LED Spot Moving Head

USER MANUAL

☐ 30W ☐ 60W

1. BEFORE YOU BEGIN

What is included

LED SPOT 30 MOVING HEAD
USER MANUAL
POWER PLUG

Unpacking Instructions

Immediately upon receiving a fixture, carefully unpack the carton, check the contents to ensure that all parts are present, and have been received in good condition. Notify the shipper immediately and retain packing material for inspection if any parts appear damaged from shipping or the carton itself shows signs of mishandling. Save the carton and all packing materials. In the event that a fixture must be returned to the factory, it is important that the fixture be returned in the original factory box and packing.

Safety Instructions

> Please read these instructions carefully, it includes important information about the installation, usage and maintenance of this product.

- Please keep this User Guide for future consultation. If you sell the unit to another user, be sure that they also receive this instruction booklet.
- Always make sure that you are connecting to the proper voltage, and that the line voltage you are connecting to is not higher than that stated on the decal or rear panel of the fixture.
- This product is intended for indoor use only!
- To prevent risk of fire or shock, do not expose fixture to rain or moisture. Make sure there are no flammable materials close to the unit while operating.
- The unit must be installed in a location with adequate ventilation, at least 20in (50cm) from adjacent surfaces. Be sure that no ventilation slots are blocked.
- Always disconnect from power source before servicing or replacing fuse and be sure to replace with same fuse size and type.
- Secure fixture to fastening device using a safety chain. Never carry the fixture solely by its head. Use its carrying handles.
- Maximum ambient temperature (Ta) is 104°F (40°C). Do not operate fixture at temperatures higher than this.
- In the event of a serious operating problem, stop using the unit immediately. Never try to repair the unit by yourself. Repairs carried out by unskilled people can lead to damage or malfunction. Please contact the nearest authorized technical assistance center. Always use the same type spare parts.
- Don't connect the device to a dimmer pack.
- Make sure the power cord is never crimped or damaged.
- Never disconnect the power cord by pulling or tugging on the cord.
- Avoid direct eye exposure to the light source while it is on.

2. INTRODUCTION

Features

LED SPOT MOVING HEAD PAGE4
11 CHENNELS DMX-512
PAN: 540 TILT: 255
7 COLOR + WHITE
6 GOBOS + WHITE
MANUAL FOCUS
VARIABLE ELECTRONIC STROBE
VARIABLE ELECTRONIC DIMMER
VECTOR SPEED CHANNEL FOR TILT/PAN
BUILT IN MOVEMENT MACROS VIA MASTER/SLAVE OR DMX
SOUND ACTIVED
COMPACT & LIGHTWEIGHT
LED DISPLAY MENU WITH INVERT, RESET TO FACTORY
SETTING OPTION
PAN/TILT INVERT OPTION
FAN COOLED

DMX Channel Summary – 10 /11Channel mode

| Channel	Function
CH1	PAN
CH2	TILT
CH3	OPEN +SHUTTER
CH4	COLOR WHEEL 7COLOR
CH5	GOBO WHEEL 76GOBO
CH6	GOBO ROTATION
CH7	SPEED FOR
CH8	Dimming
CH9	PAN 16BIT
CH1 0	TILT 16BIT
CH 11	3-Facet prism

3. SETUP

Fuse Replacement

With a cross head screwdriver wedge the fuse holder out of its housing. Remove the damaged fuse from its holder and replace with exact same type fuse. Insert the fuse holder back in its place and reconnect power.

The fuse is located inside this compartment. Remove using a cross head screwdriver.

FUSE

2A 220V
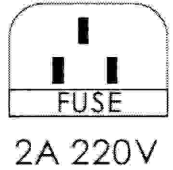
Fixture Linking

You will need a serial data link to run light shows of one or more fixtures using a DMX-512 controller or to run synchronized shows on two or more fixtures set to a master/slave operating mode. The combined number of channels required by all the fixtures on a serial data link determines the number of fixtures the data link can support.

Important: *Fixtures on a serial data link must be daisy chained in one single line. To comply with the EIA-485 standard no more than 32 devices should be connected on one data link. Connecting more than 32 fixtures on one serial data link without the use of a DMX optically-isolated splitter may result in deterioration of the digital DMX signal.*

Maximum recommended serial data link distance: 500 meters (1640 ft.)
Maximum recommended number of fixtures on a serial data link: 32 fixtures

DMX DATA CABLE

Use a Belden 9841 or equivalent cable which meets the specifications for EIA RS-485 applications. Standard microphone cables cannot transmit DMX data reliably over long distances. The cable will have the following characteristics:

2-conductor twisted pair plus a shield
Maximum capacitance between conductors – 30 pF/ft.
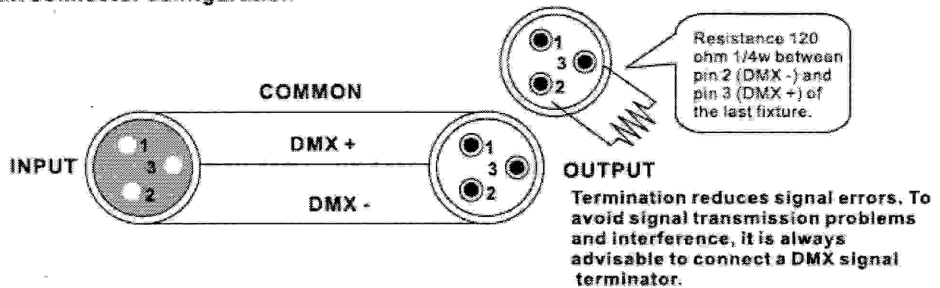*Maximum capacitance between conductor and shield – 55 pF/ft.*
Maximum resistance of 20 ohms / 1000 ft.
Nominal impedance 100 – 140 ohms

CABLE CONNECTORS

Cabling must have a male XLR connector on one end and a female XLR connector on the other end.

DMX connector configuration

Resistance 120 ohm 1/4w between pin 2 (DMX -) and pin 3 (DMX +) of the last fixture.

INPUT

COMMON

DMX +

DMX -

OUTPUT

Termination reduces signal errors. To avoid signal transmission problems and interference, it is always advisable to connect a DMX signal terminator.

CAUTION   Do not allow contact between the common and the fixture's chassis ground. Grounding the common can cause a ground loop, and your fixture may perform erratically. Test cables with an ohm meter to verify correct polarity and to make sure the pins are not grounded or shorted to the shield or each other.

3-PIN TO 5- PIN CONVERSION CHART

Note!   If you use a controller with a 5 pin DMX output connector, you will need to use a 5 pin to 3 pin adapter.

The chart below details a proper cable conversion:

3 PIN TO 5 PIN CONVERSION CHART

| Conductor	3 Pin Female (output)	5 Pin Male (Input)
Ground/Shield	Pin 1	Pin 1
Data (-) signal	Pin 2	Pin 2
Data (+) signal	Pin 3	Pin 3
Do not use	Do not use	
Do not use	Do not use	

Setting up a DMX Serial Data Link

1. Connect the (male) 3 pin connector side of the DMX cable to the output (female) 3 pin connector of the controller.
2. Connect the end of the cable coming from the controller which will have a (female) 3 pin connector to the input connector of the next fixture consisting of a (male) 3 pin connector.

3. Then, proceed to connect from the output as stated above to the input of the following fixture and so on.

Universal DMX Controller
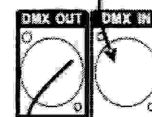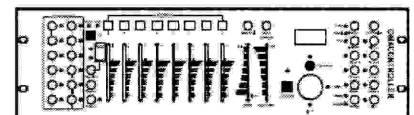
This drawing provides a general illustration of the DMX Input/Output panel of a lighting fixture

Continue the link
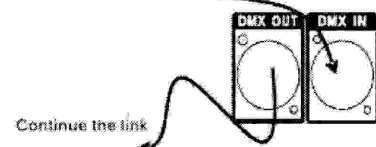
Master/Slave Fixture Linking

1. Connect the (male) 3 pin connector side of the DMX cable to the output (female) 3 pin connector of the first fixture.

2. Connect the end of the cable coming from the first fixture which will have a (female) 3 pin connector to the input connector of the next fixture consisting of a (male) 3 pin connector. Then, proceed to connect from the output as stated above to the input of the following fixture and so on.

Often, the setup for Master-Slave and Standalone operation requires that the first fixture in the chain be initialized for this purpose via eithe settings in the control panel or DIP-r switches. Secondarily, the fixtures that follow may also require a slave setting. Please consult the "Operating Instructions" section in this manual for complete instructions for this type of setup and configuration.
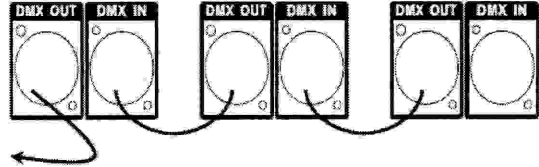
Mounting

ORIENTATION

This fixture may be mounted in any position provided there is adequate room for ventilation.

RIGGING

It is important never to obstruct the fan or vents pathway. Mount the fixture using, a suitable "C" or "O" type clamp. Adjust the angle of the fixture by loosening both knobs and tilting the fixture. After finding the desired position, retighten both knobs.

When selecting installation location, take into consideration lamp replacement access and routine maintenance.
Safety cables must always be used.
Never mount in places where the fixture will be exposed to rain, high humidity, extreme temperature changes or restricted ventilation.

Hanging Clamp
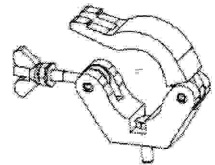
Note!
Clamp is sold separately.

4. OPERATING INSTRUCTIONS

Navigating the Control Panel

Access control panel functions using the four panel buttons located directly underneath the LCD Display.

Button	Function
<MODE/ESC>	Used to access the menu or to return to a previous menu option
<UP>	Scrolls through menu options in ascending order
<DOWN>	Scrolls through menu options in descending order
<ENTER>	Used to select and store the current menu or option within a menu

MODE/ESC   UP   DOWN   ENTER
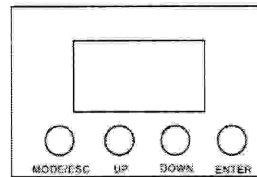
When a menu function is selected, the display will show immediately the first available option for the selected menu function. To select a menu item, press <ENTER>.

Press the <MODE/ESC> button repeatedly until you reach the desired menu function. Use the <UP> and <DOWN> buttons to navigate the menu options. Press the <ENTER> button to select the menu function currently displayed, or to enable a menu option. To return to the previous option or menu without changing the value, press the <MODE/ESC> button.

User Configurations

`A001` →	`A001`	DMX MODE
`Au01` →	`Au02`	AUTO RUNNING SLOW
	`Au01`	AUTO RUNNING FAST
`SnoF` →	`SnoF`	SOUND ACTIVITY OFF
	`Snon`	SOUND ACTIVITY ON
`rPoF` →	`rPoF`	PAN DIRECT
	`rPon`	PAN INVERT
`rtoF` →	`rtoF`	TILT DIRECT
	`rton`	TILT INVERT
`rdoF` →	`rdoF`	DISPLAY
	`rdon`	DISPLAY INVERT ON
`dFoF` →	`dFoF`	FACTORY DEFAULT OFF
	`dFon`	FACTORY DEFAULT ON
`rSt` →	`rSt`	RESET
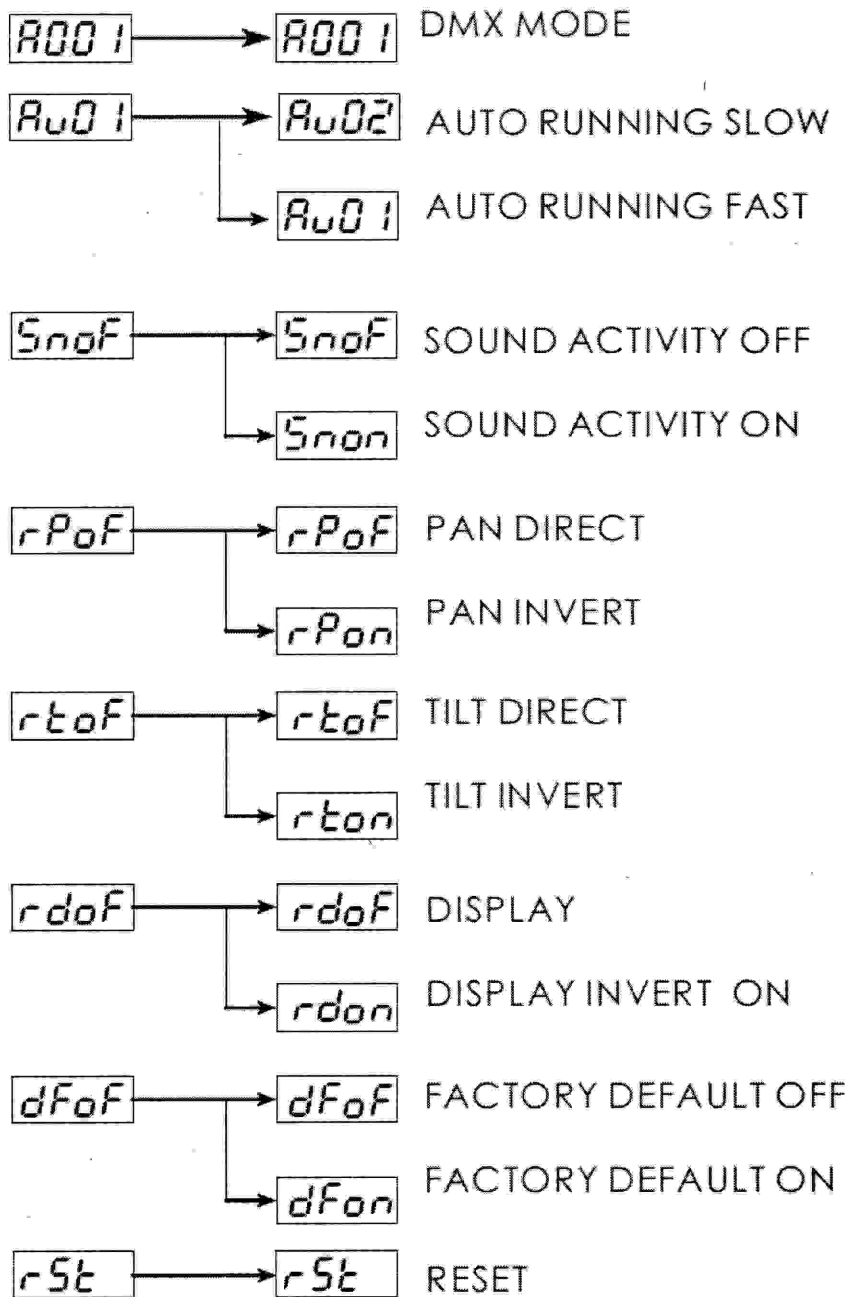
5. DMX CHANNEL PROTOCOL

Channels	DMX	Control Content Description
CH1	000-255	PAN MOVEMENT
CH2	000-255	TILT MOVEMENT
CH3	000-255	PAN/TILT SPEED
CH4 COLOR	000-017	WHITE
	018-033	COLOR 1
	034-050	COLOR 2
	051-067	COLOR 3
	068-084	COLOR 4
	085-101	COLOR 5
	102-107	COLOR 6
	108-127	COLOR 7
	128-192	WHOLE WHEEL FORWARD F-S
	193-255	WHEEL BACKWARD S-F
CH5 GOBO	000-020	WHITE
	021-041	GOBO 1
	042-062	GOBO 2
	063-083	GOBO 3
	084--104	GOBO 4
	105-125	GOBO 5
	126-146	GOBO 6
	147-208	WHOLE WHEEL FORWARD F-S
	209-255	WHEEL BACKWARD S-F
CH6 GOBO ROTATION	000-010	NOT ROTATION
	011-130	F-S
	131-135	NOT ROTATION
	136-255	S-F
CH7 STROBOFLASH	000-010	NO FUNCTION
	011-020	WHITE
	021-030	RESET AFTER 10 SECOND
	031-250	SHUTTER S-F WHITE
	251-255	WHITE
CH8 DIMMING	000-255	LINEA DIMMING
CH9:	000-255	X 16bit
CH10:	000-255	Y 16bit
CH11	000-128	WHITE
	129-255	**3-Facet prism**

6.APPENDIX

Technical Specification

WEIGHT & DIMENSIONS

Length..275mm
Width...275mm
Height..305mm
Packing size.. 34.5 x 34 x 43.5cm
Net weight... 7.1   kg
Gross weight ....   8.7 kg
POWER
Power settings...230V 50Hz/60Hz
Fuse..2A   250V
Consumption..80/100W

LIGHT SOURCE
1 X 30Wor60W LED...
LAMP LIFE: 50,000Hrs

CONTROL & PROGRAMMING
Data output...locking 3-pin XLR male socket
Data input...locking 3-pin XLR female socket
Protocols..DMX-512
DMX channels...10/11CH