UV Smart

D25+

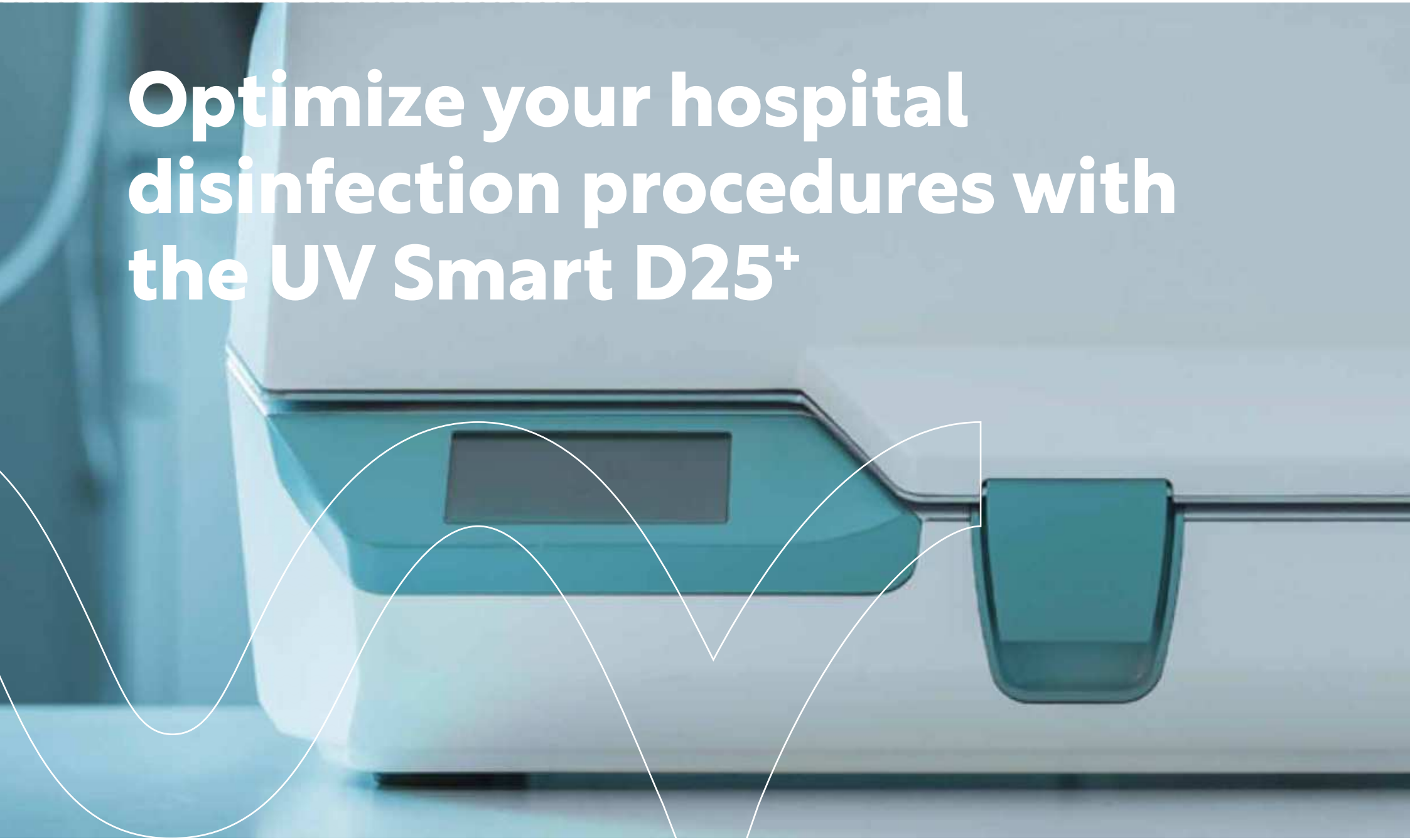
25 seconds to disinfect
invasive and non-invasive medical devices



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Optimize your hospital disinfection procedures with the UV Smart D25+

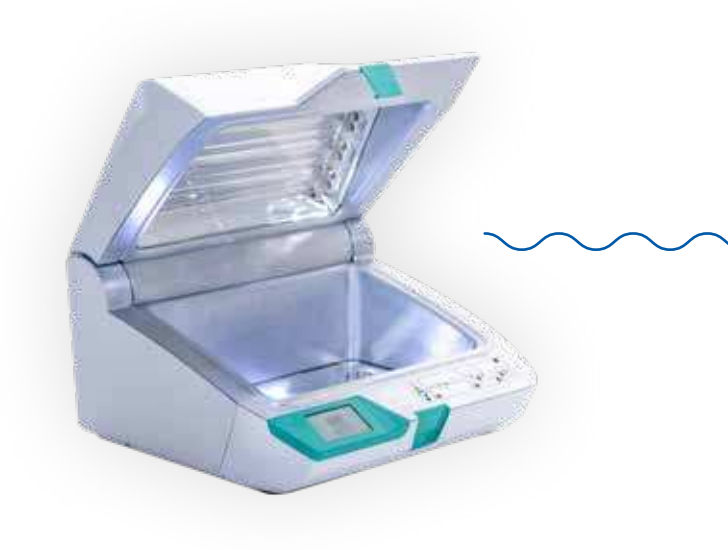




UV Smart D25+

The UV Smart D25+, powered by Impelux™, a UV-C light technology, is a versatile and robust disinfection device. This disinfection device is suitable for a wide range of medical departments including gynecology, ENT, emergency rooms, neonatology, and BioMed departements, among others.

The UV Smart D25+ is designed to safely and efficiently disinfect medical equipment such as wireless ultrasound probes and rigid ENT endoscopes as well as handheld non-invasive medical devices.[1]



Devices suitable for disinfection

Invasive devices

- Wireless Convex Probes
- Wireless Linear Probes
- Wireless Phased Array Probes
- Wireless Endocavitary Probes
- Wireless Sector Probes
- Wireless Micro-Convex Probes
- Wireless Doppler Probes
- Ridgid ENT endoscopes

Non-invasive devices

- Wireless ultrasound transducers
- Infusion pumps
- Thermometers
- Stethoscopes
- DECT phones
- Surveillance monitoring equipment
- Blood pressure pumps
- Telemetry equipment
- Glucose meters
- Reflex hammers
- Comedone expressors
- Badges
- Tablets
- Cameras
- CO-Oximeters
- Pagers
- Remote controls
- RFID tags
- Smartphones
- Keys
- Glasses
- And more

[1] The UV Smart D25 V2 is intended to reduce micro-organism count by at least log-4 on outer surfaces of (non)invasive medical devices without working channels and other medical equipment. In case of invasive medical devices without working channels, this is achieved after the equipment is pre-cleaned and checked according to the manufacturer's protocol.



Advantages of the UV Smart D25⁺

Lightning fast
Rapid disinfection in just 25 seconds.

Automated Disinfection
Consistent, reliable, and traceable results with each use.

Sustainable and Cost-efficient
No use of water, wipes, chemicals, and other consumables during disinfection.

Versatile Design
Easily fits into current workflows and can be deployed In various departments.

Tried and Trusted
CE certified medical device class IIa, with efficacy validated and supported by clinical research.

How to use the UV Smart D25⁺ disinfection device

Prepare



STEP 1

Remove visible debris from the medical item(s).

Start the process



STEP 2

Place item(s) inside the D25⁺ and close the lid manually.

Disinfect hands



STEP 3

Disinfect hands according to protocol. Lid opens automatically*.

Done



STEP 4

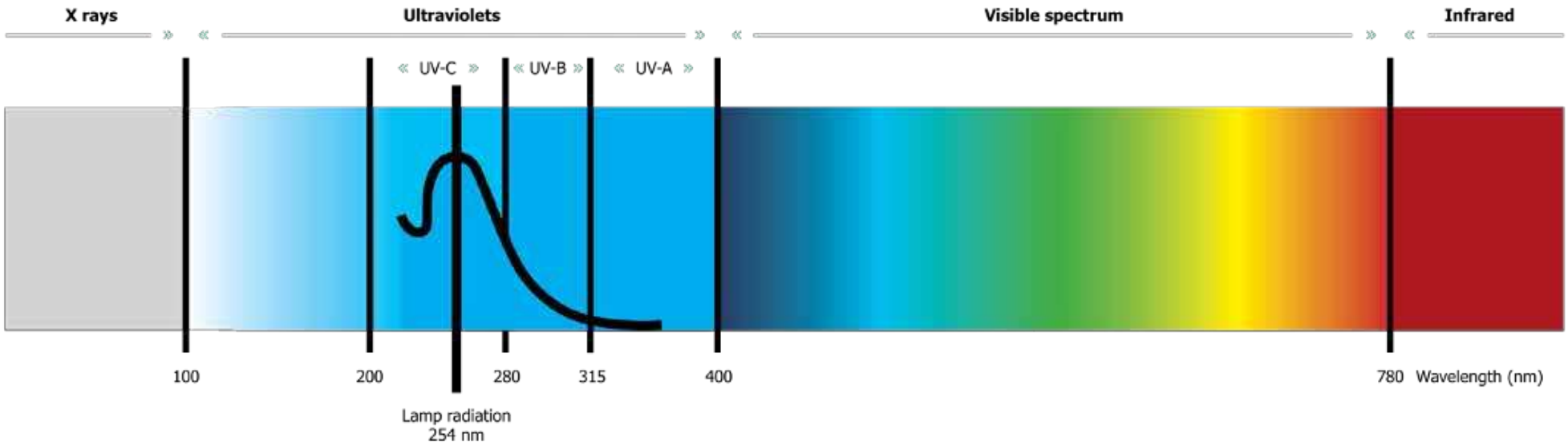
Take out disinfected equipment/items.

* Green light = successful
* Red light = unsuccessful, please repeat disinfection cycle

UV-C light as disinfection method

UV-C is electromagnetic radiation with a wavelength in the part of the ultraviolet spectrum spanning the 200–280nm range, reaching peak effectiveness at a wavelength of 254nm. This short wavelength causes DNA and RNA to break, thereby inactivating microorganisms and rendering them harmless, unable to reproduce. Thanks to this germicidal property UV-C is an effective method for rapid disinfection.

What is UV-C Light?

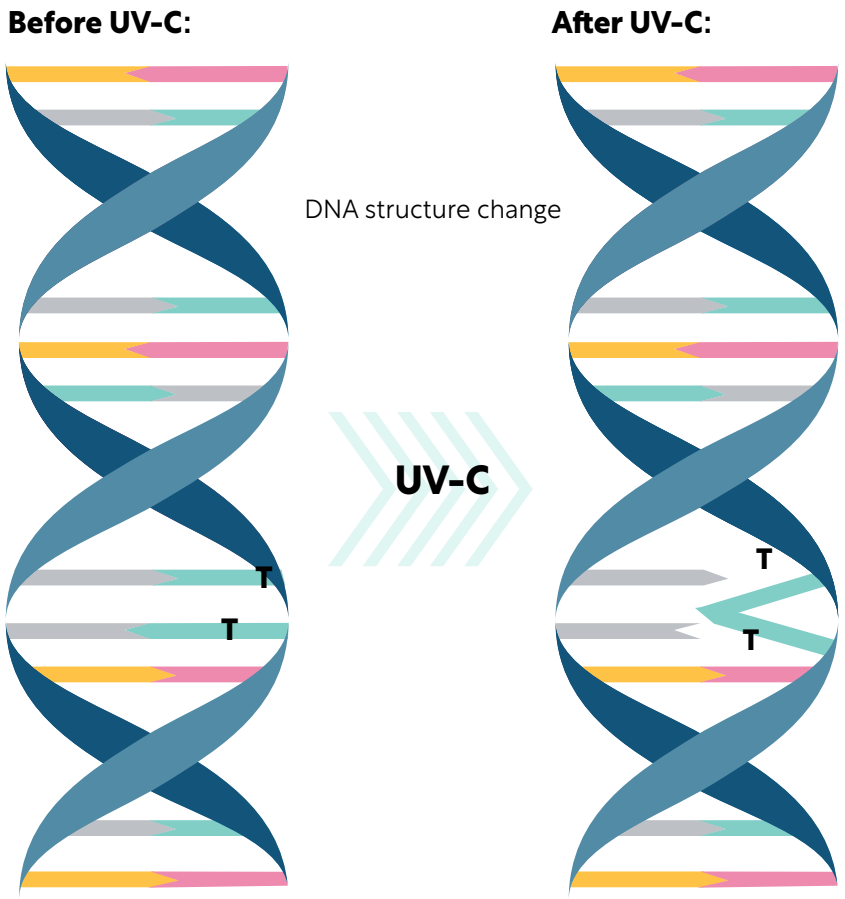


UV-C light breaks DNA/RNA

When two thymine are next to each other, the UV-C light binds them to each other instead of to the opposite base in the DNA/RNA molecule.
By doing so, the microorganisms become harmless.

How UV-C light works

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Validated, certified and supported by clinical research

The disinfection efficacy of the UV Smart D25⁺ has been demonstrated and supported by numerous comprehensive studies conducted in clinical settings at academic medical centers (University Medical Center Groningen, University Medical Center Amsterdam, and Radboud University Medical Center in the Netherlands) and laboratories (Eurofins in Italy and Streeklab Haarlem in the Netherlands). The studies are available upon request.



Prof. Dr. med. Boris A. Stuck
Director of the Clinic for Ear, Nose and Throat Medicine, Head and Neck Surgery.
University Hospital Giessen and Marburg

> The UV Smart D25⁺ has become a most valuable alternative in disinfecting our rigid ENT scopes. It has reduced our disinfection time, saving us precious hours and (human)resources. The UV technology is not only highly effective, as proven in our clinical studies, but also cost efficient, reducing the need for expensive chemicals wipes and labor-intensive cleaning. Our efficiency has improved as a result, allowing us to focus more on patient care. This device has been a valuable addition to our ENT Department, and I highly recommend it to others in the field.



UV Smart D25+ microbiological efficacy chart

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Microorganisms		Required log reduction*
Bactericidal	Staphylococcus aureus (ATCC 6538)	≥ Log 5
	Pseudomonas aeruginosa (ATCC15442)	≥ Log 5
	Enterococcus hirae (ATCC 10541)*	≥ Log 5
	Escherichia coli (ATCC 10536)	≥ Log 5
Sporicidal	Bacilus subtilis (ATCC 6633)**	≥ Log 4
Yeasticidal & Fungicidal	Candida albicans (ATCC 10231)	≥ Log 4
Fungicidal	Aspergillus brasiliensis (ATCC 16404)	≥ Log 4
Yeasticidal	Candida auris (DSM 21092)	≥ Log 4
Mycobactericidal	Mycrobacterium avium (ATCC 15769)	≥ Log 4
Mycobactericidal & Tuberculocidal	Mycrobacterium avium (ATCC 15755)	≥ Log 4
Viricidal	Poliovirus type 1, LSc-2ab	≥ Log 4
	Adenovirus type 5, strain Adenoid 75 (ATCC VR-5)	≥ Log 4
	Bovine coronavirus type 1	≥ Log 4
	Polyomavirus SV40, strain 777	≥ Log 4
	Murine Norovirus, strain S99 Berlin	≥ Log 4

*Based on the EN 14885:2022

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UV Smart D25+

Product description

The D25+ is ready for use when the lid is open. Remove the visible dirt of the item that has to be disinfected. Close the lid and the disinfection process starts automatically. Optimal hand hygiene is stimulated during the disinfection process. The D25+ opens automatically when the disinfection cycle is finished.

Technical Specifications

Product name (brand name)	D25 v2 (UV Smart)
Type of unit	D25 V2 UV-C Medical Disinfection Device
Classification (acc. to IEC/EN 61010-1)	Medical Disinfection Device
Class (according to MDR)	IIa
Voltage rating, overvoltage category	120–250VAC (±10%), OVC II
Frequency	50/60Hz
Amperage rating	2.5A
Max. power rating	220W
UV-C range (wavelength)	100–280nm (peak at 253.7nm)
Accessible fuse value	2×4A 250V time-lag fuse (ø5×20mm)
EMC	IEC 61326-1/61000-3/4 (A1, CISPR 11)
Product Service Life	7 years

Operation conditions

Temperature	0°C - +50°C
Relative humidity	20% - 90% (without condensation)
Atmospheric pressure	800hPa - 1060hPa

Transport and storage conditions

Temperature	-20°C - +50°C
Relative humidity	20% - 90% (without condensation)
Atmospheric pressure	700hPa - 1060hPa
Weight	Approx. 25kg
Dimensions (W x H x D)	557mm x 589mm x 489mm (open) 557mm x 297mm x 489mm (closed)
Computer connection	USB
Historical data	Retrievable via UV Smart - log clearing after maintenance
Maintenance	Every 12 months

Add-ons



Validation indicators

The Validation indicators provide a tool to check if the UV-C dosage is sufficient. The stickers are self-adhesive labels that provide periodical validation.



Flight case

The UV flight case is a durable case that can carry the D25⁺ safely to its destination. With the rubber handle and wheels the flight case can be transported very easily.



Trolley

Placing the D25⁺ on the trolley improves the portability. The wheels can be blocked to avoid unintentional movement of the trolley.



Holder

The trolley can be extended with a holder. The holder of the trolley allows storage for antiseptic wipes and/or sanitizer.

Please contact us for more information

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MDR Class IIa

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