



UV222

Far-UVC Light Fixture
Instructions for Use



Read and retain this document for reference on the UV222

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TABLE OF CONTENTS

TABLE OF CONTENTS	2
01 INTRODUCTION.....	3
02 INDICATIONS FOR USE	4
03 PRODUCT DESCRIPTION.....	4
04 SAFETY INFORMATION	7
05 PREPARATION FOR USE.....	8
06 INSTALLATION	9
07 CONFIGURATION	11
08 OPERATING INSTRUCTIONS	16
09 CLEANING, REPLACEMENT & MAINTENANCE	16
10 TROUBLESHOOTING.....	17
11 STORAGE	17
12 DISPOSAL	17
13 REGULATORY & COMPLIANCE INFORMATION.....	17
14 WARRANTY & SERVICE.....	18
15 CONTACT INFORMATION.....	18

01 | INTRODUCTION

About these instructions

The purpose of these instructions is to ensure the correct and safe installation, operation, and maintenance of the UV222 in occupied indoor spaces. Read and retain this document. These Instructions for Use cover how to install and operate the fixture, how to clean and maintain it, and the product's technical and regulatory information.

For questions about ordering, replacement parts, troubleshooting or installation support, contact UV Medico or your authorized distributor (Section 15).

Overview of the UV222

The UV222 is a surface-mounted luminaire that delivers filtered Far-UVC (222 nm) decontamination of air and surfaces from a compact housing that fixes to a separate installation plate on a wall or ceiling. It provides continuous, chemical-free reduction of airborne and surface microorganisms and is suitable for use in occupied spaces when installed and operated as specified. The housing is aluminium/steel finished in white (RAL 9010 mat) with a chemically inert, non-porous quartz-glass lamp window. The fixture is rated IP20, for dry indoor use only. It is intended for but not limited to healthcare facilities (hospitals, clinics, operating and surgery rooms, intensive care units, pharmacies, patient rooms, and laboratories) as well as hospitality, education, workplace, and other occupied indoor settings.

Before installing, ensure an installation-specific exposure assessment has been completed to establish the number of units and their placement in each room, so that performance is optimized and exposure limits are met ([Section 5.3](#)). UV Medico can provide photometric data and simulation support on request.

Far-UVC exposure assessment

Luminaire quantity, positioning, mounting height and configuration are determined by an installation-specific exposure assessment carried out by the qualified personnel responsible for the installation, in accordance with applicable regulations and these instructions. The requirements are set out in Section 5.3.

Overview of Far-UVC (222 nm) technology

Far-UVC is the 200-230 nm part of the germicidal UV-C band (100–280 nm). UV222 operates at 222 nm. At 222 nm it inactivates bacteria, viruses and fungi by damaging their nucleic acids and proteins. The same wavelength is absorbed within the first few micrometers of the skin and the eye, in the outer non-living cell layers, so very little reaches the living cells beneath. This is why 222 nm can be used continuously in occupied rooms. Exposure limits still apply, and are met through correct design, commissioning, and the unit's active safety control (Sections 4 and 7).

UV222 uses a mercury-free krypton-chloride (KrCl) excimer lamp with an optical band-pass filter to deliver a narrow output centered on 222 nm. It contains no mercury, leaves no chemical residue, and generates only negligible ozone under normal room ventilation. The filter removes emissions above ~230 nm, so the wavelength-specific 222 nm exposure limit (ACGIH TLV/ICNIRP) applies. It is integral to every UV222 fixture and is not user-removable or optional; all performance values and safety behavior in these instructions apply to the filtered condition.

02 | INDICATIONS FOR USE

Intended use

The product is intended for continuous decontamination of air and surfaces in occupied indoor environments when installed, commissioned, and operated in accordance with these instructions.

Installation and commissioning shall be performed by qualified personnel in accordance with Section 6.

The product is intended to supplement, not replace, established cleaning and disinfection procedures, ventilation, or required air changes per hour (ACH).

Regulatory compliance (summary)

The product is CE marked.

When installed and commissioned in accordance with these instructions, including the specified safety distances and installation requirements, UV exposure shall remain within the applicable exposure limits specified by ACGIH and ICNIRP for the intended installation.

The applicable standards and regulatory references are listed in [Section 13](#).

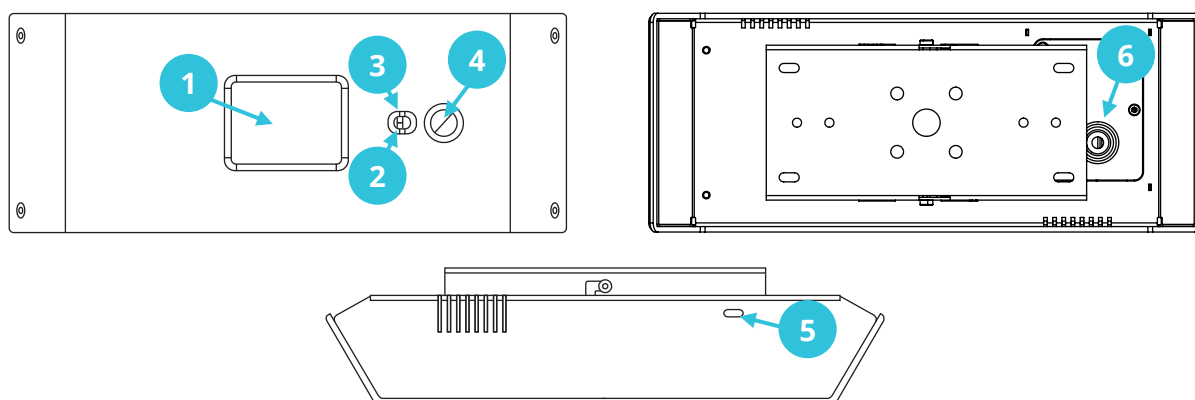
Use recommendations and suitable environments

Intended for indoor spaces with adequate ventilation. Operating conditions:

- Temperature: 0 to +50 °C (32 to 122 °F)
- Humidity: 5–90 % RH, non-condensing
- Mounting: surface-mounted on a wall or ceiling using the supplied installation plate

03 | PRODUCT DESCRIPTION

Feature identification



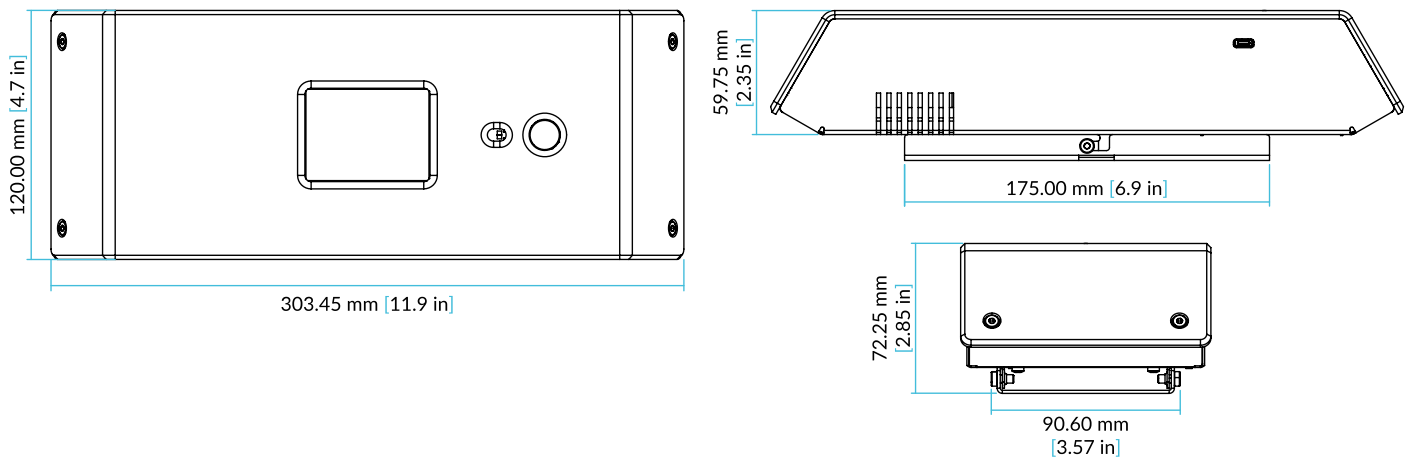
#	Feature	Description
1	Far-UVC lamp	KrCl excimer emitter, 222 nm, with optical band-pass filter
2	Lidar sensor	Measures distance to occupants for safety control
3	Status LED indicator	Multi-color operating and lamp-life status
4	Motion sensor (PIR)	Detects movement in the room for movement-activated operation
5	USB-C port	Commissioning and configuration (on the side of the unit)
6	Mains terminal	100–240 V AC, 50/60 Hz, wired behind the service plate

Product views



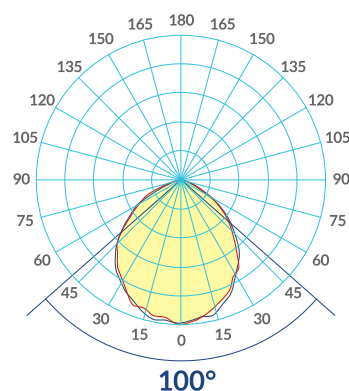
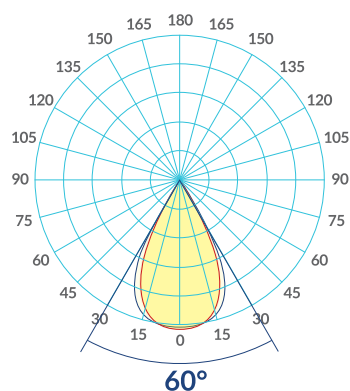
Dimensions and technical drawings

Overall dimensions: 303.45 × 120 × 72.25 mm (11.9 × 4.7 × 2.85 in). The drawings below give the front footprint, the housing depth, and the installation-plate hole pattern.



Optics and beam

Beam angle: **60° or 100°, depending on model**. Typical 222 nm output: **115 mW (60° model) or 70 mW (100° model)**. Minimum mounting height and coverage are determined by the site plan ([Section 5.3](#)).



Technical specifications

Fixture, electrical and environmental

Input voltage	100–240 V AC, 50/60 Hz
Max power consumption	20 W
Operating mode (programmable)	Continuous / duty cycle / motion activated
Sensors	Motion (PIR) and Lidar distance sensor
Dimensions	303.45 × 120 × 72.25 mm (11.9 × 4.7 × 2.85 in)
Weight	1.9 kg (4.19 lbs)
Mounting	Surface-mounted to a wall or ceiling on the supplied installation plate at least 4 mounting pins, 4 mm screws or M4 bolts; the surface and fixings must hold 4× the weight of the unit.
Operating temperature	0 to +50 °C (32 to 122 °F)
Ambient humidity	5–90 % RH, non-condensing
Ingress protection	IP20 — dry indoor locations only

Far-UVC (222 nm) light

Light source	Krypton-chloride (KrCl) excimer lamp
Peak wavelength	222 nm
Beam angle	60° or 100° (model-dependent)
Typical output	115 mW (60°) or 70 mW (100°), typical
Average irradiance (at center)	13.8 $\mu\text{W}/\text{cm}^2$ @ 1 m (60° model); 12.8 $\mu\text{W}/\text{cm}^2$ @ 0.5 m (100° model)
Lamp life	17,500+ hours

04 | SAFETY INFORMATION

WARNING - UV LIGHT

This product emits filtered Far-UVC radiation at 222 nm. Read and follow these instructions before installation or use.

The product is intended for use in occupied spaces only when installed, configured, and commissioned by qualified personnel (see [Section 6](#)) in accordance with the specified mounting height, Safety Off Distance, and other installation requirements in [Section 7](#). UV-C exposure can injure eyes and skin if the product is installed or operated outside the specified mounting height, Safety Off Distance, or other requirements in Section 7. Do not operate the product if the optical filter, protective components, or proximity safety function are damaged, disabled, bypassed, or not operating correctly.

4.1 Warnings & precautions - UV radiation

Install in accordance with the applicable exposure limits and recommendations for the intended installation (see [Section 13](#)). This requires authorized personnel who understand those limits and recommendations and are able to apply them to the specific room, including luminaire placement, minimum distances, and protection from line-of-sight exposure. Reflective ceiling/wall surfaces affect exposure and must be accounted for in that assessment. Mount where the unit cannot readily be tampered with. As an additional safety measure, the unit uses motion (PIR) and Lidar distance sensing to shut the lamp down if a person comes within the programmed safety distances, protecting against overexposure from close-range proximity. These distances are set to standard values at commissioning and may be adjusted to meet customer requirements.

Electrical safety

- Disconnect power from the breaker before installing or servicing.
- Electrical connection must comply with national and local regulations; where required by law, verification should be performed by qualified personnel.
- Verify that the supply is within 100–240 V AC, 50/60 Hz before connecting.
- Do not install if the enclosure is damaged; protect wiring from sharp edges.

Operating environment hazards

- Never touch or clean the lamp glass while energized. Turn off and allow 15 minutes to cool first.
- Do not touch the lamp glass without gloves. Fingerprint oils permanently etch and weaken it.
- Do not place objects, plastic or glass close to the emitting surface; keep the path to the target area clear.
- Avoid prolonged short-range exposure of plastics/wallpaper, which may discolor; avoid exposing plants.

4.2 Precautions

- **Maintenance:** Power to the unit must be off during maintenance. Do not open the unit while powered.
Repair and replacement of safety-relevant parts must be done by authorized personnel only (see Section 14).
- **Safe distances:** Install at the positions, mounting heights and spacing established by the exposure assessment and site plan (see Section 5.3).

- **Signage:** Provide signage at every entrance to the room, positioned so it is visible before entry. Installation and signage must also comply with applicable local regulations and codes; where local requirements differ from the guidance above, the stricter requirement applies.

4.3 Contraindications

- Do not use if the fixture or light source is damaged, or for any non-intended use.

05 | PREPARATION FOR USE

5.1 Unboxing and inspection - packaging content

Unbox in or near the installation room. Inspect for transport damage, defects or tampering; verify labels. Do not remove the protective film on the emitting surface until commissioning. Record each unit's serial number and location.

Packaging content:

- UV222 unit with power lead fitted
- Installation plate (foot plate) and fixing screws
- Far-UVC safety pamphlet
- Light measurement report

5.2 Power requirements and connections

A dedicated 100–240 V AC, 50/60 Hz circuit with a means of isolation is recommended to switch and power-cycle the unit. Maximum power consumption is 20 W. Verify circuit capacity on the main panel and follow local electrical codes. The unit is supplied with a $3 \times 0.75 \text{ mm}^2$ (18 AWG) PVC lead, 95 cm (3.11 ft) long.

5.3 Recommended room layout & placement

Unit count, positions, mounting height, and spacing are specific to each room and are not fixed in these instructions. They are determined for the individual installation by the qualified personnel responsible for the installation (see Section 6), so that coverage is effective while exposure stays within limits. A DIALux simulation can help establish the right position. Follow the resulting installation layout, do not install below the minimum mounting height it specifies, and plan placement before drilling or modifying the mounting surface.

That layout shall be based on an installation-specific exposure assessment carried out by those personnel in accordance with ANSI/IES RP-27.1-22, the applicable exposure limits and regulations for the intended market and installation, and the requirements of these instructions. Install in accordance with the installation layout and specified operating parameters based on such assessment. Any change to luminaire quantity, position, mounting height, orientation or operating configuration requires reassessment of predicted UV exposure.

06 | INSTALLATION

Who can install this product

People with the education, training, and experience necessary to install, configure, and commission the product safely in accordance with these instructions. They shall understand applicable electrical requirements, UV-radiation hazards, exposure limits, and risk-control measures, and be competent to perform and document the required commissioning measurements. Where required by law, they shall hold the necessary license or authorization.

This section gives the generic installation sequence only. The exact cable entry and electrical termination depend on the site. The steps below do not replace local wiring regulations or the project installation layout.

6.1 Before you start

- Confirm the room and mounting position are suitable and match the project site plan ([Section 5.3](#)).
- Confirm the mounting surface and fixings can carry at least four times the weight of the unit, and that there is room for the cable behind it.
- Isolate the supply at the breaker, lock it out, and verify dead before any work.
- Have the product installation manual, the correct tools and PPE, and (for commissioning) a computer with the UV Medico Configuration App to hand.

6.2 Installation

The unit is surface-mounted. It fixes to a separate installation plate (foot plate) that is screwed to a wall or ceiling with at least four mounting pins, 4 mm screws or M4 bolts, preferably close to earthed electrical wiring. Select a position close to the surface or area to be decontaminated.

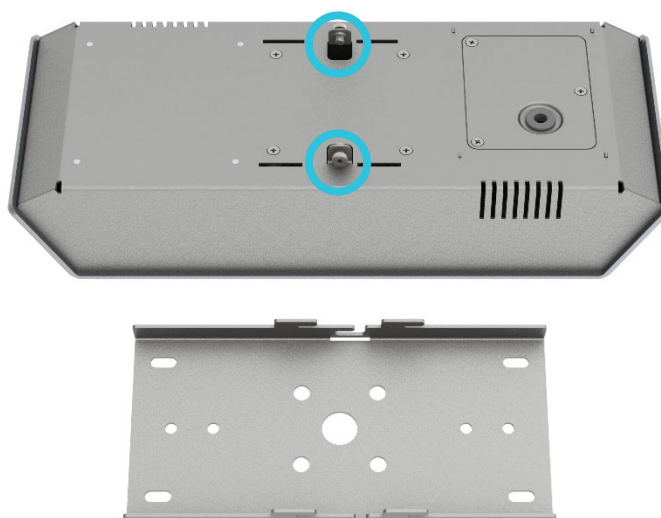
WARNING

Do not remove the protective film or place the room in service until the unit has been configured ([Section 7](#)). The unit is not safe for occupied use until it has been commissioned with the correct safety distances; incorrect settings can lead to overexposure.

Installation is done in two stages: the installation plate is fixed to the surface first, then the unit is wired and mounted onto it.

6.2.1 Fixing the installation plate and mounting the unit

Remove the 2× DIN 912 M4 screws on the bottom sides of the unit and lift the installation plate off the unit.



Hold the plate in position, mark the fixing holes, and fix the plate to the surface with at least four 4 mm screws or M4 bolts suitable for the surface material.

Make the electrical connection in line with local wiring regulations, ensuring correct polarity and protective earth. Protect wiring from sharp edges. The supply must be within the unit rated range (see [Technical specifications](#)).

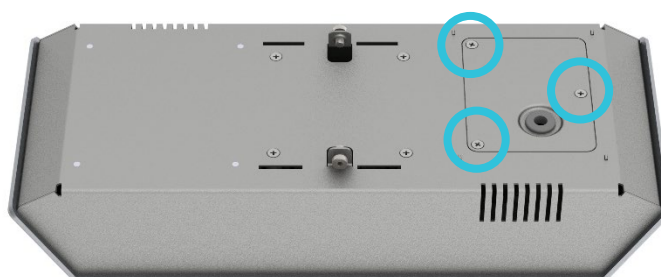
Restore power and confirm normal start-up. Check the status LED ([Section 8.2](#)) to confirm operation. Configure the unit before seating the unit back on the installation plate and refitting the 2× DIN 912 M4 screws.

Confirm the unit is firmly seated on the plate and that all fixings are tight before the unit is placed in service ([Section 7](#)).

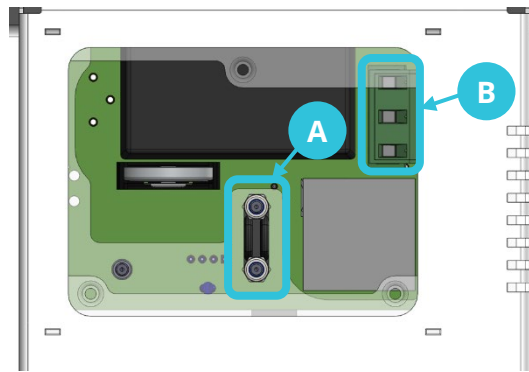
6.2.2 Changing the power cable

Isolate the supply at the breaker, lock it out, and verify dead. Take the unit off the installation plate (foot plate).

Unscrew the 3× DIN 965 screws with a T10 screwdriver and take off the service plate.



Unscrew the 2× M3 nuts holding the cable blockage **(A)**, then detach the connector **(B)** and remove the old cable.



Feed the new cable through the service plate and rewire the connector: phase / hot + (brown or black), neutral / cold – (blue or white), earth (green-yellow or green). The supply must be within the unit rated range (see [Technical specifications](#)).

Screw the cable blockage back, close the backplate with the 3× DIN 965 screws, and refit the unit onto its installation plate. Restore power and confirm normal start-up; check the status LED ([Section 8.2](#)) to confirm operation.

Use only a cable assembly supplied or approved by UV Medico, and check the wiring before the unit is placed in service ([Section 7](#)).

6.3 Handover

- Once operation is confirmed, remove the protective film from the emitting surface.
- Place Far-UVC information signage outside the room, in line of sight.
- Record the serial number, location, and commissioning settings, and hand these instructions to the operator.

07 | CONFIGURATION

The unit is configured before the room is placed in service. Configuration sets the operating schedule, the operating mode, and the safety distances the unit uses to keep 222 nm exposure within the applicable exposure limits for the installation.

This is done with the **UV Medico Configuration App**, which allows for direct setup over USB-C using the app on a Windows computer ([Section 7.1](#)). Required for first-time commissioning and for setting the safety distances.

WARNING

The safety distances can only be set with the Configuration App and must reflect the actual room and mounting height.

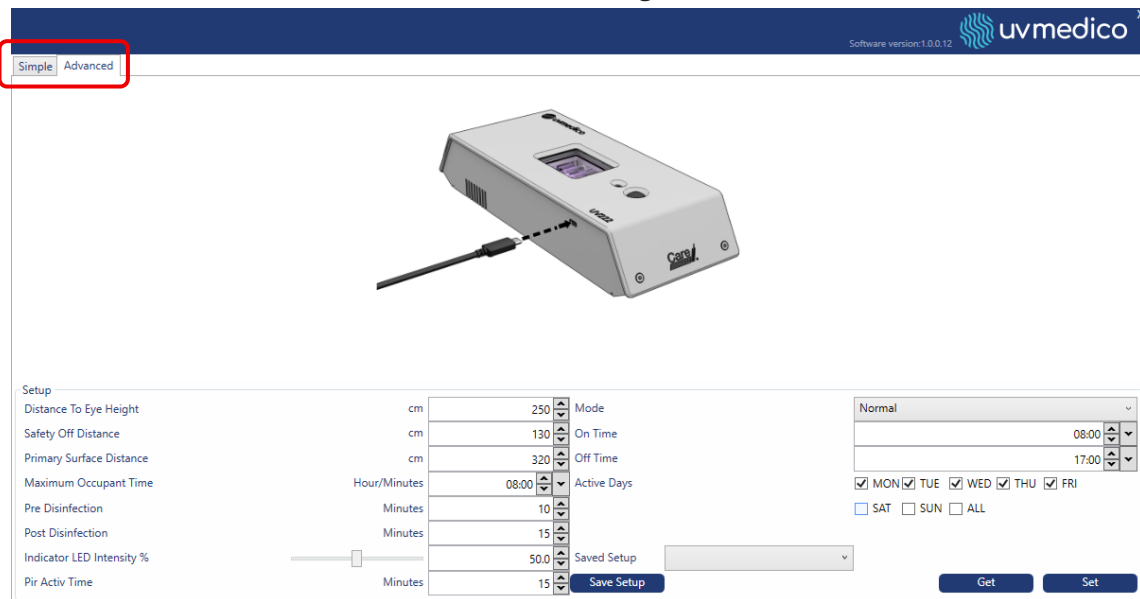
7.1 Configuration with the UV Medico Configuration App

Requirements: a Microsoft Windows computer with the UV Medico Configuration App installed, and a USB-C cable. Contact your distributor for the latest software and firmware. There is a USB-C connection on the side of the unit.



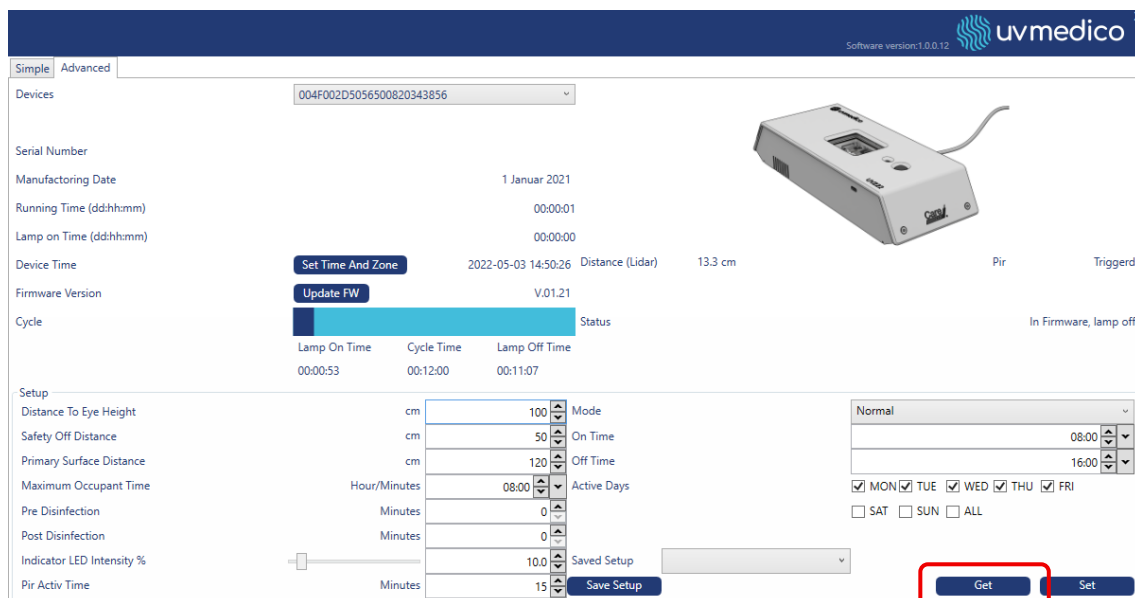
Launch the app by opening “UV Medico Configuration App.exe”. Connect the computer to the unit's USB-C port; the unit appears automatically in the app. The app has two set-up modes:

- **Simple mode** - follow the on-screen instructions - recommended for standard rooms.
- **Advanced mode** - full manual control of all settings, as described below.



Advanced mode - step by step

1. Read current settings: **Get** - if the unit was already installed, press “Get” to read out and display its current settings.



2. Firmware: check the firmware version. If it is not the latest, click **Update FW**, select the correct version, click “Open”, then confirm with “Yes”.

uvmedico Software version: 1.0.0.12

Simple Advanced

Devices: 004F002D5056500820343856

Serial Number

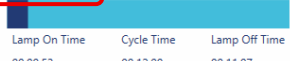
Manufacturing Date: 1 Januar 2021

Running Time (dd:hh:mm): 00:00:01

Lamp on Time (dd:hh:mm): 00:00:00

Device Time: 2022-05-03 14:50:26 Distance (Lidar): 13.3 cm Pir Triggerd

Firmware Version: V.01.21

Cycle:  Status: In Firmware, lamp off

Setup:

Distance To Eye Height: cm 100 Mode: Normal

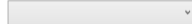
Safety Off Distance: cm 50 On Time: 08:00

Primary Surface Distance: cm 120 Off Time: 16:00

Maximum Occupant Time: Hour/Minutes 08:00 Active Days: ☒ MON ☒ TUE ☒ WED ☒ THU ☒ FRI

Pre Disinfection: Minutes 0 ☐ SAT ☐ SUN ☐ ALL

Post Disinfection: Minutes 0

Indicator LED Intensity %: 10.0 Saved Setup: 

Pir Active Time: Minutes 15 Save Setup Get Set

uvmedico Software version: 1.0.0.12

Simple Advanced

Devices: 004F002D5056500820343856

Serial Number

Manufacturing Date

Running Time (dd:hh:mm)

Lamp on Time (dd:hh:mm)

Device Time

Firmware Version

Cycle

Setup:

Distance To Eye Height

Safety Off Distance

Primary Surface Distance

Maximum Occupant Time

Pre Disinfection

Post Disinfection

Indicator LED Intensity %

Pir Active Time

Open

Program Files (x86) > UV Medico > UV Medico Configuration App > Firmwares

Search Firmwares

Name	Date modified	Type	Size
Firmware_UVM_1_07.bin	06/07/2021 15:18	BIN File	110 KB
Firmware_UVM_1_11.bin	09/11/2021 09:21	BIN File	112 KB
Firmware_UVM_1_12.bin	24/11/2021 09:50	BIN File	112 KB
Firmware_UVM_1_13.bin	08/12/2021 22:13	BIN File	112 KB
Firmware_UVM_1_14.bin	15/12/2021 10:42	BIN File	113 KB
Firmware_UVM_1_15.bin	20/12/2021 10:51	BIN File	112 KB
Firmware_UVM_1_17.bin	10/01/2022 10:32	BIN File	112 KB
Firmware_UVM_1_18.bin	19/01/2022 13:46	BIN File	126 KB
Firmware_UVM_1_20.bin	16/03/2022 09:44	BIN File	127 KB
Firmware_UVM_1_21.bin	23/03/2022 09:39	BIN File	127 KB

File name:  Firmwares (BIN) (*.BIN)

Open Cancel

3. Time: press **Set Time and Zone** - the unit's date and time are set to match the computer.

uvmedico Software version: 1.0.0.12

Simple Advanced

Devices: 004F002D5056500820343856

Serial Number

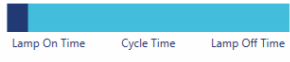
Manufacturing Date: 1 Januar 2021

Running Time (dd:hh:mm): 00:00:01

Lamp on Time (dd:hh:mm): 00:00:00

Device Time: 2022-05-03 14:50:26 Distance (Lidar): 13.3 cm Pir Triggerd

Firmware Version: V.01.21

Cycle:  Status: In Firmware, lamp off

Setup:

Distance To Eye Height: cm 100 Mode: Normal

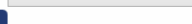
Safety Off Distance: cm 50 On Time: 08:00

Primary Surface Distance: cm 120 Off Time: 16:00

Maximum Occupant Time: Hour/Minutes 08:00 Active Days: ☒ MON ☒ TUE ☒ WED ☒ THU ☒ FRI

Pre Disinfection: Minutes 0 ☐ SAT ☐ SUN ☐ ALL

Post Disinfection: Minutes 0

Indicator LED Intensity %: 10.0 Saved Setup: 

Pir Active Time: Minutes 15 Save Setup Get Set

4. Duty cycle: set **On time** (when the room starts being occupied) and **Off time** (when it is no longer occupied).
5. Set the **Maximum Occupant Time** - how long the room is occupied during the duty cycle.
6. Optional: enable a pre- and post-decontamination cycle; the unit then runs before and after the duty cycle.
7. Set the multicolor status-LED intensity to the desired level.

Software version: 1.0.0.12

uvmedico

Simple Advanced

Devices: 004F002D5056500820343856

Serial Number

Manufacturing Date: 1 Januar 2021

Running Time (dd:hh:mm): 00:00:01

Lamp on Time (dd:hh:mm): 00:00:00

Device Time: 2022-05-03 14:50:26 Distance (Lidar): 13.3 cm Pir: Triggerd

Firmware Version: V.01.21

Cycle: In Firmware, lamp off

Set Time And Zone: 2022-05-03 14:50:26

Update FW

Status

Lamp On Time: 00:00:53 Cycle Time: 00:12:00 Lamp Off Time: 00:11:07

Setup

Distance To Eye Height: cm 100 Mode: Normal

Safety Off Distance: cm 50 On Time: 08:00

Primary Surface Distance: cm 120 Off Time: 16:00

Maximum Occupant Time: Hour/Minutes 08:00 Active Days: ☒ MON ☒ TUE ☒ WED ☒ THU ☒ FRI

Pre Disinfection: Minutes 0 ☐ SAT ☐ SUN ☐ ALL

Post Disinfection: Minutes 0

Indicator LED Intensity %: 10.0 Saved Setup: Save Setup

Pir Active Time: Minutes 15 Get Set

8. Select the operating **Mode**:
 - **Normal**: runs to the programmed settings.
 - **Only on when movement**: runs only when the sensor detects movement; "PIR active time" sets how many minutes the cycle runs after movement is detected.
 - **Always on (safety-off distance only)**: runs continuously and turns off only when something comes closer than the safety-off distance. (Select this mode only where qualified personnel manually keep operation within the applicable exposure limit.)
9. Set the three distances (in centimeters): **Distance to eye height** (closest distance from the unit to a person's eyes, including people walking around); **Safety-off distance** (closest a person may get before the unit turns off; it resumes 10 s after the distance is regained); **Primary surface distance** (distance from the unit to the primary target surface).

Software version: 1.0.0.12

Devices: 004F002D5056500820343856

Serial Number

Manufacturing Date: 1 Januar 2021

Running Time (dd:hh:mm): 00:00:01

Lamp on Time (dd:hh:mm): 00:00:00

Device Time: 2022-05-03 14:50:26

Firmware Version: V.01.21

Cycle: Status: In Firmware, lamp off

Distance (Lidar): 13.3 cm

Pir

Triggerd

Set Time And Zone

Update FW

Lamp On Time: 00:00:53

Cycle Time: 00:12:00

Lamp Off Time: 00:11:07

Setup

Distance To Eye Height: cm 100

Safety Off Distance: cm 50

Primary Surface Distance: cm 120

Maximum Occupant Time: Hour/Minutes 08:00

Pre Disinfection: Minutes 0

Post Disinfection: Minutes 0

Indicator LED Intensity %: 10.0

Pir Activ Time: Minutes 15

Mode: Normal

On Time: 08:00

Off Time: 16:00

Active Days: ☒ MON ☒ TUE ☒ WED ☒ THU ☒ FRI ☐ SAT ☐ SUN ☐ ALL

Saved Setup

Save Setup

Get

Set

10. Optional: **Save Setup** as a named template to reuse for units with similar placement.

11. Press **Set** to upload the settings to the unit. The unit is then ready to test and start up.

Software version: 1.0.0.12

Devices: 004F002D5056500820343856

Serial Number

Manufacturing Date: 1 Januar 2021

Running Time (dd:hh:mm): 00:00:01

Lamp on Time (dd:hh:mm): 00:00:00

Device Time: 2022-05-03 14:50:26

Firmware Version: V.01.21

Cycle: Status: In Firmware, lamp off

Distance (Lidar): 13.3 cm

Pir

Triggerd

Set Time And Zone

Update FW

Lamp On Time: 00:00:53

Cycle Time: 00:12:00

Lamp Off Time: 00:11:07

Setup

Distance To Eye Height: cm 100

Safety Off Distance: cm 50

Primary Surface Distance: cm 120

Maximum Occupant Time: Hour/Minutes 08:00

Pre Disinfection: Minutes 0

Post Disinfection: Minutes 0

Indicator LED Intensity %: 10.0

Pir Activ Time: Minutes 15

Mode: Normal

On Time: 08:00

Off Time: 16:00

Active Days: ☒ MON ☒ TUE ☒ WED ☒ THU ☒ FRI ☐ SAT ☐ SUN ☐ ALL

Saved Setup

Save Setup

Get

Set

How the unit stays within limits

During configuration, the installer enters the installation parameters. After configuration, the unit automatically calculates the required duty cycle to keep the 222 nm exposure within the applicable exposure limit (ACGIH TLV / ICNIRP). If a person comes closer than the programmed eye-height or safety-off distance during a cycle, the unit stops and resumes 10 seconds after the distance is cleared. If movement is detected during a pre-/post-decontamination cycle, the unit restarts its duty cycle. If the room's use, occupancy or layout changes, the unit must be reprogrammed - contact the installer.

Test mode

Right-click the image of the unit in the app to open test mode. Activating the 222 light source here runs the unit with no safety control - use only to verify the light source, and only when no person can be exposed. LED mode offers Normal, LED Off, and an RGBW LED test cycle. Un-tick "Enable" to return to normal configuration.

08 | OPERATING INSTRUCTIONS

8.1 Device control and modes

After configuration the unit runs automatically according to the selected mode (Section 7.1). The available modes are **Normal**, **Only on when movement**, and **Always on (safety-off distance only)**.

8.2 Status LED indicator

LED	Meaning
No light	No power / LED brightness set to 0
Cyan, continuous	Pre-/post-decontamination light source on
Magenta, continuous	Light source is on
Blue, continuous	In-cycle UV off
Green, continuous	Out of cycle
Flashing red	Object too close
Flashing magenta	Movement detected, light source on
Red-blue-green (loop)	Recommended change of Far UV-C light source
Flashing yellow	Firmware updating

09 | CLEANING, REPLACEMENT & MAINTENANCE

9.1 Routine cleaning of external surfaces

Clean external surfaces with a soft, non-abrasive, anti-static microfiber cloth and a material-compatible, non-aggressive agent. Do not spray liquids on the emitting surface; do not pressure-wash or immerse.

9.2 Material compatibility

Exterior component	Material
Housing	Aluminium / Steel, white (RAL 9010 mat)
Lamp window	Quartz glass (chemically inert, non-porous, high-temperature resistant)

9.3 Inspection and replacement of components

The Far-UVC light source is not user-serviceable and must be replaced by UV Medico or an authorized service partner. Arrange replacement when the status LED shows the red-blue-green loop. Do not touch the lamp glass; fingerprint oils permanently etch and weaken it. Contact UV Medico for parts and service (Section 15).

The unit contains an internal 3 V CR2032 battery that retains the settings; it is reached behind the service plate and may be replaced by an authorized installer. Repair and replacement of safety-relevant parts must be done by authorized personnel only (see Section 14).

10 | TROUBLESHOOTING

Symptom	Cause	Action
Unit does not light up	No power/wiring	Check supply and cable; verify installation
Unit flickers	Installation fault	Verify installation; if unresolved, contact UV Medico
Unit does not keep time when power is off	Depleted internal battery	Contact UV Medico or authorized personnel to replace the internal CR2032 battery

If a fault persists or recurs, disconnect power and contact UV Medico.

11 | STORAGE

Keep the unit and accessories in the original packaging for transport or long-term storage. Store within the operating environment limits and protect from moisture and impact.

12 | DISPOSAL

Dispose of in accordance with local regulations for electrical and electronic waste. The unit separates into four streams: metal, plastic, electronics, and light source. KrCl excimer lamps are mercury-free and contain no hazardous materials. Consult your local waste authority or return to UV Medico for recycling.

13 | REGULATORY & COMPLIANCE INFORMATION

The UV222 is a CE-marked, indoor germicidal luminaire combining filtered 222 nm UVC irradiation for environmental air and surface decontamination. It is designed for installation in controlled indoor environments, including healthcare facilities, laboratories and other occupied indoor environments.

Product conformity and safety are assessed using the applicable requirements of:

- EN IEC 60598-1: Luminaires: general requirements and tests.
- EN IEC 60598-2-1 or EN IEC 60598-2-2: particular luminaire requirements, according to whether installation is surface-mounted or recessed.
- EN IEC 62471-6:2022: photobiological safety of ultraviolet lamp products.
- ISO 15858:2016: UVC-device safety information and permissible human exposure, where applicable to the installation and supported by the product risk assessment.
- IEC PAS 63313:2021: supplementary germicidal UVC safety guidance.
- ANSI/IES RP-27.1-22: recommended practice for photobiological safety of germicidal UV, applied in the installation-specific exposure assessment (Section 5.3).
- Applicable UV exposure limits and guidelines, including ICNIRP exposure guidelines and ACGIH Threshold Limit Values (TLVs), as applicable to the intended market and installation.

UV Medico's quality and environmental management systems are certified to ISO 9001:2015 and ISO 14001:2015.

14 | WARRANTY & SERVICE

2-year warranty from invoice date, regardless of hours used. For more details, refer to UV Medico's general terms and conditions.

Replacement parts

Part	Description
Far-UVC light source	KrCl 222 nm replacement light source for the UV222, fitted by UV Medico or an authorized service partner

Order replacement parts or request service from UV Medico or your authorized distributor (Section 15). Provide product serial number when ordering.

Authorized Repair Only

Repair, modification, or replacement of the UV source, optical components, driver, enclosure seals, or any other safety-relevant part must only be performed by UV Medico A/S or a service partner authorized in writing by UV Medico A/S, as such work may require re-verification before the unit is returned to service. Work carried out by unauthorized parties voids the warranty, may invalidate the EU Declaration of Conformity for that unit, and is undertaken entirely at the owner's own risk.

15 | CONTACT INFORMATION

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