

## **Safety instructions and operating manual UV Germicidal Irradiation (UVGI) Unit**

Model: uvX50



Please read this manual carefully before using your germicidal UV sterilizing unit.

# Safety and caution

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## IMPORTANT SAFETY INSTRUCTIONS



### WARNING

When using the germicidal UV sterilizing unit be sure to follow basic precautions, including the following

- Please read the user manual carefully before using the UV sterilising unit for the first time.
- This manual contains important information about installing, using and maintaining your device.
- The manufacturer cannot be held responsible for injury or loss due to non-compliance to this manual.
- Do not drop or handle in a hard-handed manner as this may result in damage to the device or lamps.
- **The device makes use of UV-C fluorescent light lamps, which emits UV-C rays. Direct exposure to UV-C rays may cause eye/skin injury.**
- **The lamps provided will operate in standard fluorescent fixtures, but should not be used for general lighting applications.**
- **Under no circumstances should the safety systems be by-passed.**
- **If the “UV Light Status” indicator is ON and the UV lamps are NOT illuminated (seen through the viewing window) the unit will NOT disinfect items placed in the device.** Refer to the “[Service and Maintenance](#)” section of this manual to rectify.
- Do not touch or handle the lamps directly after the device has been used - lamps may be hot and could cause injury due to burning. Wait at least 10 minutes after opening the lid before handling the lamps.
- If the light lamps break in the device, proceed with caution as the shards will be sharp and may cause injury.
- Risk of electric shock - do not expose the device to moisture or water during operation.
- Risk of electric shock - do not use the device if the power cord is damaged.
- Do not operate the device in the presence of flammable vapours.
- This device is not designed to be used by young children or infirm persons without supervision.

#### During installation:

- Electrical connection must be in accordance with the rating label.
- Electrical safety is only guaranteed when the earth system of your premises is in accordance with the related local regulations.
- Risk of electric shock - turn outlet power off and unplug the unit before inspection, installation or removal of the lamps.
- If the power supply cord, or any other part of the unit, is damaged, it must only be replaced by the manufacturer or its service agent or a similar qualified person in order to avoid a hazard. Refer to the “[Service and Maintenance](#)” section for procedures that can be performed by the user.

# Parts Description

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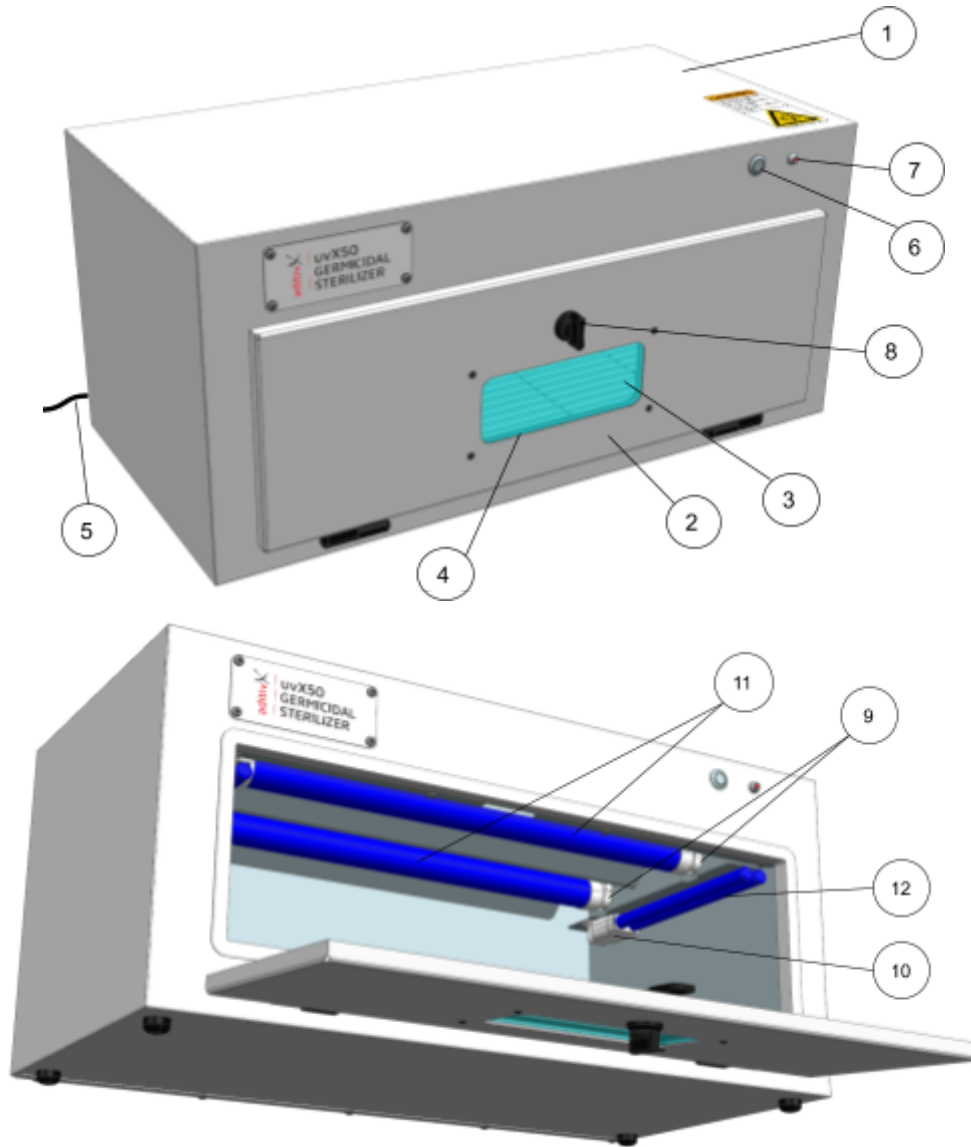


Figure 1: UV Sterilising Unit Parts Diagram

- |                          |                 |                    |
|--------------------------|-----------------|--------------------|
| 1. Sterilising unit box  | 5. Power cord   | 9. 15W Lamp holder |
| 2. Sterilising unit door | 6. Start button | 10. 9W Lamp holder |
| 3. Rack                  | 7. Status light | 11. 15W UVC Lamp   |
| 4. Viewing Window        | 8. Door latch   | 12. 9W UVC Lamp    |

# Product Specification

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The product specifications are as follows:

Rated Voltage	230 V
Max Rated Current	0.4 A
Power Consumption	60 W
UV Lamp Type	G15T8 (x2) and GBX9/UVC (x2)
Outer Dimensions	610 mm x 338mm x 292mm
Sterilizing Volume	517mm x 284mm x 145mm

# Installation Instructions

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The unit must be located in a well ventilated area.

Before plugging the power cord into the socket, the UV lamps (parts 11 & 12) need to be installed in the unit.

Follow the steps below to install the lamps:

Step 1: Open the door (part 2) of the device by undoing the door latch (part 8). (Figure 2.a)

Step 2: Remove the cable tie that keeps the rack secure during shipping. Rotate the small latch that keeps the rack down to release the rack. Remove the lamps stored under the rack.

Step 2: The lamp holders (parts 9 & 10) are located in the upper part of the sterilization chamber. Unpack the 15W UV lamps (part 11) and insert it directly from below into the lamp holders (part 9). (Figure 2.b)

Step 3: Turn the UV lamp clockwise by 90 degrees to secure it in the holders. (Figure 2.c)

Step 4: Unpack the 9W UV lamps (part 12) and slot it into the lamp holder (part 10). (Figure 2.d)

Step 6: Plug the power cord (part 5) into the device and a wall socket.

The device is ready to use - refer to [How to use and operate](#).

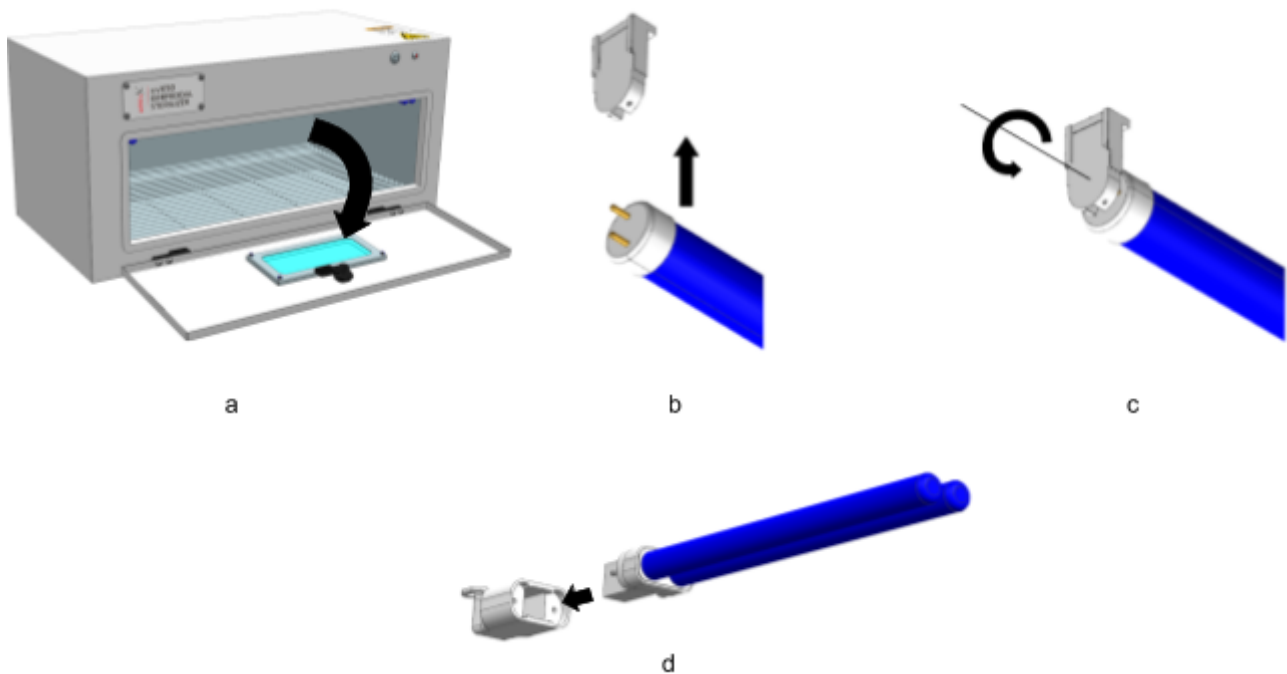


Figure 2: Lamp Installation Instructions

# How to use and operate

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This device is designed to sterilize the surface of non-living components (such as: smartphones, documents, face masks, etc).

**IMPORTANT - Do not place live creatures or plants in the device. Doing so may result in injury or death.**

**IMPORTANT - Do not place containers containing liquids of any kind or medication of any kind in the device.**

## Status light meanings:

The light (part 7) indicates the status of the device.

Control Panel Light Status	Device Status
Status light ON continuously	UV light is on inside box
Status light OFF continuously	UV light is off inside box
Status light is blinking	Device ready for use - the status light blinks 5 times when the lid is secured

## Operation

Step 1: Open the door (part 2) by rotating the door latch (part 8) 90 degrees anti-clockwise and lowering the door panel. Place items to be sterilized into the device.

**NOTE: Take care when positioning your items - UV rays can only sterilise exposed areas.**

Step 2: Close the door by turning the door latch (part 8) 90 degrees clockwise. As a safety feature **the device will not start if the door latch is not secured properly.**

Step 3: Press the start button (part 6). The status light (part 7) as well as the UV lamps will turn on.

Step 4: The status light will turn off after 2 minutes. Open the door by turning the latch.

**IMPORTANT - sterilise your hands with hand sanitizer before touching sterilised items. Failure to do so may result in re-contaminating the items.**

Step 5: Flip the items to sterilise the other side, close the door and press the start button for a second time.

Step 6: When the status light turns off, items have been sterilised. Open the door by turning the latch.

**IMPORTANT - sterilise your hands with hand sanitizer before touching sterilised items. Failure to do so may result in re-contaminating the items.**

Step 8: Remove the items.

Step 9: Close the door to ensure the inside surface stays clean.

# Service and Maintenance

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## Lamp replacement

- UV lamps lose efficiency over time and **must be replaced every 2 years OR 8000 hours** (whichever comes first) to ensure that the sterilization process is completed effectively. Failure to do so may result in items NOT being sterilised properly.
- See the section [UV lamp usage tracking](#) on how to check the run time of your lamps.
- A lamp maintenance schedule sticker is included with this manual. It should be completed when lamps are replaced to assist in tracking the usage of your lamps.

**NOTE: Only use the recommended UV-C light lamps with this device. Using different lamps may result in malfunction of the device.**

When the status light (part 7) is ON continuously, the lamps should also be ON. If not, it indicates that the UV lamps are not working properly. **The device is inoperable and will not be able to sterilise items.** One or more of the lamps should be replaced for the device to be operable again.

## To replace a lamp

- Make sure that the device is unplugged.
- Follow the steps set out in the [Installation Instructions](#) section.
- Check that the status light (part 7) stays on during normal operation.

## Lamp breakage

If a lamp breaks, the breakage should be removed with caution. Fluorescent lamps contain mercury and are a health risk when damaged. Refer to <https://www.epa.gov/cfl/cleaning-broken-cfl> or [www.lamprecycle.org](http://www.lamprecycle.org) for safe cleaning instructions.

The shards of the broken lamps could cause personal injury - take normal precautions for the removal of glass. After handling broken lamps, wash hands thoroughly before eating or using the restroom.

The device will not sterilise items effectively if one or more of the lamps are broken.

## Maintaining the device

The internal surfaces of the box and the lid should be kept clean and free of dust at all times. The internal surfaces reflect the UV-rays which aids in sterilising items and effectivity will degrade if surfaces are contaminated.

To clean the internal surfaces:

Step 1: Make sure that the device is unplugged.

Step 2: Remove the rack (part 3) and the UV lamp (refer to the [Installation Instructions](#) section).

Step 3: Wipe all internal surfaces with a methylated spirits cloth and remove all residue.

Step 4: Leave the device open in a well ventilated area until dry.


Step 5: Replace the UV lamps and rack.

Step 6: Plug in the power cord to the wall socket outlet.

# UV lamp usage tracking - via WiFi

The uvX50 sterilising unit has a built-in UV lamp usage tracker which can be accessed via WiFi.

Follow these steps to access the lamp usage information page:

1. Connect the power cable to a wall socket and switch the power on.
2. Close the sterilising unit door and engage the door latch (part 8).
3. Wait 5 seconds for the device to power up.
4. Open the Wifi connection page on any smartphone. See figure 3 below.
5. Connect to the UVX-50 network.
6. Enter the password: Adminuvx50  
For iPhones - the loading symbol  may continue turning because the network does not have an internet connection.  
For Androids - a warning may be received that an internet connection is not available.
7. Open a web browser (preferably Chrome/Safari) on the smartphone.
8. Enter "192.168.0.5" in the address bar to connect to the lamp usage tracker. See figure 4.

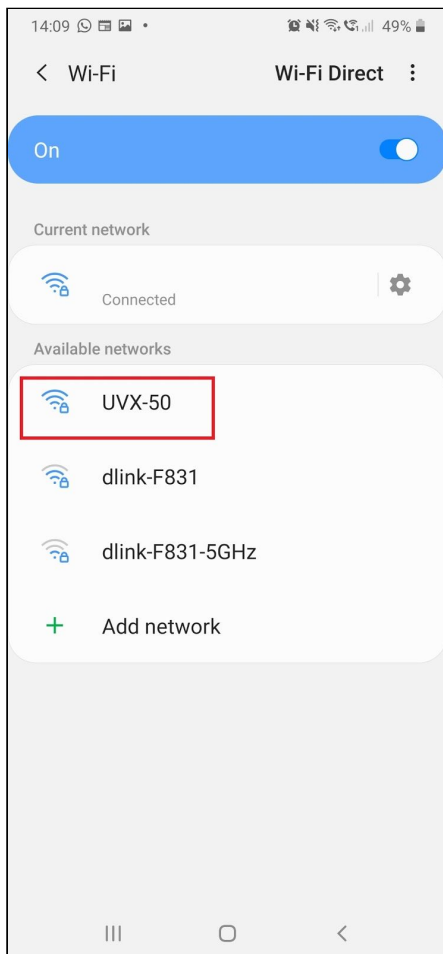


Figure 3: Wifi settings on smartphone

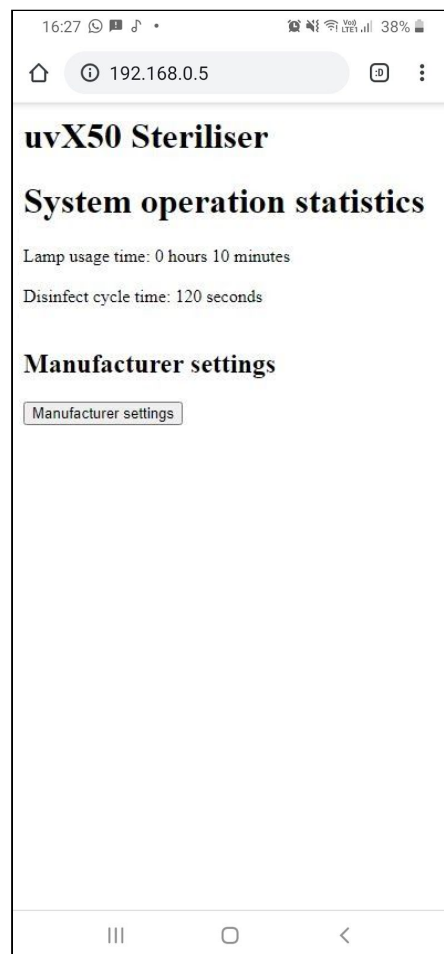


Figure 4: Lamp usage information page on a web browser

# Lamp maintenance log

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Log any lamp replacements here to keep track of when you need to replace your lamps:

	Date	Run time (hrs)	Lamps replaced			
			9W (left)	9W (right)	15W (back)	15W (front)
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						

For more information:

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