EQUINOX

Midas Spot

User Manual

Order code: EQLED072

WARNING

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

- Before 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 Pro Light dealer for service.
- Only use fuses of same type and rating.
- 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: One year 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.

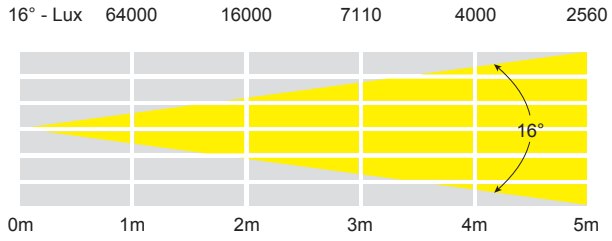
Do not endanger your own safety and the safety of others!

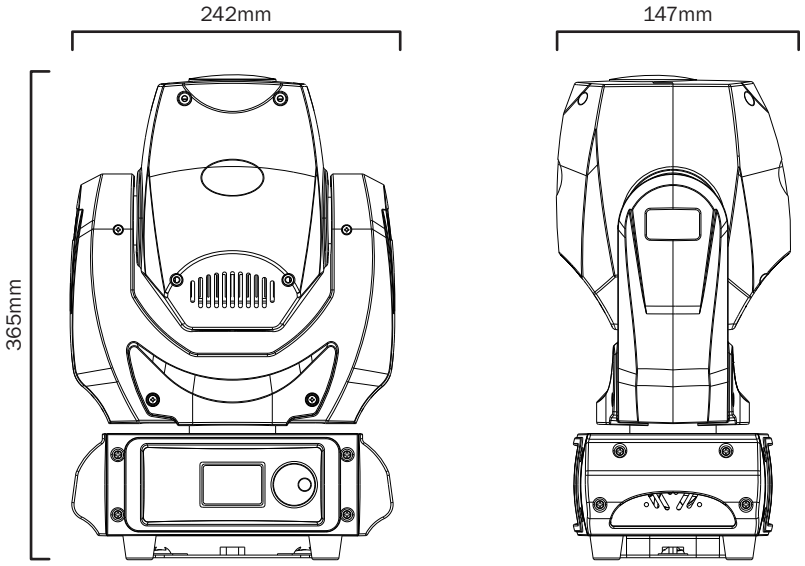
Incorrect installation or use can cause serious damage to people and/or property.

Midas Spot

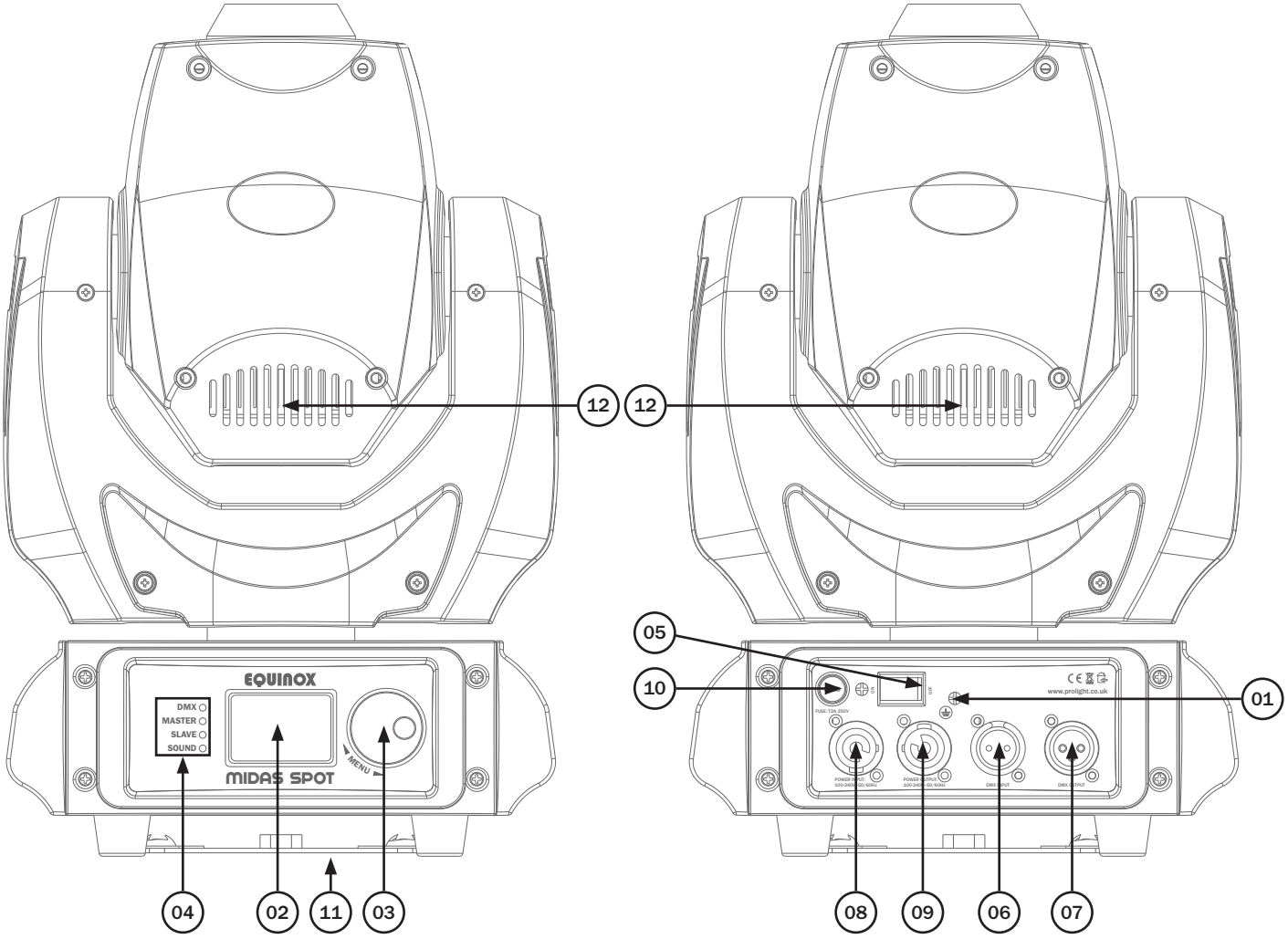
The Midas Spot is a revolutionary LED powered moving head. It takes the LED output from a 60W source to the next level all within an amazingly compact fixture. The Midas Spot has an output comparable to a 250W discharge fixture. Much faster than many other moving heads the Midas Spot not only moves with agility it also keeps perfect synchronisation thanks to its automatic pan/tilt correction. The mighty power of its LED source, combined with 7 dichroic colours, a tri-colour filter plus open and 7 rotating, interchangeable gobos and the addition of a 3 facet prism along with motorised focus makes the Midas Spot a spectacular effect in any application.

- 1 x 60W white LED
- Beam angle: 16°
- 16,000 Lux @ 2m
- 4kHz refresh rate
- Motorised focus
- 3 facet prism
- Gobo wheel: 7 rotating replaceable gobos + open (2 additional gobos supplied)
- Colour wheel: 7 colours + tri-colour filter + open
- DMX channels: 1/10 or 13 selectable
- Auto, sound active and master/slave modes
- Pan/tilt auto correction
- 16-Bit pan/tilt positioning
- Pan: 540°, Tilt: 270°
- 0-100% dimming and variable strobe
- Supplied with quick release omega clamp
- Jog wheel menu with 2” LCD display
- PowerCON input/output
- 3-Pin XLR input/output
- Fan cooled





Specifications	Midas Spot
Power consumption	105W
Fuse	T2A 250V
Power supply	100~240V, 50/60Hz
Dimensions	365 x 242 x 147mm
Weight	6.9kg
Order code	EQLED072



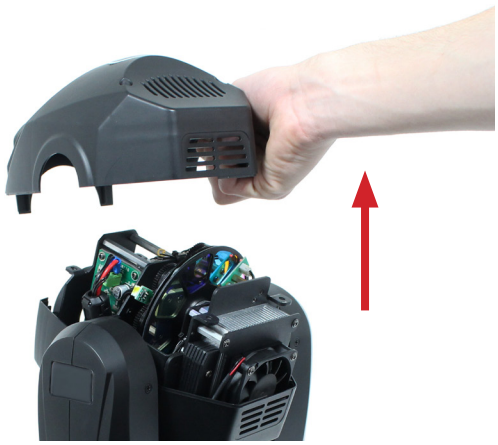
01 - Earth point
02 - LCD display
03 - Jog wheel
04 - LED mode indicators
05 - On/off switch
06 - 3-Pin DMX input
07 - 3-Pin DMX output
08 - PowerCON input
09 - PowerCON output
10 - Fuse T2A 250V
11 - Omega bracket plate
12 - Fan cooling vents

In the box: **1 x fixture, 1 x omega clamp, 1 x power cable & 1 x user manual**

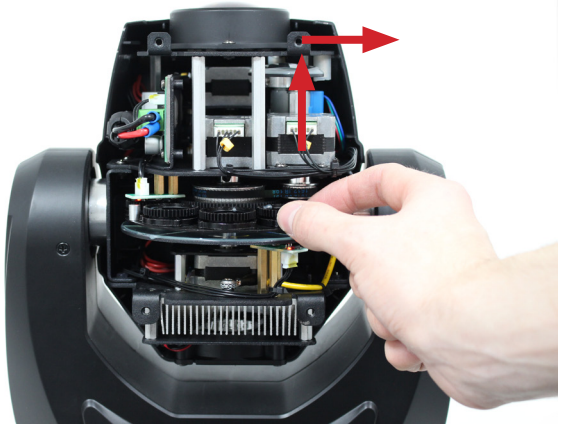
Rotating Gobo Replacement:

The fixture is supplied with 7 rotating, replaceable gobos. See below for installation instructions.

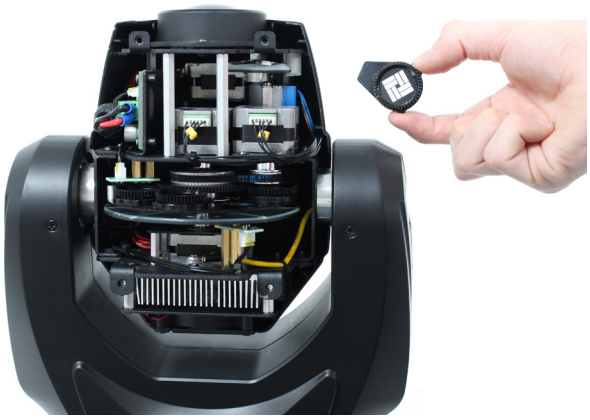
1) Disconnect and isolate from the power then place the fixture on a flat surface and unscrew the head shell.



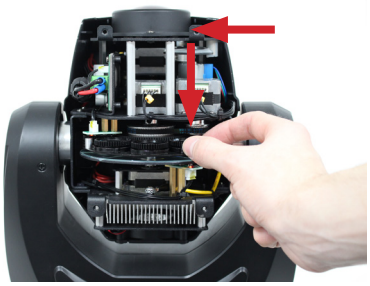
2) Remove the head shell from the head.



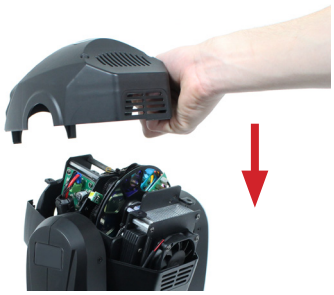
3) Carefully remove one of the gobo trays by lifting slightly and pulling towards you releasing the tray from the spring clip.



4) Now you can remove the circlip, followed by the gobo from the gobo tray. Replace the gobo and fit the circlip back into the tray.



5) Place the gobo tray back into the gobo wheel by sliding it back under the spring clip and pushing it down into the wheel.



6) Place the head shell back onto the head.

7) Tighten the screws until the head shell is secure.

Control Panel Menu:

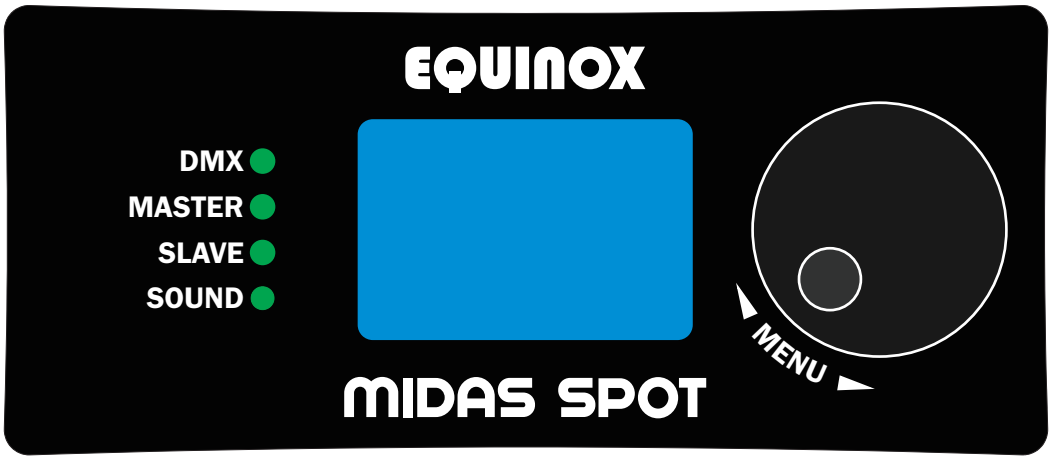
The LCD control panel situated on the front of the fixture allows the user to access the menu system to adjust the fixtures settings.

When the unit has been powered on it will show "**Wait...**" followed by "**Equinox Midas Spot**".
The fixture will then return to its home screen.

To access the main menu turn the jog wheel clockwise or anti-clockwise until the menu required is highlighted. Pressing the jog wheel on one of these options allows you to access the sub menu where you can turn the jog wheel clockwise or anti-clockwise to select the option/value required.
Once the option/value has been selected press the jog wheel once more to confirm the setting.

There are 4 LED indicators on the front panel of the fixture:

DMX - This LED indicator will flash when the unit is receiving a DMX signal.
MASTER - This LED indicator will illuminate when in Master mode.
SLAVE - This LED indicator will flash when in Slave mode.
SOUND - This LED indicator will flash when in Sound mode.



Main Menu	Sub Menu (Default Settings in BOLD)	Options/Values	Description
1)DMX Address	001-512		DMX Address Setting
2)Channel Mode	1Ch (1 channel mode)		DMX Channel Setting
	10Ch (10 channel mode)		
	13Ch (13 channel mode)		
3)Show Mode	Show01-Show08 Forward Facing Show		Built-in Programs
4)Slave Mode	**Slave1**		Slave Mode Setting
	Slave2		Auto Mode
5)Sound Mode	On		Sound Mode/Settings
	Off		
	Sens	000-255	
	Exit		
6)Manual Control	1:Pan	00000-65535	Manual Control Mode
	2:Tilt	00000-65535	
	3:Dimmer	000-255	
	4:Strobe	000-255	
	5:Color	000-255	
	6:Gobo	000-255	
	7:Gobo R	000-255	
	8:Prism	000-255	
	9:Focus	000-255	
	Exit		
7)Settings	1:Pan Invert	**Normal**	Pan Inverse Setting
		Invert	
	2:Tilt Invert	**Normal**	Tilt Inverse Setting
		Invert	
	3:Dimmer Curve	**1:Square Law**	Dimming Curve Settings
		2:Linear	
		3:S-Curve	
		4:InvSquare Law	
	4:DMX Fail	**1:Off**	DMX Fail Settings
		2:Hold	
		Exit	
	5:Display	**1:Auto rotate**	Display Inverse Setting
		2:Normal	
		3:Inverted	
		Exit	
	6:Back Light	1:On	Display Back Light Setting
		2:Off	
		3:Adjust(01-10)	
		Exit	

Main Menu	Sub Menu	Options/Values	Description
7)Settings	7:Reset	Yes	Motor Reset
		No	
	8:Factory Sets	Yes	Factory Reset
		No	
	9:Auto Test	Test	Auto Test
		Exit	
	Exit		Exit Sub Menu
8)Calibrations Password (088)	1:Pan	000--255	Initial Home Position Calibration
	2:Tilt	000--255	
	3:Color	000--255	
	4:Gobo	000--255	
	5:Focus	000--255	
	6:Default	(Reset all home positions to 127/)	
9)Version	Vx.xx		Software Version
Exit			Return to Home Screen

DMX channel modes:

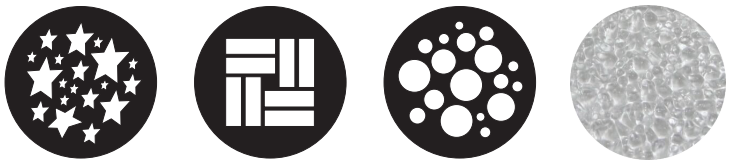
Channel			Value	Function
1	10	13		
	1	1	000-255	Pan adjustment 0-540°
		2	000-255	Pan fine adjustment
	2	3	000-255	Tilt adjustment 0-270°
		4	000-255	Tilt fine adjustment
	3	5	000-255	Pan/tilt speed (fast-slow)
	4	6	000-255	Master dimmer (0-100%)
	5	7	000-010	No function
			011-128	Random strobe (slow-fast)
			129-255	Linear strobe (slow-fast)
	6	8	000-011	Open (white)
			012-023	Red
			024-035	Green
			036-047	Blue
			048-059	Yellow
			060-071	Magenta
			072-083	Sky Blue
			084-095	Orange
			096-107	Tri-colour Filter (RGB)
			108-119	Split colour (Open/Red)
			120-131	Split colour (Red/Green)
			132-143	Split colour (Green/Blue)
			144-155	Split colour (Blue/Yellow)
			156-167	Split colour (Yellow/Magenta)
			168-179	Split colour (Magenta/Sky Blue)
			180-191	Split colour (Sky Blue/Orange)
			192-203	Split colour (Orange/Tri-colour Filter (RGB))
			204-215	Split colour (Tri-colour Filter (RGB)/Open)
			216-235	Colour scroll clockwise (fast-slow)
			236-255	Colour scroll anti-clockwise (slow-fast)
	7	9	000-011	Open
			012-023	Rotating gobo 1
			024-035	Rotating gobo 2
			036-047	Rotating gobo 3
			048-059	Rotating gobo 4
			060-071	Rotating gobo 5
			072-083	Rotating gobo 6
			084-095	Rotating gobo 7

DMX channel modes cont:

Channel			Value	Function
1	10	13		
	7 cont.	9 cont.	096-107	Rotating gobo 7 shake (slow-fast)
			108-119	Rotating gobo 6 shake (slow-fast)
			120-131	Rotating gobo 5 shake (slow-fast)
			132-143	Rotating gobo 4 shake (slow-fast)
			144-155	Rotating gobo 3 shake (slow-fast)
			156-167	Rotating gobo 2 shake (slow-fast)
			168-179	Rotating gobo 1 shake (slow-fast)
			180-191	Open
			192-223	Gobo scroll clockwise (fast-slow)
			224-255	Gobo scroll anti-clockwise (slow-fast)
	8	10	000-127	Gobo rotation index
			128-191	Gobo rotation clockwise (fast-slow)
			192-255	Gobo rotation anti-clockwise (slow-fast)
	9	11	000-080	No function
			081-255	3 facet prism
	10	12	000-255	Focus
		13	000-009	No function
			010-020	Reset motors (hold for 5 seconds)
			021-255	No function
1			000-007	No function
			008-037	Show 1
			038-067	Show 2
			068-097	Show 3
			098-127	Show 4
			128-157	Show 5
			158-187	Show 6
			188-217	Show 7
			218-247	Show 8
			248-255	Forward Facing Show

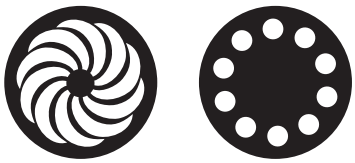
Rotating gobos:
Gobo size: 24mmØ
Image size: 19.5mmØ

Open | Gobo 1 | Gobo 2 | Gobo 3



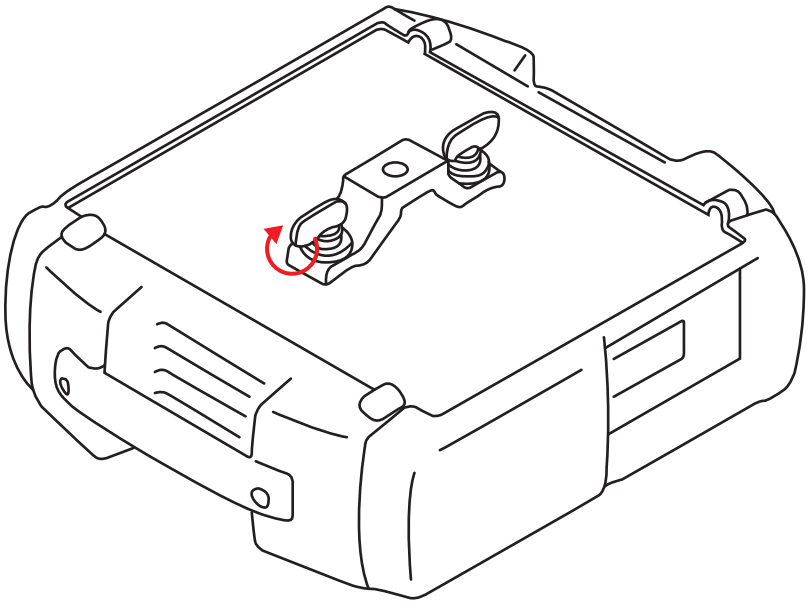
Gobo 4 | Gobo 5 | Gobo 6 | Gobo 7

Additional rotating gobos (supplied):
Gobo size: 24mmØ
Image size: 19.5mmØ



Installation:

1) Bolt each clamp to the Omega bracket(s) with the bolt and locking nut throughout the hole in the bracket.
2) Fasten the Omega bracket(s) to the bottom of the moving head base by inserting the quick lock fasteners into the receiving holes in the base and tighten.
3) Hang the fixture to the support through the clamp and secure with the locking nuts. Fasten the safety cable through the bottom of the base and over the support.



Attention:

- Always ensure that the structure to which you are attaching the fixture is secure and able to support a weight of 10 times the fixtures weight.
- Always use a safety cable that cab hold 12 times the weight of the fixture when installing.
- Make sure that the fixture is firmly attached in a way that no vibrations or movement could occur during operation.
- The equipment must be installed by professionals and must be installed in an area where it is out of reach of people and no one can pass by or under it.

Setting the DMX address:

The DMX mode enables the use of a universal DMX controller. Each fixture requires a “start address” from 1- 511. 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 and your DMX controller require a standard 3-pin XLR connector for data input/output, see image below.

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

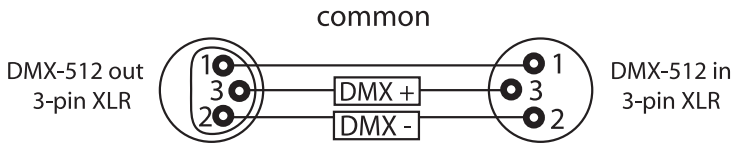
Please quote:

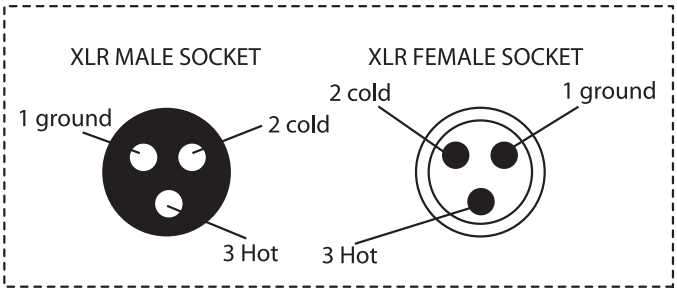
CABL10 – 2m
CABL11 – 5m
CABL12 – 10m

Note: 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.





XLR Pin Configuration
Pin 1 = Ground
Pin 2 = Negative
Pin 3 = Postive

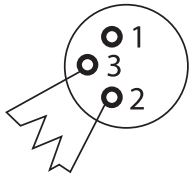
Special note:

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.

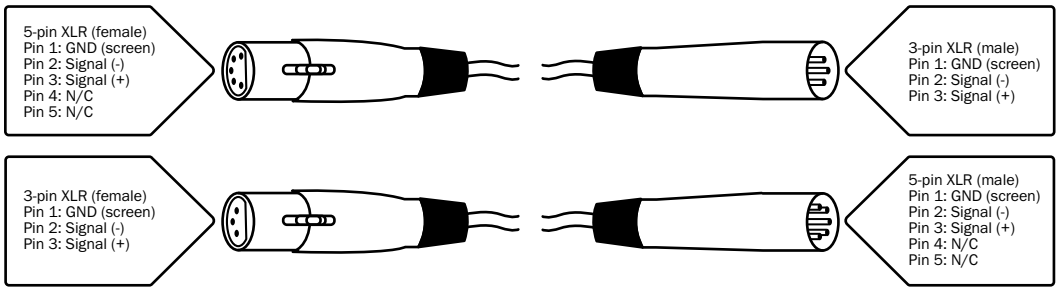
(3-pin - Order ref: CABL90, 5-pin - Order ref: CABL89)



Termination reduces signal transmission problems and interference. It is always advisable to connect a DMX terminal, (resistance 120 Ohm 1/4 W) 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.



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.

EQUINOX