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A Delta Group Company

TITAN LASER SERIES DIGITAL PROJECTORS

THE VISIONARIES CHOICE



Titan 41000 4K-UHD (préliminaire)

41 000 ISO / 36 000 ANSI @ 4K-UHD. 45 000 ISO / 42 000 ANSI @ WUXGA Lumens | Rapport de contraste : 18 000:1 (noir dynamique) / 2 000:1 natif | Numéro de pièce : 121-654

Spécifications clés :

Système de couleurs :	Laser Phosphore avec ColorBoost + Red Laser
Type d'affichage:	3 x 0,96" WUXGA DMD™
Spécification DMD :	Capacité d'affichage jusqu'à 4K-UHD 8,3 mégapixels à l'écran en 4K-UHD Pixels à transit rapide pour des niveaux de gris fluides et un contraste amélioré. Capacité d'affichage jusqu'à 4K-UHD (3840x2160)
Ratio d'aspect:	16:9
Facteur de remplissage	N/A en tant que Smooth Picture DMD
Principales caractéristiques:	<p>Traitement vidéo et graphique</p> <ul style="list-style-type: none"> • Conformité HDMI 2.0 pour les formats Side by Side, Frame Packing, Frame Sequential et TopBottom 3D. • DisplayPort 1.2 avec conformité HDCP 2.2. • Traitement des couleurs 10 bits (30 bits par pixel). • Prise en charge de l'affichage natif 1080p 24Hz. • Prise en charge de la résolution 4K 4096 x 2160. • Prise en charge HDR • Source d'entrée détectée automatiquement. • Mode de redondance d'entrée avec commutation automatique. • Traitement Dual Pipe : Deux sources en parallèle pour les yeux gauche et droit. • Synchronisation de lunettes 3D actives ou sélecteur polarisant.

- Mode de simulation DICOM.
- Moteur de lumière scellé

Caractéristiques générales

- Contrôle de la luminosité constante
- Contrôle de la luminosité et des couleurs de plusieurs projecteurs.
- Compatible avec certains objectifs tiers via un convertisseur d'objectif
- EDID sélectionnable
- Logo de démarrage personnalisé
- Réduction du maculage (trame rapide) (2D uniquement)
- Electronic PIC MUTE with selectable fade in/out timers
- On board 4 -line LCD display for at a glance status

Geometry Correction

- Vertical & Horizontal Keystone correction.
- Four Corner adjustment.
- Rotation.
- Pin/Barrel.
- Wall Corner adjustment.
- Centre Shift (Horizontal and Vertical linearity adjustment).
- Custom Warp.
- Upload of maps for warp, blend, uniformity and masking.
- Selectable aspect ratios: 5:4 / 4:3 / 16:10 /16:9 / 1.88 / 2.35 / TheaterScope / Source / Unscaled.
- Digital Zoom.
- Blanking control for custom input window sizing.

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.
- Upload of Blend Maps including Blend, Uniformity, Masking, Pixel by Pixel

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 4096 x 2160@60Hz 4:2:0 or 4K 4096 x 2160@30Hz 4:2:2
- Includes Ethernet 100BaseT and RS232/IR control.

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

	<p>Installation</p> <ul style="list-style-type: none"> • 4 x eye bolts fitted for easy rigging. • 4 x top stacking mounts and mount securing pins supplied as standard accessories. 																																																												
<p>Source Compatibility</p>	<p>2D Graphics standards up to 4K-UHD 3840x2160 resolution at 60Hz via HDMI 2.0b, HDBaseT (4:2:0), DisplayPort inputs 3D Graphics standards up to dual-pipe WUXGA 60Hz for input (120Hz output) via HDMI 2.0 and Display Port inputs 12G-SDI is SMPTE 259M, 292M, 424M and ST-2082 compliant.</p> <p>WUXGA mode 2D sources up to WUXGA 60Hz and 4K-UHD 60Hz can be displayed scaled to fit WUXGA 3D sources up to WUXGA 60Hz Input -120Hz output can be displayed scaled to fit WUXGA</p> <p>4K-UHD mode 2D sources up to 4K (4096 x 2160) will be displayed scaled to fit 4K-UHD</p> <p>Auto Mode Sources greater than WUXGA will be displayed scaled to fit 4K-UHD</p>																																																												
<p>Inputs/Outputs</p>	<table border="1"> <thead> <tr> <th colspan="3">Video & Computer</th> <th colspan="3">Communication & Control</th> </tr> <tr> <th>Type</th> <th>Connector</th> <th>Qty</th> <th>Type</th> <th>Connector</th> <th>Qty</th> </tr> </thead> <tbody> <tr> <td>DisplayPort 1.2a (2D)</td> <td>DisplayPort</td> <td>2</td> <td>3D SYNC IN</td> <td>BNC</td> <td>1</td> </tr> <tr> <td>HDMI 2.0b</td> <td>HDMI</td> <td>2</td> <td>3D Sync Out</td> <td>BNC</td> <td>1</td> </tr> <tr> <td>12G-SDI in</td> <td>BNC</td> <td>1</td> <td>LAN</td> <td>RJ45</td> <td>1</td> </tr> <tr> <td>12G-SDI out</td> <td>BNC</td> <td>1</td> <td>RS-232</td> <td>9-pin D-Sub</td> <td>1</td> </tr> <tr> <td>HDBaseT/LAN</td> <td>RJ45</td> <td>1</td> <td>Wired Remote</td> <td>3.5mm Stereo Jack</td> <td>1</td> </tr> <tr> <td></td> <td></td> <td></td> <td>12V Trigger</td> <td>3.5mm Stereo Jack</td> <td>1</td> </tr> <tr> <td></td> <td></td> <td></td> <td>3D Sync IR Out</td> <td>BNC</td> <td>1</td> </tr> <tr> <td></td> <td></td> <td></td> <td>USB 5V 2A</td> <td>Type A</td> <td>1</td> </tr> </tbody> </table>	Video & Computer			Communication & Control			Type	Connector	Qty	Type	Connector	Qty	DisplayPort 1.2a (2D)	DisplayPort	2	3D SYNC IN	BNC	1	HDMI 2.0b	HDMI	2	3D Sync Out	BNC	1	12G-SDI in	BNC	1	LAN	RJ45	1	12G-SDI out	BNC	1	RS-232	9-pin D-Sub	1	HDBaseT/LAN	RJ45	1	Wired Remote	3.5mm Stereo Jack	1				12V Trigger	3.5mm Stereo Jack	1				3D Sync IR Out	BNC	1				USB 5V 2A	Type A	1
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<p>3D Formats Supported</p>	<p>Sequential / 1080P/WUXGA @100Hz Sequential / 1080P/WUXGA @120Hz Dual-Pipe / 101080P/WUXGA80p @ 50Hz per eye Dual-Pipe / 1080P/WUXGA @ 60Hz per eye Also supports mandatory formats including side by side, top/bottom and frame packing</p>																																																												
<p>HDTV Formats Supported</p>	<p>1080p (23.98Hz, 24Hz, 25Hz, 29.97Hz, 30Hz, 50Hz, 59.94Hz, 60Hz). 1080i (50Hz, 59.94Hz, 60Hz). 720p (50Hz, 59.94Hz, 60Hz). 4K-UHD (23.97Hz, 24Hz, 25Hz, 29.97Hz, 30Hz, 50Hz, 60Hz).</p>																																																												
<p>Computer Compatibility</p>	<p>2D 4K-UHD up to 60Hz 3D Supported Formats will be displayed up to WUXGA</p>																																																												
<p>Bandwidth</p>	<p>18Gb/s (600MHz clock rate) on HDMI</p>																																																												
<p>Remote Control</p>	<p>Addressable IR remote Control, Wireless and wired. On-Board keypad</p>																																																												
<p>Automation Control</p>	<p>LAN RS-232 Alert E-Mails from Projector Served webpage OSD functions for full Projector Control via web browser LAN Control-Crestron Roomview™ LAN Control-Crestron eControl LAN Control-PJ Link compatible LAN Control-AMX SSDP LAN to RS232 (RS232 by Telnet) Concurrence Control for RS232/LAN DMX Art-Net control Scheduled On and Off times</p>																																																												

Colour Temperature	3200K to 9300K																																										
Operation																																											
illumination Type	Laser Light Source																																										
Typical illumination Life	20,000 Hours (Normal Mode) 40,000 Hours (ECO Mode)																																										
Lenses	<table border="1"> <thead> <tr> <th>Lens</th> <th>Part No.</th> <th>Optimised Focus Range*</th> <th>Lens Shift (Frame)</th> </tr> </thead> <tbody> <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> </tbody> </table> <p>* 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%,</p>			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 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	110V~130Vac/ 50~60Hz 180V~240Vac/ 50~60Hz single phase * Note that in 120V operation, the projector will be at 25% brightness TBC	
Power Consumption	230V Typical: 3650W , Maximum 4000W 110V Maximum: 1080W (TBC)	
Thermal Dissipation	Max 14160.38 BTU/hr @ 200VAC Max 3685 BTU/hr @ 110VAC	
Fan Noise	Max 54 dBA Eco Typ : 53 dBA (TBC)	
Operating/Storage Temperature Operating:	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	88 (without lens) kg / 194 (without lens) lbs	
Dimensions	L: 840mm, W: 650mm, H: 381mm (Excl handles) L: 33.1in, W: 25.6in, H: 15in (Excl handles) * See drawings for full details	
Safety & EMC Regulations	TBC	
Accessories	Accessory	Part No.
	Infrared Remote Control (Replacement) Optional lens mount insert for selected third party lenses (Contact local sales representative for further information)	118-678 119-729
*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	PDF CAD Drawings AUTOCAD Drawings STEP / IGS Drawings	
User Guide		



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