# **Titan Zoom Wash T1**

**User Manual** 



Order codes: ELUM417



### WARNING

# FOR YOUR OWN SAFETY, PLEASE READ THIS USER MANUAL CAREFULLY BEFORE YOUR INITIAL START-UP!

- Before your initial start-up, please make sure that there is no damage caused during transportation.
- · Should there be any damage, consult your dealer and do not use the equipment.
- To maintain the equipment in good working condition and to ensure safe operation, it is necessary for the user to follow the safety instructions and warning notes written in this manual.
- Please note that damages caused by user modifications to this equipment are not subject to warranty.



CAUTION!
TAKE CARE USING
THIS EQUIPMENT!
HIGH VOLTAGE-RISK
OF ELECTRIC SHOCK!!

#### **IMPORTANT:**

The manufacturer will not accept liability for any resulting damages caused by the non-observance of this manual or any unauthorised modification to the equipment.

- Never let the power cable come into contact with other cables. Handle the power cable and all mains voltage connections with particular caution!
- · Never remove warning or informative labels from the unit.
- Do not open the equipment and do not modify the unit.
- · Do not connect this equipment to a dimmer pack.
- Do not switch the equipment on and off in short intervals, as this will reduce the system's life.
- Do not expose to flammable sources, liquids or gases.
- Always disconnect the power from the mains when equipment is not in use or before cleaning! Only handle the power-cable by the plug. Never pull out the plug by pulling the power-cable.
- Make sure that the available mains supply voltage is between 100~240V AC, 50/60Hz.
- Make sure that the power cable is never crimped or damaged. Check the equipment and the power cable periodically.
- If the equipment is dropped or damaged, disconnect the mains power supply immediately and have a qualified engineer inspect the equipment before operating again.
- If your product fails to function correctly, stop use immediately. Pack the unit securely (preferably in the original packing material), and return it to your Pro Light dealer for service.
- Never touch the fixture during operation as it may be hot.
- · Only use fuses of same type and rating.
- We recommend this fixture should be serviced at least once every 3 months to prevent build-up of dust, dirt and debris that could affect the fixtures operation.

- Repairs, servicing and power connection must only be carried out by a qualified technician. THIS UNIT CONTAINS NO USER SERVICEABLE PARTS.
- This lighting fixture is for professional use only it is not designed for or suitable for household use. The product must be installed by a qualified technician in accordance with local territory regulations. The safety of the installation is the responsibility of the installer. The fixture presents risks of severe injury or death due to fire hazards, electric shock and falls.
- High power lighting fixtures are capable of producing powerful, concentrated beams of light that can create a fire hazard or a risk of eye injury if the safety precautions are not followed.
- This product is only suitable for temporary outdoor installation.
- WARRANTY: Two years from date of purchase.

### **OPERATING DETERMINATIONS**

If this equipment is operated in any other way, than those described in this manual, the product may suffer damage and the warranty becomes void. Incorrect operation may lead to danger e.g. short-circuit, burns and electric shocks etc. Do not endanger your own safety and the safety of others!

Incorrect installation or use can cause serious damage to people and/or property.



# PLEASE READ THE BELOW CAREFULLY BEFORE USING THE FIXTURE IN OUTDOOR/EXTREME ENVIRONMENTS



### **IP Rating:**

The IP (International Protection) rating classifies and rates the degree of protection provided against intrusion of foreign objects such as dust and water into housings and electrical enclosures.

The rating consists of the letters IP followed by two digits (i.e. IP65) where the numbers define the level of protection. The first digit (solids) stands for the level of protection the enclosure provides against solid bodies, whilst the second digit (liquids) stands for the degree of protection of the equipment inside the enclosure against water.

An IP65 rated fixture is one which has been designed and tested to protect from all ingress of dust (6) and water projected by low pressure jets (6.3mm) from any angle (5).



### Marine/Coastal Installations:

Although this fixture has an IP rating it is <u>NOT</u> suitable for installation in a coastal/marine environment. Installing this fixture in a coastal/marine environment could cause corrosion and excessive wear to the internal and/or external components. Any damages, faults or performance issues resulting from the installation in one of the environments listed above will void the manufacturers warranty and will <u>NOT</u> be subject to any warranty claims, parts or repairs.



### **IMPORTANT INFORMATION!**

If this fixture is installed in extreme outdoor and/or wet conditions, it MUST be powered ON and operated for a minimum of 30 minutes every 1-2 weeks. Excessive usage in extreme outdoor and/or wet conditions without a consistent usage cycle as described above can lead to component damage and/or a reduced fixture lifetime. Any damage to the fixture found to be a direct result of not following the above guidelines will void the manufacturers warranty and will NOT be subject to any warranty claims, parts or repairs.

Please ENSURE all connections are sealed with the rubber caps if provided and the correct cables are used and connected correctly to prevent dust and/or water ingress, condensation and/or corrosion.



This fixture falls under Protection Class 1, therefore it has to be connected to a mains socket with a protective earthing connection.

### Risk group 2, RG-2: CAUTION!

Do not stare at exposed LED in operation as it may damage/be harmful to the eyes. Avoid looking directly into the light source.

#### **CAUTION!**

The maximum ambient temperature (Ta) of 40° must not be exceeded.

### **CAUTION!**

If the lens gets damaged ie. cracks or deep scratches so the output is impaired then it must be replaced.

### **CAUTION!**

To avoid damage to internal parts ie. optics, motors, belts, wiring or LEDs never expose the front lens to direct sunlight, lighting fixtures or lasers even when the fixture is not in use.

### **Product overview & technical specifications**

### Titan Zoom Wash T1

Further expanding the Titan range, the Zoom Wash T1 is an IP65 rated fixture with a lightweight, compact, durable housing specifically designed for wet, dusty, and sandy conditions. Designed for both rental and installation applications, the fixture is equipped with 7 x 40W RGBL LEDs along with super-fast and guiet motors for precision movements. When used at its narrowest 3.5 degree zoom, sharp mid-air effects can be created whilst at its widest 44 degrees wide washes can bathe venues and stages in rich colours. The addition of lime in the LEDs produces a high CRI of 85Ra, and the central LED can be controlled separately to the outer LEDs, whilst an the RGB halo produces a range of eye-candy effects. The Titan Zoom Wash T1 has an adjustable refresh rate perfect for TV and film, it also features 3 selectable fan speeds including a studio mode with a 32.7dB noise level for noise sensitive applications. A range of preset colour macros, ring programs along with colour temperature presets further bolsters this fixtures offering.

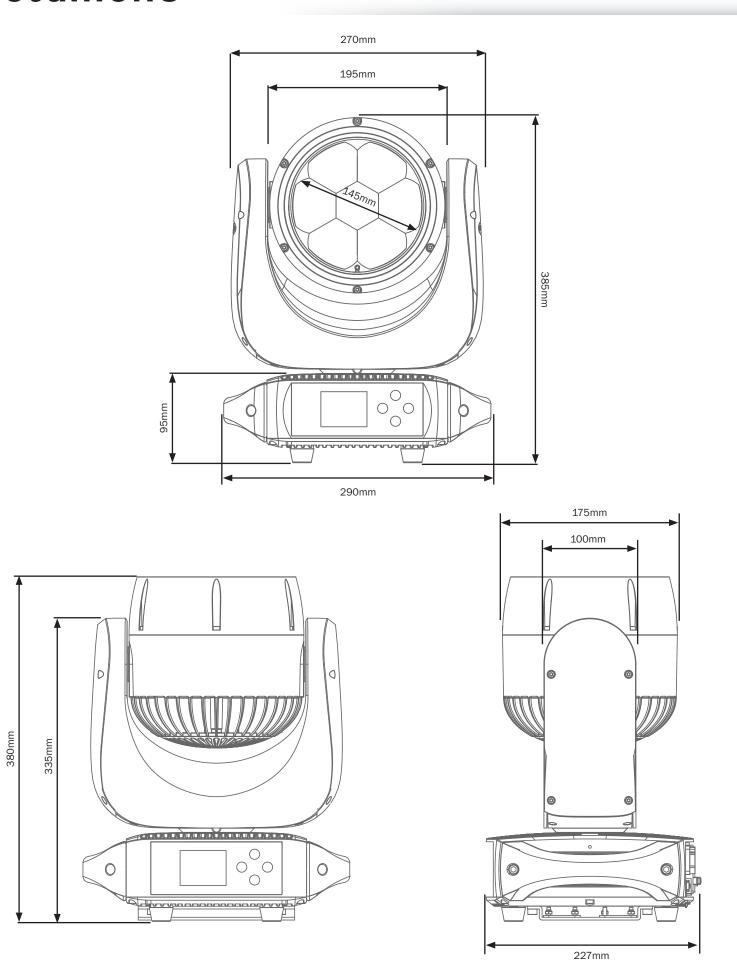
- 2 year warranty
- 7 x 40W quad-colour LEDs (RGBL)
- 46 x tri-colour 3535 SMD LEDs (RGB)
- Adjustable beam angle: 3.5°-45°
- 3.5° 82,723 Lux @ 2m (full on), 45° 2,040 Lux @ 2m (full on)
- CRI: >85Ra
- Refresh rate: 5 selectable presets between 1.2kHz-25kHz
- · Motorised zoom
- Pixel zone mapping
- DMX channels: 9/13/14/20/28/32 or 37 selectable
- Wireless control (W-DMX Sweden transceiver)
- · Auto, manual control and master/slave modes
- · Built-in colour macros and patterns
- · Colour temperature presets
- · Pan/tilt auto correction
- 16-Bit pan/tilt positioning
- Pan: 540°, Tilt: 220°
- 0 100% dimming
- 4 dimming curves: Linear, square law, inverse square law and S-curve
- Variable strobe
- PowerTwist TR1 input/output
- 5-Pin XLR input/output
- 3-Pin XLR input/output
- RDM (Remote Device Management)
- 4 button menu with 2.4" TFT display
- Display battery backup for offline configuration
- Supplied with quick release omega clamps
- Square hole spacing on omega clamp receivers allows for clamps to be mounted in all orientations
- USB-C port (firmware updates)
- 3 selectable fan modes (live, power and studio)



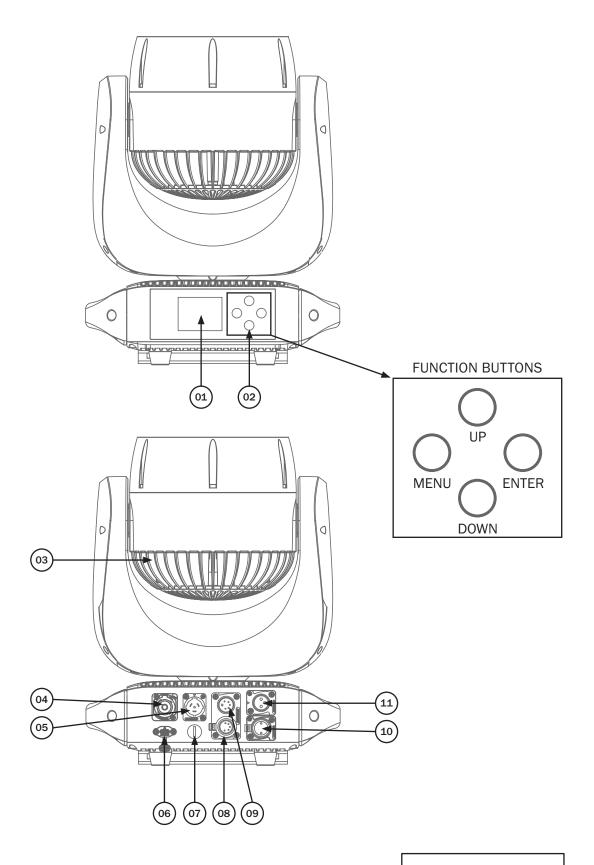
Specifications	Titan Zoon	Titan Zoom Wash T1					
Power consumption	320W						
Power supply	100~240V	, 50/60Hz					
Fuse	T6.3A 250	V					
IP rating	IP65						
Noise level @ 1m	Power - 41 With move	No movement: Studio – 32.7dB, Power – 41.6dB, Live – 41dB With movement: Studio – 47.7dB, Power – 50.8dB, Live – 50.5dB					
Dimensions	385 x 290	x 227mm					
Weight	10.1kg						
Order code	ELUM417						
3.5° - Lux FULL ON 330892	82723	36766	20680	13235			

FULL ON R G B	330892 54800 121600 18088	82723 13700 30400 4522	36766 6088 13511 2009	20680 3425 7600 1130	1323 2192 4864 723
L	161300	40325	17922	10081	6452
45° - Lux FULL ON R G B L	8160 1320 3144 632 3900	2040 330 786 158 975	907 147 349 70 433	510 82 196 39 244	326 52 126 25 156
				3.5° 45°	
0m	1m	2m	3m	4m	5m

### **Technical specifications**



### **Technical specifications**



01 - TFT display

02 - Function buttons

03 - Fan

04 - PowerTwist TR1 output

05 - PowerTwist TR1 input

06 - USB port

07 - Fuse T6.3A 250V

08 - 5-Pin DMX output

09 - 5-Pin DMX input

10 - 3-Pin DMX output

11 - 3-Pin DMX input

In the box: 1 x fixture,

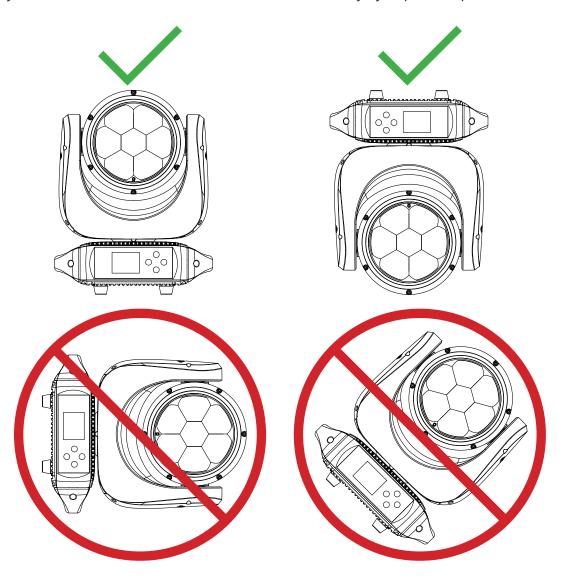
2 x omega clamps,

1 x safety wire &

1 x power cable

Before installing the fixture, the supporting structure (ie. truss) must be able to hold a minimum of 10 times the fixtures weight without any deformation (eg. 15kg - 150kg point load). The fixture must be secured with a secondary safety attachment when being installed (ie. an appropriate safety cable). Never stand directly below the fixture when mounting, removing, and/or servicing.

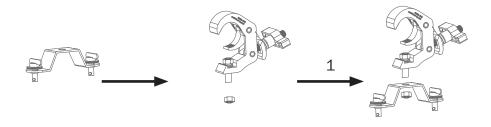
Overhead installation requires experience and qualifications to calculate working load limits, the material being used at the installation area and periodic safety inspections of the fixture and installation material. If you do not have the relevant experience and/or qualifications please do not attempt the installation yourself. The installation should be checked annually by a qualified person.

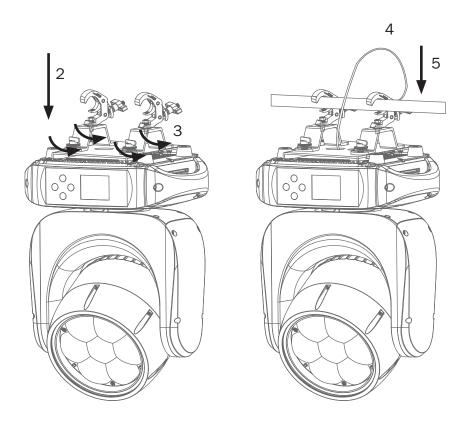


The Titan Zoom Wash T1 can be operated where the base of the fixture is horizontally orientated, this includes standing the fixture upright on a flat, level surface or hanging the fixture upside down. Do NOT install the fixture in a sideways position or in a position where the base of the fixture is orientated vertically or at an angle. Always use a safety wire as an extra safety precaution to prevent damage/injury in the event a clamp fails (see the next page for clamp installation). Never use the carry handles for secondary attachments.

### **Installation:**

- 1. Fasten each clamp to the omega clamps with a bolt and lock nut through the hole in the omega clamp.
- 2. Align and insert the omega clamp quick-lock fasteners with the respective holes on the bottom of the unit.
- 3. Tighten both locking fasteners clockwise on each omega clamp ensuring they're fully secure.
- 4. Mount the fixture onto your truss system via the clamps and tighten to ensure secure.
- 5. Pull the safety cable through the safety cable holes located on the metal base plate on the underside of the fixture and around the truss.





### **CAUTION!**

WE ALWAYS RECOMMEND TESTING THE IP INTEGRITY AFTER LAMP REPLACEMENT/OPENING THE HOUSING, USING THE ELUMEN8 IP TESTER. CONTACT PROLIGHT SERVICE FOR MORE INFORMATION.

Titan Zoom Wash T1 IP Testing Parameters											
Type Test Min. Max. Target Value Filling Time Stable Time Testing Acceptable Change due to Leakage											
Pressure Test	1.01 psi (7 KPa)	1.3 psi (9 KPa)	1.16 psi (8 KPa)	15 seconds	8 seconds	15 seconds	0.01 psi (<0.1 KPa)				





### **Control Panel Menu:**

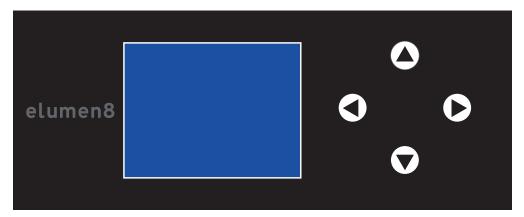
The TFT control panel situated on the front of the fixture allows the user to access the menu system to adjust the fixtures settings.

To unlock the menu system first press and hold menu for 10-15 seconds to wake the menu system, then use the password "UP, DOWN, UP, DOWN, ENTER" to access the menu system.

When the unit has been powered on the display will show "Elumen8 Reset...". The fixture will then return to its home screen. Pressing the "MENU" button once will take the user to the fixtures main menu. Using the "UP" and "DOWN" buttons you can then navigate between the different options in the main menu. Pressing the "ENTER" button on one of these options allows you to access the sub menu where you can use the "LEFT" and "RIGHT" buttons to select option/value required. Once the option/value has been selected press the "ENTER" button once more to confirm the setting.

To exit out of any of the above options, press and hold the "MENU" button.

The TFT control panel can be used via the internal battery. To access this press and hold the "MENU" button for 5 seconds until the fixtures home screen is displayed. The TFT display will automatically shut off after 20 seconds of inactivity.



#### **Error Codes:**

When the unit is powered on the unit will automatically perform a motor reset. If there is a problem with any of the motors you can find the error in the menu. See page 14 for details. Please power the unit off and on to reset the motors again.

Error Code
Memory IC
Angle Sensor
Pan Sensor
Pan Encoder
Pan Drive IC
Tilt Sensor
Tilt Encoder
Tilt Drive IC
Temperature



To unlock the menu system first press and hold menu for 10-15 seconds to wake the menu system, then use the password "UP, DOWN, UP, DOWN, ENTER" to access the menu system.

Main Menu	Sub Menu	Options/Values (Default Settings in BOLD)	Description	
DMX Address		<b>001</b> -512	DMX Address Setting	
		Basic (9 channel mode)		
		Basic Plus (13 channel mode)	_	
		Standard (14 channel mode)		
Personality		Standard Plus (20 channel mode)	DMX Channel Modes	
		Standard Fine (28 channel mode)		
		Extend (32 channel mode)	_	
		Extend Plus (37 channel mode)	7	
	DMX512			
5 44 1	Auto			
Run Mode	Custom 1		Run Modes	
	Custom 2			
	Dan Invent	Normal	Day Callings	
	Pan Invert	Invert	Pan Settings	
	T	Normal	T'' 0 11'	
	Tilt Invert	Invert	Tilt Settings	
		Studio		
	Perform	Power	Perform Mode	
		Live		
	Disabaset	Off	Dischard Cattings	
	Blackout	On	Blackout Settings	
	Zaarra Danaga	Ultra Narrow	Zaana Cattin za	
	Zoom Range	Regular	Zoom Settings	
Onting	Diaman	DIMM 4	Dimmer Speed Setting	
Option	Dimmer	Off	(Halogen Emulation)	
		Linear		
	D:	Square Law	Diametria d'Occasion Cattline de	
	Dimmer Curve	Inv. Square Law	Dimming Curve Settings	
		S-Curve		
		1200Hz		
		2400Hz		
	LED PWM	4000Hz	LED Refresh Rate Settings	
		6000Hz		
		25000Hz	7	
	DAAY F	Save	DMX Error	
	DMX Error	Black		

### **Operating instructions**

Main Menu	Sub Menu	Options/Values (	Default Settings	in BOLD)	Description	
		On				
		30s				
	Display Time	1min			Display Time	
		2min				
	Display Look	Off			Display Lock	
	Display Lock	On		Display Lock		
	Load Sattings	Off			Load Settings	
	Load Settings	On	i .		Load Settings	
		Factory	**** ( <up>, <down>, <up>, &lt;[</up></down></up>	DOWN>, <enter>)</enter>	Factory Reset	
	Setting Reset	Custom 1	**** ( <up>, <down>,<up>, <down>, <enter>)</enter></down></up></down></up>	Pressing the	ne password, it can delete the STOM 1	
Option (cont.)		Custom 2	*** ( <up>, <down>,<up>, <down>, <enter>)</enter></down></up></down></up>	Pressing the	ne password, it can delete the STOM 2	
Option (cont.)	DT Foodbook	Off			Foodbook Cottings	
	PT Feedback	On			Feedback Settings	
	WDMX Reset	No			WDMV Dooot	
	WDIVIA Reset	Yes		WDMX Reset		
		Only XLR DMX				
	Signal	Only WDMX			Signal Settings	
		WDMX to XLR DN	ИX			
		Off				
	Colour Cali	User Calibration	Red	0-255		
			Green	0-255	Calibration Settings	
	Colour Call		Blue	0-255	Calibration Settings	
			Lime	0-255		
		Factory Calibration	on	,		
			Pan	0-255		
			Tilt	0-255		
			Zoom	0-255		
			Red	0-255		
			Green	0-255		
			Blue	0-255		
			Lime	0-255		
Edit	Edit 1-2	Step 1-10	Strobe	0-255	Custom Program Settings	
		'	Preset Colour	0-255		
			ССТ	0-255		
			Red Ring	0-255		
			Green Ring	0-255		
			Blue Ring	0-255		
			Time (step length in secs)	0-255		
			Use	Yes/No		

Main Menu	Sub Menu	Options/Values	Default Settings	in BOLD)	Description	
			Pan	0-255		
			Tilt	0-255		
			Zoom	0-255		
			Red	0-255		
			Green	0-255		
			Blue	0-255		
			Lime	0-255		
Edit (cont.)	Edit 1-2	Step 1-10	Strobe	0-255	Custom Program Settings	
	Lait 12		Preset Colour	0-255	- odotom r rogram octango	
			ССТ	0-255		
			Red Ring	0-255		
			Green Ring	0-255		
			Blue Ring	0-255		
			Time (step length in secs)	0-255		
			Use	Yes/No		
	Auto Test				Auto test	
			Pan	0-255	]	
			Tilt	0-255	]	
			Zoom	0-255		
			Red	0-255		
					]	
					]	
	Channel		Lime	0-255	Manual Control Settings	
Manual			Strobe	0-255	_	
			Preset Colour	0-255	]	
			ССТ	0-255	]	
			Red Ring	0-255	]	
			Green Ring	0-255	]	
			Blue Ring	0-255		
			All Reset		]	
	Reset	PT Reset		Reset Options		
					]	
Service	****		Pan	±127	Service Settings	
COLVIOC	( <up>, <down>,<up>, <down>, &lt;</down></up></down></up>	ENTER>)	Tilt	±127	COLVIDO OCUITGO	



### **Operating instructions**

Main Menu	Sub Menu	Options/Values	(Default Settings in BOLD)	Description		
	Fixture Hours	xxx		Runtime Information		
	LED Use Hours	xxx		LED Information		
	Temperature	xxx°		Temperature Information		
	Version	Vx.x.xx		Software Version		
	DDM	UID		DDM Cattings		
	RDM	Label		RDM Settings		
		Memory IC				
Info		Angle Sensor				
		Pan Sensor				
		Pan Encoder				
	System Error	Pan Drive IC		System Errors		
		Tilt Sensor				
		Tilt Encoder				
		Tilt Drive IC				
		Temperature				
Update Software				Software Update		
		1800K	RGBW			
		2200K				
		2700K				
		3000K				
		3200K				
		4000K				
CCT		4500K		CCT Mode		
		5000K		CCT Wiode		
		5600K				
		6000K				
		6500K				
		7000K				
		8000K				
	,	10000K				
		Colour 1	RGBW	_		
Preset Colour		Colour 2		Colour Preset		
Treser Goldan				- Colour Fredet		
		Colour 24				
		Cyan		_		
		Magenta		_		
CMY	CMY			CMY Mode		
		C+Y				
		M+Y				

	Channel								1
9CH Basic	13CH Basic Plus	14CH Standard	20CH Standard Plus	28CH Standard Fine	32CH Extend	37CH Extend Plus	Value	Function	Default Value
1	1	1	1	1	1	1	000-255	Pan movement (8 bit)	1
-	-	-	-	2	2	2	000-255	Pan fine (16 bit)	1
2	2	2	2	3	3	3	000-255	Tilt movement (8 bit)	1
-	-	-	-	4	4	4	000-255	Tilt fine (16 bit)	000
-	-	-	-	5	5	5	000-255	Pan/tilt speed (fast-slow)	Ī
3	3	3	3	6	6	6	000-255	Master dimmer (0-100%)	1
-	-	-	-	7	7	7	000-255	Master dimmer fine	Ī
								Strobe	•
							000-031	LED off	
							032-063	LED on	1
							064-095	Strobe (slow-fast)	1
4	4	4	4	8	8	8	096-127	LED on	Ī
							128-159	Pulse strobe (slow-fast)	1
							160-191	LED on	1
							192-223	Random strobe (slow-fast)	1
							224-255	LED on	1
5	5	5	5	9	-	-	000-255	Red dimmer (0-100%)	1
-	-	-	-	10	-	-	000-255	Red dimmer fine (0-100%)	1
6	6	6	6	11	-	-	000-255	Green dimmer (0-100%)	7
-	-	-	-	12	-	-	000-255	Green dimmer fine (0-100%)	1
7	7	7	7	13	-	-	000-255	Blue dimmer (0-100%)	
-	-	-	-	14	-	-	000-255	Blue dimmer fine (0-100%)	
8	8	8	8	15	-	-	000-255	Lime dimmer (0-100%)	
-	-	-	-	16	-	-	000-255	Lime dimmer (0-100%)	000
-	-	-	-	-	9	9	000-255	Red 1 dimmer (0-100%)	
-	-	-	-	-	10	10	000-255	Red 1 dimmer fine (0-100%)	
-	-	-	-	-	11	11	000-255	Green 1 dimmer (0-100%)	
-	-	-	-	-	12	12	000-255	Green 1 dimmer fine (0-100%)	
-	-	-	-	-	13	13	000-255	Blue 1 dimmer (0-100%)	
-	-	-	-	-	14	14	000-255	Blue 1 dimmer fine (0-100%)	
-	-	-	-	-	15	15	000-255	Lime 1 dimmer (0-100%)	
-	-	-	-	-	16	16	000-255	Lime 1 dimmer (0-100%)	_
-	-	-	-	-	17	17	000-255	Red 2 dimmer (0-100%)	_
-	-	-	-	-	18	18	000-255	Red 2 dimmer fine (0-100%)	_
-	-	-	-	-	19	19	000-255	Green 2 dimmer (0-100%)	_
-	-	-	-	-	20	20	000-255	Green 2 dimmer fine (0-100%)	_
-	-	-	-	-	21	21	000-255	Blue 2 dimmer (0-100%)	_
-	-	-	-	-	22	22	000-255	Blue 2 dimmer fine (0-100%)	

			Channel																			
9CH Basic	13CH Basic Plus	14CH Standard	20CH Standard Plus	28CH Standard Fine	32CH Extend	37CH Extend Plus	Value	Function	Default Value													
-	-	-	-	-	23	23	000-255	Lime 2 dimmer (0-100%)														
-	-	-	-	-	24	24	000-255	Lime 2 dimmer (0-100%)														
9	9	9	9	17	25	25	000-255	Zoom	000													
-	-	-	-	18	26	26	000-255	Zoom Fine	$\neg$													
								ССТ	•													
							000-009	No function														
							010-024	1800K														
							025-039	2200K														
							040-054	2700K														
							055-069	3000K														
					070-084	3200K																
			40	10		07	085-099	4000K														
-	-	-	10	19	-	27	100-114	4500K	000													
					115-129	5000K																
					130-144	5600K																
					145-159	6000K																
						160-174	6500K															
											175-189	7000K										
							190-204	8000K														
							205-255	10000К														
								Colour Presets														
							000-009	No function														
										010-014	Red											
							015-019	Green														
											020-024	Blue										
							025-029	Yellow	_													
							030-034	Magenta														
							035-039	Cyan														
_	_	_	11	20	_	28	040-044	White														
_	_	_		20	_	20	045-049	Violet Blue	000													
							050-054	Light Blue	_													
							055-059	Wine Red	_													
							060-064	May Green	_													
										065-069	Reseda Green	_										
							075-079	Moss green	_													
							080-084	Signal violet	_													
							085-089	Red lilac														

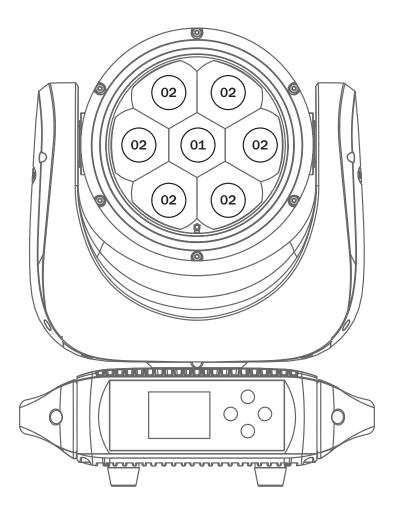


	,		Channel		,					
9CH Basic	13CH Basic Plus	14CH Standard	20CH Standard Plus	28CH Standard Fine	32CH Extend	37CH Extend Plus	Value	Function	Default Value	
								Colour Presets (cont.)	'	
							090-094	Purple Red		
							095-099	Green Brown		
							100-104	Pale Green		
							105-109	Ruby Red		
							110-114	Flame Red		
							115-119	Red Orange		
							120-124	Rose		
							125-129	Honey Yellow		
							130-134	Light Pin		
-	-	-	11	20	-	28	135-139	Deep Orange		
							140-144	Lemon	000	
						145-149	Golden Yellow			
								150-154	Pastel Orange	
								155-159	Cream	
						160-164	Melon Yellow			
						165-169	Luminous Orange			
							170-174	Luminous Yellow		
								175-179	Colour scroll forwards (slow-fast)	
							180-248	Colour scroll stop		
							249-255	Colour scroll backwards (fast-slow)		
-	-	10	12	21	27	29	000-255	Ring Dimmer		
								Strobe		
							000-031	LED off		
							032-063	LED on		
							064-095	Strobe (slow-fast)		
-	-	11	13	22	28	30	096-127	LED on		
							128-159	Pulse strobe (slow-fast)		
							160-191	LED on	000	
							192-223	Random strobe (slow-fast)		
							224-255	LED on		
-	-	12	14	23	29	31	000-255	Red dimmer (0-100%)	_	
-	-	13	15	24	30 32	000-255	Green dimmer (0-100%)	_		
-	-	14	16	25	31	33	000-255	Blue dimmer (0-100%)		
								Colour Presets (Ring)		
_	10 - 17 26 -	_	34	000-009	No function	_				
			34	010-014	Red	000				
				015-019	Green					

			Channel								
9CH Basic	13CH Basic Plus	14CH Standard	20CH Standard Plus	28CH Standard Fine	32CH Extend	37CH Extend Plus	Value	Function	Default Value		
								Colour Presets (Ring) (cont.)	•		
									020-024	Blue	
							025-029	Yellow			
							030-034	Magenta			
							035-039	Cyan			
							040-044	White			
							045-049	Violet blue			
							050-054	Light blue			
							055-059	Wine red			
							060-064	May green			
							065-069	Reseda green			
							070-074	Blue lilac			
							075-079	Moss green			
							080-084	Signal violet			
							085-089	Red lilac			
								090-094	Purple red		
								095-099	Green brown		
-	10	-	17	26	-	34	100-104	Pale green	000		
							105-109	Ruby red			
							110-114	Flame red			
									115-119	Red orange	
							120-124	Rose			
							125-129	Honey yellow			
							130-134	Light pin			
							135-139	Deep orange	$\neg$		
							140-144	Lemon			
							145-149	Golden yellow			
							150-154	Pastel orange			
							155-159	Cream			
							160-164	Melon yellow			
							165-169	Luminous orange			
							170-174	Luminous yellow			
							175-179	Colour scroll forwards (slow-fast)			
							180-248	Colour scroll stop			
							249-255	Colour scroll backwards (fast-slow)			
								Ring Macros			
-	11	-	18	27	-	35	000-009	No function	000		
							010-023	FX1	000		

Channel									
9CH Basic	13CH Basic Plus	14CH Standard	20CH Standard Plus	28CH Standard Fine	32CH Extend	37CH Extend Plus	Value	Function	Default Value
								Ring Macros (cont.)	1
							024-037	FX2	
							038-051	FX3	1
							052-065	FX4	7
							066-079	FX5	7
							080-093	FX6	1
							094-107	FX7	1
							108-121	FX8	1
	14		40	07		٥٦	122-135	FX9	
-	11	-	18	27	-	35	136-149	FX10	000
							150-163	FX11	
							164-177	FX12	
							178-191	FX13	
							192-205	FX14	
							206-219	FX15	
							220-233	FX16	
							234-247	FX17	_
							248-255	No function	
-	12	-	19	28	-	36	000-255	Ring speed	
								Control (Hold for 3 sec)	
							000	No function	_
							001-010	Pan/Tilt black activated	_
							011-020	Pan/Tilt black deactivated	_
							021-030	Pan invert	_
							031-040	Tilt invert	_
							041-050	Pan/Tilt invert off	_
							051-060	Live	4
							061-070	Studio	_
-	13	-	20	-	32	37	071-080	Power	000
							081-090	Reserved	
							091-100	Dimmer linear	_
							101-110	Dimmer square law	4
							111-120	Dimmer inv. square law	_
							121-150	Dimmer S-Curve	4
							151-160	Dimmer selected by menu	_
							161-170	1200Hz	_
							171-180	2400Hz	_
							181-190	4000Hz	

Channel									
9CH Basic	13CH Basic Plus	14CH Standard	20CH Standard Plus	28CH Standard Fine	32CH Extend	37CH Extend Plus	Value	Function	Default Value
	13	-	20	-	32	37	Control (Hold for 3 sec) (cont.)		
							191-200	6000Hz	000
-							201-210	25000Hz	
							211-220	All reset	
							221-230	XPan/tilt reset	
								231-255	Zoom reset



Display Position: PAN = 000, TILT = 000



### Setting the DMX address:

The DMX mode enables the use of a universal DMX controller. Each fixture requires a "start address" from 1-512. A fixture requiring one or more channels for control begins to read the data on the channel indicated by the start address. For example, a fixture that occupies or uses 7 channels of DMX and was addressed to start on DMX channel 100, would read data from channels: 100, 101, 102, 103, 104, 105 and 106. Choose a start address so that the channels used do not overlap. E.g. the next unit in the chain starts at 107.

### **DMX 512:**

DMX (Digital Multiplex) is a universal protocol used as a form of communication between intelligent fixtures and controllers. A DMX controller sends DMX data instructions form the controller to the fixture. DMX data is sent as serial data that travels from fixture to fixture via the DATA "IN" and DATA "OUT" XLR terminals located on all DMX fixtures (most controllers only have a data "out" terminal).

#### **DMX linking:**

DMX is a language allowing all makes and models of different manufactures to be linked together and operate from a single controller, as long as all fixtures and the controller are DMX compliant. To ensure proper DMX data transmission, when using several DMX fixtures try to use the shortest cable path possible. The order in which fixtures are connected in a DMX line does not influence the DMX addressing. For example; a fixture assigned to a DMX address of 1 may be placed anywhere in a DMX line, at the beginning, at the end, or anywhere in the middle. When a fixture is assigned a DMX address of 1, the DMX controller knows to send DATA assigned to address 1 to that unit, no matter where it is located in the DMX chain.

### DATA cable (DMX cable) requirements (for DMX operation):

This fixture can be controlled via DMX-512 protocol. The DMX address is set on the back of the unit. Your unit requires either a standard 3-pin or 5-pin XLR connector for data input/output, see images below.





Further DMX cables can be purchased from all good sound and lighting suppliers or Prolight Concepts dealers.

Please quote: 3-Pin: CABL10 - 2m CABL11 - 5m CABL12 - 10m

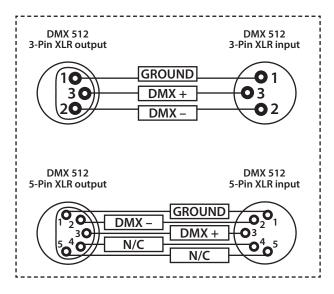
5-Pin: CABL185 - 2m CABL187 - 5m CABL188 - 10m

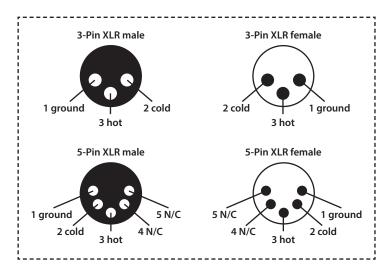
Also remember that DMX cable must be daisy chained and cannot be split.

#### Notice:

Be sure to follow the diagrams below when making your own cables. Do not connect the cables shield conductor to the ground lug or allow the shield conductor to come in contact with the XLRs outer casing. Grounding the shield could cause a short circuit and erratic behaviour.

Pin Configuration					
3-Pin	5-Pin				
Pin 1 - Ground					
Pin 2 - Negative					
Pin 3 - Positive					
_	Pin 4 - N/C				
-	Pin 5 - N/C				



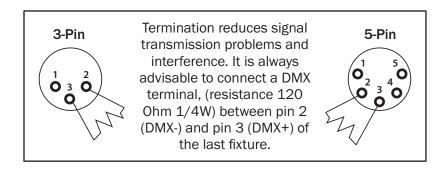


#### **Line termination:**

When longer runs of cable are used, you may need to use a terminator on the last unit to avoid erratic behaviour.

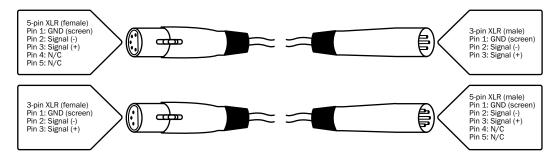
Using a cable terminator will decrease the possibilities of erratic behaviour.

(3-pin - Order ref: CABL90, 5-pin - Order ref: CABL89)



#### 5-pin XLR DMX connectors:

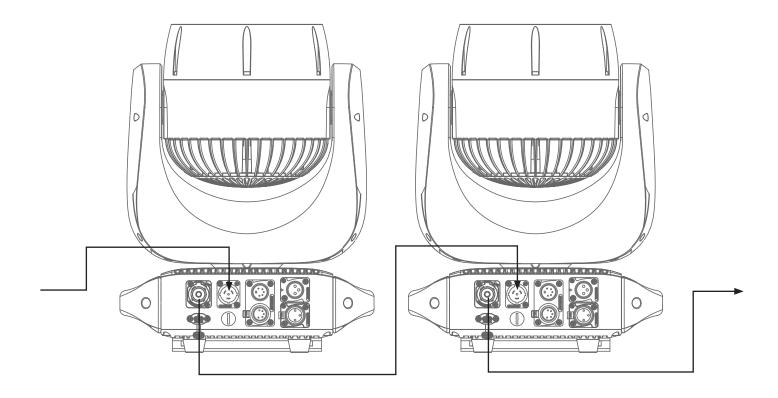
Some manufactures use 5-pin XLR connectors for data transmission in place of 3-pin. 5-pin XLR fixtures may be implemented in a 3-pin XLR DMX line. When inserting standard 5-pin XLR connectors in to a 3-pin line a cable adaptor must be used. The diagram below details the correct cable conversion.



### **Power linking:**

This fixture provides power linking via the power output on the rear allowing multiple units to be connected together. The maximum number of fixtures that can be connected via a 13A mains input is 4 fixtures @ 240V or 2 fixtures @ 120V (including the first fixture). After the maximum number of fixtures are connected a new power run will need to be started.

Please note: Caution should be used when power linking other fixtures to the Titan Zoom Wash T1 as the power consumption of other fixtures will vary. Fixtures fitted with lamps often require 2/3 times more current on startup, these may require their own power source.





# Correct Disposal of this Product (Waste Electrical & Electronic Equipment)

(Applicable in the European Union and other European countries with separate collection systems)

This marking shown on the product or its literature, indicates that it should not be disposed with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.

