



Vertex 222

Far-UVC Light Fixture
Instructions for Use



Read and retain this document for reference on Vertex 222

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01 | INTRODUCTION

About these instructions

The purpose of these instructions is to ensure the correct and safe installation, operation, and maintenance of the Vertex 222 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 Vertex 222

The Vertex 222 is a luminaire that delivers filtered Far-UVC (222 nm) decontamination of air and surfaces from a vertical column that emits from three faces plus a downward-facing aperture at the base, and has a wide emission angle for broad room coverage. It can be fixed to a surface or used as a mobile unit on a stand (optional accessory). 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 aluminum with chemically inert, non-porous quartz-glass lamp windows. Rated IP54, it is intended for but not limited to healthcare facilities, cleanrooms, industrial sites and other indoor areas where microbial contamination is a concern.

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). The fixture 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 ([Section 4](#) and [Section 7](#)).

The fixture 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 emission above ~230 nm, so the wavelength-specific 222 nm exposure limit (ACGIH TLV/ICNIRP) applies. It is integral to every 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](#).

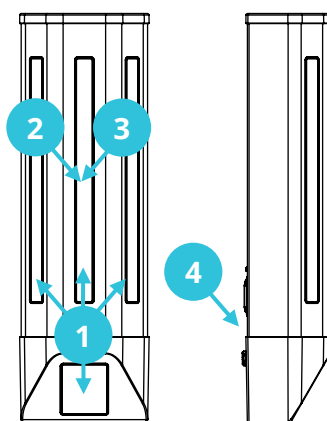
Use recommendations and suitable environments

Intended for indoor spaces with adequate ventilation. Operating conditions:

- Temperature: 0 to +40 °C (32 to 104 °F)
- Humidity: 5-90 % RH, non-condensing
- Ingress protection: IP54
- Mounting: free-standing on a stand (optional accessory), or fixed to a surface

03 | PRODUCT DESCRIPTION

Feature identification



#	Feature	Description
1	Far-UVC lamps	KrCl excimer emitters, 222 nm, with optical band-pass filters; three column apertures plus a downward-facing aperture at the base
2	Radar sensor	Measures movement and distance to the occupants of the room for safety control
3	Status LED indicator	Multi-color operating and lamp-life status
4	USB-C port	Commissioning and configuration

Product views



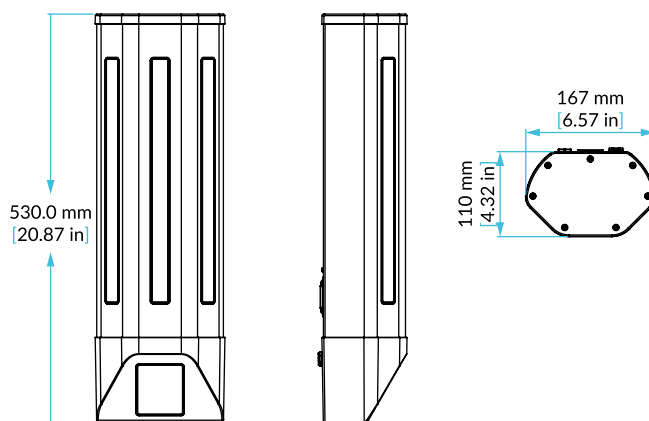
Front view



Side view

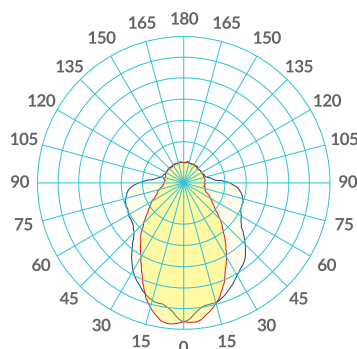
Dimensions and technical drawings

Overall dimensions: 167 × 110 × 530 mm (6.57 × 4.32 × 20.87 in). The drawings below give the product footprint and height, and the 45°/60° emission geometry.



Optics and beam

Typical 222 nm output: **460 mW**. Minimum mounting height and coverage are determined by the site plan ([Section 5.3](#)).



Technical specifications

Fixture, electrical and environmental

Input voltage	90–264 V AC
Max power consumption	120 W
Operating mode (programmable)	Continuous / duty cycle / motion activated
Sensors	Radar (movement + distance)
Dimensions	167 x 110 x 530 mm (6.57 x 4.32 x 20.87 in)
Weight	4.5 kg (9.9 lb)
Mounting	Free-standing on a stand (optional accessory) or fixed to a surface. When surface-fixed, at least 4 mounting pins; the surface and fixings must hold 4× the weight of the unit (Section 6.2)
Ingress protection	IP54
Operating temperature	0 to +40 °C (32 to 104 °F)
Ambient humidity	5–90 % RH, non-condensing

Far-UVC (222 nm) light

Light source	Krypton-chloride (KrCl) excimer lamp
Peak wavelength	222 nm
Total radiant output	460 mW
Peak irradiance	13.8 $\mu\text{W}/\text{cm}^2$ at 1.0 m

Far-UVC (222 nm) light

Lamp life	17,500+ hours
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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 5.3 and [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 Sections 5.3 and 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 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 and wall surfaces affect exposure and must be accounted for in that assessment. Position the unit where it cannot readily be knocked over or tampered with. As an additional safety measure, the unit uses radar movement and distance sensing.

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 90–264 V AC 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. Record each unit's serial number and location.

Packaging content:

- Vertex 222 unit with power lead fitted
- Country-specific power cable with 90° angled plug
- Far-UVC safety pamphlet

5.2 Power requirements and connections

A dedicated 90–264 V AC circuit with a means of isolation is recommended to switch and power-cycle the unit. Maximum power consumption is 120 W. Verify circuit capacity on the main panel and follow local electrical codes. The unit is supplied with a country-specific power cable according to customer requirements:

- China, Australia: AS3112 plug, 2,500 x 1.00 mm² (17 AWG)
- USA: NEMA 5-15P plug, 2,290 x, 0.75 mm² (18 AWG)
- EU: Type F, CEE 7/7, 2,000 x 0.75 mm² (18 AWG)

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 simulation can help establish the right position, and the unit is designed to be placed in a corner or used alongside other UV222 fixtures. Follow the resulting installation layout 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 placement and electrical connection 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 floor or mounting surface can carry the unit safely, and that the unit cannot be knocked over in normal use.
- Keep the unit unplugged until it is positioned and secured.
- Plan the cable routing so that the power cable and any other cabling do not create a trip hazard.
- Have these instructions, the correct tools and PPE, and (for commissioning) a computer with the UV Medico Configuration App to hand.

6.2 Installation

The Vertex 222 can be mounted on a stand (optional accessory) or fixed to a surface. A stand must be able to hold at least 6 kg.

Where a fixed installation is required, the unit must be attached to a surface by mounting it on a Vesa 75x75 bracket with at least four mounting pins. The unit should be placed within reach of an earthed socket. When mounted overhead, the mounting pins and the surface must be strong enough to hold four times the weight of the unit.

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.

6.2.1 Positioning and connecting the unit for installation

Attach the unit to the stand or bracket via its VESA 75×75 interface, following the stand manufacturer's instructions. If a fixed installation is needed, attach a VESA 75×75 bracket to the back of the unit. Check that the USB-C port on the back remains accessible; if the bracket blocks it, configure the unit ([Section 7](#)) before mounting.

Position the unit so the emitting faces have an unobstructed path to the target area, and so cabling does not create a trip hazard. Once the unit is positioned and secured, plug it in and confirm normal start-up. Check the status LED ([Section 8.2](#)) to confirm operation.

Confirm the unit is stable and cannot be tipped over before it is placed in service ([Section 7](#)).

6.3 Handover

- Once configuration and operation are 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.

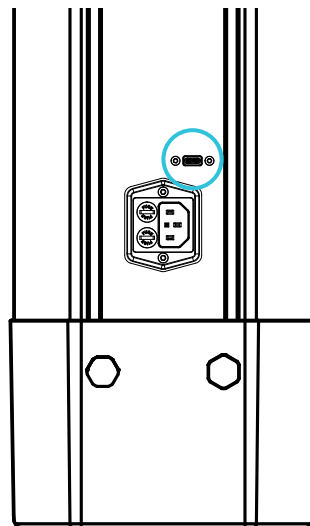
This is done with the **UV Medico Configuration App**, which allows for direct setup over USB-C using the app on a Windows computer ([Section 7.1](#)). Required for first-time commissioning and for setting the safety distances.

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

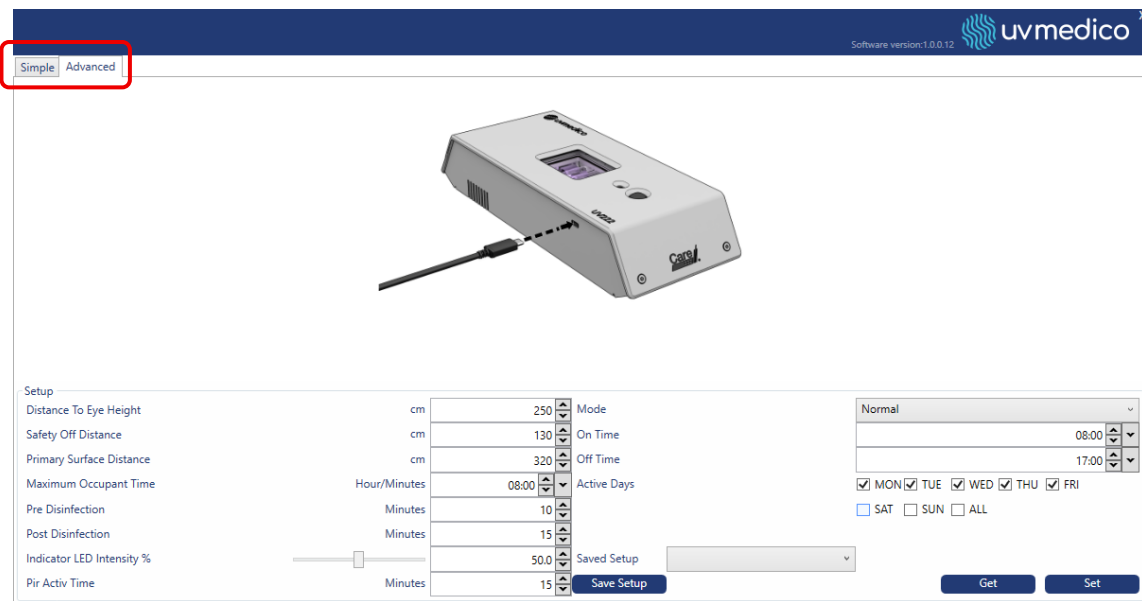
Requirements: a Microsoft Windows computer with the UV Medico Configuration App installed, and a USB-C cable (not supplied). Contact UV Medico or your distributor for the latest software and firmware. There is a USB-C connection on the back of the unit:



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.

Screenshots are representative; the Configuration App is common to all UV222 models.



Software version: 1.0.0.12

uvmedico

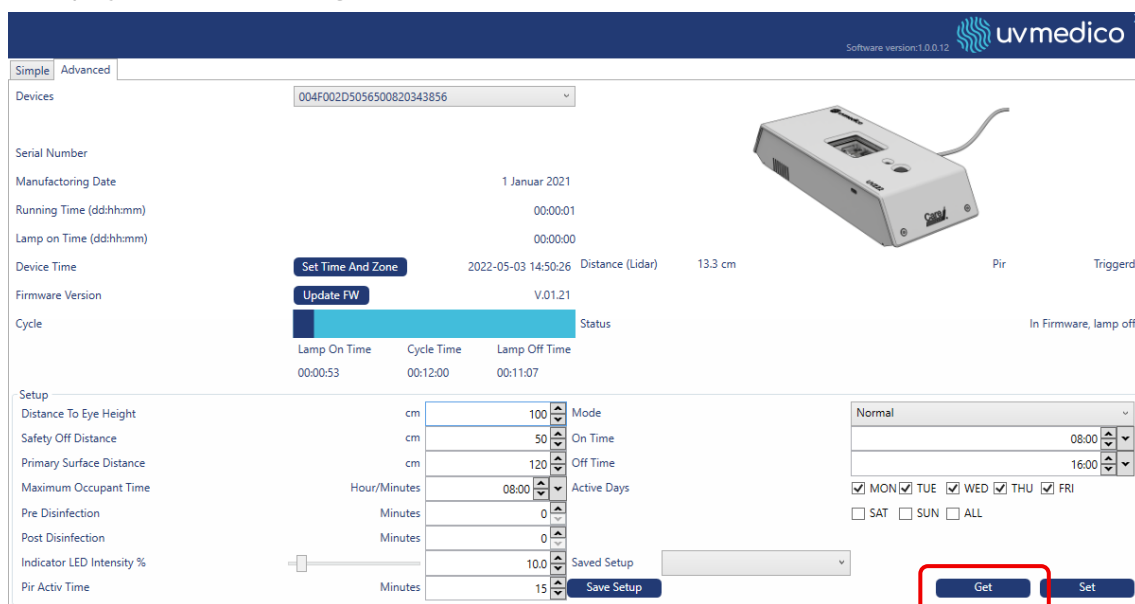
Simple Advanced

Setup

Distance To Eye Height	cm	250	Mode	Normal
Safety Off Distance	cm	130	On Time	08:00
Primary Surface Distance	cm	320	Off Time	17:00
Maximum Occupant Time	Hour/Minutes	08:00	Active Days	☒ MON ☒ TUE ☒ WED ☒ THU ☒ FRI
Pre Disinfection	Minutes	10	☐ SAT ☐ SUN ☐ ALL	
Post Disinfection	Minutes	15		
Indicator LED Intensity %		50.0	Saved Setup	
Pir Activ Time	Minutes	15	Save Setup	Get Set

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.



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

Set Time And Zone

2022-05-03 14:50:26

Distance (Lidar)

13.3 cm

Pir

Triggered

Firmware Version

Update FW

V.01.21

Cycle

Status

In Firmware, lamp off

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	
Pir Activ Time	Minutes	15	Save Setup	Get Set

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".

The top screenshot shows the 'Advanced' settings page for a device. The 'Set Time And Zone' button is highlighted in red. The 'Update FW' button is also highlighted in red. The 'Firmware Version' is V.01.21. The 'Cycle' section shows a bar chart for Lamp On Time, Cycle Time, and Lamp Off Time. The 'Setup' section includes fields for Distance to Eye Height, Safety Off Distance, Primary Surface Distance, Maximum Occupant Time, Pre Disinfection, Post Disinfection, Indicator LED Intensity %, and Pir Active Time. The 'Mode' is set to Normal, and the 'Active Days' are MON, TUE, WED, THU, and FRI.

The bottom screenshot shows a file explorer window titled 'Open'. The file 'Firmware_UVM_1_21.bin' is selected. The 'Open' button is highlighted in red. The file explorer shows a list of files with columns for Name, Date modified, Type, and Size.

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

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: [Bar chart showing Lamp On Time, Cycle Time, and Lamp Off Time]

Setup:

- Distance To Eye Height: 100 cm
- Safety Off Distance: 50 cm
- Primary Surface Distance: 120 cm
- Maximum Occupant Time: 08:00
- Pre Disinfection: 0 Minutes
- Post Disinfection: 0 Minutes
- Indicator LED Intensity %: 10.0
- Pir Active Time: 15 Minutes
- Mode: Normal
- On Time: 08:00
- Off Time: 16:00
- Active Days: MON, TUE, WED, THU, FRI

Buttons: Set Time And Zone, Update FW, Save Setup, Get, Set

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

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: [Bar chart showing Lamp On Time, Cycle Time, and Lamp Off Time]

Setup:

- Distance To Eye Height: 100 cm
- Safety Off Distance: 50 cm
- Primary Surface Distance: 120 cm
- Maximum Occupant Time: 08:00
- Pre Disinfection: 0 Minutes
- Post Disinfection: 0 Minutes
- Indicator LED Intensity %: 10.0
- Pir Active Time: 15 Minutes
- Mode: Normal
- On Time: 08:00
- Off Time: 16:00
- Active Days: MON, TUE, WED, THU, FRI

Buttons: Set Time And Zone, Update FW, Save Setup, Get, Set

- 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.)
- 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: Lamp On Time 00:00:53, Cycle Time 00:12:00, Lamp Off Time 00:11:07

Distance (Lidar): 13.3 cm

Pir: Triggered

Status: In Firmware, lamp off

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 Active 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: [Dropdown]
- 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: Lamp On Time 00:00:53, Cycle Time 00:12:00, Lamp Off Time 00:11:07

Distance (Lidar): 13.3 cm

Pir: Triggered

Status: In Firmware, lamp off

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 Active 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: [Dropdown]
- 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-UVC 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 cloth and a material-compatible, non-aggressive agent. Do not immerse the unit.

9.2 Material compatibility

Exterior component	Material
Housing	Aluminum
Lamp windows	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 with bare hands; fingerprint oils permanently etch and weaken it. Contact UV Medico for parts and service ([Section 15](#)).

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 Vertex 222 is a CE-marked germicidal luminaire combining filtered 222 nm Far-UVC irradiation for environmental air and surface decontamination. It is intended for healthcare facilities, cleanrooms, industrial sites and other indoor areas where microbial contamination is a concern.

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 60598-2-4: particular luminaire requirements, according to whether installation is surface-mounted or portable.
- 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 Vertex 222, 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

UV Medico A/S, Søren Frichs Vej 50, 8230 Åbyhøj, Denmark

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