

UV Smart

# D45

High-level disinfection for ultrasound probes in a matter of seconds



[uvsmart.nl](https://uvsmart.nl)

 UVsmart



**Fast. Automated.  
No consumables.**

# UV Smart D45

**The UV Smart D45, powered by Impelux™ UV-C technology, is the fastest automated high-level disinfection device for ultrasound probes.**

The UV Smart D45 elevates the standard of safety and efficacy in ultrasound probe with its unique Independent Monitor System (IMS).

The UV Smart D45 is the only device that is equipped with a unique Independent Monitor System (IMS). These sensors meticulously monitor both UV-C dosage and lamp performance. This ensures that every disinfection cycle delivers optimal UV-C radiation, leading to consistent and effective high-level disinfection.



## **Lightning fast**

High-level disinfection in just over a minute with no warm-up time.



## **Automated Disinfection**

Consistent, reliable, and traceable results with each cycle.



## **Sustainable & Economical**

No use of water, wipes, chemicals, and other consumables during disinfection.



## **Versatile Design**

Easily fits into current workflows and can be placed on a trolley, cart and table.

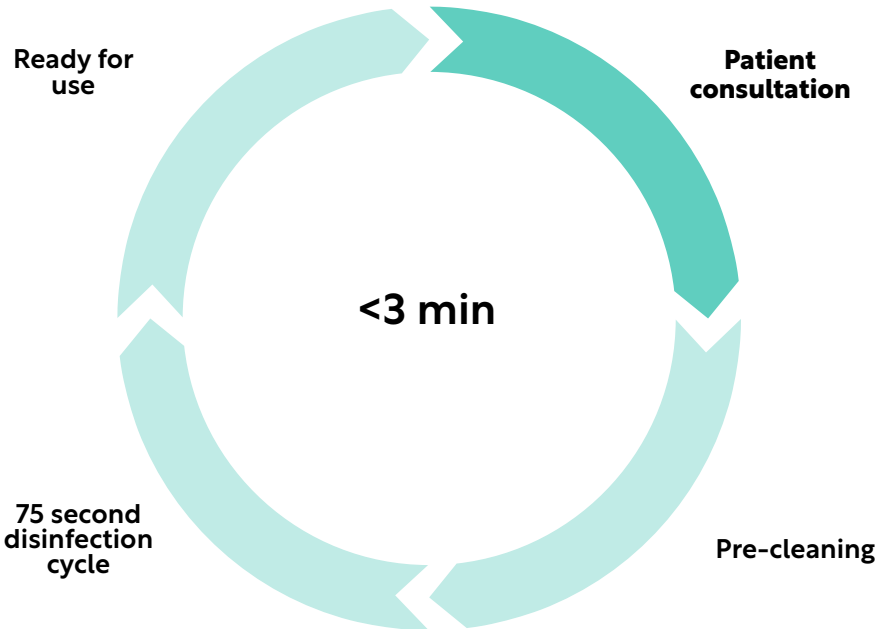


## **Safe and Gentle**

Cold and dry disinfection that preserves equipment integrity and limits the spread of STDs and HPV.



# D45 workflow



## Save on

- » Time
- » Chemicals
- » Inventory
- » Disposables
- » Water
- » Energy
- » Damage on ultrasound probes



# The D45 adapts to your healthcare setting

Easy to use, the D45 has an intuitive interface and gives clear feedback to the user.

## Place the D45

-  On the wall
-  Cart
-  Table

## How to use the D45

| Start of the process                                                                 | Scanning                                                                             | Placement                                                                            | Disinfection                                                                         | Scanning                                                                             | Hand disinfection                                                                    | Disinfection successful                                                              |
|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|  |  |  |  |  |  |  |
| <b>STEP 1</b>                                                                        | <b>STEP 2</b>                                                                        | <b>STEP 3</b>                                                                        | <b>STEP 4</b>                                                                        | <b>STEP 5</b>                                                                        | <b>STEP 6</b>                                                                        | <b>STEP 7</b>                                                                        |
| Pre-clean the probe.                                                                 | Scan your ID and the probe for traceability.                                         | Place the probe in the D45 and close the door. Wait 75 seconds.                      | Wait for the D45 to finish the cycle.                                                | Scan your ID to unlock the door.                                                     | Disinfect your hands.                                                                | Take out the ready-to-use probe.                                                     |

# The D45 records all necessary reprocessing data

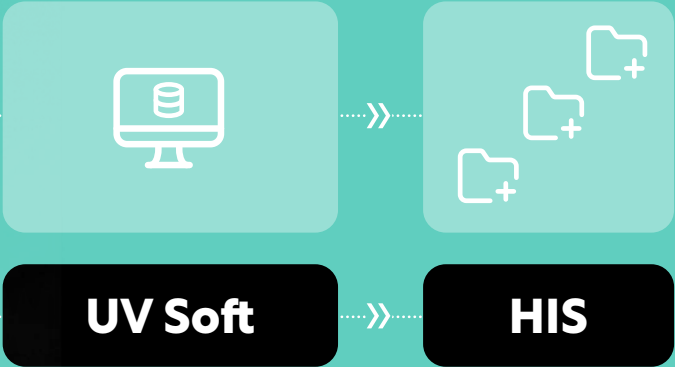
## The software records the following information

- » Ultrasound probes number or ID
- » The badge number of the employee twice (intake & outtake release)
- » Variables of the disinfection cycle (UV dosage, time and power usage)
- » Disinfection cycle result
- » Optional printer connection allows for direct printing of reprocessing data tickets.



# Connectivity

With UV Smart’s software, UV Soft, the D45 will transfer the reprocessing cycle information automatically to the intranet-based application. This data can then be transferred to the Hospital Information System (HIS).



## Technical Specifications

|                                         |                                      |
|-----------------------------------------|--------------------------------------|
| Product name (brand name)               | D45 (UV Smart)                       |
| Type of unit                            | D45 UV-C Medical Disinfection Device |
| Classification (acc. to IEC/EN 61010-1) | Medical Disinfection Device          |
| Class (according to MDR)                | Ila                                  |
| Ingress Protection                      | IP 20                                |
| Voltage rating, overvoltage category    | 120–250 VAC (±10%), OVC II           |
| Frequency                               | 50/60Hz                              |
| Amperage rating                         | 2A                                   |
| Max. power rating                       | 200W                                 |
| UV-C range (wavelength)                 | 100–280nm (peak at 253.7nm)          |
| Fuse value                              | 2 x 2A time-lag fuse (ø5×20mm)       |
| EMC                                     | IEC 61326-1/61000-3/4 (A1, CISPR 11) |
| Product Service Life                    | 10 years                             |

## Operating conditions

|                      |                                  |
|----------------------|----------------------------------|
| Temperature          | 5°C - 40°C                       |
| Relative humidity    | 20% - 85% (without condensation) |
| Atmospheric pressure | 800hPa - 1060hPa                 |

## Transport and storage conditions

|                                            |                                                 |
|--------------------------------------------|-------------------------------------------------|
| Temperature                                | -25°C - 60°C                                    |
| Relative humidity                          | 20% - 85% (without condensation)                |
| Atmospheric pressure                       | 800hPa - 1060hPa                                |
| Weight                                     | Approximately 25kg                              |
| Dimensions (WxHxD)                         | 390mm x 525mm x 200mm (closed)                  |
| IT connection                              | Ethernet Cable                                  |
| Track & Trace                              | Retrievable via UV Soft and D45 internal memory |
| Technical inspection (service/maintenance) | Every 12 months                                 |

Please contact  
us for more  
information



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