

TITAN LASER SERIES DIGITAL PROJECTORS

THE VISIONARIES CHOICE



25,000 ISO / 22,500 ANSI @ 4K-UHD. 28,000 ISO / 25,000 ANSI @ WUXGA Lumens | Contrast Ratio: 18,000:1 (Dynamic Black) / 2,000:1 Native | Part Number: 120-612-RB

Colour System:

Laser Phosphor

DMD Specification:

Display capability upto 4K-UHD

8.3 megapixels pixels on screen at 4K-UHD

Fast transit pixels for smooth greyscale and improved contrast.

Display resolutions 4K-UHD (3840 x 2160)

Aspect Ratio:

16x9

Fill Factor

N/A as Smooth Picture DMD

Display Type:

3 x 0.96" WUXGA 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			Communication & Control		
Type	Connector	Qty	Type	Connector	Qty
DisplayPort 1.2 (2D)	DisplayPort	1	3D Sync In	BNC	1
HDMI 1.4b (3D)	HDMI	2	3D Sync Out	BNC	1
HDMI 2.0b (2D)	HDMI	2	LAN	RJ45	2
3G-SDI in (2D)	BNC	1	RS-232	9-pin D-Sub	1
3G-SDI out	BNC	1	Wired Remote	3.5mm Stereo Jack	1
HDBaseT/LAN (2D)	RJ45	1	12V Trigger	3.5mm Stereo Jack	2
			3D Sync IR Out	BNC	1
3D Formats Supported			HDTV Formats Supported		
Sequential / 1080p @100Hz			1080p (24Hz, 25Hz, 30Hz, 50Hz, 60Hz)		
Sequential / 1080p @120Hz			1080i (50Hz, 60Hz)		
Sequential / WUXGA @100Hz (RB)			720p (50Hz, 60Hz)		
Dual-Pipe / 1080p @ 50Hz			2K (24Hz, 25Hz, 30Hz, 50Hz, 60Hz)		
Dual-Pipe / 1080p @ 60Hz			4K-UHD (24Hz, 25Hz, 30Hz, 50Hz, 60Hz)		
Dual-Pipe / WUXGA @ 50Hz (RB)					
Dual-Pipe / WUXGA @ 60Hz					
Computer Compatibility			Bandwidth		
2D 4K-UHD upto 60Hz			498 Mpixels/sec via DisplayPort and HDMI2.0.		
3D Supported Formats will be displayed within WUXGA					
Remote Control			Automation Control		
Addressable IR remote Control, Wireless and wired. On-Board keypad			Crestron RoomView Connected		
			LAN		
			RS-232		
			AMX (Device Discovery)		
			DMX Art-Net		
			Served web pages (Projector status, Projector control, Crestron RoomView, Network settings, Alert mail setup, Time setup, Error log, On screen Display)		
Colour Temperature			Operation		
3200K to 9300K					



illumination Type	Typical illumination Life
Laser Light Source	20,000 hours

Lenses

Lens	Part No.	Optimised Focus Range*	Lens Shift
0.37:1 (Right Angled)	120-510	1.6m - 4.9m	Vert: 0.6 (U) 0.6 (D) frame, Hor: 0.3 (L) 0.3 (R) frame
0.65-0.85:1 (Right Angled)	120-511	2.8m - 8.4m	Vert: 0.5 (U) 0.5 (D) frame, Hor: 0.2 (L) 0.2 (R) frame
0.8-1.16:1 (Includes support bracket)	120-827	1.7m - 11m	Vert: 0.4 (U) 0.4 (D) frame, Hor: 0.19 (L) 0.19 (R) frame
1.16 - 1.49:1 zoom HB	109-236	3m - 15m	Vert: 0.44 (U) 0.44 (D) frame, Hor: 0.188 (L) 0.188 (R) frame
1.39 - 1.87:1 zoom HB	105-610	4m - 24m	Vert: 0.629 (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: 0.629 (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: 0.629 (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: 0.629 (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: 0.629 (U) 0.5 (D) frame, Hor: 0.188 (L) 0.188 (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 for zoom lenses.

Mechanical Mounting	Orientation
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Front/Rear Table	Table Top or Inverted: Yes
Front/Rear Ceiling	Pointing Up: Yes
Adjustable Front/Rear Feet	Pointing Down: Yes
	Roll (Portrait): Yes

Power Requirements	Power Consumption
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110VAC & 230VAC selectable, 50/60Hz single phase	Typical: 2800 W , Maximum 3100
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Thermal Dissipation	Fan Noise
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Max 10284 BTU/Hour @ 230VAC	Typical: 50dBa, Max 52dBa, Eco Typical: 47dBa
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Operating/Storage Temperature	Operating Humidity
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Operating: Full Power 0°C ~ 35°C (32°F ~95°F), ECO upto 40°C (104°F) Storage: -20°C ~ 60°C (-4°F ~ 140°F)	Operating: 10% ~ 90% non-condensing Storage: 10% ~ 90% non-condensing
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Weight (Chassis Only)	Dimensions
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95 kg 209 lb	L: 969.3mm, W: 650mm, H: 397.3mm (Excl handles) L: 38.2in, W: 25.6in, H: 15.6in (Excl handles)
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Safety & EMC Regulations

UL, CB, CCC, KC, RoHS (CN), FCC Class A, FDA, CE, IEC EN 60825-1 Class 3R Laser Product, IEC EN 62471-5 Risk Group 3, WEEE (UK)

Accessories

Accessory	Part No.
Infrared Remote Control (Replacement)	118-678
Optional lens mount insert for selected competitor lenses	119-729

*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

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|-------------------------------------|---|
| PDF CAD Drawings | User Guides |
| AUTOCAD Drawings | User Guides (German) |
| STEP / IGS Drawings | User Guides (French) |
| | Laser Risk Group Document |

[Rigging Frame CAD Drawings](#) [Rigging Frame CAD Drawings](#) [Important Information](#)

[Lens CAD Drawings](#)

[Control Protocol](#)



Certificate Number 13629
ISO 9001

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