



User Manual

IPL 3000



Manual

IPL 3000



Please read this manual carefully before attempting to install an IPL 3000.

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Contents

Safety information.....4

Preparation for use 7

Lamp 10

Installation 12

Service 13

Specifications 14

Strobe connections to a Smokecloak 15

Parallel connections 16

Strobe measurements 17



Warning: This product is for professional use only! It is not for household use.

The IPL 3000 presents risks of lethal or severe injury due to fire and heat, electric shock, ultraviolet radiation, and falls. Flashing light is also known to trigger epileptic seizures in persons who are photosensitive. Read this manual before powering or installing the fixture, follow the safety precautions listed below and observe all warnings in this manual and printed on the fixture.

To guard against electric shock

- Disconnect the fixture from AC power and allow the flash capacitor to discharge for 1 minute before changing the lamp or fuse, and when not in use.
- Always ground (earth) the fixture electrically.
- Use only a source of AC power that complies with local building and electrical codes and has both overload and ground-fault protection.
- Do not expose the fixture to rain or moisture.
- Replace the lamp only as described or have it replaced by a MSS Professional technician.

To guard against UV radiation, burns, and fire

- Never operate the fixture with the front glass open, missing or damaged.
- Do not stare directly into the light. Never look at an exposed lamp while it is lit.
- Replace the lamp when it becomes defective or worn out.
- When replacing the lamp, allow the fixture to cool for at least 10 minutes before opening the fixture or removing the lamp.
- Never attempt to bypass the fuse.
Always replace defective fuses with ones of the specified type and rating.
- Verify that the power feed cable is rated for the current draw of all connected fixtures.
- Keep all combustible materials (for example fabric, wood, paper) at least 0.5 metres (20 inches) away from the fixture. Keep flammable materials well away from the fixture.
- Do not illuminate surfaces within 1 metre (39 inches) of the fixture.
- Provide a minimum clearance of 0.1 metres (4 inches) around air vents.
- Never place filters or other materials over the front glass cover.
- The exterior of the fixture can reach temperatures up to 120° C (248° F). Allow the fixture to cool for at least 15 minutes before handling.
- Do not modify the fixture or install other than genuine MSS Professional parts.
- Do not operate the fixture if the ambient air temperature (Ta) exceeds 40° C (104° F).

To guard against epileptic seizure

- Do not operate the fixture near stairways.
- Provide advance notice that strobe lighting is in use.
 - See label below.



WARNING

HIGH INTENSITY SECURITY STROBE LIGHT INSTALLED

Flashing light can trigger epileptic seizures
in persons who are photosensitive.

UNPACKING

The IPL 3000 comes with the following items:

- Philips XOP 15-OF or Xenon lamp (installed)
- Mounting bracket
- User manual

The packing material protects the fixture during shipment; always use it to transport the fixture.

AC POWER CONNECTION

The auto-ranging power supply automatically adjusts to any 50 - 60 Hz AC power supply from 125 to 260 volts. No adjustment is necessary.

The current required by the IPL 3000 varies according to power mode, and usage.

Use 2.5 mm² (13 AWG) or larger power feed cables and keep runs as short as possible.

The mains lead must be fitted with a heavy duty cord cap with ground connection.

Consult a qualified electrician if you have any doubts about proper installation.

Following the cord manufacturer’s instructions, connect the yellow and green wire to ground (earth), the brown wire to live, and the blue wire to neutral. The table below shows some pin identification schemes.

Wire	Pin	Marking	Screw color
brown	line	“L”	yellow or brass
blue	neutral	“N”	silver
yellow/green	ground		green

Table 1: Cord cap wiring

INSTALLATION

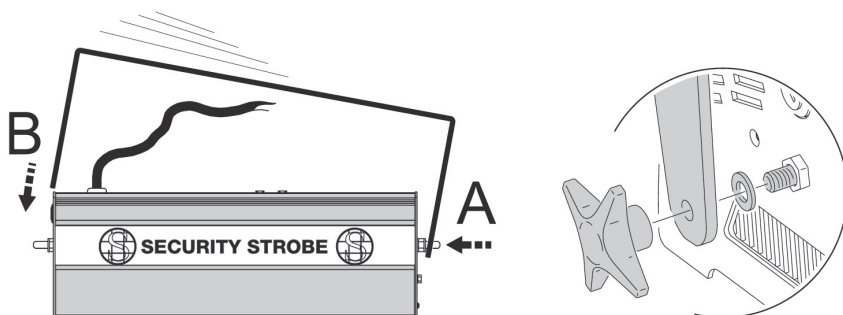
Before installing, verify that

- the fixture will be located at least 1 meter (39 in.) away from the surface to be illuminated, at least 0.5 meters (20 in.) from any combustible materials, and well away from flammable materials;
- the clearance around the air vents is at least 0.1 meters (4 in.), and
- no one is located under the work area.

The IPL 3000 may be installed in any orientation. The mounting bracket provides five 12 mm holes for direct fastening.

To install the mounting bracket

- 1 Place the fixture face down on a table.
- 2 Place a plastic washer on each mounting bracket stud.
- 3 Place one end of the bracket on on of the mounting studs. Bend the other end of the mounting bracket, open slightly and work it onto the opposite stud.
- 4 Place a hand knob on each stud. Tighten both hand knobs to lock the mounting bracket in place.



This section describes how to replace the lamp.

The lamp is electronically regulated to prevent overheating.

LAMP REPLACEMENT

End of life can be confirmed with the flash LED on the rear panel. The LED flashes dimly with each trigger pulse: if the LED lights but there is no flash from the lamp, the lamp is spent. If the LED does not flash, there may be a problem with the control signal.

To replace the lamp



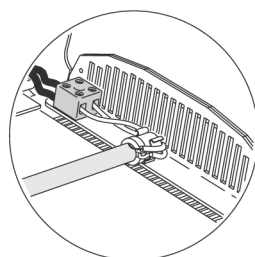
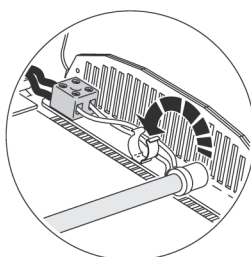
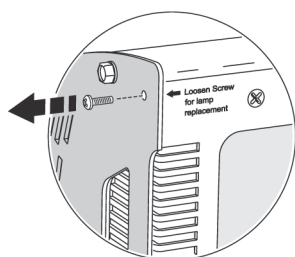
Warning: Verify that the fixture is disconnected from AC power before opening the front cover!

- 1 Very important:** Before opening the unit, disconnect from mains electricity and wait for at least 1 minute for the capacitor to discharge.
- 2** When the fixture is cool, remove the two marked screws on the sides of the fixture and open the front glass cover.
- 3** Disconnect the lamp wires at the screw terminals. Lift the old lamp out of the holder.
- 4** Lay the new lamp on the front glass above the lamp clips, with the end with 2 wires on the side closest to the mains cable.

5 Important! Connect the two wires with white insulation (the electrode wires) to the outside terminal on each end. Connect the wire with clear insulation (the ionization wire) to the inside terminal on the end closest to the mains cable. Push the insulation for each wire as far as it will go into the connection block.

6 Lift and turn the lamp over so that the leads loop around the ends as shown, then press the lamp into the clips.

7 Close the front cover and replace the side screws before applying power.



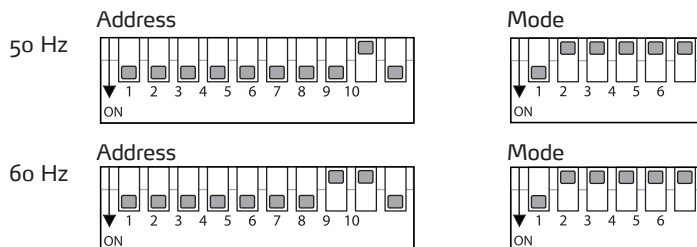
This section describes how the IPL 3000 operates

STAND-ALONE FLASH RATE

To program stand-alone execution

- 1 Apply power to the fixture.
- 2 Set pin 1 of the Mode DIP switch to ON. Set pins 2 - 5 to OFF. Set pin 6 to ON for low-power operation or to OFF for high-power operation.
- 3 Select Flash rate.

DIP-switch settings for security use:



- 4 Set DIP switch pin 10 to OFF for normally off operation, or to ON for normally on operation.

Warning: High voltage! Do not remove the rear panel.
There are no userserviceable parts inside.



FUSE REPLACEMENT

The IPL 3000 uses a 20 amp time-delay fuse for protection against current overload. If the power diode does not light when power is applied, the fuse may have failed. If the fuse blows repeatedly, there is a fault with the unit that requires service by a MSS Professional technician.

Never bypass the fuse or replace it with one of another size or rating.

Replacement fuses may be ordered by P/N 05020040.

To replace the fuse

- 1 Disconnect the fixture from AC power.**
- 2 Unscrew the fuse holder, located on the side plate nearest the power cord. Remove the failed fuse from the holder and replace it with an identical 20 amp 6.3 x 32 mm time-delay fuse.**
- 3 Replace the fuse holder in the side plate.**

PHYSICAL

Size (without bracket):245 x 425 x 240 mm (9.7 x 16.7 x 9.5 in)
Weight: 7.5 kg (16.5 lb)

THERMAL

Maximum ambient temperature: 40° C (104° F)

CONTROL

Signal input: Switch or relay between Pin 1 and 3

AC SUPPLY

AC input:.....2.5 mm2 trailing cable
AC voltage and frequency range
(XOP 15-OF model):125 - 260 V, 50 - 60 Hz
Peak current consumption:33 A
Typical current consumption (XOP 15-OF, high power mode): 8 A

FUSES

Primary fuse: 20 AT / 250 V, P/N 05020040

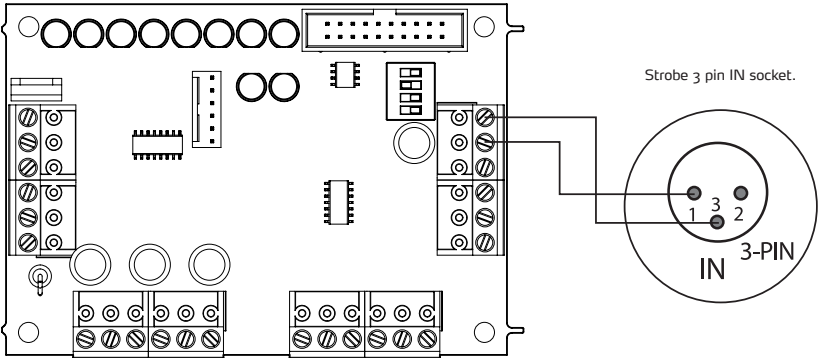
CONSTRUCTION

Housing: steel
Finish:electrostatic powder coating, black

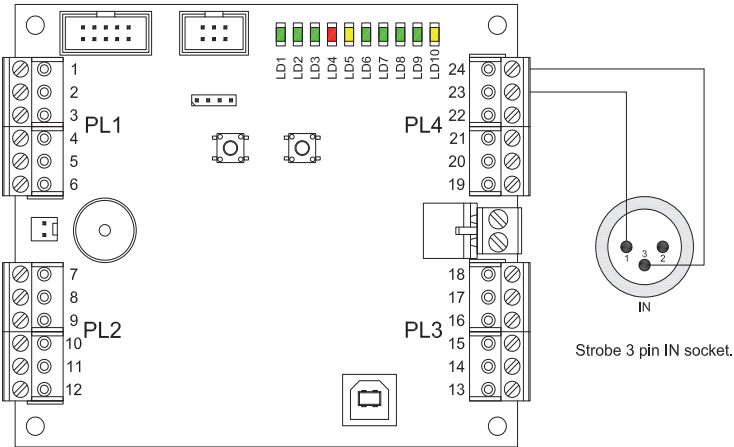
MOUNTING

Minimum distance to combustible materials: 0.5 m (20 in)
Minimum distance to illuminated surfaces:1 m (39 in)
Minimum clearance around fan and air vents:.....0.1 m (4 in)

Smokecloak interface board System units



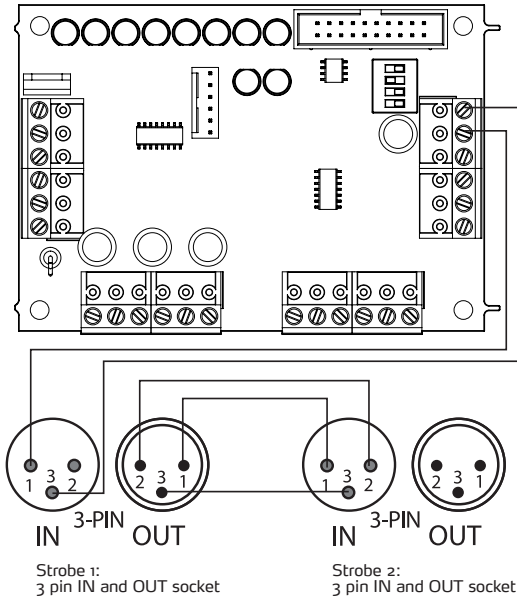
Smokecloak interface board Vali units



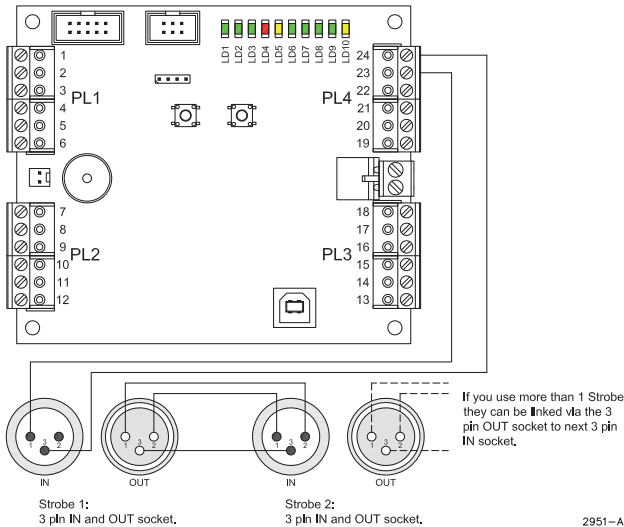
VALI INTERFACE TO STROBE WIRING

The Strobe can be connected directly to the alarm panel or to the Smokecloak. When pins 1 and 3 (N/O) are connected together the strobe will activate. If the Smokecloak option of separate mains failure output (23-24) is not being used, connect as above. If the separate mains failure output is being used, then trigger the strobe by using an output from the alarm panel.

Smokecloak interface board System units

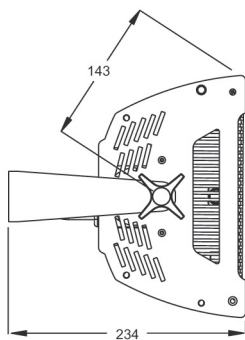
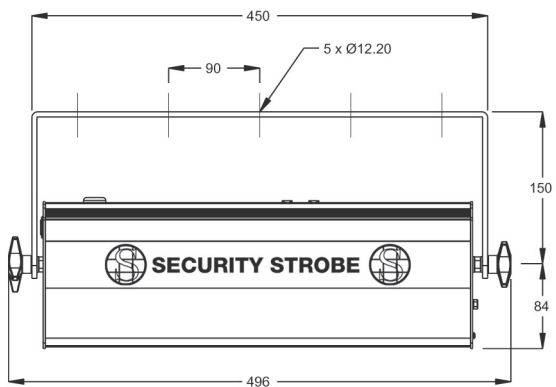
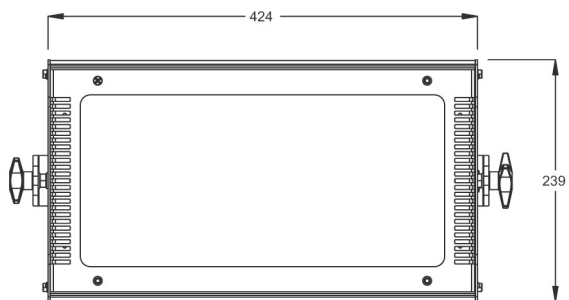


Smokecloak interface board Vali units



VALI INTERFACE TO MULTIPLE STROBE WIRING

If you use more than 1 Strobe they can be linked via the 3 pin OUT socket to next 3 pin IN socket.



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