

PRODUCT USER GUIDE

Gemini SLP Illuminator



Rev: C7



PLEASE READ THIS USER GUIDE BEFORE INSTALLING, OPERATING OR PERFORMING MAINTENANCE ON THE ILLUMINATOR UNIT



INTRODUCTION

Thank you for purchasing this UFO illuminator.

To ensure that the illuminator is set up optimally and gives a long service life, please read this user guide before installing, operating or performing any maintenance on the unit.

Please keep this user guide for future reference.

This illuminator is suitable for indoor use only unless it is situated in a weatherproof enclosure.

MODELS COVERED BY THIS USER GUIDE

UFO GEM SLP-2700M	UFO GEM SLP-3000M	UFO GEM SLP-4000M
UFO GEM SLP-2700DMX	UFO GEM SLP-3000DMX	UFO GEM SLP-4000DMX
UFO GEM SLP-270010V	UFO GEM SLP-300010V	UFO GEM SLP-400010V

IMPORTANT

This product must be installed in accordance with the applicable installation code, by a person familiar with the construction and operation of the product, and the hazards involved.

These illuminators are not mains dimmable.

The LED array and heatsink in this illuminator can be replaced when it reaches end of life. Contact UFO for details

Type Y Attachment: If the external flexible cable or cord of this luminaire or associated PSU/driver is damaged. It shall be exclusively replaced by the manufacturer or his service agent or a similar qualified person to avoid a hazard.

Location: Do not locate this illuminator closer than 200mm from any flammable surface.

Clearance / Ventilation: It is imperative that a gap of 200mm is left around the unit. This is to allow air to circulate and prevent overheating. The location must have free ventilation and must not have an ambient temperature higher than that specified for the luminaire.

Mounting: This is a fixed luminaire. See mounting plate instruction on Page 3 for fixing to surface.

Warning: Never look directly into the luminaire LED illuminator.

Warning: The luminaire should be positioned so that prolonged staring into the luminaire at a distance closer than 0.33m is not expected.

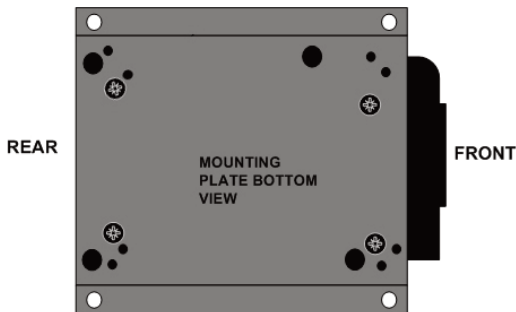
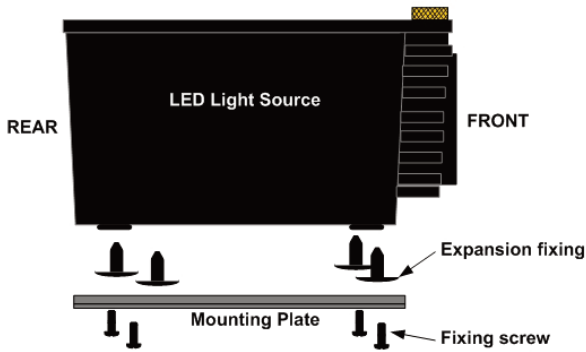
UFO will accept no liability for damage, or associated claims, caused by not following the installation and safety instructions contained within this user guide.

ATTACH THE ILLUMINATOR TO ITS MOUNTING PLATE

Fit the metal mounting plate to the base of the illuminator before making electrical connections.

Remove the mounting plate and the four plastic 2 part (screw and rivet body) from the box. Invert the illuminator and remove the four rubber feet. Separate the screws from the rivet bodies and push fit the rivet bodies into the holes vacated by the feet.

Align the plate against the rivets and secure the plate to the illuminator with the four plastic screws using an M4 pozi-drive screwdriver. Do not overtighten. The illuminator can now be fixed securely to the mounting surface.



Note: Mounting plate diagram is indicative only.

POWER SUPPLY REQUIREMENTS

The illuminator is powered from a desktop 12V DC power supply unit.

The power supply unit is an IEC input device and caters for UK/European/other mains supplies using the relevant power cord.



GEM SLP-XXXXM CONNECTIONS



GEM SLP-XXXXDMX / 10V CONNECTIONS

CONNECTION - GEMINI M MODELS ONLY

There are 2 connections required – the fiber port and the mains supply cable. The fiber port should be connected first. Connect and secure the fiber optic connector into the collar and secure using the M5 locking screw.

Connect the PSU to the DC input jack socket on the illuminator, and connect the IEC cable to the PSU. Plug the mains plug into the electrical supply socket. Switch on power the led indicator will illuminate and the illuminator is ready for use. If no light is produced consult the TROUBLESHOOTING section of this user guide.

Note that these illuminators are not mains dimmable.

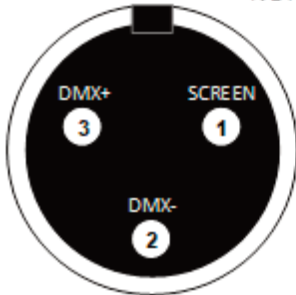
CONNECTION - GEMINI DMX MODELS ONLY

There are 3 connections required – the fiber port, the mains supply cable and the DMX control cable(s). The fiber port should be connected first. Connect and secure the fiber optic connector into the collar and secure using the M5 locking screw.

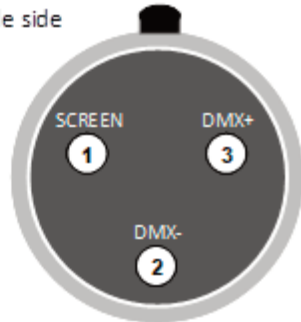
Connect the PSU to the DC input jack socket on the illuminator, and connect the IEC cable to the PSU. Plug the mains plug into the electrical supply socket. Switch on power - the red LED indicator will illuminate and the illuminator is ready for use. If no light is produced consult the TROUBLESHOOTING section of this user guide.

Connect the DMX control cable(s) to the Mini-XLR socket(s) on the rear of the illuminator. The recommended plugs for these sockets are Multicomp SVP556-TA (female) or Multicomp SVP555-TA (male). The pin out details for the plugs are shown below.

NOTE: Viewed from cable side



Male – for connection to lower (female) Gemini Mini-XLR socket



Female – for connection to upper (male) Gemini Mini-XLR socket

Note: UFO can supply converters for these illuminators to allow them to be interfaced to standard 3 pin XLR connectors or RJ45 connectors.

INSTALLATION

CONNECTION - GEMINI 0-10V MODELS ONLY

This is external current source dimming - the illuminator dimming input requires an external 0-10V source.

There are three connections required - the fiber port, the mains supply cable and the 0-10V control cable(s). The fiber port should be connected first. Connect and secure the fiber optic connector into the collar and secure using the M5 locking screw.

Connect the PSU to the DC input jack socket on the illuminator, and connect the IEC cable to the PSU. Plug the mains plug into the electrical supply socket. Switch on power – the red LED indicator will illuminate and the illuminator is ready for use. If no light is produced, consult the TROUBLESHOOTING section of this user guide.

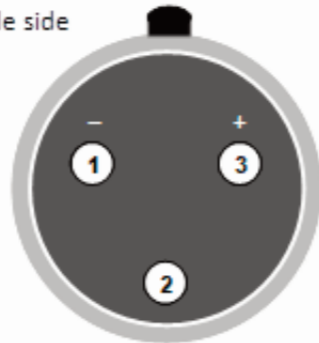
THE LIGHT SOURCE WILL NOT ILLUMINATE UNLESS DIP SWITCH 10 IS ON AND A 0-10V SIGNAL IS PRESENT

Connect the 0-10V control cable(s) to the Mini-XLR socket(s) on the rear of the illuminator. The recommended plugs for these sockets are Multicomp SVP556-TA (female) or Multicomp SVP555-TA (male). The pin out details for these plugs are shown below. Either socket may be used as 0-10V IN or 0-10V OUT

NOTE: Viewed from cable side



Male – for connection to lower (female) Gemini Mini-XLR socket



Female – for connection to upper (male) Gemini Mini-XLR socket

Note: UFO can supply converters for these illuminators to allow them to be interfaced to standard 3 pin XLR connectors or RJ45 connectors.

USING THE ILLUMINATOR - GEMINI M MODELS ONLY

Under normal operation the Gemini M illuminator can be dimmed manually using the dimmer control on the rear of the unit.

USING THE ILLUMINATOR - GEMINI DMX MODELS ONLY

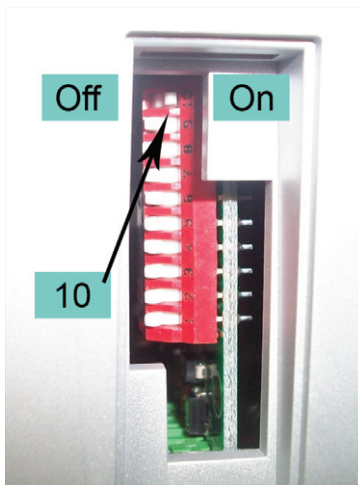
Gemini DMX illuminators can be dimmed remotely, can be switched on/off and can be addressed manually.

Channel	Function	Value	Description
1	Dimming	0-255	From off at 0 to bright at 255
2	LED & Fan	0-250	LED and fan on
2	LED & Fan	251-255	LED and fan off

Unless the address is specified on the purchase order, all illuminators will be defaulted to address 001. Connect the DMX controller to either of the Mini XLR sockets, and the illuminator can now be dimmed. Additional slave (which are set to the same address) DMX illuminators can be linked together.

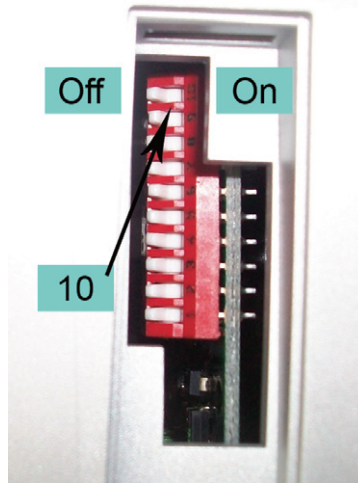
REVERTING A DMX ILLUMINATOR TO MANUAL OPERATION MODE

1. Disconnect the illuminator from the mains supply.
2. Tilt the illuminator on its side and remove the screw from the base as shown below.
3. Slide the access cover down to remove and set the cover and screw aside.
4. Switch DIP switch 10 (top) to ON as shown below.
5. Replace access cover and securing screw.



SETTING THE DMX ADDRESS

1. Disconnect the illuminator from the mains supply.
2. Tilt the illuminator on its side and remove the screw from the base as shown below.
3. Slide the access cover down to remove and set the cover and screw aside.
4. Ensure DIP switch 10 (top) is set to OFF as shown below.
5. Set the address required as detailed in the address table, overleaf.
6. Replace access cover and securing screw,

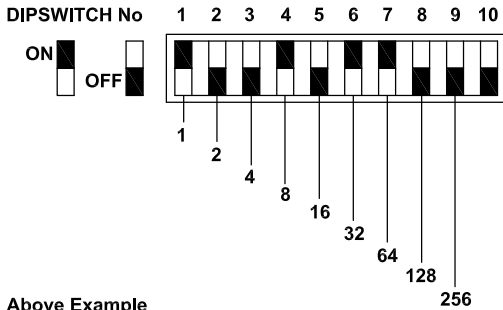


Note: for DMX control operation to work, dip switch 10 must be in the off position.

See the table and diagram on the following page for instructions on setting the DMX address using dip switches.

SETTING THE DMX ADDRESS

DMX B Start Channel #	Dip Switches On	DMX B Start Channel #	Dip Switches On
1	1	11	1,2,4
2	2	12	3,4
3	1,2	13	1,3,4
4	3	14	2,3,4
5	1,3	15	1,2,3,4
6	2,3	16	5
7	1,2,3	:	:
8	4	:	:
9	1,4	:	;
10	2,4	511	1,2,3,4,5,6,7,8,9



Above Example

1 - ON 6 - ON
 2 - OFF 7 - ON
 3 - OFF 8 - OFF = ADDRESS 105
 4 - ON
 5 - OFF 9 - OFF
 10 - OFF

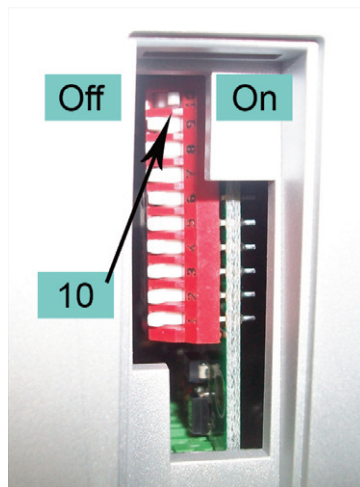
Note: with dip switch 10 OFF, the illuminator will not illuminate unless a DMX signal is present.

USING THE ILLUMINATOR - GEMINI 0-10V MODELS ONLY

Gemini 0-10V models allow the light output to be varied by applying a different voltage through the rear connectors. The following table represents light output percentage against approximate control value input.

Light Output Percentage	Voltage
100%	7 - 10V
90%	6.2V
80%	5.8V
70%	5.4V
60%	5V
50%	4.5V
40%	3.9V
30%	3.2V
20%	2.3V
10%	1.4V
5%	1.1V
2.5%	0.8V
1.25%	0.4V
0%	0.2V

Note: the illuminator will not illuminate unless dip switch 10 is on and a 0-10V control voltage is in place.



MAINTENANCE

To ensure a long working life and the safe, reliable operation of the illuminator, it is very important to maintain it properly and ensure it is installed in an appropriate and safe location.

Before performing any maintenance on the illuminator it should be disconnected from the power supply and allowed to cool down.

- The illuminator fans and vents should be blown out with compressed air at least every 12 months, or more often if located in a dusty environment.
- Do not allow dust to build up on internal pcb's & components as this will increase heat within the illuminator and lead to failure. Units should be checked regularly and all dust must be vacuumed off. Failure caused by excessive dust will not be covered under warranty.
- After the illuminator has been installed, check the fans and vents to ensure they are clear of dust and debris. Blow out with compressed air if required.
- The body of the illuminator can be cleaned using a soft damp cloth. Do not use any abrasives on the unit.

Note that a record of all maintenance **MUST** be kept in the table below, indicating what maintenance was undertaken. This must be dated and is required for warranty purposes.

SAFETY GUIDANCE

- A gap of 200mm (8") **MUST** be left around the unit. This is to allow air to circulate and prevent overheating. The location must have free ventilation and must not have an ambient temperature higher than that specified for the luminaire.
- The outer body of the illuminator may become hot - keep away from all combustible materials and **DO NOT** locate this light source within 200mm (8") of any flammable surface.
- The illuminator must not be run without the fiber optic harness fitted.

MAINTENANCE LOG

Date	Maintenance Undertaken

PROCEDURES FOR ALL MODEL TYPES

Problem	Possible Cause(s)	Remedy
Unit is dead – no light output and LED power indicator on PSU is not illuminated	Mains supply off	Check supply & reinstate
	Loose mains plugs	Check plugs
	Plug fuse blown (UK)	Check fuse. If blown, replace
	PSU failed	Replace PSU
Unit is dead – no light output and LED power indicator on PSU is illuminated, but LED indicator on Illuminator not illuminated	PSU failed	Replace PSU
Unit is dead – no light output but LED power indicator is illuminated	DMX dimming at minimum (for DMX version only)	Adjust brightness on controller (increase value up from 0)
	DMX fault on controller or DMX cable	Remove DMX XLR plug from rear of illuminator. Illuminator will default to full bright. Repair DMX controller or cabling.
	LED array failure	Contact UFO
Unit not responding to DMX commands	Address incorrect	Check the address set on unit matches the address set on the controller
	DMX cable fault	Refer to manual diagram for correct wiring termination. Carry out continuity check.
		Swap DMX cable for known good cable

Note: please complete relevant troubleshooting procedures before returning the unit to us for further investigation.

ADDITIONAL PROCEDURES FOR 0-10V MODELS ONLY

Problem	Possible Cause(s)	Remedy
0-10V Version unit is dead - no light output - but LED indicator on illuminator is illuminated.	No 0-10V dimming to unit (0V = LED Off)	Refer to manual diagram for correct termination. Carry out continuity check. Carry out voltage / polarity 0-10V cable fault check
	0-10V cable fault	
	Controller fault	Carry out voltage / polarity check at controller. Repair / replace as necessary
	0-10V LED PCB failure	Replace 0-10V PCB
No 0-10V signal present	Controller off or failed	Check controller. Ensure 0-10V signal present
	0-10V cable faulty	Carry out voltage and polarity check on mini XLR plug. Repair as necessary

Note: please complete relevant troubleshooting procedures before returning the unit to us for further investigation.

Description	Details
Port connector size	30mm diameter
Fiber type	Glass / PMMA
Mains Supply Voltage	100-240V AC, 50-60Hz
PSU Output	12V DC, 5A, 60W max.
LED Power	20W
Min Ambient Temperature	-10°C
Max Ambient Temperature	+45°C
Fan	60mm crossflow, 12V
Led Type	White light
Functionality [model specific]	Manual models - dimming DMX models - dimming, switch on/off 0-10V models - dimming
DMX [specific models only]	User addressable 1 channel dimming and 1 channel on/off control
0-10V [specific models only]	0-10V DC receiving
LED Life	50,000 hours typical
CRI	>93 (typical)
Colour Temperature	3000°K or 4000°K
Material	ABS
Finish	Grey
Dimensions (L x W x H) / Weight	222mm x 114mm x 81mm / 900g



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