elumen8

Evora CMY600 Profile
User Manual

Order codes: ELUM703

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.
- 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.
- 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, colour filters, gobos, prisms, frost filters, iris, shutters, 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 CMY600 Profile

The Evora CMY600 Profile is a powerful tour-grade moving head which features a comprehensive array of effects. The impressive 600W LED provides an immense output, whilst the 4-blade, rotatable framing system, 9°- 46° motorised zoom, focus and iris allows for precise output adjustment. The CMY600 offers both replaceable static and rotating gobos, 5 facet linear and circular prisms and a variable frost filter. Endless colours can be achieved with CMY colour mixing, along with its colour wheel and variable CTO flag. Suited to rental, stage and touring the LED is flicker-free with an adjustable refresh rate. Control is via DMX, RDM, Kling-Net, Art-NET and sACN protocols, and for further convenience wireless DMX is on-board via W-DMX Sweden.

- 1 x 600W white LED (6500K)
- Adjustable beam angle: 9°-46°
- Lumens – Source: 46,000
- Lumens – Output: 19,165
- 9° - 9,755 Lux @ 10m, 46° - 421 Lux @ 10m
- CRI: 72
- Refresh rate: 14 selectable presets between 900Hz-25kHz
- Motorised zoom, focus and iris
- 4 rotating framing shutters +/-45°, plus shape rotation
- 4 facet circular rotating indexable prism plus 5 facet linear rotating indexable prism
- Variable frost filter (0-100%)
- Gobo wheel 1: 7 rotating, indexable, replaceable gobos + open
- Gobo wheel 2: 8 static, replaceable gobos + open
- Animation wheel
- CMY colour mixing: Cyan 0-100%, Magenta 0-100% and Yellow 0-100%
- Variable CTO flag (0-100%)
- Colour wheel: 7 colours + open
- Control protocols: DMX, Kling-net, Art-net and sACN
- DMX channels: 33/40 or 54 selectable
- Wireless control (W-DMX Sweden transceiver)
- Manual control and master/slave modes plus built-in programs
- RDM (Remote Device Management)
- Pan/tilt transit lock and auto correction
- 16-Bit pan/tilt positioning
- Pan: 540° or 630° selectable, Tilt: 270°
- 0 – 100% dimming
- 5 dimming modes: Standard, stage, TV, architectural and theatre
- Variable strobe
- Supplied with quick release omega clamps
- 6 button menu with 2.7" LCD touch screen display
- Display battery backup for offline configuration
- USB port (firmware updates)
- powerCON TRUE1, 5-Pin XLR and etherCON inputs/outputs
- Temperature controlled fans

Specifications	Evora CMY600 Profile
Power consumption	659W
Fuse	T8A 250V
Power supply	100~240V, 50/60Hz
Noise level	37.8dB @ 1m (low speed) 45.6dB @ 1m (auto speed) 51.8dB @ 1m (high speed)
Dimensions (H x W x D)	720 x 390 x 288mm
Weight	31kg
Order code	ELUM703

9° - Lux	39020	9755	4336	2439
46° - Lux	1684	421	187	105

9° 46°

0m   5m   10m   15m   20m

240mm

108mm

112mm

288mm

382mm

290mm

390mm

720mm

466mm

535mm

536mm
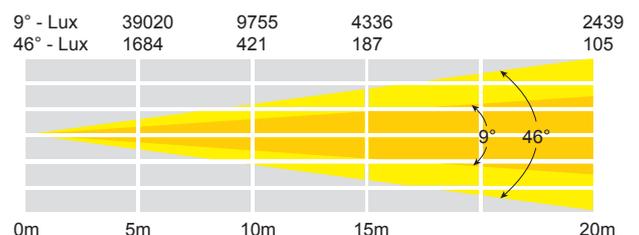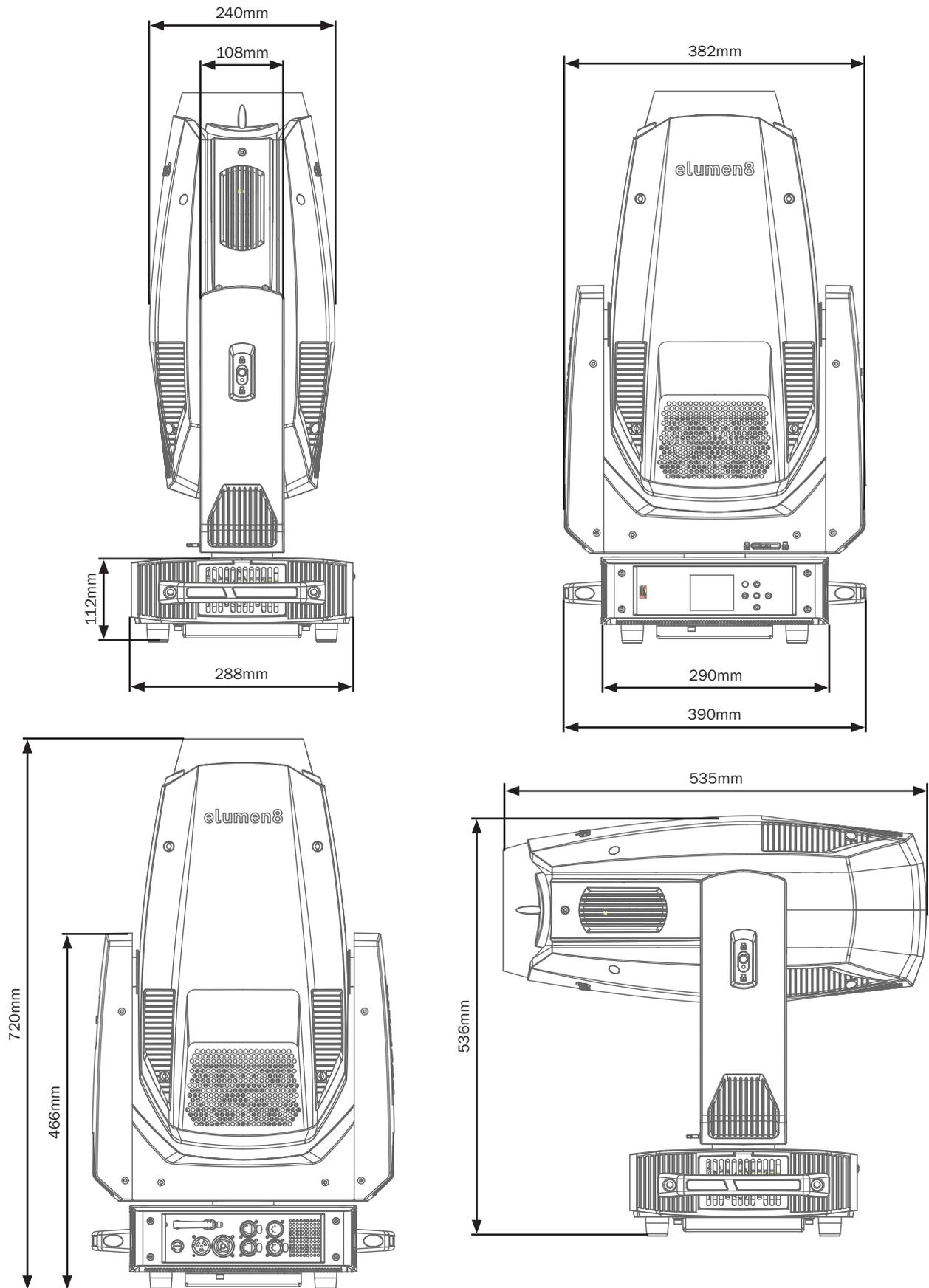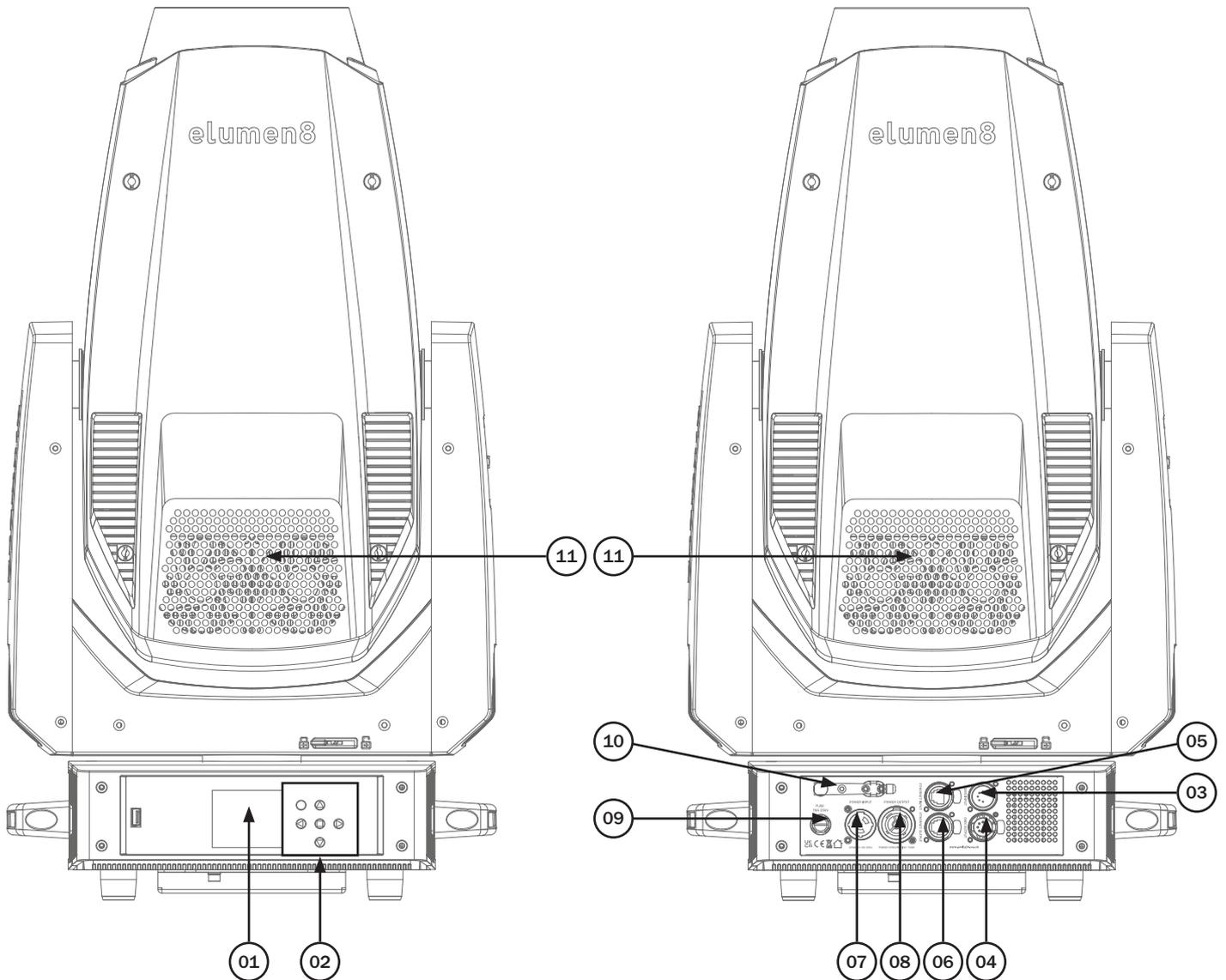
01 - LCD display
02 - Function buttons
03 - 5-Pin DMX input
04 - 5-Pin DMX output

05 - EtherCON input
06 - EtherCON output
07 - PowerCON TRUE1 input
08 - PowerCON TRUE1 output

09 - Fuse T8A 250V
10 - Wireless DMX Antenna
11 - Fans

In the box: **1 x fixture,
2 x omega clamps
& 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.
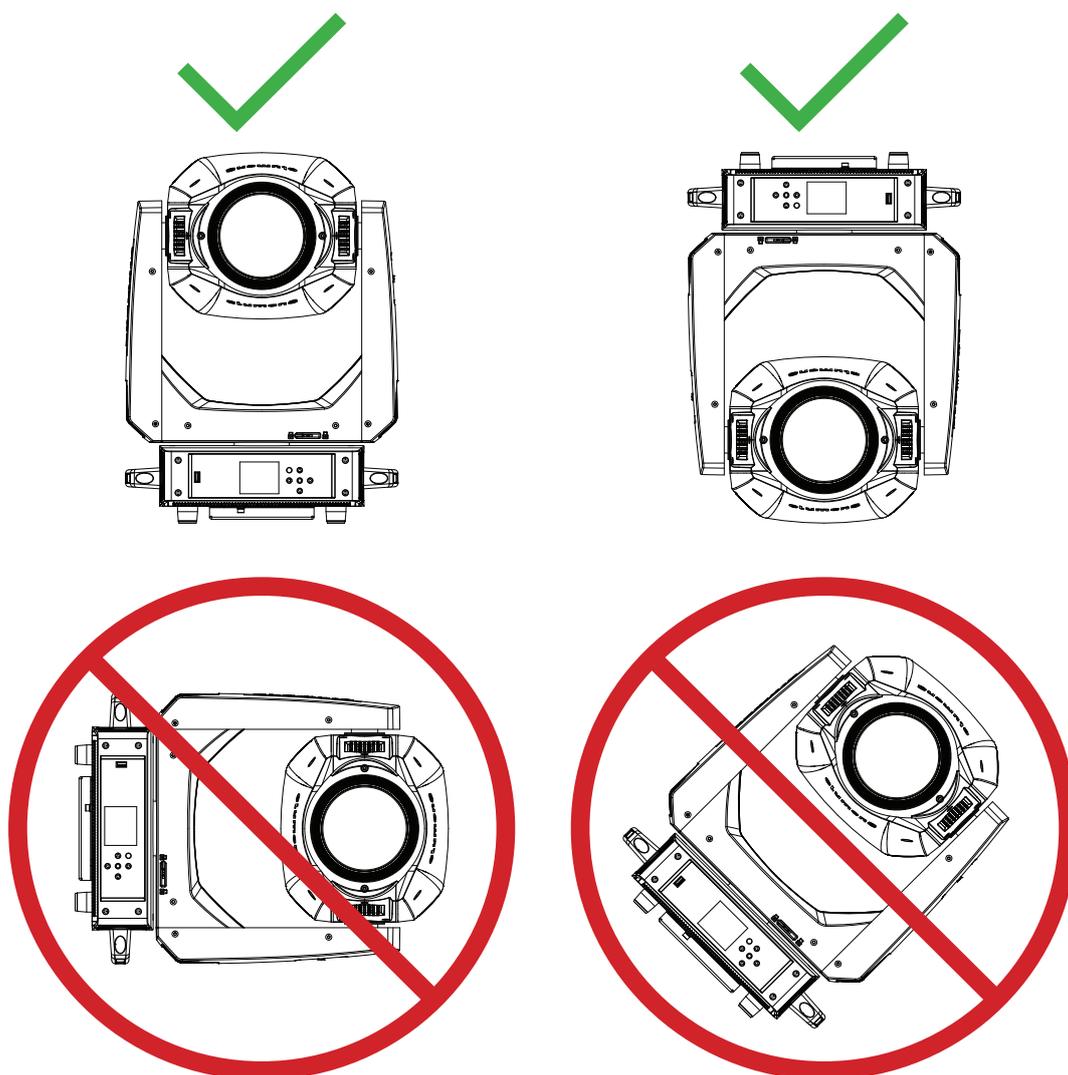
The eLumen8 Evora CMY600 Profile can be operated where the base of the fixture is horizontally orientated, this includes standing the fixture upright on a flat, level surface or hanging the fixture upside down. Do NOT install the fixture in a sideways position or in a position where the base of the fixture 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°
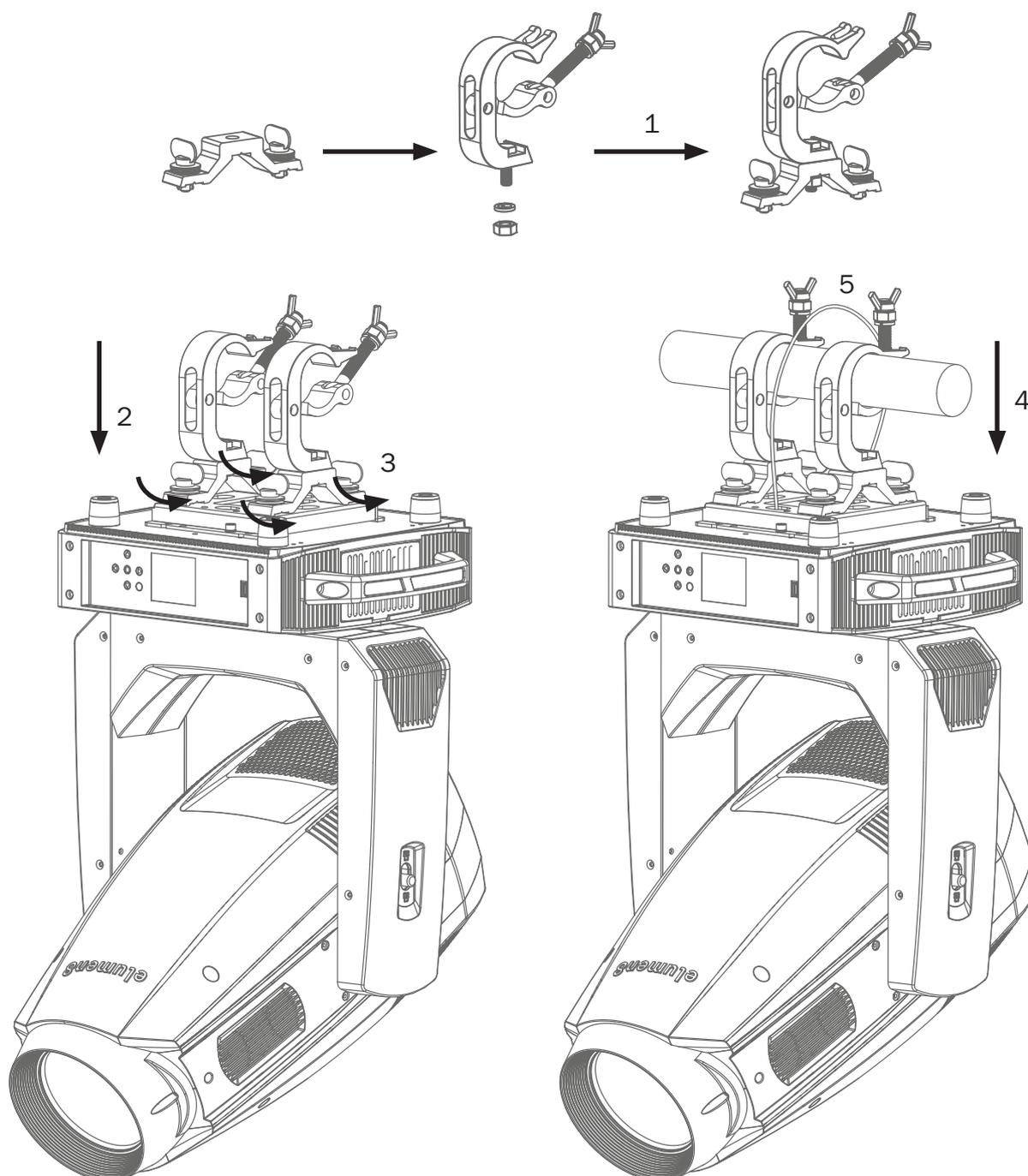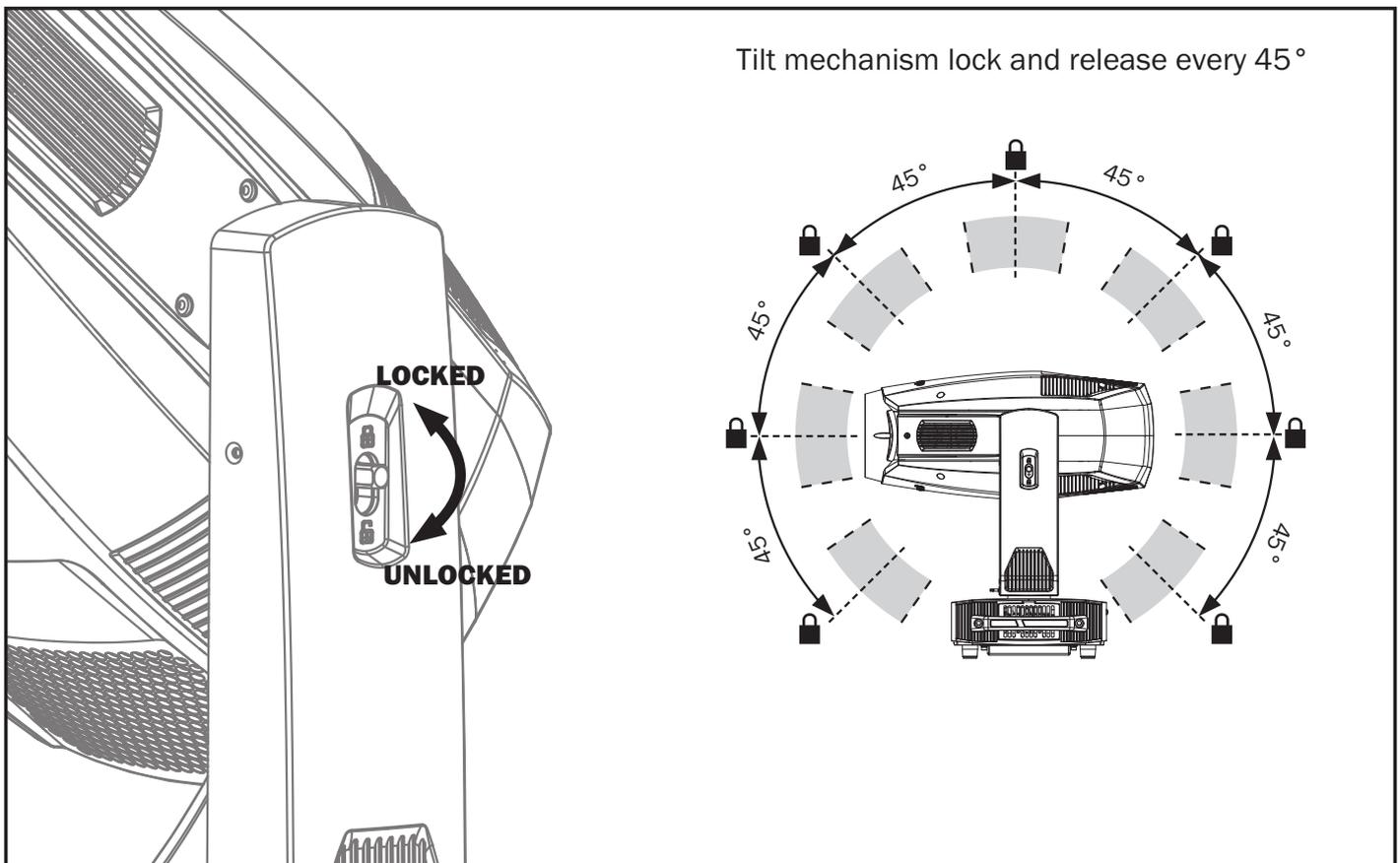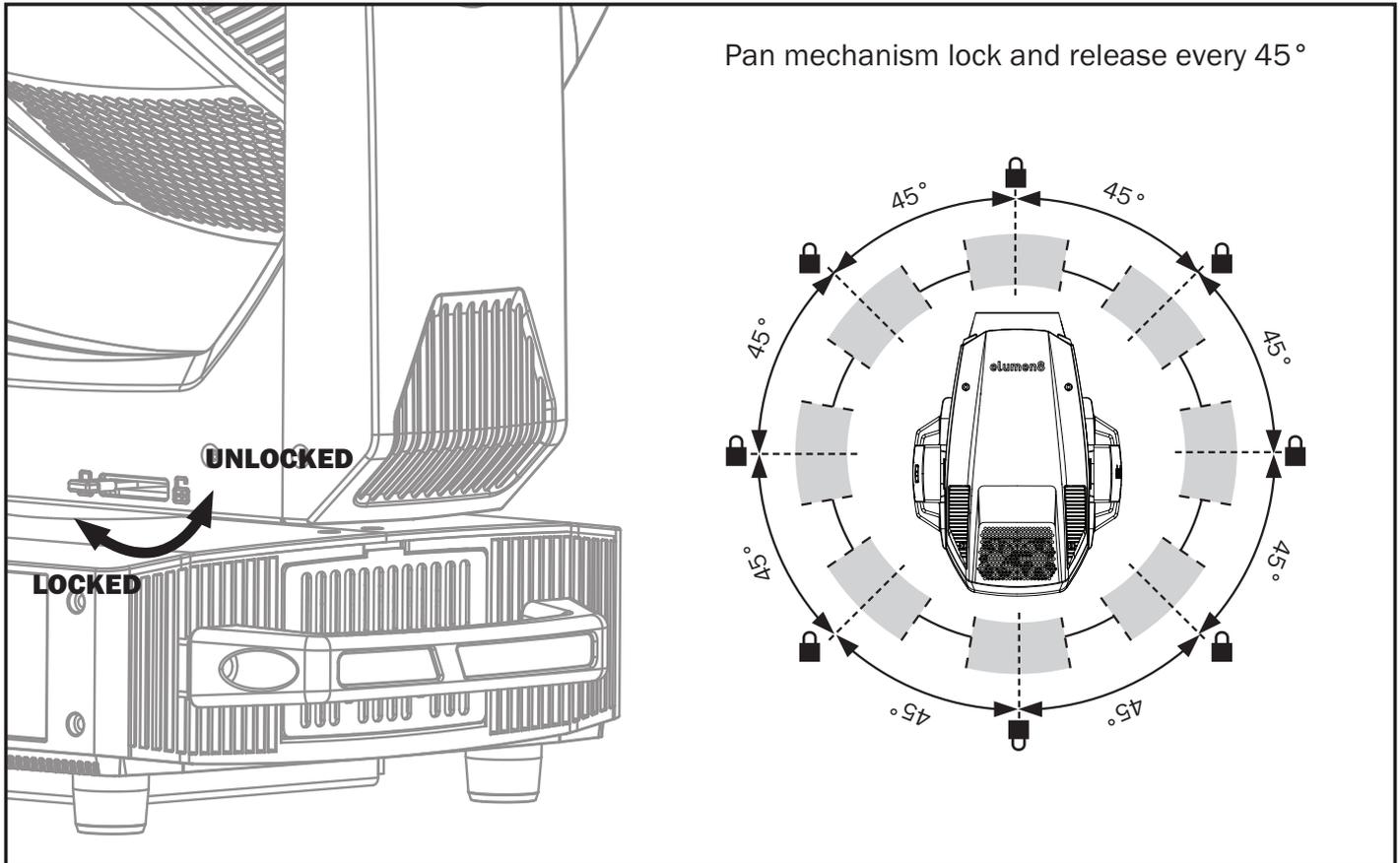
Rotating Gobo Replacement:

The fixture is supplied with 7 rotating and 8 static, replaceable gobos.
See below for installation instructions.
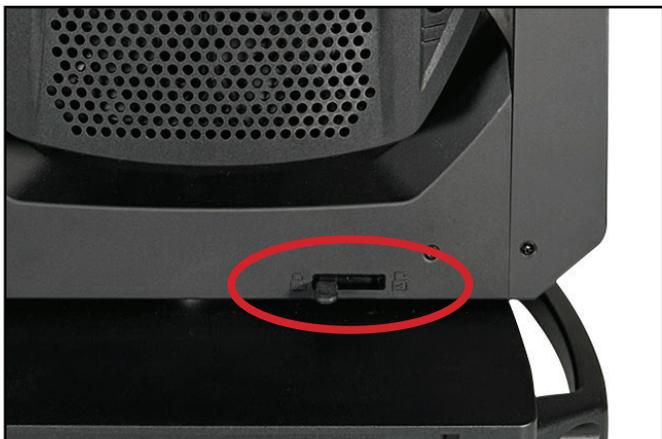
1) Place the fixture on a stable, flat surface ensuring you are indoors in a dust free location. Disconnect and isolate from power and let the unit cool for at least 15 minutes. Engage the pan and tilt locks (shown above).
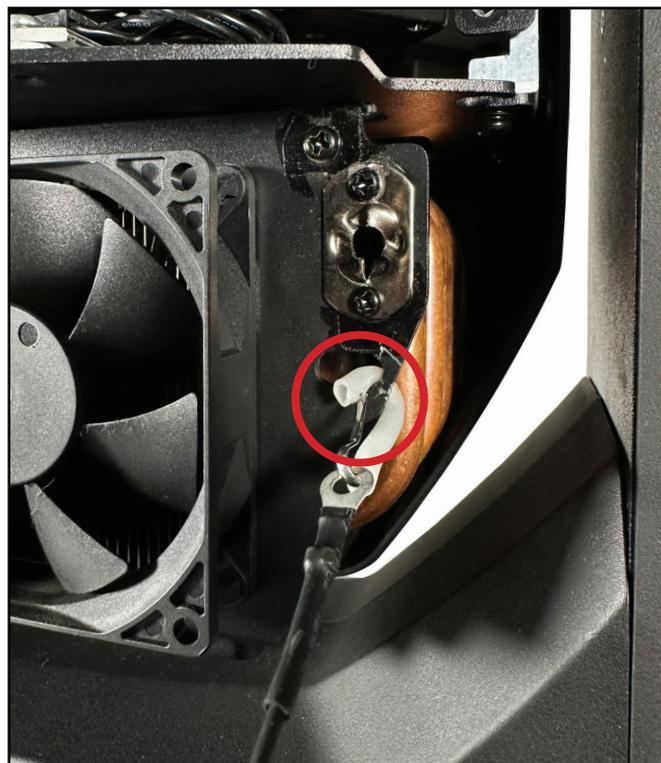
2) Use a Phillips head screwdriver to loosen the four screws on each side of the head casing. These are twist lock screws and do not come free of the casing.

3) Remove the safety clips securing the casings to the head chassis.
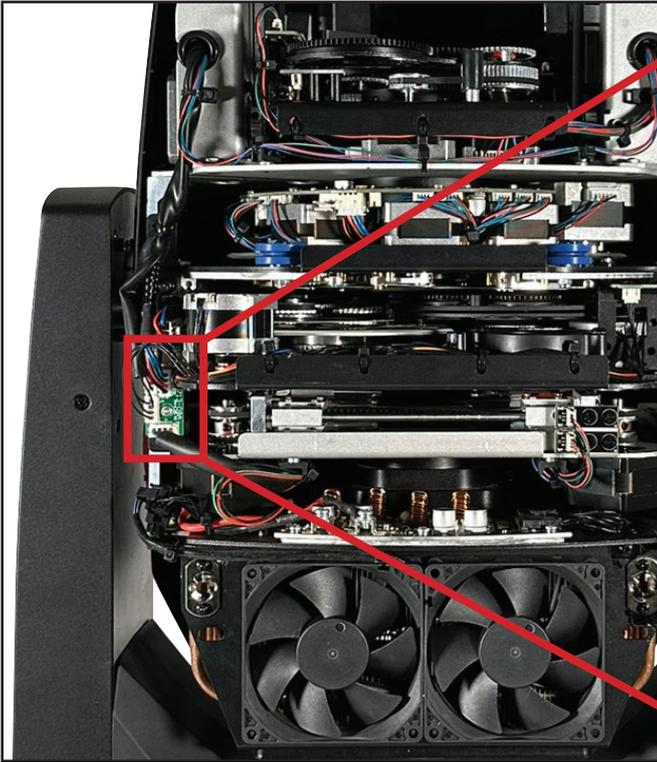
4) To the left of the gobo/colour wheel module there is a sub pcb. Disconnect the framing module connector along with the gobo/colour wheel module connector highlighted in orange above.
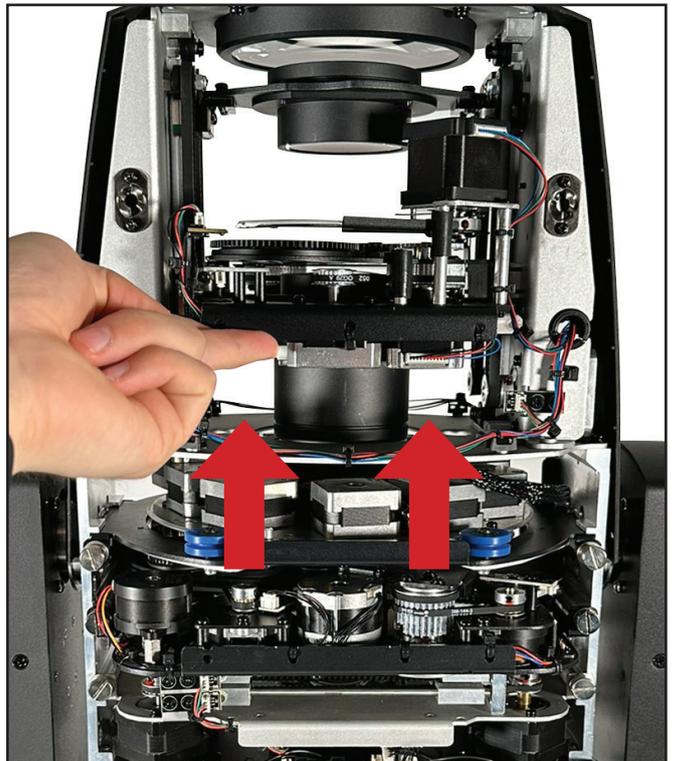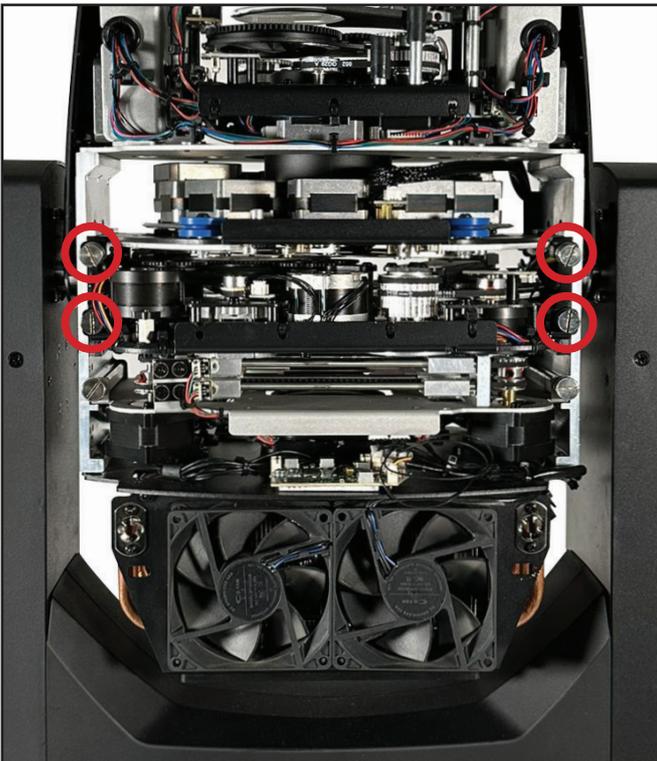
5) Unscrew the screws on either side of the framing module. Repeat this for the screws on either side of the gobo/colour wheel module.

6) Slide the zoom/focus mechanism upwards out of the way of the framing module.
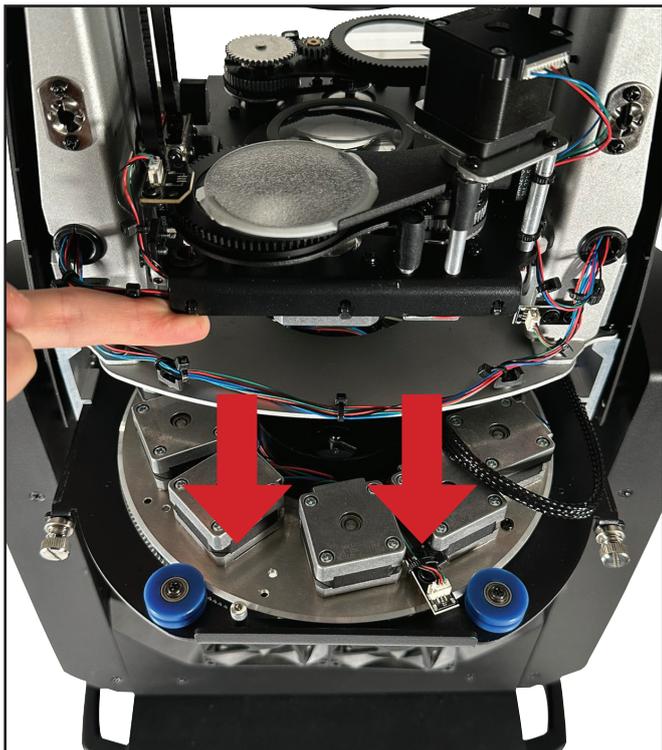
7) Carefully slide the framing module out of its runners ensuring the cable disconnected earlier is free. Place the framing module on a flat surface ensuring you are indoors in a dust free location.
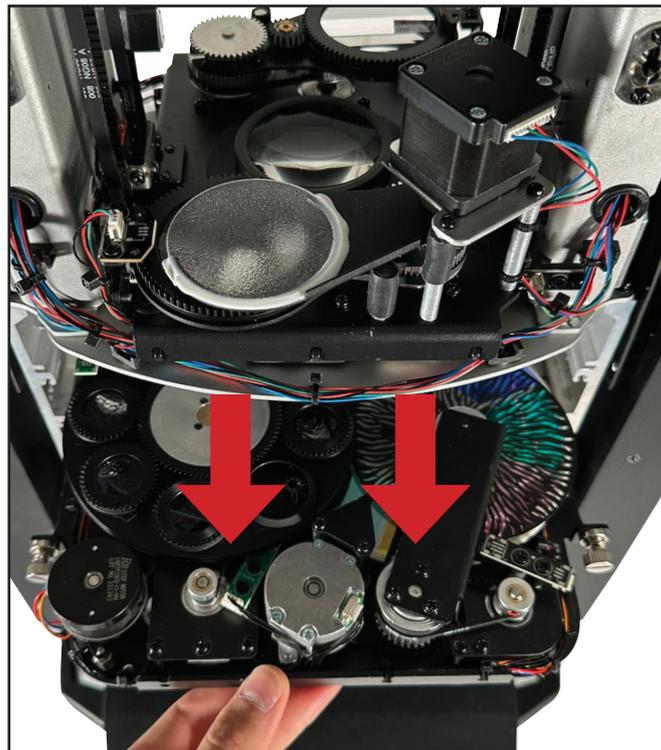
8) Carefully slide the gobo/colour wheel module out of its runners ensuring the cable disconnected earlier is free. Place the framing module on a flat surface ensuring you are indoors in a dust free location.

9) Locate the gobo that will be replaced. Grip the edges of the gobo holder and carefully lift the holder until is raised from the surface of the gobo wheel. Pull the gobo holder towards you, away from the gobo wheel.
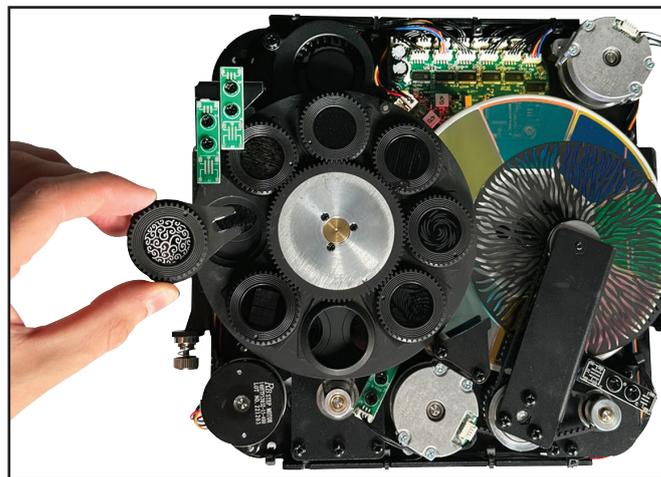
10) Place the gobo on a flat surface with the gear side down. Locate the tab of the spring clip using a precision pick (or similar) and push the spring clip inwards to release it and remove the spring clip. Carefully remove the gobo from the holder avoiding scratching the gobo. Install the new gobo and follow the previous steps in reverse order.

Please note: the static gobo wheel is located underneath the rotating gobo wheel.
Please follow instructions 9 & 10 to replace the static gobo(s).

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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 CMY600 Profile**" and then "**Ethernet Reset 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.
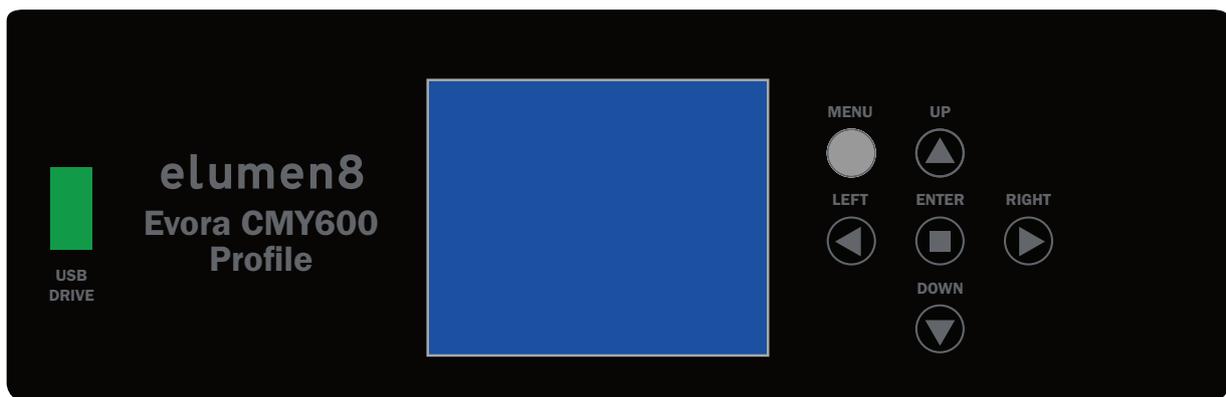
Error Codes:

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 on the next page).

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	
Cyan	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).
Magenta	
Yellow	
CTO	
Colour	
RotGobo	
RotGoboInd	
FixGobo	
Animation	
AniRot	
Prism1	
Prism1Rot	
Prism2	
Prism2Rot	
Focus	
Zoom	
BladeRot	
HeadTemp	This message will appear if the sensor or fan has failed or the fixtures temperature is too hot.
HeadFan1	
HeadFan2	
HeadFan3	
HeadFan4	
HeadFan5	
GoboFan	
BaseTemp	
BaseFan	
Blower3	

Main Menu	Sub Menu	Options/Values (Default Settings in BOLD)		Description
DMX Address		**001**-512		DMX Address Setting
Channel Mode	User Mode	Basic (33 channel)		DMX Channel Mode Setting
		Standard (40 channel)		
		Extend (54 channel)		
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)
	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
		Pan		
		Pan Fine		
		Tilt		
		Tilt Fine		
		Colour		
		Macros		
		CMY Mode		
		Cyan		
		Cyan Fine		
		Magenta		
		Magenta Fine		
		Yellow		
		Yellow Fine		
		CTO		
		CTO Fine		
		Rot Gobo		
		Gobo Index		
		Index Fine		
		Fixed Gobo		
		Strobe		
		Dimmer		
Stand Alone	Manual Control	Dimmer Fine	**000-255**	Manual Control Settings
		Zoom		
		Zoom Fine		
		Focus		
		Focus Fine		
		Iris		
		Frost		
		Prism 1		
		Prism 1 Rot		
		Prism 2		
		Prism 2 Rot		
		Animation		
		Framing Rot		
		Framing Rot Fine		
		Blade 1A		
		Blade 1B		
		Blade 2A		
		Blade 2B		
		Blade 3A		
		Blade 3B		
		Blade 4A		
		Blade 4B		

Main Menu	Sub Menu	Options/Values (Default Settings in BOLD)		Description
Stand Alone	Programs	Program 1	Speed (000-255)	Internal Programs
			Fade (000-255)	
		Program 2	Speed (000-255)	
			Fade (000-255)	
		Program 3	Speed (000-255)	
			Fade (000-255)	
		...		
		Program 16	Speed (000-255)	
			Fade (000-255)	
	Slave Mode	OFF		Slave Mode
		ON		
Settings	Split Colour	**OFF**		Split Colour Setting
		ON		
	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	
	DMX Fail	Blackout		DMX Fail Setting
		Hold		
		Programs		
		Manual		
	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		

Main Menu	Sub Menu	Options/Values (Default Settings in BOLD)		Description
Settings	Frequency	20kHz		LED Refresh Rate Setting
		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	
Service	Calibrate (PIN = 050)	Pan	000-255	Calibration Settings
		Tilt		
		Cyan		
		Magenta		
		Yellow		
		CTO		
		Colour		
		Colour 0-1		
		Colour 2-3		
		Colour 3-4		
		Colour 4-5		
		Colour 5-6		
		Colour 6-7		
		Colour 7-0		
		Gobo		
		GoboRot. 1		
		GoboRot. 2		
		GoboRot. 3		
		GoboRot. 4		
		GoboRot. 5		
		GoboRot. 6		
		GoboRot. 7		
		FocusGoboR1		
		FocusGoboR2		
		FocusGoboR3		
		FocusGoboR4		
		FocusGoboR5		
		FocusGoboR6		

Main Menu	Sub Menu	Options/Values (Default Settings in BOLD)		Description
		FocusGoboR7		
		Fixed Gobo		
		FocusFixG1		
		FocusFixG2		
		FocusFixG3		
		FocusFixG4		
		FocusFixG5		
		FocusFixG6		
		FocusFixG7		
		FocusFixG8		
		Prism1		
		Prism1 Rot		
		Prism2		
		Prism2 Rot		
		Animation		
		Focus		
		Zoom		
		Iris		
		Frost		
		Framing Rot		
		Blade 1A		
		Blade 1B		
		Blade 2A		
		Blade 2B		
		Blade 3A		
		Blade 3B		
		Blade 4A		
		Blade 4B		
	Auto Test	Testing...		Auto Test
	Motor Reset	All		Motor Reset
		Pan & Tilt		
		CMY/CTO		
		Gobos/Colours/Prisms		
		Zoom/Focus/Iris		
		Blades		
	USB Update	**OFF**		USB Update
		ON		
	Factory	**OFF**		Factory Settings
		ON		

Main Menu	Sub Menu	Options/Values (Default Settings in BOLD)		Description
Information	Runtime	Total Time		Runtime Information
		CurrentTime		
		Password (PIN = 050)		
		Reset		
	Temperature	Head	xxx°	Temperature Information
		Base	xxx°	
		Units	C° / F°	
	Fan Speed	Head-1: xxxxRPM		Fan Speed Information
		Head-2: xxxxRPM		
		Head-3: xxxxRPM		
		Head-4: xxxxRPM		
		Head-5: xxxxRPM		
		Gobo Fan: xxxxRPM		
		Base-1: xxxxRPM		
	Model	eLumen8 Evora CMY600 Hybrid		Model Information
	RDM UID	0x09A5-xxxxxxxx		RDM UID
	Firmware	1U: Vx.x.xx 2U: Vx.x.xx 3U: Vx.x.xx ...		Software Version
	Error. Info	NONE/Pan, Tilt... (See page 14)		Current Fixture Errors

DMX channel modes:

Basic	Standard	Extend	Value	Function	Default Value
1	1	1	000-255	Pan movement (8 bit)	127
–	2	2	000-255	Pan fine (16 bit)	127
2	3	3	000-255	Tilt movement (8 bit)	127
–	4	4	000-255	Tilt fine (16 bit)	127
			Colour Wheel (split colour disabled)		
3 (when split colour is disabled in the menu - see page 5)	5 (when split colour is disabled in the menu - see page 5)	5 (when split colour is disabled in the menu - see page 5)	000-005	Open	000
			006-011	Colour 1	
			012-017	Colour 2	
			018-023	Colour 3	
			024-029	Colour 4	
			030-035	Colour 5	
			036-041	Colour 6	
			042-047	Colour 7	
			048-053	Colour 8	
			054-192	Colour wheel indexing	
			193-223	Scroll clockwise (fast-slow)	
			224	Stop	
			225-255	Scroll anti-clockwise (slow-fast)	
			Colour Wheel (split colour enabled)		
3 (when split colour is disabled in the menu - see page 5)	5 (when split colour is disabled in the menu - see page 5)	5 (when split colour is enabled in the menu - see page 5)	000-005	Open	000
			006-010	Open/Colour 1	
			011-015	Colour 1	
			016-020	Colour 1/Colour 2	
			021-025	Colour 2	
			026-030	Colour 2/Colour 3	
			031-035	Colour 3	
			036-040	Colour 3/Colour 4	
			041-045	Colour 4	
			046-050	Colour 4/Colour 5	
			051-055	Colour 5	
			056-060	Colour 5/Colour 6	
			061-065	Colour 6	
			066-070	Colour 6/Colour 7	
			071-075	Colour 7	
			076-080	Colour 7/Colour 8	
			081-085	Colour 8	
			086-090	Colour 8/Open	
			091-127	Open	

Basic	Standard	Extend	Value	Function	Default Value
3 (cont.)	5 (cont.)	5 (cont.)	**Colour Wheel (split colour enabled)**		
			128-189	Scroll clockwise (fast-slow)	
			190-193	Stop	
			194-255	Scroll anti-clockwise (slow-fast)	
–	–	6	**Colour Macros (See page 23)**		000
			000-005	No function	
			006-030	Macro 1	
			031-055	Macro 2	
			056-080	Macro 3	
			081-105	Macro 4	
			106-130	Macro 5	
			131-155	Macro 6	
			156-180	Macro 7	
			181-205	Macro 8	
			206-230	Macro 9	
			231-255	Macro 10	
4	6	7	**Cyan**		
			Full		
			000-255	Cyan (0-100%)	000
			Effect Macros		
			000-170	Cyan (0-100%)	000
			171-189	Cyan (100%-open)	
			190-221	Scroll clockwise (fast-slow)	
			222-223	Stop	
			224-255	Scroll anti-clockwise (fast-slow)	
–	–	8	000-255	Cyan Fine	000
5	7	9	**Magenta**		
			Full		
			000-255	Magenta (0-100%)	000
			Effect Macros		
			000-170	Magenta (0-100%)	000
			171-189	Magenta (100%-open)	
			190-221	Scroll clockwise (fast-slow)	
			222-223	Stop	
			224-255	Scroll anti-clockwise (fast-slow)	
–	–	10	000-255	Magenta Fine	000

DMX channel modes:

Basic	Standard	Extend	Value	Function	Default Value
			Yellow	
			Full	
			000-255	Yellow (0-100%)	000
			Effect Macros	
6	8	11	000-170	Yellow (0-100%)	
			171-189	Yellow (100%-open)	
			190-221	Scroll clockwise (fast-slow)	000
			222-223	Stop	
			224-255	Scroll anti-clockwise (fast-slow)	
–	–	12	000-255	Yellow Fine	000
7	9	13	000-255	CTO (0-100%)	000
–	–	14	000-255	CTO Fine	000
			Rotating Gobo Wheel	
			000-019	Open	
			020-026	Rotating Gobo 1	
			027-033	Rotating Gobo 2	
			034-040	Rotating Gobo 3	
			041-047	Rotating Gobo 4	
			048-054	Rotating Gobo 5	
			055-061	Rotating Gobo 6	
			062-077	Rotating Gobo 7	
8	10	15	078-093	Rotating Gobo 1 Shake (slow-fast)	000
			094-109	Rotating Gobo 2 Shake (slow-fast)	
			110-125	Rotating Gobo 3 Shake (slow-fast)	
			126-141	Rotating Gobo 4 Shake (slow-fast)	
			142-157	Rotating Gobo 5 Shake (slow-fast)	
			158-173	Rotating Gobo 6 Shake (slow-fast)	
			174-189	Rotating Gobo 7 Shake (slow-fast)	
			190-221	Scroll clockwise (fast-slow)	
			222-223	Stop	
			224-255	Scroll anti-clockwise (slow-fast)	
			Rotating Gobo Wheel Index	
9	11	16	000-127	Rotating Gobo Indexing	
			128-189	Scroll clockwise (fast-slow)	000
			190-193	Stop	
			194-255	Scroll anti-clockwise (fast-slow)	
–	12	17	000-255	Rotating Gobo Indexing Fine	000

DMX channel modes:

Basic	Standard	Extend	Value	Function	Default Value
				Fixed Gobo Wheel	
			000-005	Open	
			006-014	Gobo 1	
			015-023	Gobo 2	
			024-032	Gobo 3	
			033-041	Gobo 4	
			042-050	Gobo 5	
			051-059	Gobo 6	
			060-068	Gobo 7	
			069-077	Gobo 1 Shake (slow-fast)	
10	13	18	078-086	Gobo 2 Shake (slow-fast)	000
			087-095	Gobo 1 Shake (slow-fast)	
			096-104	Gobo 2 Shake (slow-fast)	
			105-113	Gobo 3 Shake (slow-fast)	
			114-122	Gobo 4 Shake (slow-fast)	
			123-131	Gobo 5 Shake (slow-fast)	
			132-140	Gobo 6 Shake (slow-fast)	
			141-149	Gobo 7 Shake (slow-fast)	
			150-185	Scroll clockwise (fast-slow)	
			184-220	Stop	
			221-255	Scroll anti-clockwise (fast-slow)	
				Strobe	
			000-031	LED off	
			032-063	LED on	
			064-095	Strobe (slow-fast)	
11	14	19	096-127	LED on	000
			128-159	Pulse strobe (slow-fast)	
			160-191	LED on	
			192-223	Random strobe (slow-fast)	
			224-255	LED on	
12	15	20	000-255	Dimmer (0-100%)	000
–	16	21	000-255	Dimmer fine (16 bit)	000
13	17	22	000-255	Zoom (narrow-wide)	000
–	18	23	000-255	Zoom fine	000

DMX channel modes:

Basic	Standard	Extend	Value	Function	Default Value
14	19	24	000-255	Focus (near-far)	000
–	20	25	000-255	Focus fine	000
15	21	26		**Iris**	000
			000-191	Iris (wide-narrow)	
			192-223	Pulse opening (fast-slow)	
			224-255	Pulse closing (slow-fast)	
–	22	27		Iris Fine	000
16	23	28	000-255	Frost (0-100%)	000
17	24	29		**Prism 1**	000
			000-007	No function	
			008-255	Prism 1	
18	25	30		**Prism 1 Indexing / Rotation**	000
			000-127	Prism 1 Indexing	
			128-189	Clockwise Prism Rotation (fast-slow)	
			190-193	Prism 1 rotation stop	
			194-255	Anti-clockwise Prism Rotation (slow-fast)	
19	26	31		**Prism 2**	000
			000-007	No function	
			008-255	Prism 2	
20	27	32		**Prism 2 Indexing / Rotation**	000
			000-127	Prism 2 Indexing	
			128-189	Clockwise Prism Rotation (fast-slow)	
			190-193	Prism 2 rotation stop	
			194-255	Anti-clockwise Prism Rotation (slow-fast)	
21	28	33		**Animation Indexing / Rotation**	
			000-005	No function	000
			006-127	Animation Indexing	000
			128-189	Clockwise Animation Rotation (fast-slow)	000
			190-193	Animation rotation stop	000
			194-255	Anti-clockwise Animation Rotation (slow-fast)	000
22	29	34	000-255	Framing Module Rotation	000
–	–	35	000-255	Framing Module Rotation Fine	000
23	30	36	000-255	Framing Blade 1A (outward-inward)	000
–	–	37	000-255	Framing Blade 1A Fine	000
24	31	38	000-255	Framing Blade 1B (outward-inward)	000
–	–	39	000-255	Framing Blade 1B Fine	000
25	32	40	000-255	Framing Blade 2A (outward-inward)	000
–	–	41	000-255	Framing Blade 2A Fine	000

DMX channel modes:

Basic	Standard	Extend	Value	Function	Default Value
26	33	42	000-255	Framing Blade 2B (outward-inward)	000
–	–	43	000-255	Framing Blade 2B Fine	000
27	34	44	000-255	Framing Blade 3A (outward-inward)	
–	–	45		Framing Blade 3A Fine	
28	35	46		Framing Blade 3B (outward-inward)	
–	–	47		Framing Blade 3B Fine	
29	36	48	000-255	Framing Blade 4A (outward-inward)	000
–	–	49	000-255	Framing Blade 4A Fine	000
30	37	50	000-255	Framing Blade 4B (outward-inward)	000
–	–	51	000-255	Framing Blade 4B Fine	000
			Dimming Modes		
31	38	52	0-20	Standard dimming mode	000
			21-40	Stage dimming mode	
			41-60	TV dimming mode	
			61-80	Architectural dimming mode	
			81-100	Theatre dimming mode	
			101-255	Default dimming mode (set on fixture)	
32	39	53	000-255	Pan/tilt speed	000
33	40	54	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)	

DMX channel modes:

Basic	Standard	Extend	Value	Function	Default Value
			169-176	10kHz (hold 3s)	
			177-184	15kHz (hold 3s)	
			185-192	20kHz (hold 3s)	
33 (cont.)	40 (cont.)	54 (cont.)	193-200	25kHz (hold 3s)	000
			201-208	Reset pan/tilt (hold 3s)	
			209-216	Reset head only (hold 3s)	
			217-224	Reset all motors (hold 3s)	
			225-255	No function	

Macro	Example	Cyan	Magenta	Yellow	Colour Wheel
1		50% split	50% split	0%	Open
2		100%	50% split	0%	Open
3		50% split	100%	0%	Open
4		33% split	33% split	0%	Open
5		0%	50% split	50% split	Open
6		0%	50% split	100%	Open
7		0%	100%	50% split	Open
8		0%	33% split	33% split	Open
9		50% split	50% split	50% split	Open
10		33% split	33% split	0%	Yellow

Dimming Curve Ramp Effect	0 second fade time		1 second fade time	
	Rise time (ms)	Down time (ms)	Rise time (ms)	Down time (ms)
Standard (default)	0	0	0	0
Stage	780	1100	1540	1660
TV	1180	1520	1860	1940
Architectural	1380	1730	2040	2120
Theatre	1580	1940	2230	2280
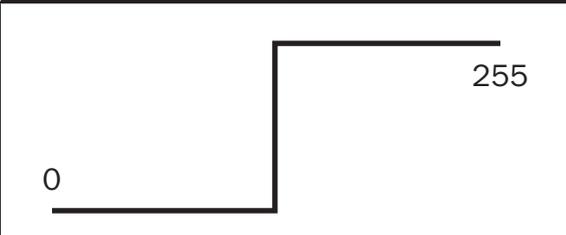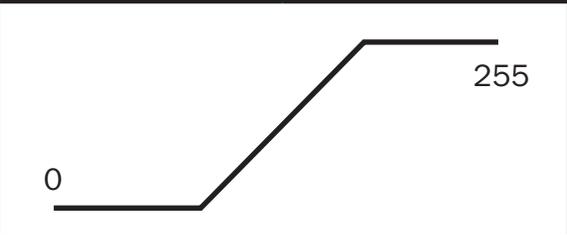
Rotating gobos:
Gobo size: 23mmØ   Image size: 19mmØ
Gobo thickness: 1.1mm
(Max. thickness if replaced 1.1mm)
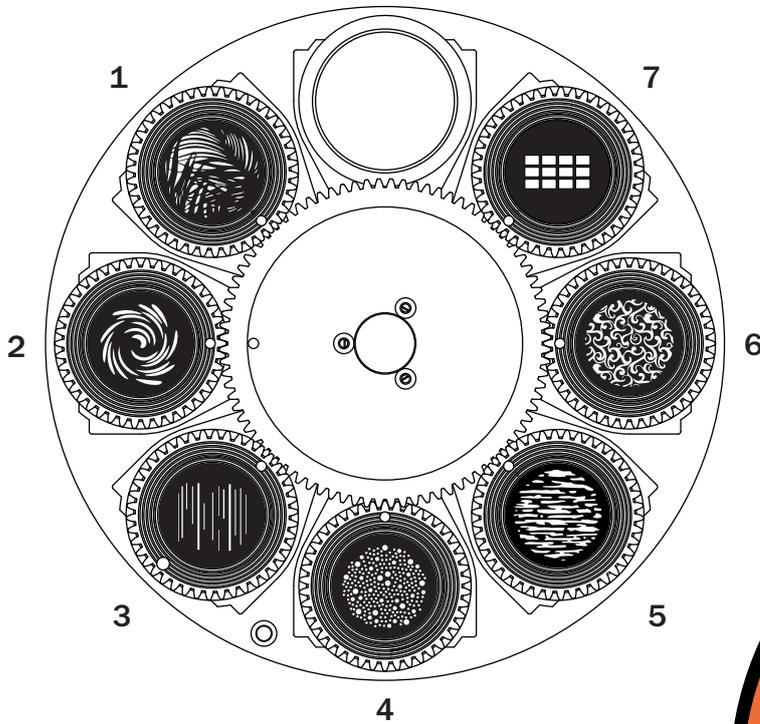
Colour wheel:
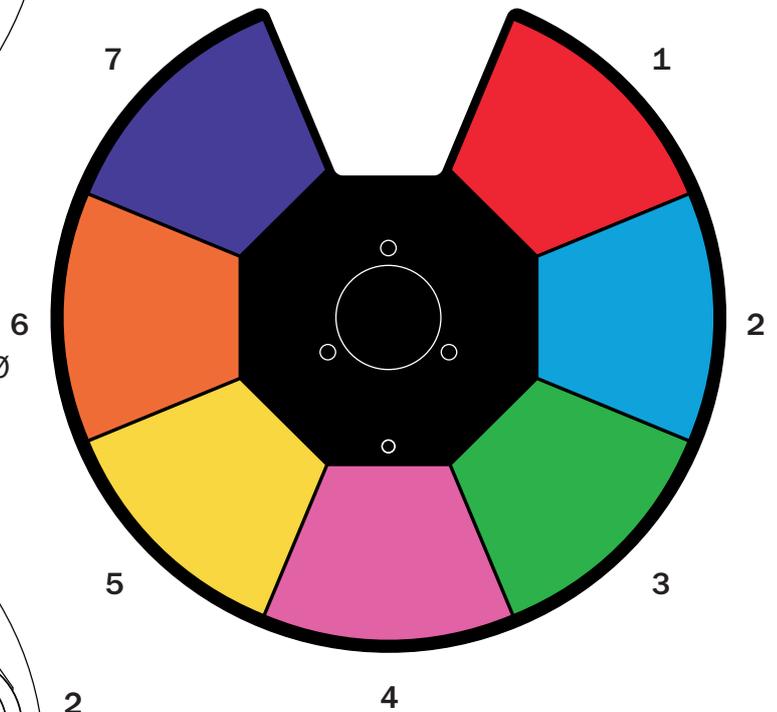
Static gobos:
Gobo size: 23mmØ   Image size: 19mmØ
Gobo thickness: 1.1mm
(Max. thickness if replaced 1.1mm)
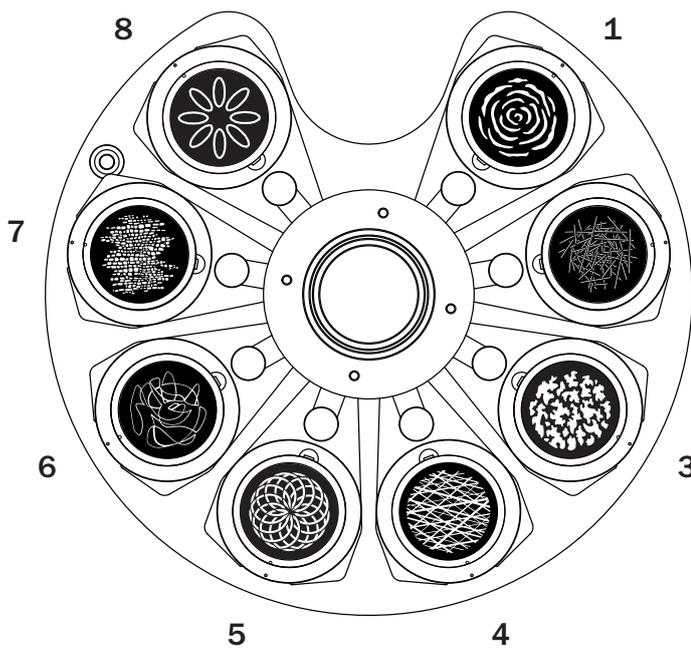
Setting the DMX address:

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
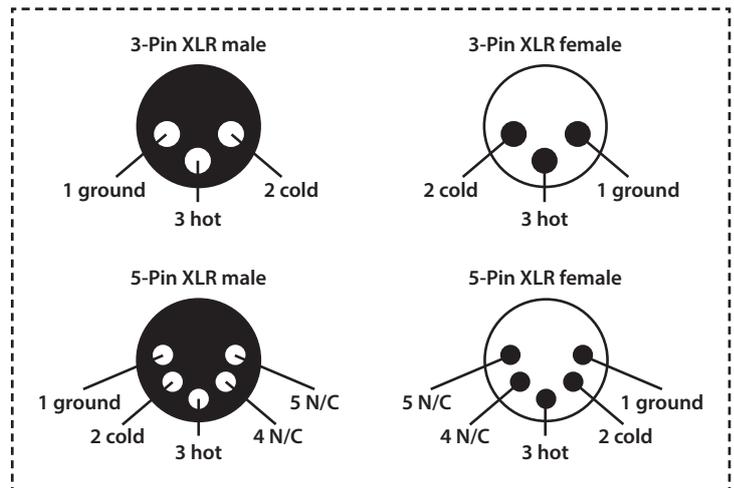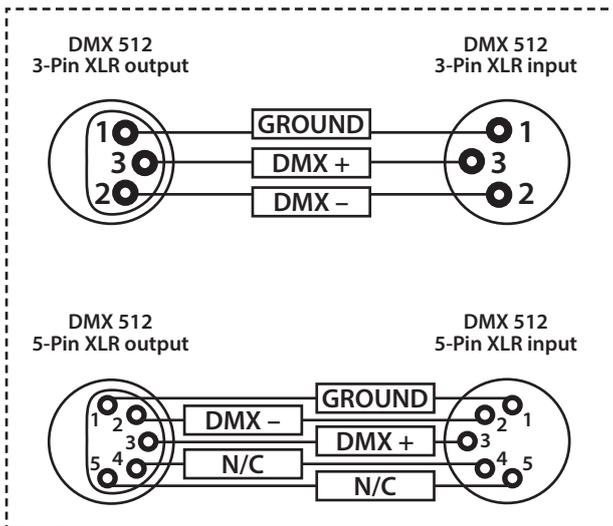
Line termination:

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)

Termination reduces signal transmission problems and interference. It is always advisable to connect a DMX terminal, (resistance 120 Ohm 1/4W) between pin 2 (DMX-) and pin 3 (DMX+) of the last fixture.
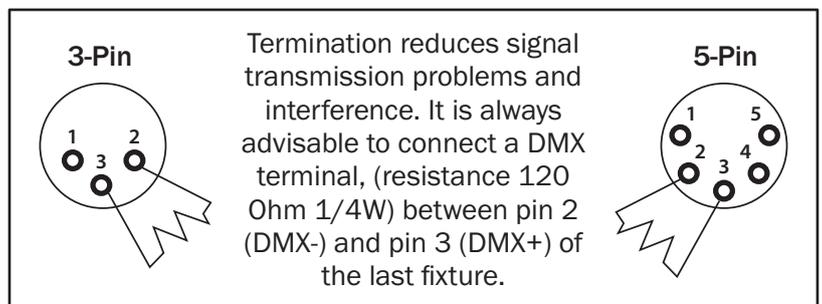
5-pin XLR DMX connectors:

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.

5-pin XLR (female)
Pin 1: GND (screen)
Pin 2: Signal (-)
Pin 3: Signal (+)
Pin 4: N/C
Pin 5: N/C

3-pin XLR (male)
Pin 1: GND (screen)
Pin 2: Signal (-)
Pin 3: Signal (+)

3-pin XLR (female)
Pin 1: GND (screen)
Pin 2: Signal (-)
Pin 3: Signal (+)

5-pin XLR (male)
Pin 1: GND (screen)
Pin 2: Signal (-)
Pin 3: Signal (+)
Pin 4: N/C
Pin 5: N/C
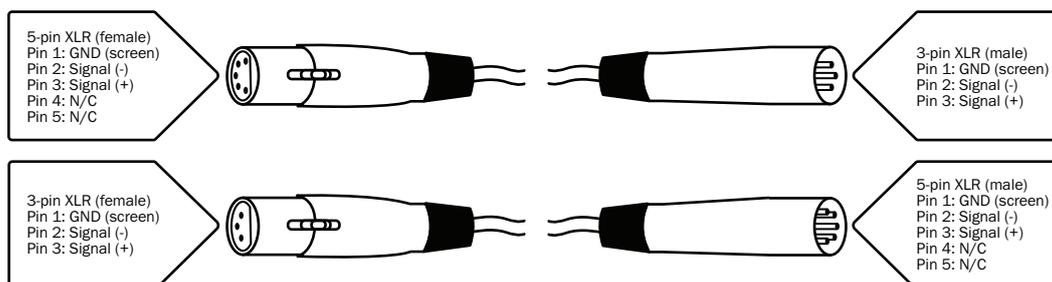
<u>Power linking:</u>

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 CMY600 Hybrid 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.
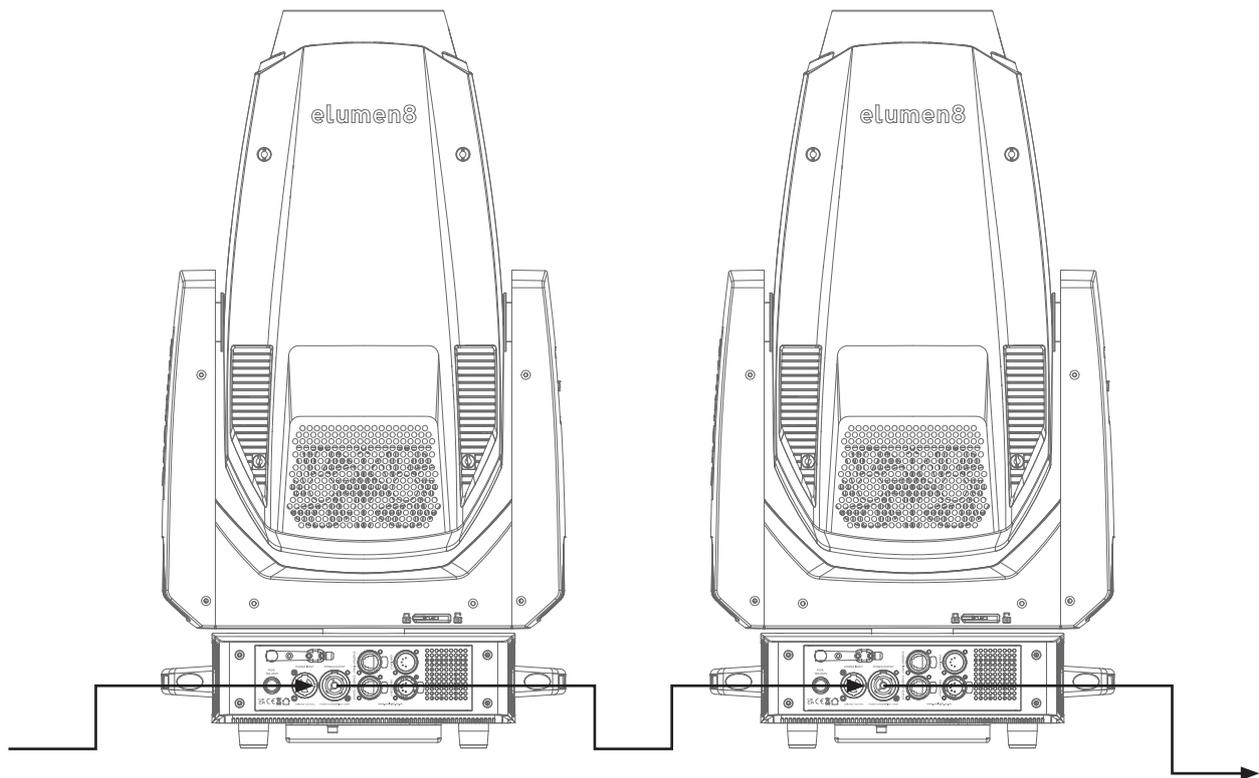
Correct Disposal of this Product
(Waste Electrical & Electronic Equipment)

**(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.