elumen8

Evora 1940ZP Zoom Wash

User Manual

Order codes: ELUM704

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!
KEEP THIS EQUIPMENT AWAY FROM RAIN, MOISTURE AND LIQUIDS

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.
- Only use the equipment indoors.
- 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 the equipment has been exposed to drastic temperature fluctuation (e.g. after transportation), do not connect power or switch it on immediately. The arising condensation might damage the equipment. Leave the equipment switched off until it has reached room temperature.
- 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 Prolight dealer for service.
- 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.
- Warning! Risk Group 2 LED product according to EN 62471. Do not view the light output with optical instruments or any device that may concentrate the beam.
- 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.

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.

Evora 1940ZP Zoom Wash

The Evora 1940ZP LED Zoom Wash produces an incredible high output from a sleek and durable chassis, making it a truly versatile yet affordable solution for both rental and installation applications. The first-class optical system presents a high intensityadjustable zoom; the narrow 4 degree beam angle creates sharp mid-air effects, whilst the wider angles produce uniform colour mixing, bathing concerts and events in rich colours. Full pixel control over the 19 x 40W Osram Ostar™ quad-colour LEDs gives lighting designers a further level of creativity, whilst colour calibration ensures colour consistency from batch to batch.

- 19 x 40W Osram Ostar™ quad-colour LEDs (RGBW)
- Adjustable beam angle: 4°- 50°
- Lumens – Source: 19,874
- Lumens – Output: 12,214
- 4° - 124,972 Lux @ 2m (full on), 50° - 8,876 Lux @ 2m (full on)
- CRI: 78
- Refresh rate: 14 selectable presets between 900Hz-25kHz
- Motorised zoom
- Full pixel mapping capabilities
- Control protocols: DMX, Kling-net, Art-net and sACN
- DMX channels: 11/17/25 or 101 selectable
- Wireless control (W-DMX Sweden transceiver)
- Can be used to receive wireless DMX and relay the DMX signal via the XLR output
- Features an integral Art-Net to DMX for control of DMX fixtures downstream on the same universe
- Manual control and master/slave modes
- Built-in colour macros and patterns
- Colour temperature presets
- Pan/tilt transit lock and auto correction
- 16-Bit pan/tilt positioning
- Pan: 540° or 630° selectable, Tilt: 250°
- 0 - 100% dimming
- 5 dimming modes: Standard, stage, TV, architectural and theatre
- Variable strobe
- powerCON TRUE1, 5-Pin XLR and etherCON inputs/outputs
- RDM (Remote Device Management)
- 6 button menu with 1.8” LCD display
- Display battery backup for offline configuration
- Supplied with quick release omega clamps
- USB port (firmware updates)
- Temperature controlled fan

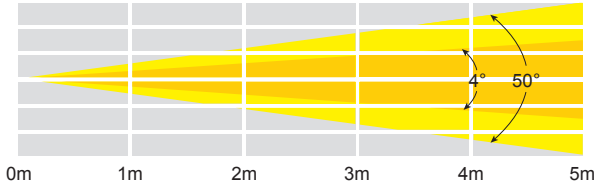
Specifications	Evora 1940ZP Zoom Wash
Power consumption	935W
Fuse	T12A 250V
Power supply	100~240V, 50/60Hz
Noise level	45.2dBA @ 1m (low speed), 49.9dBA @ 1m (auto speed), 53dBA @ 1m (high speed)
Dimensions (H x W x D)	465 x 400 x 259mm
Weight	19kg
Order code	ELUM704

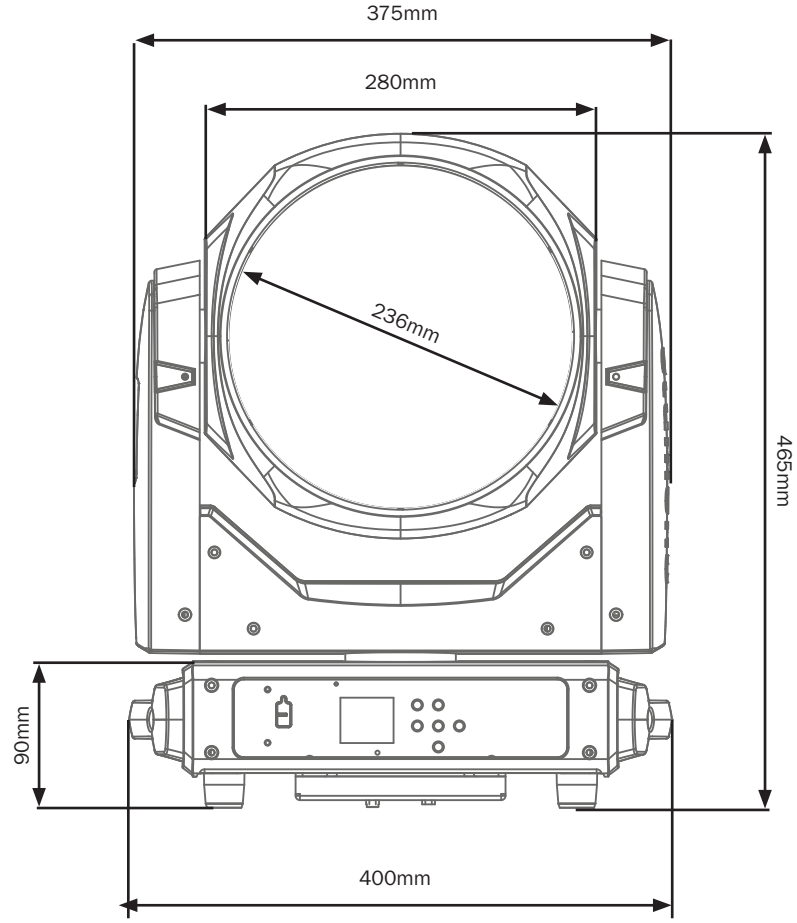
4° - Lux

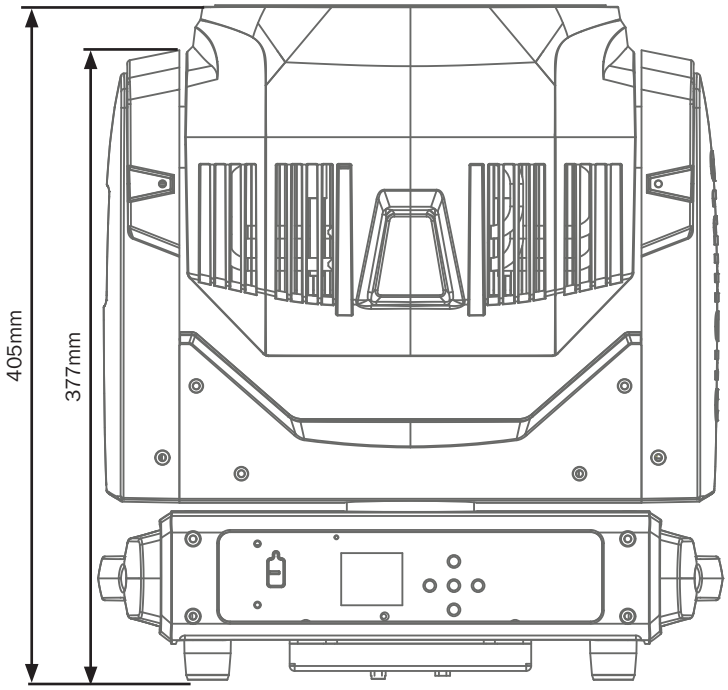
FULL ON	499888	124972	55543	31243	19996
R	82476	20619	9164	5155	3299
G	193152	48288	21461	12072	7726
B	32096	8024	3566	2006	1284
W	351524	87881	39058	21970	14061

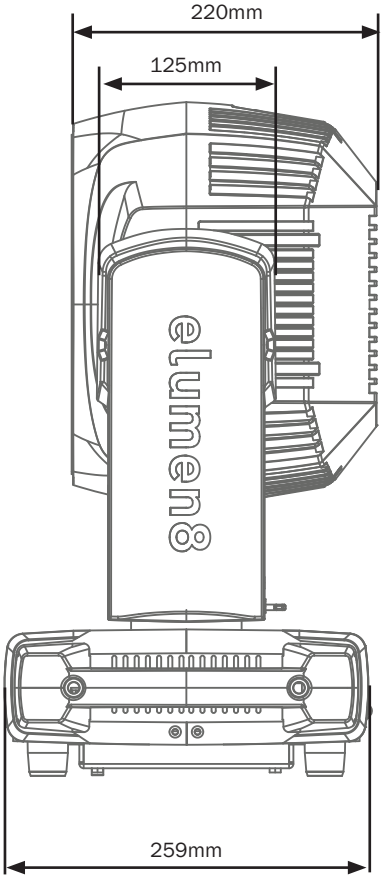
50° - Lux

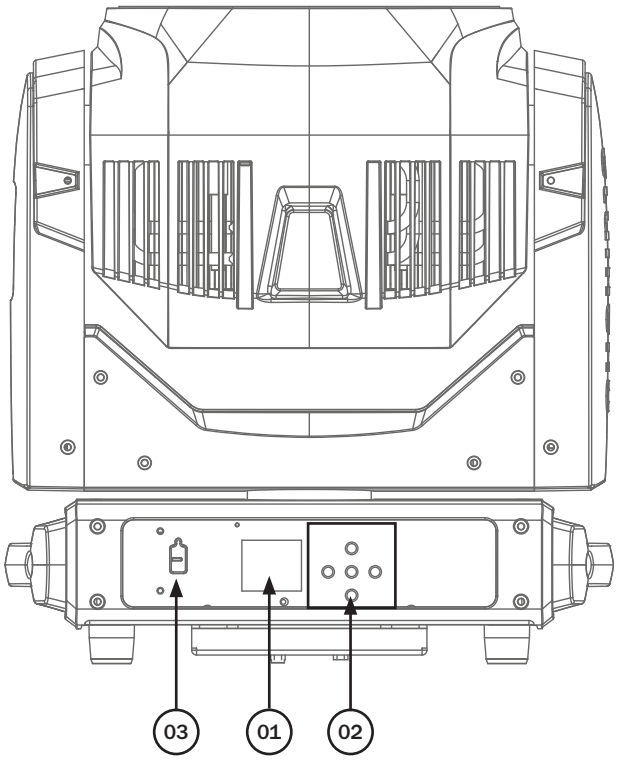
FULL ON	35504	8876	3945	2219	1420
R	7672	1918	853	480	307
G	11856	2964	1317	741	474
B	3420	855	380	214	137
W	16708	4177	1856	10445	668

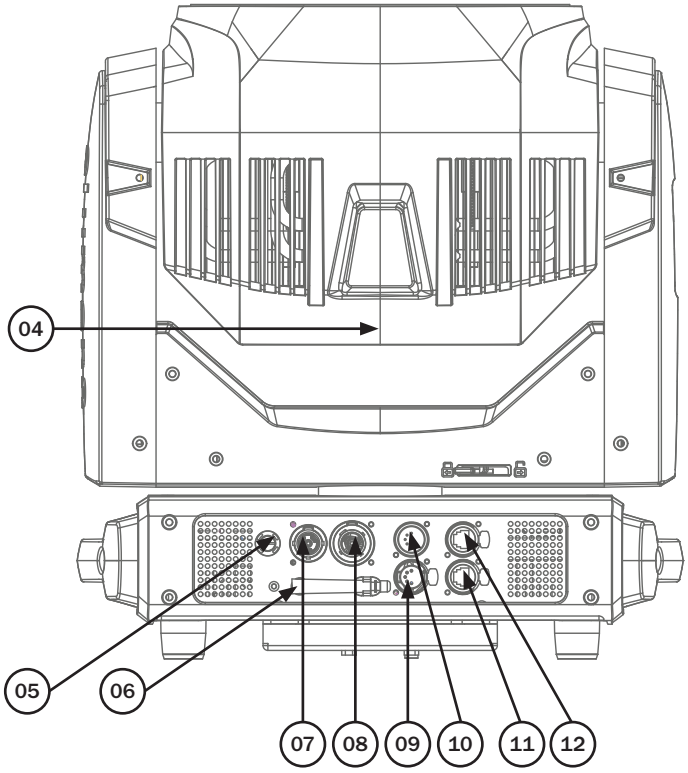



375mm
280mm
236mm
465mm
90mm
400mm


405mm
377mm


220mm
125mm
elumen8
259mm



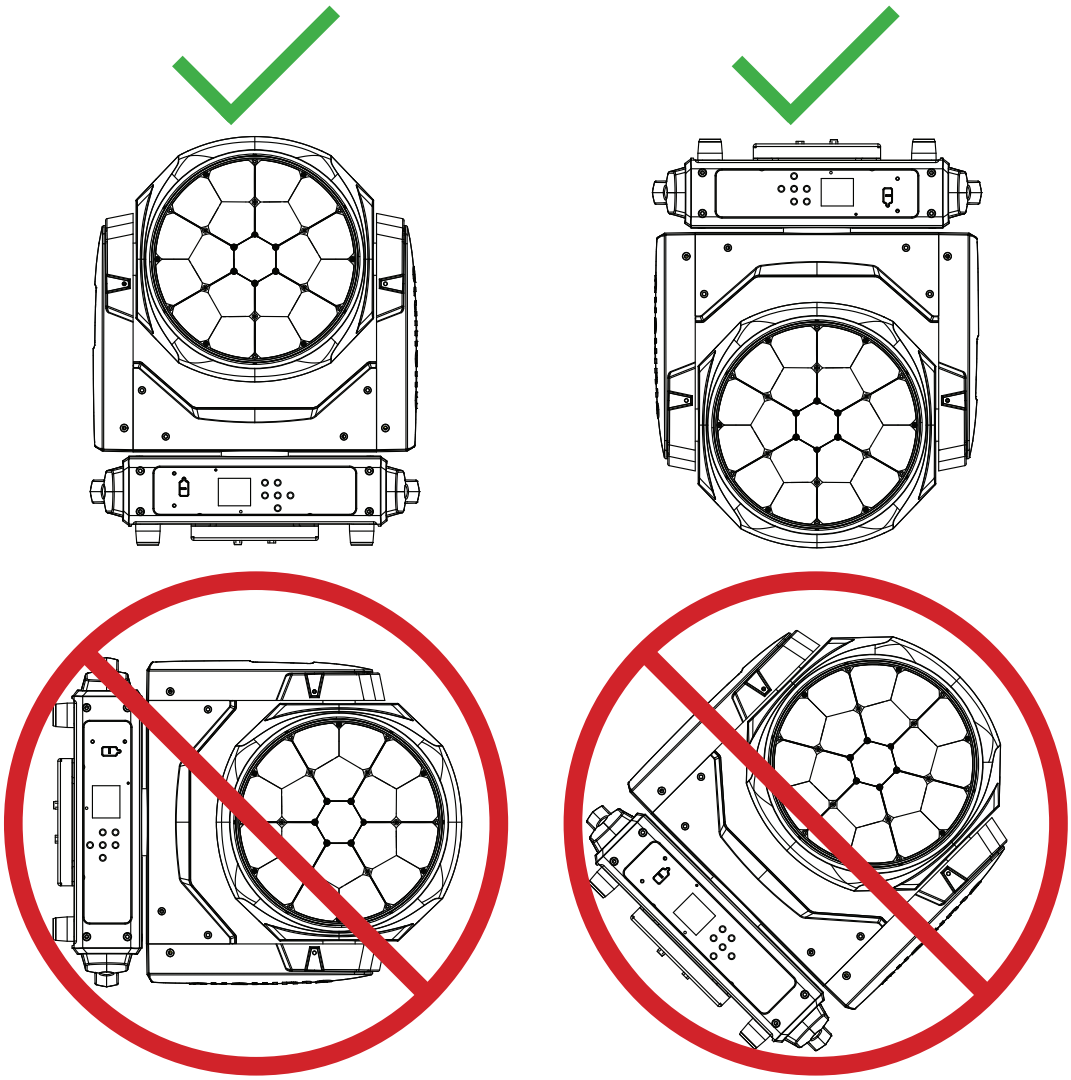


01 - LCD display
02 - Function buttons
03 - USB Port
04 - Fan
05 - Fuse T12A 250V
06 - Wireless DMX Antenna
07 - PowerCON TRUE1 input
08 - PowerCON TRUE1 output
09 - 5-Pin DMX output
10 - 5-Pin DMX input
11 - EtherCON output
12 - EtherCON intput

In the box: **1 x fixture, 2 x omega clamp, 1 x power cable, & 1 x safety wire**

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 Evora 1940ZP Zoom Wash 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:

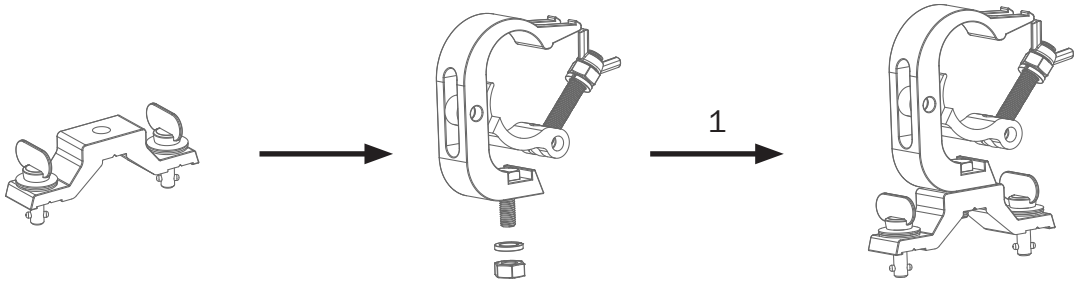
1. Fasten each clamp to the omega clamps with a bolt and lock nut through the hole in the omega clamp.

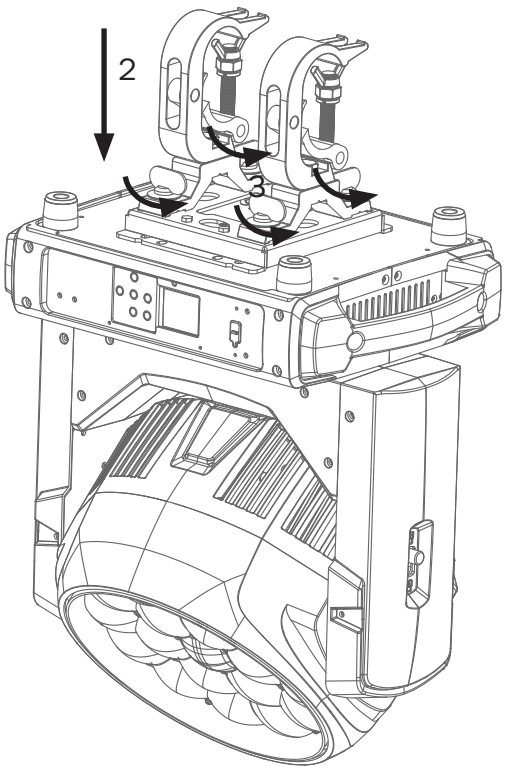
2. Align and insert the omega clamp quick-lock fasteners with the respective holes on the bottom of the unit.

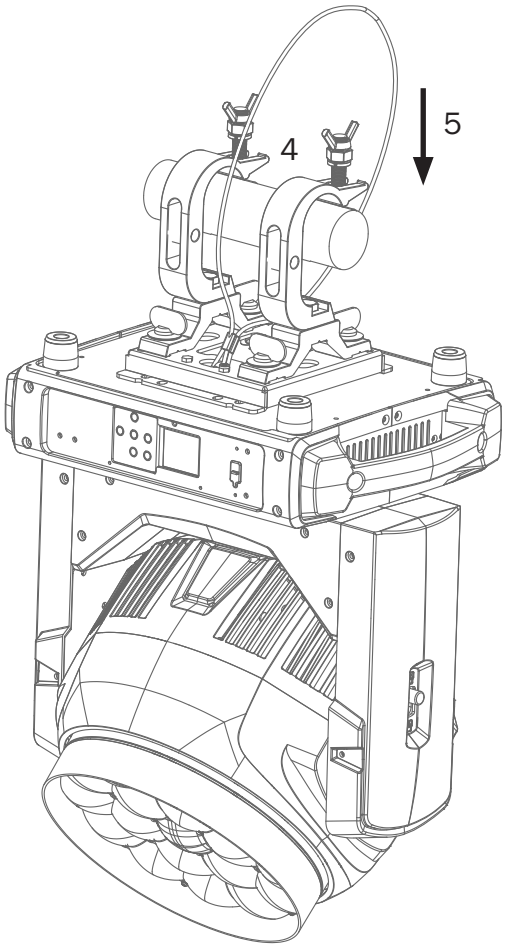
3. Tighten both locking fasteners clockwise on each omega clamp ensuring they're fully secure.

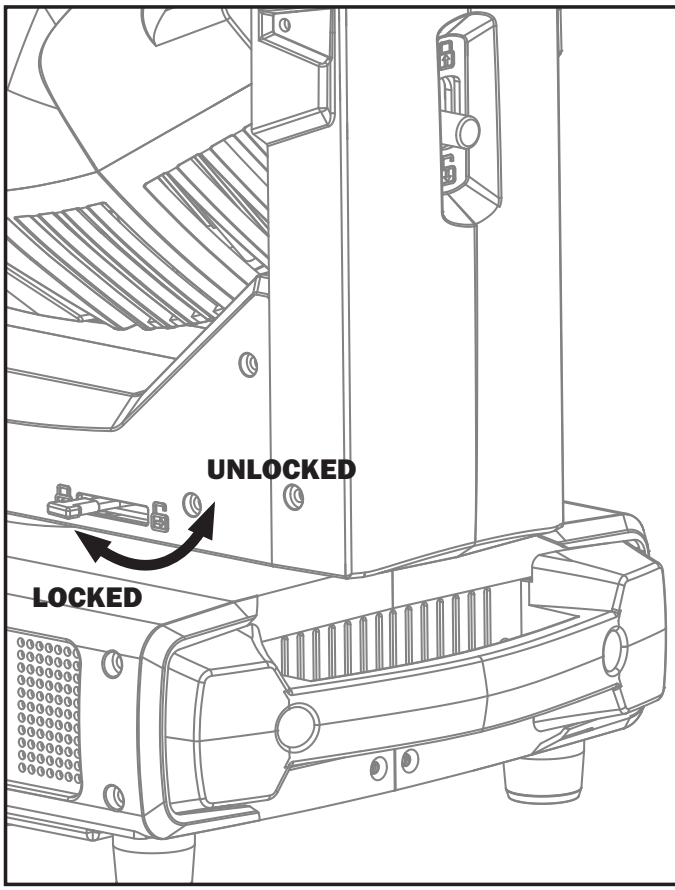
4. Mount the fixture onto your truss system via the clamps and tighten to ensure secure.

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.

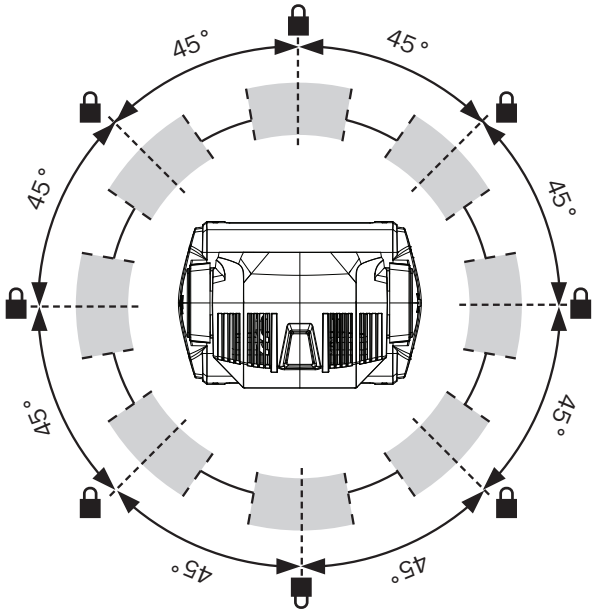


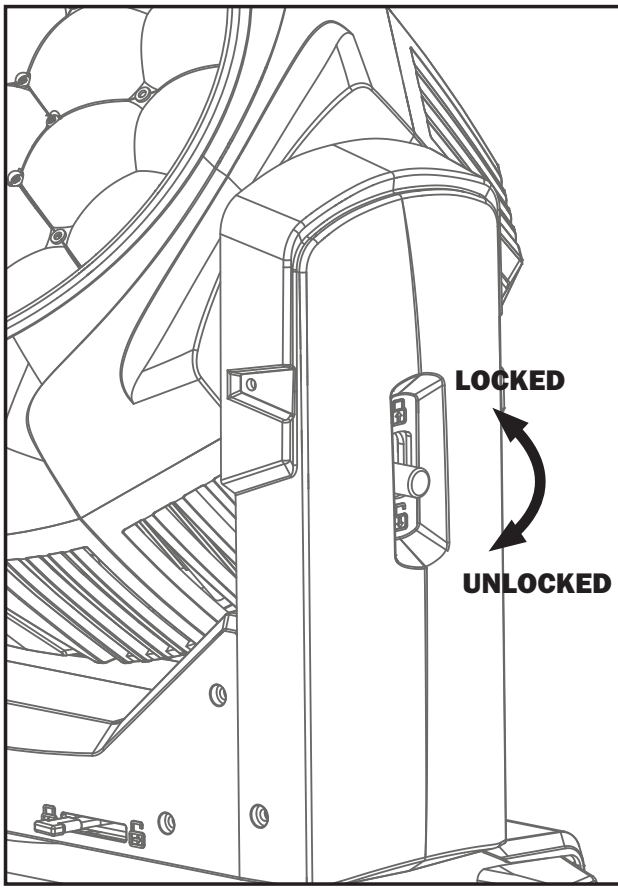




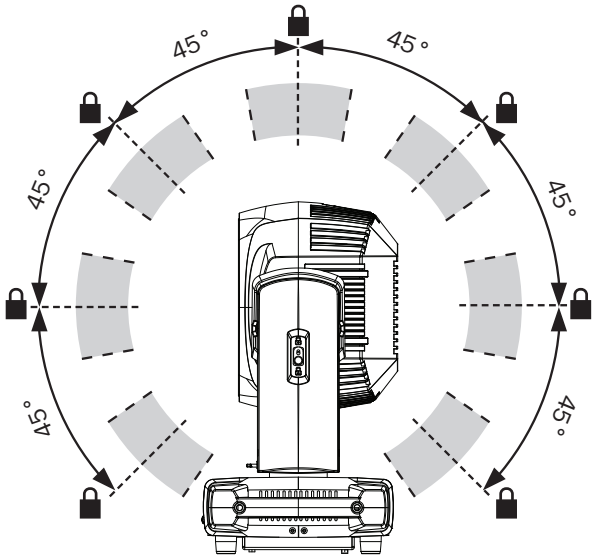


Pan mechanism lock and release every 45°





Tilt mechanism lock and release every 45°



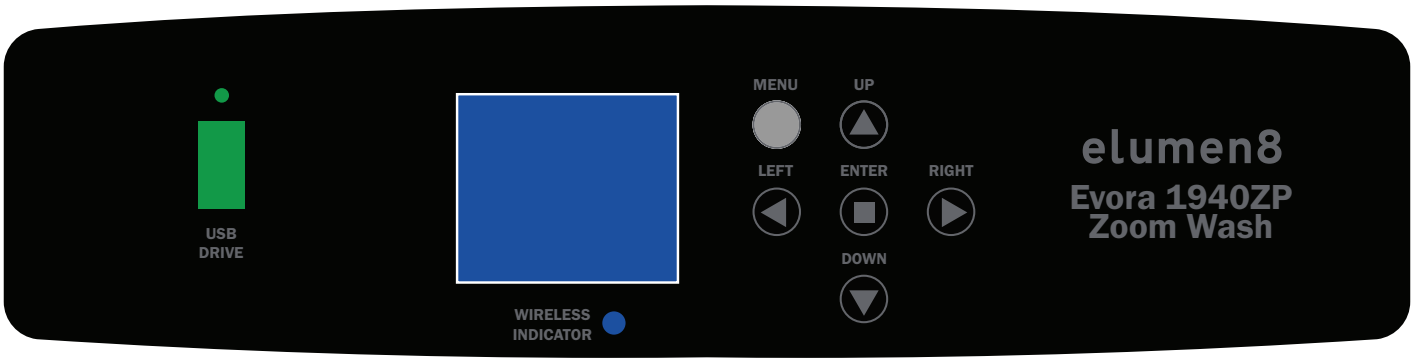
Control Panel Menu:

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

When the unit has been powered on the display will show "**Software Update**" followed by "**eLumen8 Evora 1940ZP**" and then "**Please Wait...**" followed by "**Motor Reset Please Wait...**". 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 LCD 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 LCD 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 the display will flash and display "**Error:**" along with a list of motor errors on the LCD control panel. Please power the unit off and on to reset the motors again.
(The full list of errors codes can be found below).

Error Code	Description
Pan	The movement is not located in the default position after the reset. This message will appear if the sensor has failed or magnet is missing, or if there is a motor failure (defective motor or a defective motor IC drive on the main PCB). This error may also be displayed if the yoke was blocked during a reset function.
Tilt	
Zoom	The movement is not located in the default position after the reset. This message will appear if the sensor has failed or magnet is missing, or if there is a motor failure (defective motor or a defective motor IC drive on the main PCB).
Head Fan1	This message will appear if the sensor or fan has failed or the fixtures temperature is too hot.
Head Fan2	
Base Fan1	
Base Fan2	

Main Menu	Sub Menu	Options/Values (Default Settings in BOLD)		Description
DMX Address		**001**-512		DMX Address Setting
Channel Mode		Basic (11 channel mode)		DMX Channel Modes
		Basic Plus (17 channel mode)		
		Standard (25 channel mode)		
		Extend (101 channel mode)		
Network	Input	OFF		Activate/deactivate network input
		ON		
	Protocol	**ArtNET**		Network Protocol Setting
		sACN		
	Address	ServicePIN	**000**-255 (PIN = 050)	Pin to enter Address Menu
		Universe	**000**-255	Universe Setting (PIN Required)
		IP Address	xxx.xxx.xxx.xxx **(002.000.000.002)**	IP Address Setting (PIN Required)
		Subnet Mask	xxx.xxx.xxx.xxx **(255.000.000.000)**	IP Subnet Mask Setting (PIN Required)
	KlingNet	**Disable**		KlingNet Setting
		Enable		
	DMX Output	**OFF**		Output network signal via DMX
		ON		
Wireless	W-DMX	**OFF**		Activate/deactivate W-DMX
		ON		
	Transmit/ Receive	Transmit		Configure W-DMX as a transmitter/receiver
		Receive		
	W-DMX Protocol	G3		G3 Transmission Standard
		G4S		G4S Transmission Standard
	Tx/Rx Link	Link		Link with W-DMX devices. W-DMX must be active for all devices and the link with a transmitter must be suspended (Receive Reset)
		UnLink		Unlink all devices
	Rx Reset	NO		Do not suspend link with transmitter
		YES		Suspend link with transmitter

Main Menu	Sub Menu	Options/Values (Default Settings in BOLD)		Description
Stand Alone	Manual Control	Pan	**000**-255	Manual Control Settings
		Pan Fine		
		Tilt		
		Tilt Fine		
		Strobe		
		Dimmer		
		Dimmer Fine		
		Zoom		
		Zoom Fine		
		Red		
		Green		
		Blue		
		White		
		CCT		
		Colour Macros		
		Foreground Col		
		Background Col		
		Colour Speed		
		Pattern Programs		
		Step/Chase		
		Program Fade		
	Slave Mode	**OFF**		Slave Mode
		Slave 1 (copies master)		
Service	Display	Backlight	02M-60M **(06M)**	LCD Backlight Setting
		Rotate 180°	**OFF**	LCD Display Inverse Setting
			ON	
		Key Lock	**OFF**	Control Panel Lock Setting (Press and hold MODE for 3 seconds to unlock)
			ON	
		DispFlash	**OFF**	Display Flash Setting When No DMX Signal
			ON	
	Power Saver	Hibernation	**OFF**	Hibernation Setting
			01M-099M	

Main Menu	Sub Menu	Options/Values (Default Settings in BOLD)		Description
Service	DMX Fail	Blackout		DMX Fail Setting
		Hold		
		Programs		
		Manual		
	Dimming Curve	**Linear**		Dimming Curve Setting
		Square Law		
		Inv Square Law		
		S-curve		
	Dim Mode	**Standard**		Dimming Curve Speed
		Stage		
		TV		
		Architectur		
		Theatre		
	Frequency	**900Hz**		LED Refresh Rate Setting
		1000Hz		
		1100Hz		
		1200Hz		
		1300Hz		
		1400Hz		
		1500Hz		
		2500Hz		
		4000Hz		
		5000Hz		
		10kHz		
		15kHz		
		20kHz		
		25kHz		
	Pan/Tilt	Pan Inverse	**OFF**	Pan Inverse Setting
			ON	
		Tilt Inverse	**OFF**	Tilt Inverse Setting
			ON	
		Pan Angle	540	Pan Angle setting
			630	
	Fans	Head Fan	**Auto**	Head Fan Speed Setting
			Low	
			High	
		Base Fan	**Auto**	Base Fan Speed Setting
			Low	
			High	

Main Menu	Sub Menu	Options/Values (Default Settings in BOLD)		Description
Service	Calibrate (PIN = 050)	Pan	000-255	Calibration Settings
		Tilt		
		Zoom		
		Red		
		Green		
		Blue		
		White		
		Red1		
		Green1		
		Blue1		
		...		
		Red19		
		Green19		
		Blue19		
		CCT_R		
		CCT_G		
		CCT_B		
		CCT_W		
	Auto Test	Testing...		Auto Test
	Motor Reset	All		Motor Reset
		Pan & Tilt		
		Head		
	USB Update	**OFF**		USB Update
		ON		
	Factory	**OFF**		Factory Settings
		ON		
Information	Runtime	Total Time		Runtime Information
		CurrentTime		
		Password		
		Reset	OFF	
			ON	
	Temperature	TempInfo	Head: xxxx Base: xxxx	Temperature Information
		TempUnits	C	
			F	
	Fan Speed	xxxxRPM		Fan Speed Information
	Model	eLumen8 Evora 1940ZP		Model Information
	RDM UID	0x09A5-xxxxxxxx		RDM UID
	Firmware	1U: Vx.x.xx 2U: Vx.x.xx 3U: Vx.x.xx 4U: Vx.x.xx		Software Version
	Error. Info	NONE/Pan, Tilt... (See page 11)		Current Fixture Errors

DMX channel modes:

Channel				Value	Function		Default Value
11CH Basic	17CH BasicPlus	25CH Standard	101CH Extend				
1	1	1	1	000-255	Pan movement (8 bit)		127
	-	2	2	000-255	Pan fine (16 bit)		127
2	2	3	3	000-255	Tilt movement (8 bit)		127
	-	4	4	000-255	Tilt fine (16 bit)		127
	-	5	5	000-255	Pan/tilt speed (fast-slow)		000
3	3	6	6	000-255	Master dimmer (0-100%)		000
	-	7	7	000-255	Master dimmer fine		000
4	4	8	8	**Strobe**			
				000-031	LED off		000
				032-063	LED on		
				064-095	Strobe (slow-fast)		
				096-127	LED on		
				128-159	Pulse strobe (slow-fast)		
				160-191	LED on		
				192-223	Random strobe (slow-fast)		
				224-255	LED on		
5	5	9	9	000-255	Red dimmer (0-100%)	For reference, in 50 channel mode when building personalities, these should be empty/ reserved channels	000
6	6	10	10	000-255	Green dimmer (0-100%)		000
7	7	11	11	000-255	Blue dimmer (0-100%)		000
8	8	12	12	000-255	White dimmer (0-100%)		000
9	9	13	13	000-255	Zoom		000
-	-	14	14	000-255	Zoom Fine		000
10	10	15	15	**CCT**			
				000-005	No function		
				006-034	1800K		000
				...	...		
				118	6000K		
				...	...		
				128	6500K		
				...	...		
				255	12850K		
11	11	16	16	**Colour Macros**			
				000-010	No function		000
				011-012	Moroccan Pink (LEE 790)		
				013-014	Pink (LEE 157)		
				015-016	Special Rose Pink (LEE 332)		
				017-018	Follies Pink (LEE 328)		
				019-020	Fuchsia Pink (LEE 345)		
				021-022	Surprise Pink (LEE 194)		

DMX channel modes:

Channel				Value	Function	Default Value
11CH Basic	17CH BasicPlus	25CH Standard	101CH Extend			
11 (cont.)	11 (cont.)	16 (cont.)	16 (cont.)	Colour Macros (cont.)		
				023-024	Congo Blue (LEE 181)	000
				025-026	Tokyo Blue (LEE 071)	
				027-028	Deep Blue (LEE 120)	
				029-030	Just Blue (LEE 079)	
				031-032	Medium Blue (LEE 132)	
				033-034	Double CT Blue (LEE 200)	
				035-036	Slate Blue (LEE 161)	
				037-038	Full CT Blue (LEE 201)	
				039-040	Half CT Blue (LEE 202)	
				041-042	Steel Blue (LEE 117)	
				043-044	Lighter Blue (LEE 353)	
				045-046	Light Blue (LEE 118)	
				047-048	Medium Blue Green (LEE 116)	
				049-050	Dark Green (LEE 124)	
				051-052	Primary Green (LEE 139)	
				053-054	Moss Green (LEE 089)	
				055-056	Fern Green (LEE 122)	
				057-058	Jas Green (LEE 738)	
				059-060	Lime Green (LEE 088)	
				061-062	Spring Yellow (LEE 100)	
				063-064	Deep Amber (LEE 104)	
				065-066	Chrome Orange (LEE 179)	
				067-068	Orange (LEE 105)	
				069-070	Gold Amber (LEE 021)	
				071-072	Millennium Gold (LEE 778)	
				073-074	Deep Golden Amber (LEE 135)	
				075-076	Flame Red (LEE 164)	
				077-078	Red Magenta (LEE 113)	
				079-080	Medium Lavender (LEE 343)	
				081-082	Pure White (White LEDs only)	
				083-084	Pure Red (Red LEDs only)	
				085-086	Pure Yellow (Red & Green LEDs only)	
				087-088	Pure Green (Green LEDs only)	
				089-090	Pure Cyan (Green & Blue LEDs only)	
				091-092	Pure Blue (Blue LEDs only)	
				093-094	Pure Magenta (Blue & Red LEDs only)	
				095-096	Peacock Blue (LEE 115)	

DMX channel modes:

Channel				Value	Function	Default Value
11CH Basic	17CH BasicPlus	25CH Standard	101CH Extend			
11 (cont.)	11 (cont.)	16 (cont.)	16 (cont.)	**Colour Macros (cont.)**		
				097-098	Dark Lavender (LEE 180)	
				099-100	Double CT Orange (LEE 287)	
				101-102	Full CT Orange (LEE 204)	000
				103-104	Half CT Orange (LEE 205)	
				105-106	Deep Straw (LEE 015)	
				107-190	No function	
				191-224	Colour scroll ascending (fast-slow)	
				224-229	Colour scroll stop	
				230-255	Colour scroll descending (slow-fast)	
-	12	17	17	**Foreground Virtual Colour Wheel**		
				000	No function	000
				001	1800K	
				002	2700K	
				003	3200K	
				004	4000K	
				005	4500K	
				006	5000K	
				007	5600K	
				008	6000K	
				009	6500K	
				010	8000K	
				011	10000K	
				012	12850K	
				013-250	Virtual colour wheel	
				251-253	Virtual colour wheel rotation (forwards)	
				254-255	Virtual colour wheel rotation (backwards)	
-	13	18	18	**Background Virtual Colour Wheel**		
				000	No function	000
				001	1800K	
				002	2700K	
				003	3200K	
				004	4000K	
				005	4500K	
				006	5000K	
				007	5600K	
				008	6000K	
				009	6500K	
				010	8000K	

DMX channel modes:

Channel				Value	Function	Default Value
11CH Basic	**17CH** BasicPlus	**25CH** Standard	**101CH** Extend			
-	13 (cont.)	18 (cont.)	18 (cont.)	**Background Virtual Colour Wheel (cont.)**		
				011	10000K	000
				012	12850K	
				013-250	Virtual colour wheel	
				251-253	Virtual colour wheel rotation (forwards)	
				254-255	Virtual colour wheel rotation (backwards)	
-	14	19	19	000-255	Virtual colour wheel rotation speed (slow-fast)	000
-	15	20	20	**Pattern Programs**		
				000-009	No function	000
				010-019	Program 1	
				020-029	Program 2	
				030-039	Program 3	
				040-049	Program 4	
				050-059	Program 5	
				060-069	Program 6	
				070-079	Program 7	
				080-089	Program 8	
				090-099	Program 9	
				100-109	Program 10	
				110-119	Program 11	
				120-129	Program 12	
				130-139	Program 13	
				140-149	Program 14	
				150-159	Program 15	
				160-169	Program 16	
				170-179	Program 17	
				180-189	Program 18	
				190-199	Program 19	
				200-209	Program 20	
				210-255	No function	
-	16	21	21	**Pattern Programs - Manual Step/Auto Chase**		
				000-004	Static step 1	000
				005-009	Static step 2	
				010-014	Static step 3	
				015-019	Static step 4	
				020-024	Static step 5	
				025-029	Static step 6	
				030-034	Static step 7	

DMX channel modes:

Channel				Value	Function	Default Value
11CH Basic	17CH BasicPlus	25CH Standard	101CH Extend			
-	16	21	21	Pattern Programs - Manual Step/Auto Chase (cont.)		
				035-039	Static step 8	000
				040-145	Chase forwards (fast-slow)	
				146-149	Chase stop	
				150-255	Chase backwards (slow-fast)	
-	17	22	22	000-255	Program fade speed (fast-slow)	000
-	-	-	23	000-255	Red dimmer 1 (0-100%)	000
-	-	-	24	000-255	Green dimmer 1 (0-100%)	000
-	-	-	25	000-255	Blue dimmer 1 (0-100%)	000
-	-	-	26	000-255	White dimmer 1 (0-100%)	000
-	-	-	27	000-255	Red dimmer 2 (0-100%)	000
-	-	-	28	000-255	Green dimmer 2 (0-100%)	000
-	-	-	29	000-255	Blue dimmer 2 (0-100%)	000
-	-	-	30	000-255	White dimmer 2 (0-100%)	000
-	-	-	31	000-255	Red dimmer 3 (0-100%)	000
-	-	-	32	000-255	Green dimmer 3 (0-100%)	000
-	-	-	33	000-255	Blue dimmer 3 (0-100%)	000
-	-	-	34	000-255	White dimmer 3 (0-100%)	000
-	-	-	35	000-255	Red dimmer 4 (0-100%)	000
-	-	-	36	000-255	Green dimmer 4 (0-100%)	000
-	-	-	37	000-255	Blue dimmer 4 (0-100%)	000
-	-	-	38	000-255	White dimmer 4 (0-100%)	000
-	-	-	39	000-255	Red dimmer 5 (0-100%)	000
-	-	-	40	000-255	Green dimmer 5 (0-100%)	000
-	-	-	41	000-255	Blue dimmer 5 (0-100%)	000
-	-	-	42	000-255	White dimmer 5 (0-100%)	000
-	-	-	43	000-255	Red dimmer 6 (0-100%)	000
-	-	-	44	000-255	Green dimmer 6 (0-100%)	000
-	-	-	45	000-255	Blue dimmer 6 (0-100%)	000
-	-	-	46	000-255	White dimmer 6 (0-100%)	000
-	-	-	47	000-255	Red dimmer 7 (0-100%)	000
-	-	-	48	000-255	Green dimmer 7 (0-100%)	000
-	-	-	49	000-255	Blue dimmer 7 (0-100%)	000
-	-	-	50	000-255	White dimmer 7 (0-100%)	000
-	-	-	51	000-255	Red dimmer 8 (0-100%)	000
-	-	-	52	000-255	Green dimmer 8 (0-100%)	000
-	-	-	53	000-255	Blue dimmer 8 (0-100%)	000
-	-	-	54	000-255	White dimmer 8 (0-100%)	000

DMX channel modes:

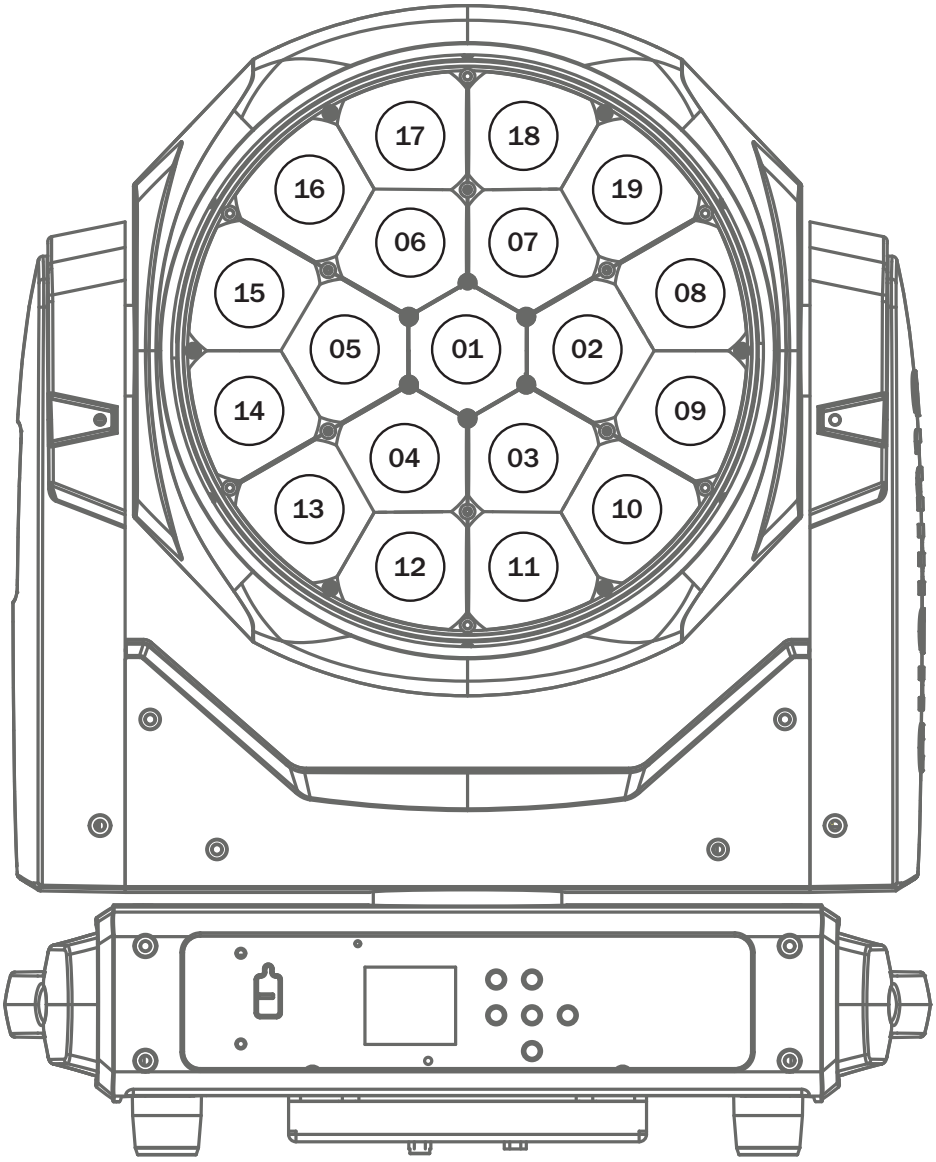
Channel				Value	Function	Default Value
11CH Basic	17CH BasicPlus	25CH Standard	101CH Extend			
-	-	-	55	000-255	Red dimmer 9 (0-100%)	000
-	-	-	56	000-255	Green dimmer 9 (0-100%)	000
-	-	-	57	000-255	Blue dimmer 9 (0-100%)	000
-	-	-	58	000-255	White dimmer 9 (0-100%)	000
-	-	-	59	000-255	Red dimmer 10 (0-100%)	000
-	-	-	60	000-255	Green dimmer 10 (0-100%)	000
-	-	-	61	000-255	Blue dimmer 10 (0-100%)	000
-	-	-	62	000-255	White dimmer 10 (0-100%)	000
-	-	-	63	000-255	Red dimmer 11 (0-100%)	000
-	-	-	64	000-255	Green dimmer 11 (0-100%)	000
-	-	-	65	000-255	Blue dimmer 11 (0-100%)	000
-	-	-	66	000-255	White dimmer 11 (0-100%)	000
-	-	-	67	000-255	Red dimmer 12 (0-100%)	000
-	-	-	68	000-255	Green dimmer 12 (0-100%)	000
-	-	-	69	000-255	Blue dimmer 12 (0-100%)	000
-	-	-	70	000-255	White dimmer 12 (0-100%)	000
-	-	-	71	000-255	Red dimmer 13 (0-100%)	000
-	-	-	72	000-255	Green dimmer 13 (0-100%)	000
-	-	-	73	000-255	Blue dimmer 13 (0-100%)	000
-	-	-	74	000-255	White dimmer 13 (0-100%)	000
-	-	-	75	000-255	Red dimmer 14 (0-100%)	000
-	-	-	76	000-255	Green dimmer 14 (0-100%)	000
-	-	-	77	000-255	Blue dimmer 14 (0-100%)	000
-	-	-	78	000-255	White dimmer 14 (0-100%)	000
-	-	-	79	000-255	Red dimmer 15 (0-100%)	000
-	-	-	80	000-255	Green dimmer 15 (0-100%)	000
-	-	-	81	000-255	Blue dimmer 15 (0-100%)	000
-	-	-	82	000-255	White dimmer 15 (0-100%)	000
-	-	-	83	000-255	Red dimmer 16 (0-100%)	000
-	-	-	84	000-255	Green dimmer 16 (0-100%)	000
-	-	-	85	000-255	Blue dimmer 16 (0-100%)	000
-	-	-	86	000-255	White dimmer 16 (0-100%)	000
-	-	-	87	000-255	Red dimmer 17 (0-100%)	000
-	-	-	88	000-255	Green dimmer 17 (0-100%)	000
-	-	-	89	000-255	Blue dimmer 17 (0-100%)	000
-	-	-	90	000-255	White dimmer 17 (0-100%)	000

DMX channel modes:

Channel				Value	Function	Default Value
11CH Basic	17CH BasicPlus	25CH Standard	101CH Extend			
-	-	-	91	000-255	Red dimmer 18 (0-100%)	000
-	-	-	92	000-255	Green dimmer 18 (0-100%)	000
-	-	-	93	000-255	Blue dimmer 18 (0-100%)	000
-	-	-	94	000-255	White dimmer 18 (0-100%)	000
-	-	-	95	000-255	Red dimmer 19 (0-100%)	000
-	-	-	96	000-255	Green dimmer 19 (0-100%)	000
-	-	-	97	000-255	Blue dimmer 19 (0-100%)	000
-	-	-	98	000-255	White dimmer 19 (0-100%)	000
-	-	23	99	**Dimming Curves**		
				000-005	No function	000
				006-067	Linear	
				068-129	Square Law	
				130-191	Inverse Square Law	
				192-255	S-curve	
-	-	24	100	**Dimming Modes**		
				000-020	Standard dimming mode	000
				021-040	Stage dimming mode	
				041-060	TV dimming mode	
				061-080	Architectural dimming mode	
				081-100	Theatre dimming mode	
				101-255	Default dimming mode (set on fixture)	

DMX channel modes:

Channel				Value	Function	Default Value
11CH Basic	17CH BasicPlus	25CH Standard	101CH Extend			
-	-	25	101	000-015	No function	000
				016-024	Blackout while P/T on (hold 3s)	
				025-032	Blackout while P/T off (hold 5s)	
				033-040	Invert pan on (hold 3s)	
				041-048	Invert pan off (hold 5s)	
				049-056	Invert tilt on (hold 3s)	
				057-064	Invert tilt off (hold 5s)	
				065-072	Fan auto (hold 3s)	
				073-080	Fan low (hold 3s)	
				081-088	Fan high (hold 3s)	
				089-096	900Hz (hold 3s)	
				097-104	1000Hz (hold 3s)	
				105-112	1100Hz (hold 3s)	
				113-120	1200Hz (hold 3s)	
				121-128	1300Hz (hold 3s)	
				129-136	1400Hz (hold 3s)	
				137-144	1500Hz (hold 3s)	
				145-152	2500Hz (hold 3s)	
				153-160	4000Hz (hold 3s)	
				161-168	5000Hz (hold 3s)	
				169-176	10kHz (hold 3s)	
				177-184	15kHz (hold 3s)	
				185-192	20kHz (hold 3s)	
				193-200	25kHz (hold 3s)	
				201-208	Reset pan/tilt (hold 3s)	
				209-216	Reset head only (hold 3s)	
				217-224	Reset all motors (hold 3s)	
				225-232	KlingNet disable	
				233-240	KlingNet enable	
				241-255	No function	



Display Position: PAN = 127, 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.

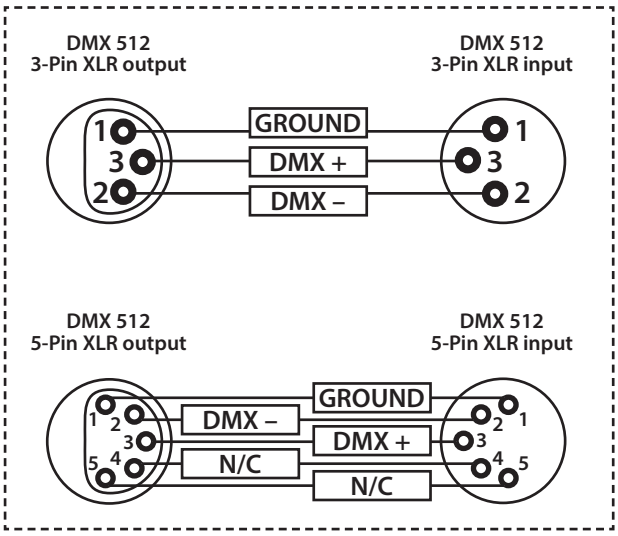
Please quote:	3-Pin:	**CABL10 – 2m**	**CABL11 – 5m**	**CABL12 – 10m**
	5-Pin:	**CABL185 – 2m**	**CABL187 – 5m**	**CABL188 – 10m**

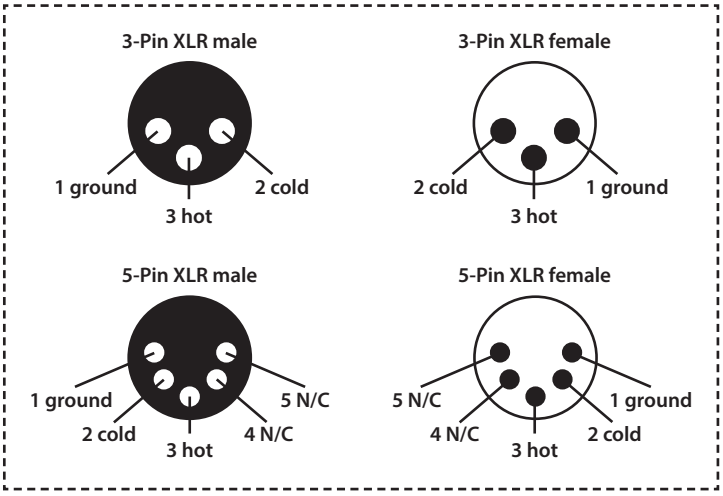
Also remember that DMX cable must be daisy chained and cannot be split.

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

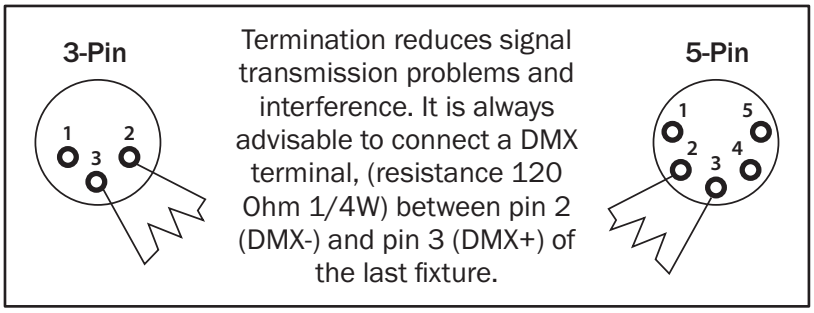




Line termination:

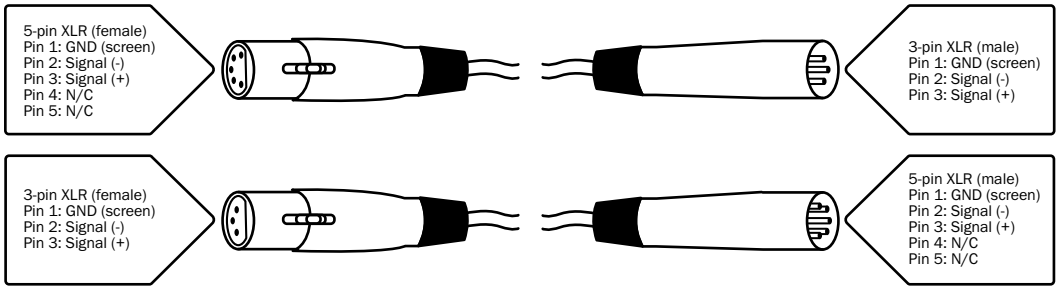
When longer runs of cable are used, you may need to use a terminator on the last unit to avoid erratic behaviour.

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:

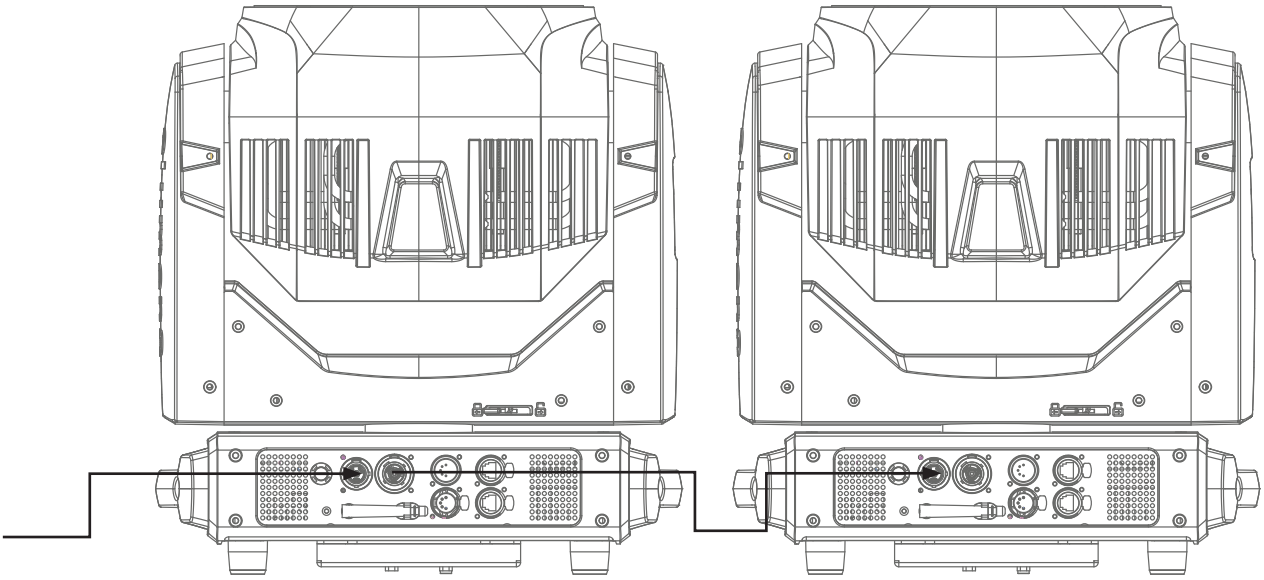
Some manufactures use 5-pin XLR connectors for data transmission in place of 3-pin. 5-pin XLR fixtures may be implemented in a 3-pin XLR DMX line. When inserting standard 5-pin XLR connectors in to a 3-pin line a cable adaptor must be used. The diagram below details the correct cable conversion.



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 2 fixtures @ 240V or 1 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 Evora 740ZP Zoom Wash 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.