

## Titan Laser 37000 WU (Preliminary)

37,000 ISO / 33,000 ANSI Lumens | Contrast Ratio: 18,000:1 (Dynamic Black) / 2,000:1 Native | Part No:119-704

### TITAN LASER SERIES DIGITAL PROJECTORS



THE VISIONARIES CHOICE

<b>Colour System:</b>	<b>DMD Specification:</b>
Laser Phosphor	Display capability upto WUXGA 2.3 megapixels pixels on screen at WUXGA
<b>Display Type:</b>	Fast transit pixels for smooth greyscale and improved contrast.
3 x 0.96" WUXGA DMD™	Display resolutions WUXGA (1920 x 1200)
	<b>Aspect Ratio:</b> 16x10
	<b>Fill Factor</b> 87%

### 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 HDMI 1.4b 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.

### 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

### 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**

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 within WUXGA

**Bandwidth**

498 Mpixels/sec via DisplayPort and HDMI2.0.

**Remote Control**

Addressable IR remote Control, Wireless and wired. On-Board keypad

**Automation Control**

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**

3200K to 9300K

**Lamp Type**

Laser Light Source

**Typical Lamp Life**

20,000 hours

**Lenses**

Lens	Part No.	Optimised Focus Range	Lens Shift
0.67:1 fixed HB	105-607	1.1m - 10m	Vert: 0.108 (U) 0.108 (D) frame, Hor: 0.044 (L) 0.044 (R) frame
1.12:1 fixed HB	105-608	3m - 15m	Vert: 0.567 (U) 0.45 (D) frame, Hor: 0.188 (L) 0.188 (R) frame
1.16 - 1.49:1 zoom HB	109-236	3m - 15m	Vert: 0.408 (U) 0.408 (D) frame, Hor: 0.188 (L) 0.188 (R) frame
1.39 - 1.87:1 zoom HB	105-610	4m - 24m	Vert: 0.567 (U) 0.45 (D) frame, Hor: 0.188 (L) 0.188 (R) frame
1.87 - 2.56:1 zoom HB	105-611	4m - 24m	Vert: 0.567 (U) 0.45 (D) frame, Hor: 0.188 (L) 0.188 (R) frame
2.56 - 4.16:1 zoom HB	105-612	9.1m - 45m	Vert: 0.567 (U) 0.45 (D) frame, Hor: 0.188 (L) 0.188 (R) frame
4.16 - 6.96:1 zoom HB	105-613	12m - 80m	Vert: 0.567 (U) 0.45 (D) frame, Hor: 0.188 (L) 0.188 (R) frame
6.92 - 10.36:1 zoom HB	109-235	12m - 80m	Vert: 0.567 (U) 0.45 (D) frame, Hor: 0.188 (L) 0.188 (R) frame

**Lens Mount**

Motorised Shift, Zoom and Focus.  
 Intelligent Lens Memory with 10 user-definable pre-set positions.

**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**

110VAC & 230VAC selectable, 50/60Hz single phase

**Power Consumption**

110V Typical: TBD W , Maximum TBD W (Reduced light output) 230V Typical: 3400W , Maximum TBD W

**Thermal Dissipation**

Max TBD BTU/Hour @ 110VAC Max 11600 BTU/Hour @ 230VAC BTU/Hour

**Fan Noise**

Typ: 50dBA, HIGH Altitude 52dBA Eco Typ: 47dBA

**Operating/Storage Temperature**

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 Humidity**

Operating: 10% ~ 90% non-condensing  
 Storage: 10% ~ 90% non-condensing

**Weight (Chassis Only)**

99 kg  
 218 lb

**Dimensions**

L: 930mm, W: 650mm, H: 350mm  
 L: 36.6in, W: 25.6in, H: 13.8in

**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



Certificate Number 13629  
ISO 9001

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**DIGITAL PROJECTION, LTD** GREENSIDE WAY, MIDDLETON MANCHESTER, UK. M24 1XX  
T: +44.161.947.3300 | F: +44.161.684.7674 | [www.digitalprojection.co.uk](http://www.digitalprojection.co.uk)

**DIGITAL PROJECTION, INC** 55 CHASTAIN ROAD, SUITE 115 KENNESAW, GA. 30144  
T: 770.420.1350 | F: 770.420.1360 | [www.digitalprojection.com](http://www.digitalprojection.com)

**DIGITAL PROJECTION, CHINA** Rm A2006, ShaoYaoJu 101 North lane, Shi AO International Center, Chao Yang District, Beijing, 100029, PR CHINA  
T: +86.10.58239771 | F: +86 10 58239770

**DIGITAL PROJECTION, ASIA** 16 NEW INDUSTRIAL ROAD, #02-10 HUDSON TECHNOCENTRE SINGAPORE 536204  
T: +65.6284.1138 | F: +65.6284.1238