PULSE

Double-face LED Moving Wash/Beam Light
Model: PLS00572

Please read these instructions carefully before use and retain for future reference.

IMPORTANT SAFETY INFORMATION

- When using electrical appliances basic safety precautions should always be followed.
- Check the product before use for any damage. Should you notice any damage on the cable or casing, do not use.
- Check that the voltage indicated on the rating plate corresponds with that of the local network before connecting the product to the power supply.
- Keep this product away from rain and moisture.
- Caution: Never look directly into the light source.
- Always disconnect from power when the product is not in use or before cleaning.
- Do not operate or store in an environment of high humidity or where moisture may enter the product as this can reduce insulation and lead to electric shock.

Safety Information for Installation and Operation
- When installing, make sure that the product is not exposed to extreme heat, moisture or dust.
- If you're using a smoke machine, make sure that the product is never exposed to the direct smoke jet and is installed at least 1.5' away.
- The ambient temperature must always be between 23°F and 113°F. Keep away from air-conditioning units and heaters.
- The relative humidity must not exceed 50% with an ambient temperature of 113°F.
- This product must only be operated in an altitude between -65' and 6560' above sea level.
- The minimum distance between the light-output and the illuminated surface must be more than 1.5'.
- This product is allowed to be installed via a mounting bracket. In order to have sufficient ventilation, leave 20" of free space around the device.
- The housing must not touch any surrounding surfaces or objects.
- Operate the product only after having familiarized yourself with its functions. Do not allow operation by persons unqualified.
- A secondary means of suspension must be provided, such that in the event of a failure of the primary suspension, no part of the luminaire can fall.
- The operator must make sure that safety related matters are observed and that the installation is approved by a qualified installer before taking into operation for the first time.

PRODUCT OVERVIEW

MENU **DOWN** **UP** **ENTER**

DMX In   DMX Out

IEC Power
Connector with
Fuse holder
(Rear)
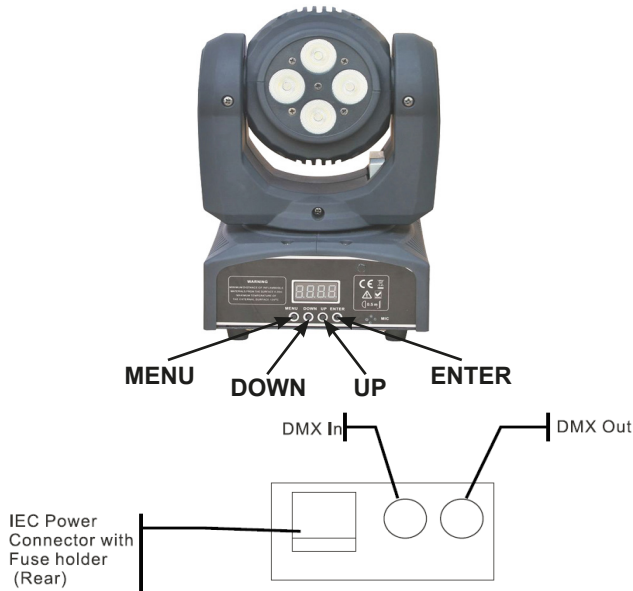
SETUP

Fuse Replacement
- With a flat head screwdriver, prise the fuse holder out of its housing.
- Remove the defective fuse from its holder and replace with the same fuse specification.
- Put the fuse holder back in its place and reconnect the power.

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: 1640ft

Data Cabling
- To link fixtures together you must obtain data cables.If you choose to create your own cable please use data-grade cables that can carry a high quality signal and are less prone to electromagnetic interference.
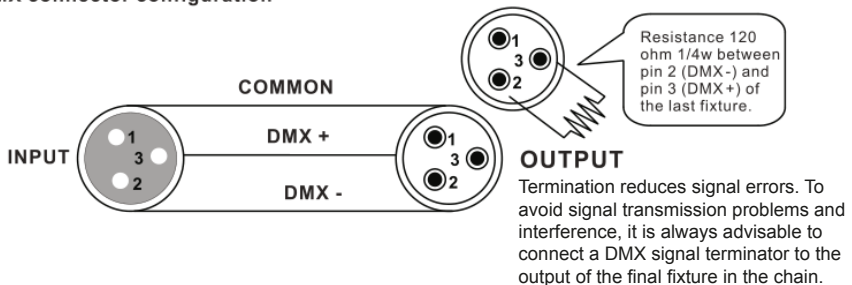
DMX Data Cable
- Use a Belden 9841 or equivalent cable that meets the specifications for EIA RS-485 applications. The cable will have the following characteristics:
  - 2-conductor trwitsed pair plus a shield
  - Maximum capacitance between conductors - 30pF/ft
  - Maximum capacitance between conductor and shield - 55pF/ft
  - Maximum resistance of 20Ω / 1000ft
  - Nominal impedance 100-140Ω.
- Standard microphone cable cannot transmit DMX data reliably over long distances.

CABLE CONNECTIONS

- 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.

OUTPUT
Termination reduces signal errors. To avoid signal transmission problems and interference, it is always advisable to connect a DMX signal terminator to the output of the final fixture in the chain.

- 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.
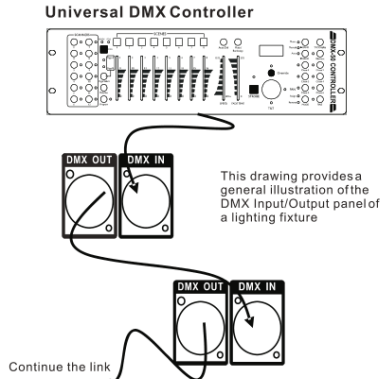
3-PIN TO 5-PIN CONVERSION CHART

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

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

SETTING UP A DMX SERIAL DATA LINK

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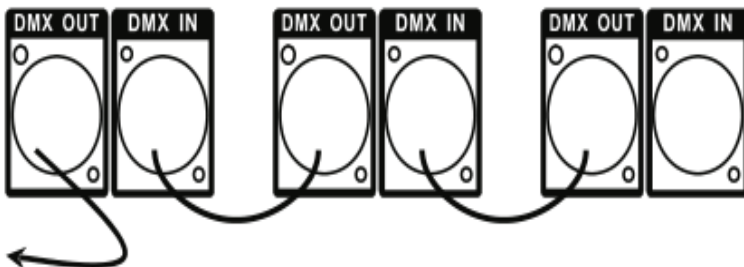
Continue the link

MASTER/SLAVE FIXTURE LINKING

- Connect the (male) 3-pin connector side of the DMX cable to the output (female) 3-pin connector of the first fixture.
- 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 is initialised for this purpose via either the settings in the control panel, or DIP switches.
- Secondly, the fixtures that follow may also require a slave setting. See "Operating Instructions" on page 6 for guidance on this type of setup.

MOUNTING

Orientation
- This fixture may be mounted on a suitable base in any position provided there is adequate room for ventilation.

Navigating the Control Panel
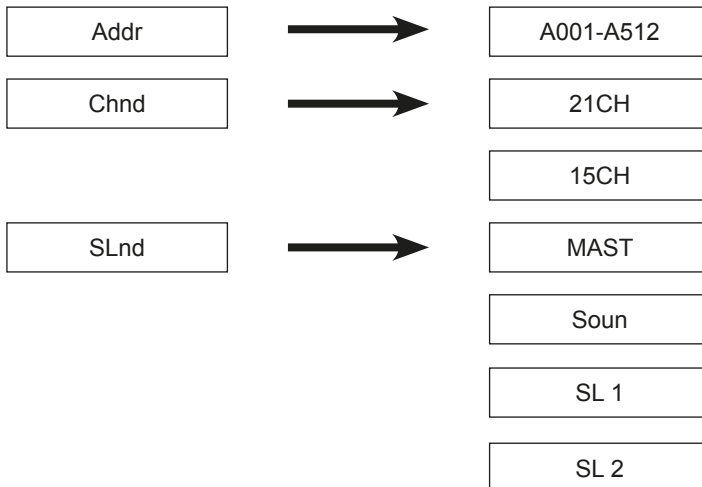• Access the control panel functions using the four panel buttons located directly beneath the LCD.

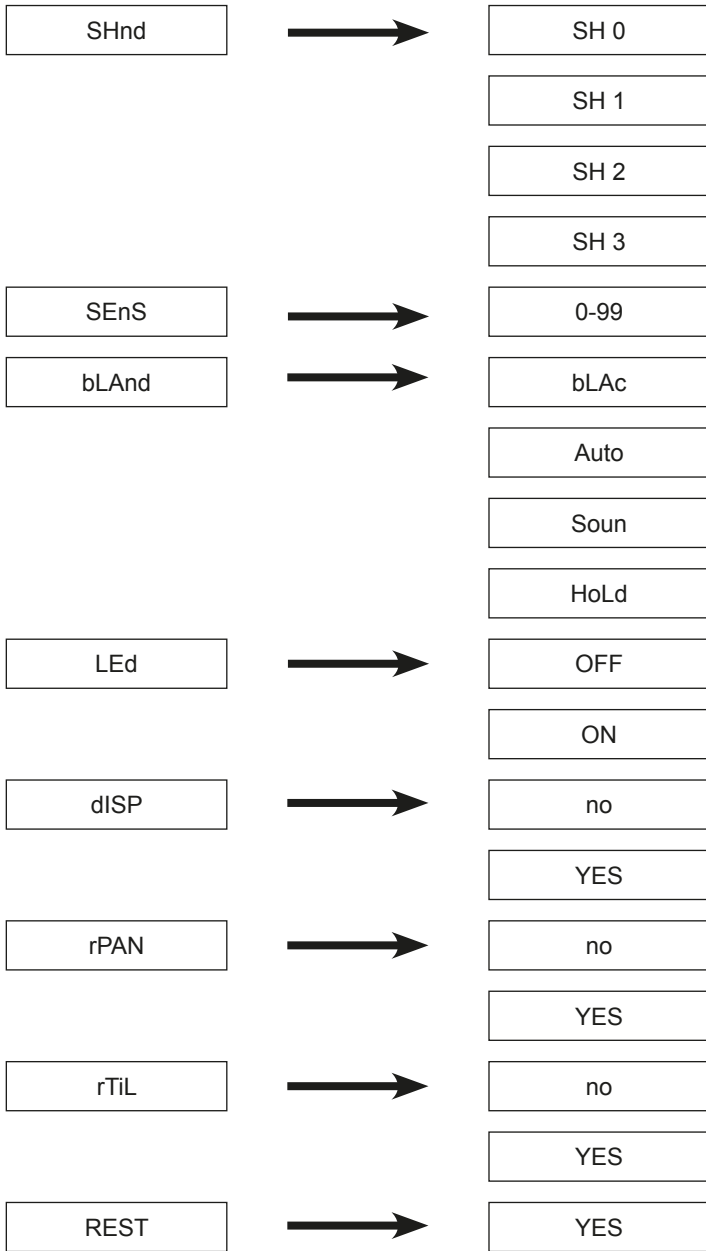|	
MODE/ESC	Used to access the menu or to go to a previous menu option.
UP	Scrolls through the menu options in ascending order
DOWN	Scrolls through the menu options in descending order
ENTER	Used to select and store the current menu or option within a menu
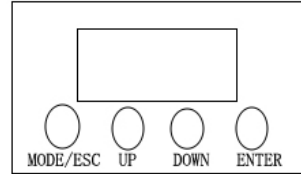
• The control panel LED display shows the menu item that you have selected.
• When a menu item is selected, the display will show immediately the first available option for the selected menu function. To select a menu item, press **ENTER**.
• Press the **MODE/ESC** button repeatedly until you reach the 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.

PHOTOMETRIC DIAGRAM

SHnd →	SH 0
	SH 1
	SH 2
	SH 3
SEnS →	0-99
bLAnd →	bLAc
	Auto
	Soun
	HoLd
LEd →	OFF
	ON
dISP →	no
	YES
rPAN →	no
	YES
rTiL →	no
	YES
REST →	YES

USER CONFIGURATION

To set the PAN to inverting or non-inverting
- Press the **MODE** button until it shows "Pan Inverse", then press **ENTER** and the LCD will show "OFF" or "ON".
- Use the **UP**/**DOWN** buttons to set the desired inversion and press **ENTER** to confirm.

To set the Tilt to inverting or non-inverting
- Press the **MODE** button until it shows "Tilt Inverse", then press **ENTER** and the LCD will show "OFF" or "ON".
- Use the **UP**/**DOWN** buttons to set the desired inversion and press **ENTER** to confirm.

To set the DMX channel configuration
- Press the **MODE** button until it shows "Channel set", then press **ENTER** and the LCD will show "9CH" or "16CH".
- Use the **UP**/**DOWN** buttons to set the desired channel mode and press **ENTER** to confirm.

SERVICE FUNCTIONS

To reset the fixture:
- Press the **MODE** button until the display shows "FIXTURE REST".
- Press **ENTER** to confirm your selection.

To restore all settings to their factory defaults:
- Press the **MODE** button until the display reads "DEFAULT CONFIRM".
- Press **ENTER** to confirm your selection.

OPERATION MODE

- Press the **MODE** button until it reads "Show Mode", then press **ENTER** and the LCD will show modes for you to choose.
- Use the **UP**/**DOWN** buttons to set the desired inversion, then press **ENTER** to confirm.

Fast Mode/Slow Mode (Auto Mode):
- This mode allows a single unit to run to a factory installed programme in one of two speeds:
  "1) To set a fixture in Fast Mode, then the light will run in a fast speed running."
  "2) To set a fixture in Slow Mode, then the light will run in a fast speed running."

Master/Slave Mode
- This mode will allow you to link up to 32 units together without a controller.
- Use standard DMX cables to daisy chain your units together via the DMX connector on the rear of the units. Proper performance it may be necessary to use a terminator at the last fixture.

- Choose a unit to function as the Master, then select one mode as auto running programme.
- Finally, chain the units together using DMX cable, Fast Mode or Slow mode can be the Master one's programming.
- The other units are set to the same DMX Address (001 or 017).

DMX MODE

- This mode allows the unit to be controlled by any universal DMX controller.
- The default mode for the fixture is DMX, which appears as "001" on the LCD.

DMX CHANNEL VALUES (15 CHANNELS)

Channel	Range	Function
1	0~255	X motor
2	0~255	Y motor
3	0~255	XY motor speed
4	0~255	Y axis infinite rotation
5	0~255	Dimmer total
6	0~255	Strobe
7	0~255	Red 12 dimmer total
8	0~255	Green 12 dimmer total
9	0~255	Blue 12 dimmer total
10	0~255	White 12 dimmer total
11	16~255	Motor auto run
12	0~255	Motor auto run speed
13	8~255	Light bulb auto run
14	0~255	Light bulb auto run speed
15	250~255 (5 sec)	Reset

DMX CHANNEL VALUES (21 CHANNELS)

Channel	Range	Function
1	0~255	X motor
2	0~255	X motor fine
3	0~255	Y motor
4	0~255	Y motor fine
5	0~255	XY motor speed
6	0~255	Y axis infinite rotation
7	0~255	Dimmer total
8	0~255	Strobe
9	0~255	Red 1 dimmer total
10	0~255	Green 1 dimmer total
11	0~255	Blue 1 dimmer total
12	0~255	White 1 dimmer total
13	0~255	Red 2 dimmer total
14	0~255	Green 2 dimmer total
15	0~255	Blue 2 dimmer total
16	0~255	White 2 dimmer total
17	16~255	Motor auto run
18	0~255	Motor auto run speed
19	8~255	Light bulb auto run
20	0~255	Light bulb auto run speed
21	250~255 (5 sec)	Reset

CLEANING & MAINTENANCE

- Disconnect from power before starting the maintenance operation.
- Frequent cleaning is recommended. Use a soft lint-free moistened cloth.
- Do not use any chemicals, abrasives or solvents that could damage the device.
- There are no user-serviceable parts in this product. Refer all servicing to qualified personnel.

SPECIFICATION

Voltage	AC 100-240V 50-60Hz
Power Consumption	70W
Light source	1pcs x 10W RGBW CREE LED + 4pcs x RGBW 10W LED
DMX mode	17/23 Channel
Control	DMX 512, Master-slave, Auto run, Sound
Display	Digital display
Rotating angle	X axis: 540°, Y axis: infinite rotation
Function	8 internal program, sound controlled by DMX 512
Work environment	50°F - 104°F
Dimension	12.8" x 9.8" x 10.6"
Weight	5.51 lbs.

INFORMATION ON WASTE DISPOSAL FOR CONSUMERS OF ELECTRICAL & ELECTRONIC EQUIPMENT.
When this product has reached the end of its life it must be treated as Waste Electrical & Electronic Equipment (WEEE). Any WEEE marked products must not be mixed with general household waste, but kept separate for the treatment, recovery and recycling of the materials used. Contact your local authority for details of recycling schemes in your area.