

# USER MANUAL



**UV-C 2020**  
DISINFECTING DEVICES

## AIR STRIKE ULTRA 2020 UV-C



9, Bel kamak str.,  
Voluyak village,  
Sofia region,  
Bulgaria,  
e-mail: [office@ikis-sl.com](mailto:office@ikis-sl.com)

# INSTRUCTIONS FOR INSTALLATION, OPERATION, MANAGEMENT, MAINTENANCE, SAFETY AND WARRANTY OF AIR STRIKE ULTRA 2020 UV-C DISINFECTION DEVICE

## -----CONTENT-----

I.	WARNING SIGNS .....	p.3
II.	GENERAL INSTRUCTIONS.....	p.4
III.	UNPACKING AND CONTENT.....	p.5
IV.	PRINCIPLE OF UV-C DISINFECTION WITH INDIRECT UV-C RADIATION.....	p.6
V.	TECHNICAL CHARACTERISTICS.....	p.7
VI.	INSTALLATION INSTRUCTIONS.....	p.9
VII.	SAFETY INSTRUCTIONS AND MAINTENANCE .....	p.10
VIII.	WARRANTY .....	p.12



For the sake of your health, please read the instructions carefully before working with the appliance

Failure to follow the instructions can seriously affect your health and cause damage to the appliance.

It is important that you keep these instructions so that you can inform yourself at all times about the specifications and operation.

In the event of a sale, transfer or relocation, make sure that the operating instructions accompany the appliance.



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## I. WARNING SYMBOLS/SIGNS



CAUTION! DANGER WARNING



CAUTION! UV-C RADIATION



CAUTION! HIGH VOLTAGE



CAUTION! TOXIC



DO NOT DISPOSE TOGETHER WITH HOUSEHOLD WASTE



DON'T DISPOSE IN SEWER



IMPORTANT! NOTE!

## PERSONAL PROTECTIVE EQUIPMENT



USE A PROTECTIVE FACE SHIELD



USE PROTECTIVE GLOVES



USE PROTECTIVE LAB COAT



USE SAFETY GLASSES



USE A FACE MASK



USE HAZARDOUS WASTE CONTAINER

## II. GENERAL INSTRUCTIONS



1. Please read carefully and follow all operation and safety instructions.
2. The appliance is intended for indoor use only.
3. The appliance must not be exposed to moisture, condensation, water vapor or vibration.
4. The appliance must only be used and stored in dry rooms with a temperature range of 10 ° to 40 °.
5. The appliance contains UV-C radiators.
6. During maintenance of the appliance in operating mode always use personal protective equipment (PPE).
7. Before using the disinfection device, make sure that there are no transport defects on it - damaged packaging, broken light sources, damaged metal housing, torn or broken cable. In the event of such circumstances, contact the supplier immediately. Do not take any action for troubleshooting. Do not use the appliance before troubleshooting.
8. Do not cover the appliance or place any objects on it in operation mode.
9. Do not change the design and construction of the appliance.
10. Do not use the appliance for any purpose other than its intended purpose described in this manual.
11. Do not remove any indicative or warning signs or stickers from the appliance
12. UV-C light sources should be carefully cleaned only with a cotton cloth and alcohol.
13. Repair of the appliance or replacement of electrical consumables must only be carried out by the supplier company or a service center authorized by it.

### III. UNPACKING



Remove the disinfection device from its packing.

Before disposing of the packaging in the designated areas, carefully check that all parts and accessories are available.

Before using the disinfection appliance, make sure that there are no transport defects on it - damaged packaging, broken light sources, impacted metal housing, torn or broken cable. In the event of such circumstances, contact the supplier immediately. Do not take any action to resolve the issue. Do not use the appliance before troubleshooting.



**The set includes:**

**UV-C sanitizer AIR STRIKE ULTRA 2020**

**UV-C PL-L 36W PHILIPS 8 pieces**

**User manual**



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## IV. PRINCIPLE OF UV-C DESINFECTION WITH INDIRECT UV-C RADIATION

AIR STRIKE ULTRA 2020 is an air disinfection device. The germicidal UV-C lamps integrated in it, emit a wavelength of 254 nanometers (nm) and destroy effectively microorganisms, including viruses, bacteria and spores that are carried in the air.

With the help of one fan, air is forced into the disinfection chamber. Two light sources of UV-C light, which perform the disinfection, are mounted in it. The chamber has built-in protection. Two metal shields prevent the emission of UV-C radiation outside the appliance.

Model AIR STRIKE ULTRA 2020 UV-C is equipped with PHILIPS TUV 36W PL-L UV-C 254nm OZONE FREE.

It is intended for use in hospital rooms, operating rooms, clinics, laboratories, pharmaceutical and food industry, offices, retail outlets, schools, kindergartens, homes and etc.



## V. TECHNICAL CHARACTERISTICS

<b>Model: AIR STRIKE ULTRA 2020</b>		
<b>Voltage</b>		<b>220-240V</b>
<b>Frequency</b>		<b>50/60Hz</b>
<b>Weight</b>		<b>13 kg</b>
<b>Power</b>		<b>380W</b>
<b>Degree of protection</b>		<b>IP20</b>
<b>Maximum volume for disinfection per hour</b>		<b>1000m3 / hour</b>
<b>Noise level</b>		<b>76 dB</b>
<b>Ambient operating temperature:</b>		<b>from 10° to 40°</b>
<b>Dimensions:</b>	<b>Length:</b>	<b>1100 mm</b>
	<b>Diameter:</b>	<b>315 mm</b>
<b>Lamp Data:</b>	<b>Model:</b>	<b>PL-L 36W UV-C</b>
	<b>Number of lamps:</b>	<b>8</b>
	<b>Power consumption:</b>	<b>36W</b>
	<b>Wavelength:</b>	<b>254 nm</b>
	<b>Average effective life:</b>	<b>7700 h</b>

- HOUSING: steel and aluminum powder coated in white and black

- STANDARDS:

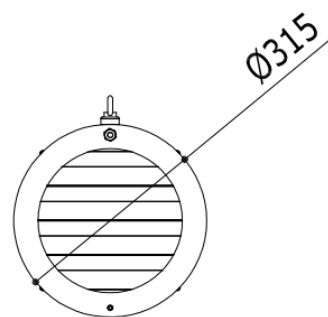
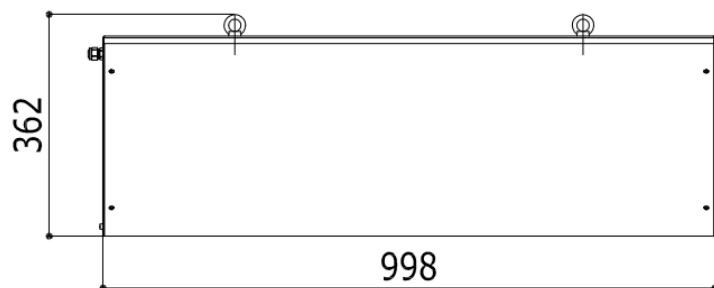
EN 55015:2013+A1:2015

EN 60598-1:15+AC:15+AC:16+A1:18



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## DIMENSIONS in mm





## VI. ИНСТРУКЦИИ ЗА МОНТАЖ



For effective air disinfection AIR STRIKE ULTRA 2020 should NOT be installed in a room with a cubic capacity greater than 1000 m<sup>3</sup>. There is no need to control the access of people and animals in the room, while the device is running. The protective shields of AIR STRIKE ULTRA 2020, restrict ultraviolet radiation from entering the room, protecting the occupants from direct exposure to UV-C radiation.



To ensure safe and proper use, make sure that the area:

- has a properly grounded electrical outlet.



**REPLACEMENT OF UV-C LIGHT SOURCES SHOULD BE DONE ONLY BY QUALIFIED STAFF!**

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### STEP 1

Attach the device to the ceiling using carabineers and chains.

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### STEP 2

Connect the electrical appliance. If you use an available power outlet, make sure the power is off.

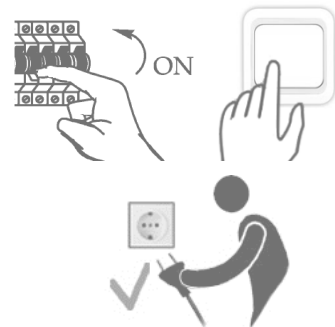


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### STEP 3

If the installation has a switch outlet, switch on the power supply from the fuse and switch on the appliance via the switch.

If you use a cord with a plug to power the appliance, plug the plug into a schuko socket.



## VII. SAFETY INSTRUCTIONS AND MAINTENANCE

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The light sources of PHILIPS UV-C PL-L 36W, with which AIR STRIKE ULTRA 2020 is equipped, according to the manufacturer, have an average effective life of 6300 hours. The lamps can last longer than their estimated effective service life of up to 9,000 hours, but reducing ultraviolet radiation will make their use ineffective for disinfection. For maximum efficiency, the lamps must be replaced every 6300 hours of operation.

After replacing the light sources, the Lth parameter should be set for a new reading of the operating hours.



***For new UV-C lamps contact the supplier:***

If you need to enter the room where the disinfection is carried out, ALWAYS use appropriate personal protective equipment, namely a UV protection face shield, gloves and, if possible, a protective suit. If you do not have a protective suit, make sure you do not have areas of exposed skin. If there are plants in the room, make sure there is no direct radiation. High doses of direct UV-C radiation can burn plants.





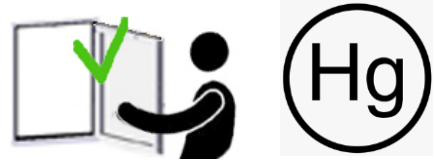
Always unplug the power supply before performing any activities related to moving the appliance, cleaning or replacing consumables.





A regular cleaning cycle of the disinfection device must be established and carefully maintained. The frequency of cleaning will vary depending on the conditions of use. It is recommended to clean the appliance at least once every three months. The light sources should be cleaned once a month. Cleaning should be done with a cotton cloth and alcohol.



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ATTENTION!    
UV-C light sources contain a small amount of mercury - avoid breakage!  
If you break a lamp, ventilate the room where the breakage occurred.



   
If the UV-C light source breaks, take the usual precautions to collect broken glass, but it is MANDATORY to wear gloves, mask and goggles. Clean with a mercury vacuum cleaner or other suitable means that avoid the formation of dust and mercury vapor, for example with a towel or syringe, which are also discarded after use, as well as the personal protective equipment. NEVER use an ordinary vacuum cleaner.



Place the collected waste in a closed container .  
 NEVER dispose with household waste or sewage. This is hazardous waste  and for proper disposal contact the local branch of the Ministry of Environment and Water.



## VIII. WARRANTY CONDITIONS FOR UV-C 2020 DISINFECTION DEVICES

### 1. Warranty periods.

The warranty periods start from the date of issuance of the warranty card and are valid for the period marked for each product in the WARRANTY field. The warranty card is kept by the Buyer until the expiration of the warranty period. Each complaint must be submitted with an original warranty card.

#### WARRANTY PERIODS FOR UV-C 2020 DISINFECTION DEVICES:

##### 1.1. Disinfection devices - 24 months.

##### 1.2. Sources of UV-C radiation (T8 or PL-L) for models with a controller - 7700 operating hours (hours are counted by the built-in controller in the device).

##### 1.3. Sources of UV-C radiation (T8 or PL-L) for models without controller - 7700 working hours or 12 months (when operating the device no more than 21 hours a day).

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### 2. Complaints.

2.1. The customer lodges a complaint during the warranty period immediately after noticing the damage.

2.2. The complaint is submitted in the office of the MANUFACTURER every working day during working hours at the address: 9 Bel Kamak Str., Voluyak village, Sofia region, Bulgaria, after prior notification by email: [service@ikis-sl.com](mailto:service@ikis-sl.com)

2.3. The defective product has to be delivered on the site or send it with a courier company, together with the warranty card to the address 9 Bel Kamak Str., Voluyak village, Sofia region, Bulgaria.

2.4. The transportation of the defective product to the office of the SUPPLIER is at the expense of the Client. Deliveries with courier companies of defective products that have been released at our expense will not be accepted and will be returned to the Customer at his expense.

2.5. The repair of a defective product is carried out within the legal period of up to 30 days. Usually the repair takes 5-6 days.

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### 3. Operation, transport, storage and installation conditions:

3.1. For transporting of the devices, follow the rules prescribed on the packaging by the manufacturer.

3.2. After transportation, switch on the device only after at least 1 hour for an acclimatization in the room.

3.3. The normal operating temperature of the devices is different and is noted in the accompanying documentation.

3.4. The devices are connected to the electrical grid only by safe and grounded Shucko socket.

3.5. The supply voltage must be 230V ± 10% with a frequency of 50 Hz, in accordance with the IEC 60038 standard.

3.6. It is not allowed to be placed objects on or around the devices, which would impede their ventilation and cooling.

3.7. The devices must be unplugged from the electrical grid during the thunder storm.

3.8. The devices must be protected from hits and shocks.

3.9. The devices, which are not moisture and waterproof should be installed in rooms with a humidity of not more than 85% RH.

3.10. The device must not be connected to a power strip with other large power consumers, such as electric radiators, stoves, air conditioners, etc.

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### 4. Warranty void. The customer loses his right to warranty in the following cases:

4.1. In the absence, deletion or damage of an identification / serial number or warranty, warning or information sticker.

4.2. In case of damage caused by improper transportation, relocation, storage and installation.

4.3. In case of damage caused by thunderstorms, lightning, fire, flood and all other natural disasters.

4.4. In case of malfunction or large fluctuations in the electrical network, including instantaneous starting overvoltage / electric shock /.

4.5. In case of an attempt to eliminate a defect by an incompetent and unauthorized person from the SUPPLIER.

4.6. If the power cable is cut or damaged.

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### 5. The warranty period is 24-months and applies to the disinfection device only. The sources of UV-C radiation (lamps) have a guarantee of 7700 working hours or 12 months for maximum operating 21 hours per day.

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### 6. Unrepairable defects.

6.1. In case of an unrepairable defect during the warranty period, the SUPPLIER replaces the defective product with a new one within 30 days after the establishment of the unrepairable defect.

6.2. Replacing a defective product with a new one is done with the same model. If at the moment, the given model is no longer available for sale by the SUPPLIER, it is replaced with its new analogous model, without the customer having to pay for it.

For damages caused by non-fulfillment of items 3 and 4 of this warranty card or circumstances independent of the SUPPLIER, the same is NOT responsible, the warranty is void and the elimination of damages is only for a fee.



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MANUFACTURER: <b>IKIS SL LTD</b>	<b>WARRANTY CARD</b>	BUYER:
address: 1346 Voluyak village, 9 Bel Kamak Street.		address:
email: <a href="mailto:service@ikis-sl.com">service@ikis-sl.com</a>		Date of purchase:

Name of disinfection device	Serial / Batch number of the device	Warranty
AIR STRIKE ULTRA UV-C 2020		24 months

**THE WARRANTY IS VALID ONLY WHEN COMPLETING ALL ATTRIBUTES OF THE WARRANTY CARD AND MUST SEND A SCANNED COPY OF THE WARRANTY CARD AND SALE DOCUMENT ON e-mail: [service@ikis-sl.com](mailto:service@ikis-sl.com).**



WARRANTY REPAIRS PERFORMED						
Product model	Serial / batch number	Manifested defect	Date of acceptance in the service	Date of discharge from the service	Repair status	Warranty up to



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