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Titan Luma 35000 4K-UHD

The Visionaries Choice



Titan Luma 35000 4K-UHD (Preliminary)

Up to 31,500 Lumens | Contrast Ratio: 1,600:1 Native | Part Number: TBD

Key Specifications:

Colour System:	Laser Phosphor
Display Type:	3 x 0.96" WUXGA DMD™
DMD Specification:	Display capability up to 4K-UHD 8.3 megapixels on screen at 4K-UHD Fast transit pixels for smooth greyscale and improved contrast. Display capability up to 4K-UHD (3840x2160)
Aspect Ratio:	16:9
Fill Factor	N/A as Smooth Picture DMD
Key Features:	Video & Graphics Processing • DisplayPort 1.2 • 2 x HDMI 2.0b HDCP 2.2 • HDR processing • 2 x HDMI 1.4b HDCP 1.4 for Dual Pipe processing and Frame Sequential 3D Format. • Sequential Processing: 3D via single HDMI 1.4b input • Dual Pipe Processing: 3D Left and Right eyes via two HDMI1.4b inputs. • Synchronisation of active glasses. • 3G-SDI with loop-through. • DICOM simulation mode. • DMX Art-Net General Features

- Constant Brightness control
- Multi-Projector Brightness control
- Compatible with selected competitor lenses via lens converter
- Selectable EDID
- Custom Start-up Logo

Geometry Correction

- 4-Cornerstone, Vertical & Horizontal Keystone, Pincushion & Barrel, Arc and Image Rotation
- Non-linear warp
- Digital Zoom, Pan and Scan
- Blanking control for custom input window sizing.
- Scaling available for fixed aspect ratio screens.
- Unscaled processing for pixel mapped display

Edge Blending

- Blending control available for all sides with width control.
- Correction for non-active pixels at the edge of the display.
- Electronic Black Level Compensation.

Picture in Picture

- Two sources can be displayed simultaneously using 2D inputs. either picture in picture (PIP) , or side by side (PBP), with the original aspect ratios maintained.

HDBaseT® Interface

- Built in support for reception 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
- Supports up to 4K UHD 3840 x 2160@60Hz 4:2:0 or 4K UHD 3840 x 2160@30Hz 4:2:2

Colour Processing

- Four colour modes available
- Powerful seven point colour correction for accurate colour matching with presets.
- Easy colour temperature selection
- Manual seven point colour adjustment
- Traditional lifts and gains

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
- E-mail alerts for system status

Source Compatibility

2D Graphics standards up to 4K-UHD 3840x2160 resolution at 60Hz via HDMI 2.0, HDBaseT (4:2:0), DisplayPort inputs
 3D Graphics standards up to dual-pipe WUXGA 120Hz via HDMI 1.4b inputs
 3G-SDI is SMPTE 292M, SMPTE 259M-C and SMPTE 424M compliant.

WUXGA mode

2D sources up to WUXGA 120Hz and 4K-UHD 60Hz can be displayed scaled to fit WUXGA
 3D sources up to WUXGA 120Hz can be displayed scaled to fit WUXGA

	4K-UHD mode 2D sources up to 4K-UHD will be displayed scaled to fit 4K-UHD Auto Mode Sources greater than WUXGA will be displayed scaled to fit 4K-UHD Sources up to WUXGA will be displayed scaled to fit WUXGA		
Inputs/Outputs	Video & Computer		
	Type	Connector	Qty
	DisplayPort 1.2 (2D)	DisplayPort	2
	HDMI 1.4b (3D)	HDMI	2
	HDMI 2.0b (2D)	HDMI	2
	3G-SDI in (2D)	BNC	1
	3G-SDI out	BNC	1
	HDBaseT/LAN (2D)	RJ45	1
	.		
	Communication & Control		
	Type	Connector	Qty
	3D Sync In	.	x 1
	3D Sync out		x 1
	RS-232 Serial Port IN		x 1
	Wire Remote IN		x 1
	Wire Remote OUT	.	x 1
	RJ-45 LAN Control	RJ-45	x 1
	USB-A (5V/2A)		x 1
	3.5 mm Mini Jack for 12V Trigger	3.5 mm	x 1
3D Formats Supported	Sequential / 1080p @100Hz Sequential / 1080p @120Hz Sequential / WUXGA @100Hz (RB) Dual-Pipe / 1080p @ 50Hz Dual-Pipe / 1080p @ 60Hz Dual-Pipe / WUXGA @ 50Hz (RB) Dual-Pipe / WUXGA @ 60Hz		
HDTV Formats Supported	1080p (24Hz, 25Hz, 30Hz, 50Hz, 60Hz) 1080i (50Hz, 60Hz) 720p (50Hz, 60Hz) 2K (24Hz, 25Hz, 30Hz, 50Hz, 60Hz) 4K-UHD (24Hz, 25Hz, 30Hz, 50Hz, 60Hz)		
Computer Compatibility	2D 4K-UHD upto 60Hz 3D Supported Formats will be displayed upto WUXGA		
Bandwidth	498 Mpixels/sec via DisplayPort and HDMI2.0.		
Remote Control	Addressable IR remote Control, Wireless and wired. On-Board keypad		
Automation Control	TBD		
Colour Temperature	3200K to 9300K		
Operation			

illumination Type	Laser Light Source																																											
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>0.37:1 (Right Angled)</td><td>120-510</td><td>1.6m - 4.9m</td><td>Vert: 0.65 (U) 0.65 (D) frame, Hor: 0.31 (L) 0.31 (R) frame</td></tr><tr><td>0.65-0.85:1 (Right Angled)</td><td>120-511</td><td>2.8m - 8.4m</td><td>Vert: 0.62 (U) 0.62 (D) frame, Hor: 0.25 (L) 0.25 (R) frame</td></tr><tr><td>0.8-1.16:1 (Includes support bracket)</td><td>120-827</td><td>1.7m - 11m</td><td>Vert: 0.51 (U) 0.51 (D) frame, Hor: 0.20 (L) 0.20 (R) frame</td></tr><tr><td>1.16 - 1.49:1 zoom HB</td><td>109-236</td><td>3m - 15m</td><td>Vert: 0.50 (U) 0.408 (D) frame, Hor: 0.2 (L) 0.2 (R) frame</td></tr><tr><td>1.39 - 1.87:1 zoom HB</td><td>105-610</td><td>4m - 24m</td><td>Vert: 0.65 (U) 0.65 (D) frame, Hor: 0.28 (L) 0.28 (R) frame</td></tr><tr><td>1.87 - 2.56:1 zoom HB</td><td>105-611</td><td>4m - 24m</td><td>Vert: 0.65 (U) 0.65 (D) frame, Hor: 0.28 (L) 0.28 (R) frame</td></tr><tr><td>2.56 - 4.16:1 zoom HB</td><td>105-612</td><td>9.1m - 45m</td><td>Vert: 0.65 (U) 0.65 (D) frame, Hor: 0.28 (L) 0.28 (R) frame</td></tr><tr><td>4.16 - 6.96:1 zoom HB</td><td>105-613</td><td>12m - 80m</td><td>Vert: 0.65 (U) 0.65 (D) frame, Hor: 0.28 (L) 0.28 (R) frame</td></tr><tr><td>6.92 - 10.36:1 zoom HB</td><td>109-235</td><td>12m - 80m</td><td>Vert: 0.65 (U) 0.45 (D) frame, Hor: 0.28 (L) 0.28 (R) frame</td></tr></table>				Lens	Part No.	Optimised Focus Range*	Lens Shift (Frame)	0.37:1 (Right Angled)	120-510	1.6m - 4.9m	Vert: 0.65 (U) 0.65 (D) frame, Hor: 0.31 (L) 0.31 (R) frame	0.65-0.85:1 (Right Angled)	120-511	2.8m - 8.4m	Vert: 0.62 (U) 0.62 (D) frame, Hor: 0.25 (L) 0.25 (R) frame	0.8-1.16:1 (Includes support bracket)	120-827	1.7m - 11m	Vert: 0.51 (U) 0.51 (D) frame, Hor: 0.20 (L) 0.20 (R) frame	1.16 - 1.49:1 zoom HB	109-236	3m - 15m	Vert: 0.50 (U) 0.408 (D) frame, Hor: 0.2 (L) 0.2 (R) frame	1.39 - 1.87:1 zoom HB	105-610	4m - 24m	Vert: 0.65 (U) 0.65 (D) frame, Hor: 0.28 (L) 0.28 (R) frame	1.87 - 2.56:1 zoom HB	105-611	4m - 24m	Vert: 0.65 (U) 0.65 (D) frame, Hor: 0.28 (L) 0.28 (R) frame	2.56 - 4.16:1 zoom HB	105-612	9.1m - 45m	Vert: 0.65 (U) 0.65 (D) frame, Hor: 0.28 (L) 0.28 (R) frame	4.16 - 6.96:1 zoom HB	105-613	12m - 80m	Vert: 0.65 (U) 0.65 (D) frame, Hor: 0.28 (L) 0.28 (R) frame	6.92 - 10.36:1 zoom HB	109-235	12m - 80m	Vert: 0.65 (U) 0.45 (D) frame, Hor: 0.28 (L) 0.28 (R) frame
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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. Intelligent Lens Memory with 10 user-definable pre-set positions for zoom lenses.																																											
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	200VAC to 230VAC selectable, 50/60Hz single phase																																											
Power Consumption	200V Typical: < 2250W, Maximum < 2400W																																											
Thermal Dissipation	TBD																																											
Fan Noise	Max. Typical 51 dB +2dB deviation (TBC) Eco Typical 48 dB +2dB deviation(TBC)																																											

Operating/Storage Temperature Operating:	TBD	
Operating Humidity	TBD	
Weight	54.5 kg / 120.1 lbs	
Dimensions	L: 760 mm, W: 525 mm, H: 318 mm (Excl. handles) L: 29.9 in, W: 20.6 in, H: 12.5 in (Excl. handles)	
Safety & EMC Regulations	cTUVs, CB, FCC Class A, CE, CCC, KC, FDA, BSMI	
Accessories	Accessory	Part No.
	Remote Control (with Battery) HDMI Cable (1x 2m) Lens Cap/Hole Cap (Without Lens) AC Power Cord (US Type x 1, EU Type x 1, UK Type x 1, China Type x 1) Important Information Booklet	
	<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>	
Downloads		
User Guide		



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