

SOL-2

(Laser, Pattern , Spot 4in1 LED Effect light)

Operating Manual



Please read this user's manual before using this product



Thank you for using this product. iPhos lighting products are designed with the professional operator in mind and are covered by a one year, parts and labour warranty. Please read this instruction manual carefully and keep it for reference. The instructions contain important information about the safety, installation and use of this lighting fixture. Please follow these instructions carefully when installing and operating this unit. When receiving the product, please check that the product has not been damaged during transit and that all the accessories are included.

This product utilizes the international standard DMX512 protocol and is suitable for small to large areas catering for night Clubs and band Venues, theatrical performances, concerts, houses of worship and other place where a high quality effect light projector is needed.

Before You Begin

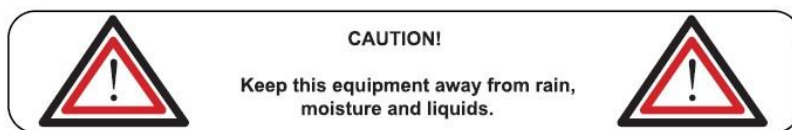
What is included:

1 x Light Fixture
1 x IEC Power Cable
1 x User Manual

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 supplier as “faulty out of the box”, it is important that the fixture be returned in the original factory box and packing.

Safety Instructions



1. This apparatus (light) belongs to CLASS I (Earthed) device, therefore the it must be connected to a power source with an earth socket.
2. Use a suitable and safe power outlet or power extension cable to connect the light.
3. ***** Never connect the device to a dimmer pack *****
4. The light can emit powerful beams. Do not stare directly at the light beam at a close distance (less than 3mtrs). It can hurt your eyes. Do not stare directly at the light beam for a prolonged period of time.
5. Keep away from children. To be operated by trained personnel only.
6. Make sure that the supply voltage is within the specified voltage levels of the light.
7. Before connecting to a power source, inspect the power cable, mains plug, IEC connector and lighting fixture power socket, for any damage or lacerations. If the cable/plugs/socket, connectors shows any signs of damage, do not connect the light to a power source. Refer the light to a qualified technician for repairs.
8. The light must be powered-off when it's not in use, in order to extend its life and reduce power consumption. Disconnect from the power source before cleaning.
9. When un-plugging the power cable, from the power source, pull out by gripping the plug. Do not pull it by the cable.
10. If you see bare wires exposed, when the light is in operation, immediately turn the power off from the wall socket or the mains switch-board, then disconnect the light and refer it to a qualified technician for repairs.
11. Do not modify the light in any way. No User Serviceable parts inside.
12. The Maximum ambient operating temperature is 40° C in the shade. Do not operate fixture at temperatures higher than this. Do not operate the light, when exposed to direct sunlight.
13. Do not obstruct the rotational movement of the light. It will cause motor and gearing failure.
14. If you are a business or employer (or other [PCBU](#)) you must ensure that the light is regularly inspected and tested, by a competent person, to Australian standards AS/NZS 3760: 2013

Specifications:

iPhos reserves the right to change the specifications without prior notice.

Electrical and Light Source:

Input Voltage, 90-245V AC-50/60Hz

Max Power Consumption: 36W

Pattern Parameters and Output:

4 x Bubbles (12W)

3 x Lines (9W)

3 x Magic balls (9W)

16 x Laser Images (30mW)

Control:

Control Protocol: DMX512

Number of DMX Channels: 9

Fixture Connection: IEC Power in, DMX Data in/out.

Control Mode: DMX, Stand Alone, Sound-Active

Optical System:

Dimmer: 0-100% Linear dimming, high speed, flicker-free driver chip.

Strobe: 0-20Hz

Environment:

Dry: Indoor Use Only

Ingress Protection Rating: IP20

Operation Temperature:-10°C - +40°C

Physical:

Dimensions (L*W*D): 255*240*122mm (Including Brackets)

Packing Size: 263*232*215mm

Net Weight: 2kg

Shipping Weight: 2.2kg

Housing: Mild Steel

Cooling: Fan Cooling

Setup

Installation Requirement

- This product can operate in any position.
- If hanging the fixture for overhead use, then please follow the below steps:
When hanging the fixture, it is your responsibility to ensure the hanging apparatus and the hanging point can safely support the total weight of the light.
- Please make sure there are no flammable objects within 1mtr when installing the light.
- The installation must be carried out by trained personnel only. A faulty installation may cause injury or equipment damage.
- During the installation, block access below the work area and use suitable and stable platforms, when installing or servicing the light.
- Lights must be operated placed in well ventilated areas. Make sure the fan, in/out, paths are not obscured.

Power Connection

This fixture has an auto-switching switch-mode power supply that can accommodate a wide range of input voltages. The only thing necessary to do before powering on the unit is to make sure the line voltage you are applying is within the range of accepted voltages. This fixture will accommodate between 90V and 245V AC, 50-60 Hz.

Connection of DMX Signal Cable

1. This light utilizes the standard DMX512 control protocol. Even though the fixture can operate with standard balanced audio cables, using DMX Data cables will ensure there is no “misfiring” or loss of data integrity.
2. Connect the first fixture, to the DMX controller, using the male 3 pin connector. Connect the first fixture to the next fixture using the female 3 pin connector. Then, proceed to connect from the output as stated above to the input of the following fixture and so on.
3. Numerous fixtures can be connected in series without the need for a signal amplifier.



Operating Instructions

Control Panel Functions



Button	Function
MENU	Steps Through the menu functions
ENTER	Enables the currently displayed Function and locks it into memory. Selected Function is automatically recalled when the unit is powered-up
UP	Navigates upwards through the menu list and increases the numeric value when in a function
DOWN	Navigates downwards through the menu list and decreases the numeric value when in a function

Menu Map

Select	Display	Control	Function
Mode	A001	Up/down	DMX Start Channel
	A1-A5	Up/down	Auto Program Select 1 - 9 Chase Speed (Slow to Fast)
	S1	Up/down	Sound with Blackout 1 - 9 Mic Sensitivity Low to High)
	S2	Up/down	Sound without Blackout 1 - 9 Mic Sensitivity Low to High)

DMX Channels

9 Channel Mode			
1	Motor 1	0-255	0~9 (Stop) 10~127 Positive Spin. Slow to Fast, 128~255 Reverse Spin. Fast to Slow
2	Motor 2	0-255	0~9 (Stop) 10~127 Positive Spin. Slow to Fast, 128~255 Reverse Spin. Fast to Slow
3	Dimmer	0-255	Linear dimming From Dark to Light
4	Strobe	0-9	None
		10-255	10-255 Strobe From Slow to Fast
5	Bubble Dimmer	0-255	Bubble LED Dimmer: From Dark to Bright
6	Line dimmer	0-255	Line LED Dimmer: From Dark to Bright
7	Magic Ball dimmer	0-255	Magic Ball LED Dimmer: From Dark to Bright
8	Laser dimmer	0-255	Laser LED Dimmer: From Dark to Bright
9	Macro function control	0-50	Channel 1 to channel 8 Functions
		51-150	Auto run
		150-255	Sound Active

Service and Maintenance

Note: No User Serviceable parts are inside this light fixture. For all repairs and service, please consult a qualified technician.

Fault/Symptom	Cause/Remedy
Low Output	There may be excessive dirt built-up on the front lenses. Clean the glass with a non-abrasive cloth and glass cleaner
Circuit Breaker/Fuse keeps tripping/"blowing"	Check the total load connected to the electrical supply. Reduce the number of items connected to the supply.
	Check for damaged power cables which may cause a short circuit. Disconnect and remove faulty item from the electrical supply.
Fixture has no power	Check for connection to the electrical supply. Check power adaptor cable and replace it if it is faulty. If there is still, no power, send fixture to an authorised service agent for repair.
Not responding to DMX	Check Input Panel for correct addressing
	Check DMX cables, input and output, for short circuits or open circuits.
	Check the polarity switch settings on the DMX controller
	If fixture is still not responding, send fixture to an authorised service agent for repair.
Loss of signal or responding to commands	Install a cable terminator
	Use only DMX Cables
	Connect directly to DMX controller to test fixture. If it's still not responding to DMX commands, send fixture to an authorised service agent for repair.



Product Warranty:

This product is covered by the manufacturer for a period of 12 months from the date of purchase.

Warranty Terms and Conditions:

The only conditions and warranties which are binding on iPhos in respect of the state, quality or condition of the goods supplied to the customer, are those imposed and required to be binding by statute (including The Trade Practices Act as amended) and to the extent of permitted thereby the liability, if any, of iPhos arising from the breach of such conditions or warranties whether expressed or implied by law.

Use of non-genuine parts, which cause or may cause damage to these goods, will result in the cancellation of the warranty cover. **Warranty repairs can only be carried out by authorised service agents.** Contact your retailer for your nearest iPhos authorised warranty service agent.

Failure to comply with any of the above operating guidelines will result in the cancellation of the product warranty and liability cover, except as required to be binding by statute (including The Trade Practices Act as amended)