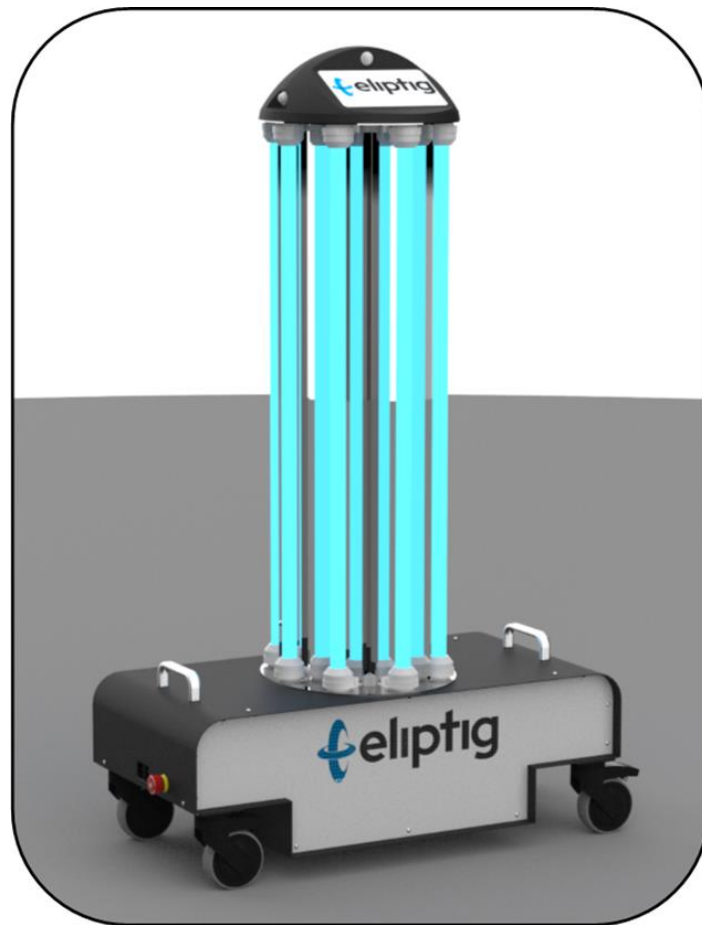




**BLUESKY**  
LASER TECHNOLOGIES LTD



# **UVC Disinfection System User Manual**

- Model A00-1515\_1\_A (50Hz / 60Hz)

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## 1 Safety Warnings



The Eliptig-S is designed to emit UVC radiation at 254nm which has been proven to be highly effective at killing bacteria and viruses by destroying the molecular bonds that hold their DNA together.

The Eliptig-S must only be operated in a secure environment. **DO NOT** operate the device while people are in the area.

Persons operating the unit must wear the safety glasses provided along with appropriate PPE.

**WARNING - UVC LIGHT HAZARD:** Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure. No attempt to operate this UV system until the User Manual has been read and fully understood. In addition, a clear understanding of the biological effects of the interaction of UV light with tissue / eyes should be prerequisite to the use of this UV system. When not in use the UV equipment should be protected from unqualified use. UVC radiation can cause severe burns (of the skin) and eye injuries (photokeratitis). Avoid direct skin exposure to UVC radiation and never look directly into a UVC light source, even briefly.

The User Manual must always remain legible and kept with the Eliptig-S.

**DO NOT** use the power cable to manoeuvre the device.

**WARNING – MERCURY HAZARD:** Do not break the UVC lamps. Each UVC lamp contains small amounts of mercury that can have harmful effects if exposed or ingested.

- Exposure to mercury may cause redness or irritation.
- In the case of a broken UVC lamp, sweep up all the broken glass and debris into a plastic bag and secure it with a seal.
- Dispose of broken or UVC lamp debris at a local recycling center.
- Do not use a vacuum cleaner or incinerator to collect or dispose of any lamp debris.

**WARNING:** Do not modify this equipment without authorization of the manufacturer.

The manufacturer of the Eliptig-S has made every effort to provide as many safety features as possible to assure personal safety. To be effective, these safety features must be utilised and not ignored.

## **Electrical Safety**

**WARNING:** To avoid risk of electric shock, this equipment must only be connected to a supply mains with protective earth.

**HIGH VOLTAGE WARNING:** There are no user serviceable parts inside the unit, only manufacturer spares and accessories should be used with the system, non-standard cables, components and accessories may degrade performance, create safety hazards or affect EMC performance. **NO ATTEMPT SHOULD BE MADE TO REMOVE THE OUTER COVER**

**WARNING:** Use of this equipment adjacent to or stacked with other equipment should be avoided because it could result in improper operation. If such use is necessary, this equipment and the other equipment should be observed to verify that they are operating normally.

## 2 Labelling

### 2.1 Labelling



UV Hazard Warning (located on base top)



Emergency Stop (located on base rear)



Consult Accompanying Documents (located on base front)

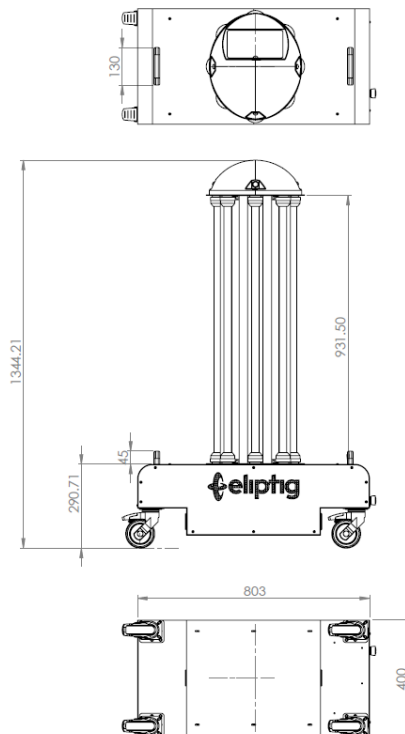


Waste Electronic & Electrical Equipment (WEEE) (located on base rear)

**Manufacturers Label** (located on Rear)

### 3 Technical Specification

<b>Electrical Class:</b>	Class 1	
<b>Voltage (V):</b>	100-240Vac	
<b>Current (I):</b>	100Vac, 6.5 Amps	240Vac, 3 Amps
<b>Frequency (Hz):</b>	50/60Hz	
<b>Input Power (W):</b>	640 Watts	
<b>Output UV Radiation:</b>	140 Watts	
<b>Wavelength (nm)</b>	254nm	
<b>Useful Lamp Life (Hrs)</b>	8000 Hours	
<b>User Interface:</b>	7" Touch Screen	4 button key fob module, 433MHz, 100m range
<b>Ingress Protection</b>	IPX0	
<b>Mains Fuses (I)</b>	T10AH 250Vac	
<b>Motion Detection:</b>	4 x Passive Infrared Sensors	
<b>Conditions of Use</b>	10°C to 30°C Non-condensing humidities below 75% RH	
<b>Dimensions: (mm)</b>	800mm x 400mm x 1345mm	
<b>Weight: (kg)</b>	25 kg	
<b>Standards:</b>	<b>Electrical Safety:</b> EN 61010-1:2010. EN 61010-2-040:2015, <b>EMC:</b> EN 61326-2-1:2013 FCC CFR 47 Parts 15.107 & 15.109; ICES-003 Issue 6.	



• Figure 1 Dimensions

## **4 Transportation and Installation.**

### **4.1 Transport Damage.**

The Eliptig-S has been carefully packed and should arrive at its destination in perfect condition. Upon delivery, please check that the external packaging is not damaged. If signs of damage are present, or the shock detector labels have been activated, please report them to the shipping carrier and the Customer Service Department within 24 Hrs.

### **4.2 Environmental Transport & Storage Conditions.**

The transport & storage conditions for the Eliptig-S were determined from specifications set by the manufacturers of critical components as follows: -

Temperature	+5°C to +40°C
Relative Humidity	35% to 65% Non-Condensing.
Atmospheric Pressure	500 – 1060 hPa

## 5 System Operation.

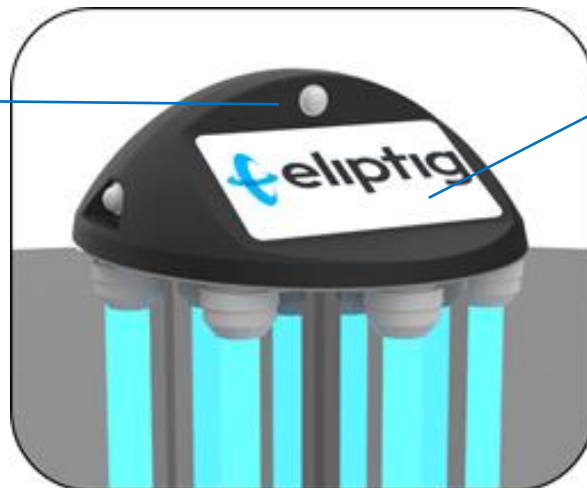


### AC Input

- IEC C14 Switched Mains Input Module
- Fuses T10AH

### Emergency Stop Switch

- Twist to unlock clockwise



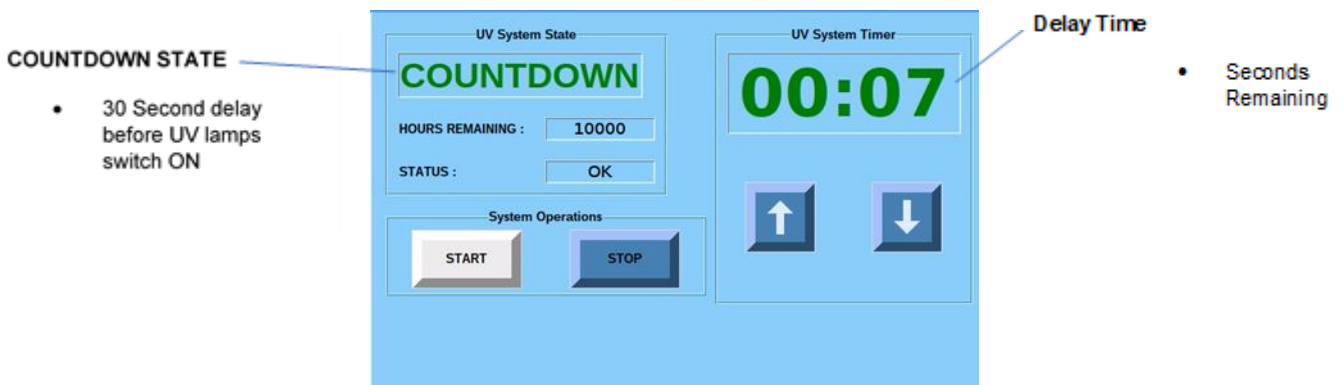
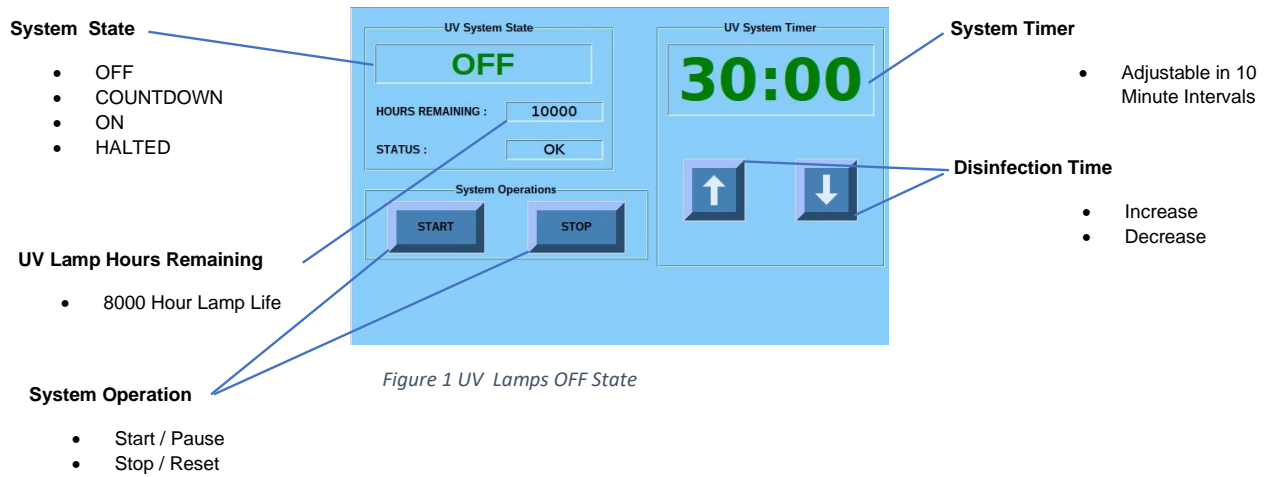
### Motion Detection

- 4 x Passive Infrared Sensors

### User Interface

- 7" Touch Screen Display





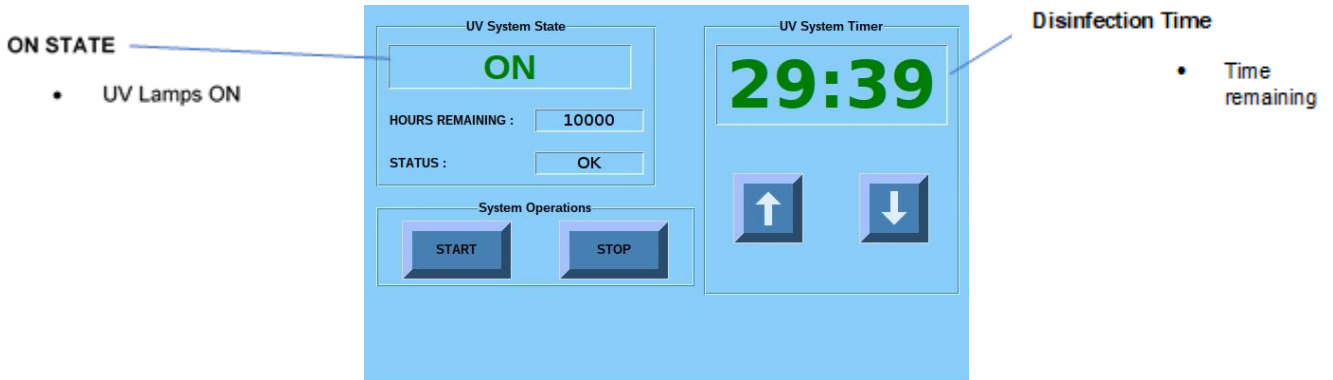


Figure 3 UV Lamps ON State

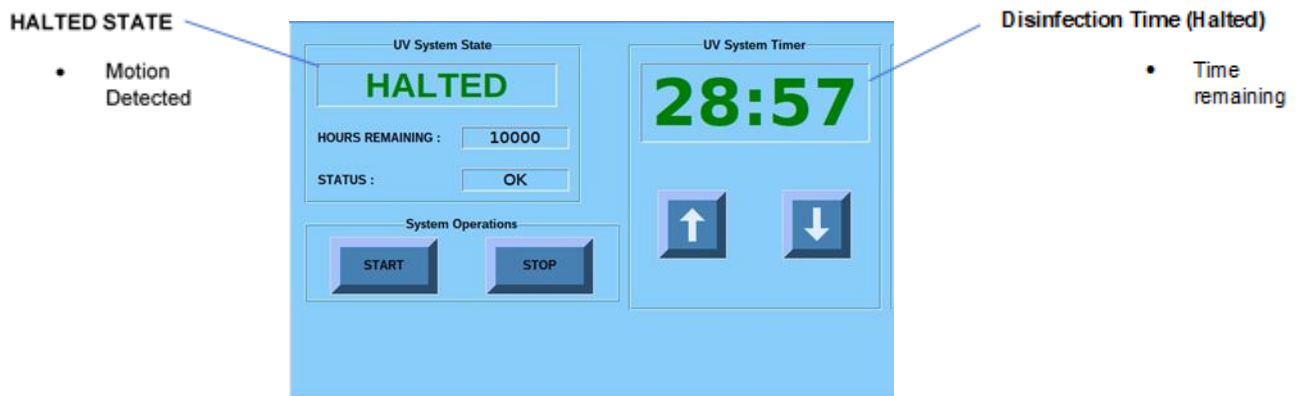


Figure 4 UV Lamp Operation Halted Motion Detected (Lamps OFF)



Figure 5 Remote Control Module

## 6 General Maintenance

### 6.1 Cleaning the Equipment

Before cleaning maintenance is carried out, please ensure the unit is disconnected from the mains supply.

The Eliptig-S system should be cleaned by wiping with a soft, lint free cloth.

### 6.2 Visual Inspection

Before each use, inspect the lamps and mains cable for possible wear, cracks or breaks before each use. Do not use the system if the lamps or cable appear to be damaged.

### 6.3 Lamp Renewal

The Eliptig-S lamps should be renewed every 8,000 hours.

**WARNING – MERCURY HAZARD:** Do not break the UVC lamps. Each UVC lamp contains small amounts of mercury that can have harmful effects if exposed or ingested.

- Disconnect the system from the AC mains.
- Loosen the waterproof end caps by hand.
- Rotate the tube until the prongs at either end are facing outwards and slide the tube out of the fixture.
- Fit the new tube by fitting the waterproof end caps and lining up the prongs with the slots at both ends of the socket. Push the tube into the socket and twist it 90° until it locks into place.
- Tighten the waterproof end caps by hand.
- Exposure to mercury may cause redness or irritation.
- In the case of a broken UVC lamp, sweep up all the broken glass and debris into a plastic bag and secure it with a seal.
- Dispose of broken or UVC lamp debris at a local recycling center.
- Do not use a vacuum cleaner or incinerator to collect or dispose of any lamp debris.

### 6.4 Servicing and Maintenance Schedule

For details of the Service and Maintenance Schedule for your Eliptig-S device please refer to your Warranty Statement.

Blue Sky will make available upon request, circuit diagrams, component part lists, descriptions or other information that will assist service personnel to repair those parts of the Eliptig S that are designated by Blue Sky as repairable by service personnel.

Maintenance contracts are available from Blue Sky or your Distributor after year one.

## 6.5 Safe Disposal

For safe disposal of the unit please contact your Distributor.



## Obligation to the End User WEEE Compliance Statement

### Introduction

The Producer of this EEE passes all obligations to the ‘B2B End User’ when this EEE is subsequently discarded as WEEE. The B2B End User, in accordance with the WEEE Collections Policy outlined in our General Terms and Conditions of Sale, must finance collection, treatment, recycling, recovery and environmentally sound disposal of this EEE when it is discarded as WEEE in the UK.

The Producer has paid no charge to its PCS (Producer Compliance Scheme) for its eventual recovery. However, the PCS’s disposal contractor is able to provide cost effective and environmentally sound disposal of all 13 categories of WEEE.

For disposal please contact 0845 257 7024 or [info@weeeco.com](mailto:info@weeeco.com) for a free no obligation quote for the removal of WEEE items from a B2B End User of WEEE

<b>Producer ID Number: WEE/BD0498UR</b>			
<b>Producer:</b>	Blue Sky Laser Technologies Ltd	<b>Address:</b>	Unit 48a-49, Crofty Industrial Estate, Penclawdd, Swansea, South Wales SA4 3RS UK
<b>E Mail:</b>	info@blueskylasertech.com		
<b>Telephone:</b>	+44 (0) 1792 852879		
<b>B2B End User</b>			
Defined as the business, organisation or institution who is the legal owner of the EEE when it is discarded as WEEE			
<b>Declaration</b>			
The Purchaser, in accordance with the WEEE Collections Policy outlined in our General Terms and Conditions of Sale, accepts that the B2B End User must finance collection, treatment, recycling, recovery and environmentally sound disposal of this EEE when it is discarded as B2B WEEE in the UK The Purchaser agrees to ensure that this document is passed with the EEE item should it be resold to a B2B			

End User

**Definitions:**

<b>Producer</b>	means, the Manufacturer, UK Importer and/or Re Brander
<b>EEE</b>	means, Electrical Electronic Equipment
<b>WEEE</b>	means, Waste Electrical Electronic Equipment
<b>B2B</b>	means, business organisation and/or institution
<b>PCS</b>	means, Producer Compliance Scheme
<b>End User</b>	means, legal owner
<b>Purchaser</b>	means, the business, organisation and/or institution who purchased the EEE

Distributed by:

Manufactured by:

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UK  
Tel +44 (0) 1792 852878