

# PRODUCT USER GUIDE

## MicroLED 100PT/PC/PTC Light Source



Rev: C6



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



# INTRODUCTION

Thank you for purchasing this UFO light source/luminaire.

To ensure that the light source 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 User Guide is laid out in three sections

- INSTALLATION – details how to connect your luminaire.
- OPERATION – details how to programme and set up your luminaire.
- MAINTENANCE – Maintenance log, Troubleshooting Guide, Technical Specification

## MODELS COVERED BY THIS USER GUIDE

UFO MIC100PT-3 :Warm White (3000K) Twinkle effect wheel

UFO MIC100PT-4 : Neutral White (4000K) Twinkle effect wheel

UFO MIC100PT-6 :Cool White (6000K) Twinkle effect wheel

UFO MIC100PC-3 : Warm White (3000K) Colour change effect wheel with 6 colour segments

UFO MIC100PC-4 : Neutral White (4000K) Colour change effect wheel with 6 colour segments

UFO MIC100PC-6 : Cool White (6000K) Colour change effect wheel with 6 colour segments

UFO MIC100PCT-3 : Warm White (3000K) Colour change / twinkle sandwiched Wheel

UFO MIC100PCT-4 : Neutral White (4000K) Colour change / twinkle sandwiched Wheel

UFO MIC100PCT-6 : Cool White (6000K) Colour change / twinkle sandwiched Wheel

## 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 light sources are not mains dimmable.
- The LED array and heatsink in this light source 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 light source 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 unit.
- Mounting: This luminaire comes with an integral mounting feet for securing the unit to a vertical or horizontal surface.
- Warning: Never look directly at the luminaire through the fiber port of the light source.
- Warning: The luminaire should be positioned so that staring into the luminaire at a distance closer than 2.7 metres is not expected.

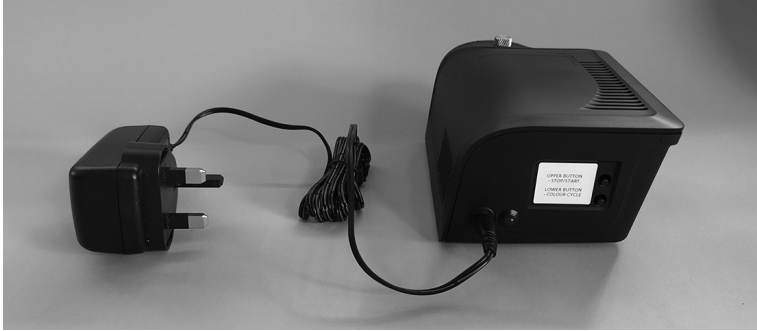
**UFO will accept no liability for damage, or associated claims, caused by not following the installation and safety instructions contained within this user guide.**

## MOUNTING

This light source is supplied with a separate mounting plate. If using the mounting plate refer to the fitting instructions supplied with it.

## POWER SUPPLY REQUIREMENTS

This light source is powered by a 12V Power Supply Unit or 12V Constant Voltage Driver. Remove the PSU/driver from its box.



Plug the jack plug into the socket in the back, and the light source is now ready for connection.

## CONNECTION

There are 2 connections required - the fibre port and the mains supply. The fibre port should be connected first. Connect and secure the fibre optic connector into the front of the unit and secure using the M5 locking screw.

Plug the mains plug into the electrical supply socket. Switch on the power, the LED indicator will illuminate, and the light source will illuminate. If no light is produced consult the troubleshooting section

## OPERATION

This is a standard static decorative white light unit. Once setup according to the connection instructions the unit is ready for use.

The unit has two control push buttons on the rear. These buttons are push and release momentary action type.

**Upper button:** controls motor speed

**Lower button:** controls dimming

## AVAILABLE WHEEL OPTIONS

- Twinkle effect (PT models)
- Colour change effect with 6 color segments (PC models)
- Colour change / twinkle sandwiched (PCT models)

## MAINTENANCE

To ensure a long working life and the safe, reliable operation of the light source, 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 light source it should be disconnected from the power supply and allowed to cool down.

- The light source 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 light source 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 light source 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 light source 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 light source may become hot - keep away from all combustible materials and **DO NOT** locate this light source within 200mm (8") of any flammable surface.
- The light source must not be run without the fibre optic harness fitted.

## MAINTENANCE LOG

| Date | Maintenance Undertaken |
|------|------------------------|
|      |                        |
|      |                        |
|      |                        |
|      |                        |
|      |                        |
|      |                        |

## TROUBLESHOOTING

| Problem   | Possible Cause(s)                             | Remedy   |
|---|---|--|
| Unit is dead - LED power indicator is not illuminated                           | Mains supply off                              | Check supply and reinstate                                 |
|   | Loose mains plugs                             | Check plugs  |
|   | PSU failed                                    | Replace PSU  |
| Unit is dead - no light output but LED power indicator is still illuminated     | LED array failure                             | Contact UFO  |
| Poor light output on fibre  | Unit needs cleaning                           | Carefully clean LED Lens with dry cloth                    |
|   |   | Clean fibre common end                                     |
|   | Fibre port connector not plugged in correctly | Ensure plugged in correctly and secured with locking screw |
|   | Dimming push button at minimum                | Press button to increase brightness                        |
| Light output but no decorative effect (twinkle and/or colour wheel not turning) | Motor speed push button at stop               | Press button to start motor                                |
|   | Decorative wheel motor failure                | Contact UFO  |

## NOTES

## TECHNICAL SPECIFICATION

|                        |   |
|------------------------|---|
| Port connector size    | 30mm diameter                             |
| Fibre type             | Glass / PMMA                              |
| Material/Finish        | ABS (black, silver or white)              |
| Dimensions (L x W x H) | 137mm (5.4") x 114mm (4.5") x 73mm (2.9") |
| Weight                 | 0.4kg                                     |
| Operating Environment  | Indoor use - IP20                         |
| Min Ambient Temp.      | -10°C                                     |
| Max Ambient Temp.      | +45°C                                     |

|  |  |
|--|--|
| Control Functionality                  | Push button manual dimming   |
| Colour Change Functionality            | Push button manual   |
| Effects Wheels Options & Functionality | Colour (PC), twinkle (PT) or combination of both (PCT) controlled by push button |

|                           |                       |
|---------------------------|-----------------------|
| LED Array Type            | White light           |
| LED Array Power           | 2W                    |
| LED Array Model           | Cree XLamp XR-E       |
| LED Array Life (L70, B10) | > 54,400 hours @ 25°C |
| Warm White Option         | 3000K \ 80CRI \ 120lm |
| Neutral White Option      | 4000K \ 75CRI \ 126lm |

|                         |                         |
|-------------------------|-------------------------|
| Supply Voltage          | 90-264Vac               |
| Mains Running Current   | 0.38A @ 240Vac          |
| Mains Voltage VA rating | 10VA                    |
| External PSU Type       | Power Pax, 12V, 2A, 24W |
| Motor Type              | 12V stepper motor       |



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