

INSTRUCTIONS

UV-BOX-E2/40H-NX-T

***Germicidal UV Box
for Disinfection or Sterility Maintaining
of instruments or tools***

MODEL:

UV-BOX-E2/40H-NX-T



SECURITY WARNING

♦ The Company has ensured that every care is taken in the design and production of its machinery. In order to guarantee, as far as possible, that it is safe when used correctly. However, the laws on accident prevention require all users of the machinery to ensure that whoever is responsible for installation, maintenance, use and sale of these products is shown the instruction provided by our company and is made aware of the precautions to be taken.

According to the circumstances, the appropriate recommendations made in these instructions must be made available, together with any other relative information, to any company or person involved in the installation of LIGHT PROGRESS products.

- ♦ Only use this appliance for its intended purpose as described in this booklet.
- ♦ If the appliance is wrongly operated for a purpose other than that for which it is intended, no liability can be accepted for any possible damage. The manufacturer cannot be responsible for any damage to people, animals and objects caused by use or operation of the appliance contrary to these instructions.
- ♦ As with all electrical appliances the safety information and precautions contained in this booklet must be carefully observed, including following:
 - ♦ Before maintenance or cleaning ensure that the appliance is switched off and unplugged from the mains supply.
 - ♦ Should the appliance become faulty please contact our authorized Service Centre direct and in case of repairs ask for genuine parts.
 - ♦ Improper repairs may damage the appliance and place the user at serious risk.

WARNING



- **Avoid exposition to UV-C rays emitted by the germicidal lamps, even for few seconds, it may cause severe conjunctivitis and erythema**
- **Plastic or painted surfaces exposed to direct UV-C rays may progressively yellow, as after a long exposure to sunlight.**
- **The intended use is as a germicidal lamp for sterilization, any other use is improper and dangerous**
- **The lamp, as supplied, can not be modified or designed for use with accessories or tools**
- **We disclaim all responsibilities and void the warranty in case of tampering or lack of maintenance**

- **Read carefully the following instruction before use**
- **In case of opening of the UV section, must be provided a shut-off of the UVC devices in order to avoid exposure to UVC light emitted by the germicidal tube; It may cause severe conjunctivitis and erythema.**
- **Remove the protection film from the device before light-on the UV-C lamp.**
- **This device can be used by children with no less than 8 years and by persons with reduced physical, sensory or mental capacities or with no experience or knowledge, as long as under supervision or often they have received the related instructions about the safe use of the device and the related risks. Kids do not have to play with this device.**

CONVENTIONAL SYMBOLS NOTICED ON DEVICES



DOESN'T DISPOSE THIS PRODUCT ON THE UNDIFFERENTIATED WASTE DISPOSING OF THE SUBSTITUTED ITEMS MUST BE PERFORMED RESPECTING THE LOCAL LAWS.



RECYCLE THE STUFFS THAT COMPOSES THIS PRODUCT.



OBLIGATION TO CONSULT THESE INSTRUCTIONS BEFORE USE THIS PRODUCT



DANGER OF ELECTRICAL SHOCK; REMOVE TENSION TO THE SYSTEM BEFORE PERFORMING ANY OPERATION.



GENERIC DANGER.



DANGER OF EXPOSITION TO ULTRAVIOLET UV-C RAYS.



THIS DEVICE RESPECTS THE ROHS NORMS.



USE PROTECTIVE GLOVES



WEAR PROTECTIVE GLASSES

STORAGE OF THIS MANUAL



ATTENTION!

This instruction manual must be preserved and be ever at disposal to consultation; it must follow the device in case of passage of property, and accompany the device until its demolition. It's possible to contact Light Progress' technical office to ask for updated instruction manuals and information.

DEMOLITION AND DISPOSAL



Do not dispose of these products as unsorted municipal waste but collect separately as special waste and entrusting them to waste disposal firms specialised. Disposal must be in accordance with the Legislative Decree 151/2005 (WEEE - Italy) or in accordance with the legislation in force in the country where it will be the disposal (WEEE - EEC). In the event of non-compliance or improper disposal are provided for heavy penalties. The apparatus is composed of plastic parts, electronic components, metal, UV tubes containing mercury (dangerous substances to the environment and human health). The dealer is available to the withdrawal of the apparatus used.

DEVICE DESCRIPTION

UV-BOX-E2/40H-NX-T is a box consisting of a structure in stainless steel, with 1 stainless steel AISI 304 flat grill to support the objects to be disinfected.

The grid support the stored items minimizing dead spots and getting disinfection of 99.99% in very short exposure times.

The box is equipped with two lamps UV-C 40 W.

APPLICATIONS AND RESULTS

This box can be used for germicidal disinfection and maintenance of sterility of objects and tools for healthcare, pharmaceutical labs, microbiological labs, food industries, etc.

After washing, the objects can be stored inside the germicidal box, in order to maintain the condition of cleanliness in time; objects can thus be used with confidence, even after several hours far from washing.

UV-BOX-E2/40H-NX-T is among the few items on the market to offer an action extremely effective, because it possesses two opposite tubes of high power (40W), which can radiate uniformly to all directions, directly on instruments surface. Furthermore, the internal reflection increases the amount of UV radiation which invests the instrumentation from all directions, reducing to zero the micro-shadows and lowering significantly the exposure times

Very short exposure times are thus obtained to get over 99.9% disinfection.

OPERATION

Every time you turn on the timer (with door closed) UV lamps turn on and begin the disinfection.

The possible opening of the door during the disinfection action, shuts off the lamps immediately, in order to ensure the personnel safety; if you will close the door again, automatically lamps will switch on until time expiration set up on the chronometer.

BENEFITS AND ADVANTAGES

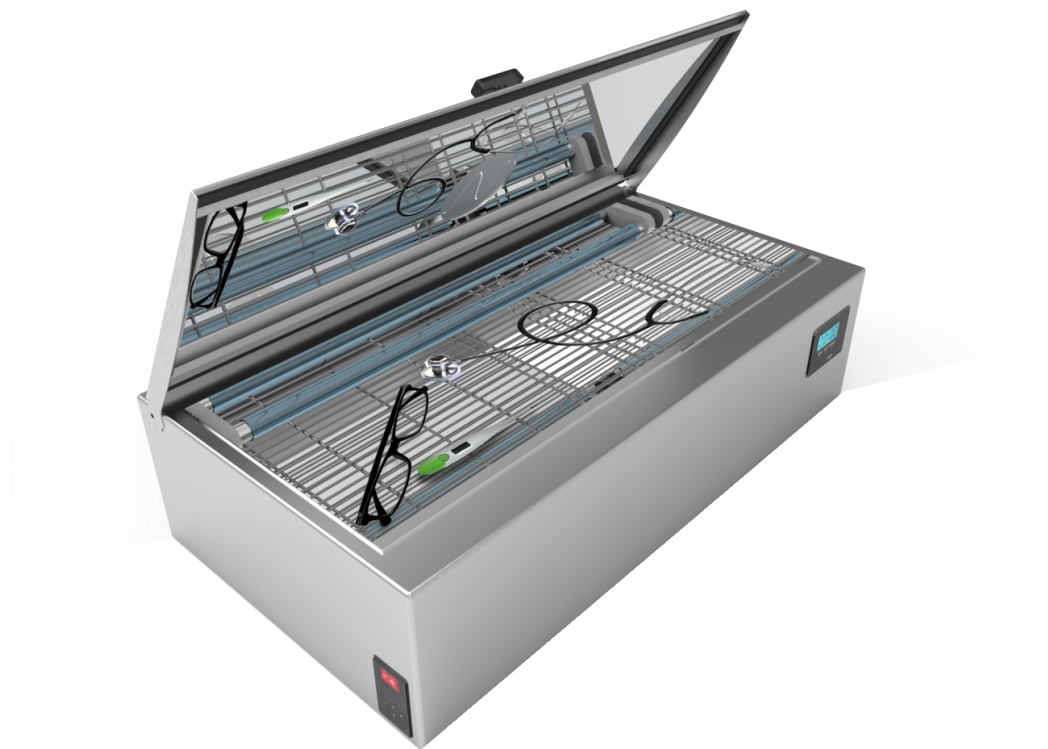
a) **PHYSICAL ACTION AND ENVIRONMENTAL PROTECTION.** Treatment by UV-C rays is purely physical, and achieves always the same effect; also, there are no problems of overdose. Rather, many methods of chemical treatment involve the use of dangerous products for the environment, and difficult to biodegrade, as well as the risk of contamination of foodstuffs. Also, by the use of chemicals it is likely to develop resistant microbial forms with consequent danger to human health.

b) **IMMEDIATE EFFECT.** It takes just a very short time to obtain effective results (99% killing of the bacteria).

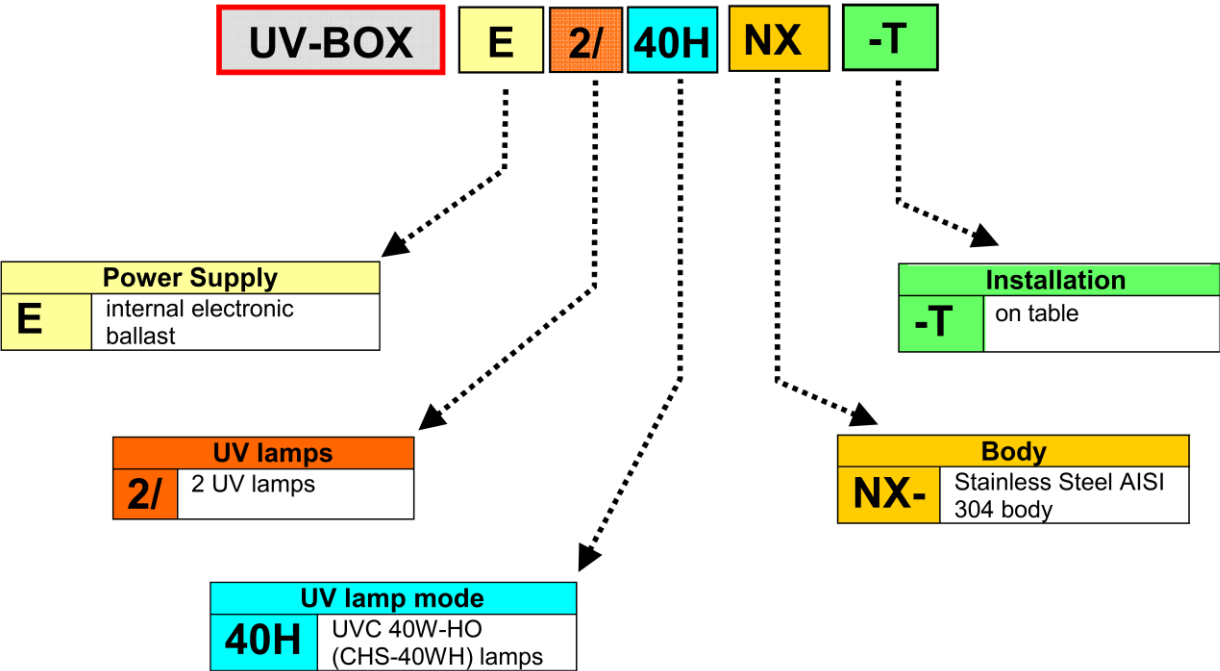
c) **PRACTICABILITY AND SAVINGS.** The treatment is immediate and ready for use. The maintenance is minimal with low costs of both energy consumption and repairs.

d) **NO CONTRAINDICATION FOR EQUIPMENT TO BE TREATED.** This device provides the ability to maintain a sterile equipment, without the slightest contraindication. Equipment to be disinfected, or previously sterilized, can be preserved for a long time and are ready at any time, since the treatment is dry and without heat generation.

e) **TOTAL SAFETY.** Ultraviolet rays are confined inside the enclosure and cannot exit for the presence of UV rays resistant polycarbonate (LEXAN ®) and for the presence of micro-switches that prevent UV irradiation when the door is open. Therefore, it may treat the instruments in the presence of the operators.



DEVICE CODES



RECEPTION

Please verify the integrity of the package as soon as it arrives at your destination; then check the device to be sure that the carriage did not caused damages to any part of it. Before installation and using the device please READ AND FOLLOW CAREFULLY THE SECURITY WARNINGS and all others instructions that follows.

TECHNICAL SPECIFICATIONS

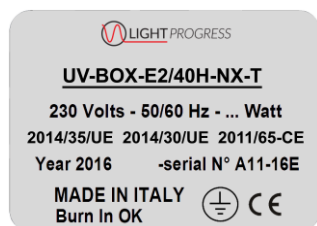
TABLE n.1

UV-BOX	E2/40H-NX-T
LAMP LIFETIME (h)*	≤ 18.000
SUGGESTED REPLACEMENT	Deduct 1 hour for every lighting (max. 2 Years).
TOTAL CONSUMPTION (W)	80
EXTERNAL DIM. (mm.)	129 x 509 x 275
INTERNAL DIM. (mm.)	89 x 469 x 213
WEIGHT(Kg.)	5.5
INOX SHELVES	1
SPARE PARTS	
UV LAMP CODE	n.2 CHS-40WH
BALLAST CODE	n.2 EB-55P

* continuous operation

LABEL AND SYMBOLS

Example:



SYMBOL			
MEANING	Warning! Check the attached documentation	GROUND TERMINAL (The unit must always be connected to the ground)	Device with CE certification.

WARRANTY

All products made by LIGHT PROGRESS are manufactured using only materials of the higher quality, and are subjected to rigorous testing, and are guaranteed to be free of factory faults according to current law and regulations.

- Minimum requirements for warranty validity

Warranty will be considered valid only in case of possession of the purchase document.

- Warranty limits

Warranty excludes

- Damages caused by not following the instructions that accompany the product at purchase.
- Periodical controls, maintenance, repairs or replacements of parts due to normal wear.
- Consumable parts.
- Use of incompatible spare parts or consumables; Compatibility is assured only by use of products purchased from or recommend by **Light Progress**.
- Damages caused by modification of device / system without **Light Progress**' previous consent.
- Improper use of the product, falling or crashes.
- Modifications or repairs made by unauthorized personnel.

For defective materials return, you must request the return merchandise authorization (RMA) sending an email to info@lightprogress.it or calling the number +39.0575.749255.

Once you receive the module, it has to be filled up in every part and sent via email to info@lightprogress.it or via fax to +39.0575.789929 to obtain the RMA number that will authorize the shipments of the goods to Light Progress warehouse. Only authorized goods will be accepted, otherwise it will be refused and sent back to the sender on ex-works conditions. The packages must be sent on DDP (Delivery Duty Paid) with packaging suitable for transport. RMA number is valid up to 10 working days from release date.

MANUFACTURER RESPONSIBILITY AND COMMITMENTS

↳ **Light Progress** do not assume any responsibility for any damage to persons or property, due to failure to follow these instructions. We recommend you to carefully read all the given instructions.

↳ The manufacturer agrees with the buyer to provide, upon request, schemes of circuits, component parts lists, instructions for calibration of lamps and other information, which are useful to repair those parts that the manufacturer considers repairable.

↳ The company reserves the right to make changes without prior notification or public notice.



DECLARATION OF COMPLIANCE

We, LIGHT PROGRESS S.r.l., hereby declare under our own responsibility that the following units of own production:

UV-BOX-E2/40H-NX-T

- ⇒are in accordance with EEC directive 2014/30/EU (Electromagnetic Compatibility)
- ⇒are in accordance with EEC Machinery Directive dispositions 2006/42/EU
- ⇒are in accordance with EEC Low Voltage Directive 2014/35/EU
- ⇒are in accordance with EEC (RoHS) 2011/65/EU

TECHNICAL STANDARDS APPLIED

UNI EN ISO 12100:2010	Safety of Machinery - Basic Concepts, General Principles for Design - Risk assessment and risk reduction
UNI EN ISO 13857:2008	Safety of Machinery - Safety Distances to prevent danger zones being reached by the upper and lower limbs (2008)
ISO 14120:2015	Safety of Machinery - Guards - General Requirements for the Design and construction of fixed and movable guards
UNI EN ISO 13849-1:2016	Safety of Machinery - Parts of the Control System related to the Safety – Part 1: General Design Principles
UNI EN ISO 14119:2013	Safety of Machinery - Interlocking devices associated with guards - Principles for design and selection
CEI EN 60204-1:2016	Safety of Machinery - Electrical Equipment of Machines. Part 1: General Rules (2010)
EN 61439-1:2011	Low-voltage Switchgear and Control Gear Assemblies. Part 1: General rules

FURTHER TECHNICAL STANDARDS APPLIED:

IEC EN 60335-1 "Safety of household electrical appliances and similar"
Electronic Ballasts for the control of the lamps in accordance with the standard EN 60928.
Germicidal UV-C Lamps in accordance with EN 61199.
Electrical Protective Measures in accordance with IEC 70-1, EN 60229.

Anghiari, 9.28.2020



Responsible for Standards: Dr. Aldo Santi

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Loc. San Lorenzo, 40 - 52031 ANGHIARI (AR) - ITALY

TEL. 0575 / 74.92.55 - FAX 0575 / 78.99.29

PRODUKTION:

- ANGHIARI - Loc. San Lorenzo, 40
- CASTIGLION F.NO - Loc. S. Antonino, 40

Http: www.lightprogress.it

E-mail: info@lightprogress.it

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