User selectable from 3200 to 9000K

Lamp Type	Typical Lamp Life
2 x 370W High Intensity Discharge	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
0.77 : 1 fixed HB	110-808	1.3m - 2.5m	Vert: 0.2 (U) 0.2 (D) frame, Hor: 0.05 (L) 0.05 (R) frame
1.16 : 1 fixed HB	110-809	1.4m - 6.2m	Vert: 0.2 (U) 0.2 (D) frame, Hor: 0.05 (L) 0.05 (R) frame
1.45 - 1.74 : 1 zoom HB	110-803	1.8m - 9.3m	Vert: 0.6 (U) 0.6 (D) frame, Hor: 0.15 (L) 0.15 (R) frame
1.74 - 2.17 : 1 zoom HB	112-878	2.2m - 11.8m	Vert: 0.6 (U) 0.6 (D) frame, Hor: 0.15 (L) 0.15 (R) frame
2.17 - 2.90 : 1 zoom HB	113-852	2.7m - 15.4m	Vert: 0.6 (U) 0.6 (D) frame, Hor: 0.15 (L) 0.15 (R) frame
2.90 - 4.34 : 1 zoom HB	110-806	3.6m - 22.5m	Vert: 0.6 (U) 0.6 (D) frame, Hor: 0.15 (L) 0.15 (R) frame
4.34 - 6.76 : 1 zoom HB	110-807	5.5m - 35m	Vert: 0.6 (U) 0.6 (D) frame, Hor: 0.15 (L) 0.15 (R) frame

Lens Mount
Motorised shift, zoom and focus.

Mechanical Mounting	Orientation
Front/Rear Table	Table Top or Inverted: Yes
Front/Rear Ceiling	Pointing Up: Yes
Adjustable Front/Rear Feet	Pointing Down: Yes
Optional RapidRig™ frame with integrated pitch, roll and yaw adjustments.	Roll (Portrait): Yes

Power Requirements	Power Consumption

90 - 240VAC 50/60Hz single phase

TBD W

Thermal Dissipation

3241 BTU/Hour

Fan Noise

39dBA

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)

33 kg

72.8 lb

Dimensions

L: 66.5 cm W: 50 cm H: 22 cm

L: 26.2 in W: 19.7 in H: 8.7 in

Safety & EMC Regulations

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

**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

[User Guides](#)

[Important Information](#)

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