



UV SMART™ D60 System

High-level disinfection of TEE probes
in 120 seconds



Current challenges

in transesophageal echocardiogram probe (TEE) disinfection

Slow disinfection cycles



Lengthy chemical contact time

Soak disinfection can require up to 30 minutes of contact time at 68°F (20°C)¹.

Water and chemical usage



Requires plumbing and filtration

Chemicals and rinse water to be flushed away after disinfection

TEE probe cannot be submerged



Probe handle not soaked in chemical solution

Chemical soak methods do not disinfect the probe's handle.²

Chemicals in contact with the TEE probe



Thorough rinse required

Residual chemicals left on probes can come into contact with the patient if not thoroughly rinsed.³

¹<https://www.cdc.gov/infection-control/hcp/disinfection-and-sterilization/methods.html>

²Philips. (2025, October). Care and cleaning of ultrasound systems and transducers.

³<https://www.cdc.gov/infection-control/hcp/disinfection-sterilization/chemical-disinfectants.html#toc>



Chemical-free high-level disinfection



120 seconds of exposure time to HLD a TEE probe

Fast disinfection with no post-disinfection rinse required.



Validated by major MDMs

Material compatibility testing ensures instrument materials can withstand repeated UV-C exposure across their expected service life.

For compatibility inquiries or to verify specific device models, email us at info@uvsmart.us



Disinfects the handle, cable, and insertion shaft

Add a layer of protection for both your patients and your team.



Chemical-free disinfection

Eliminate the need for the continuous purchase, storage, and disposal of chemicals.

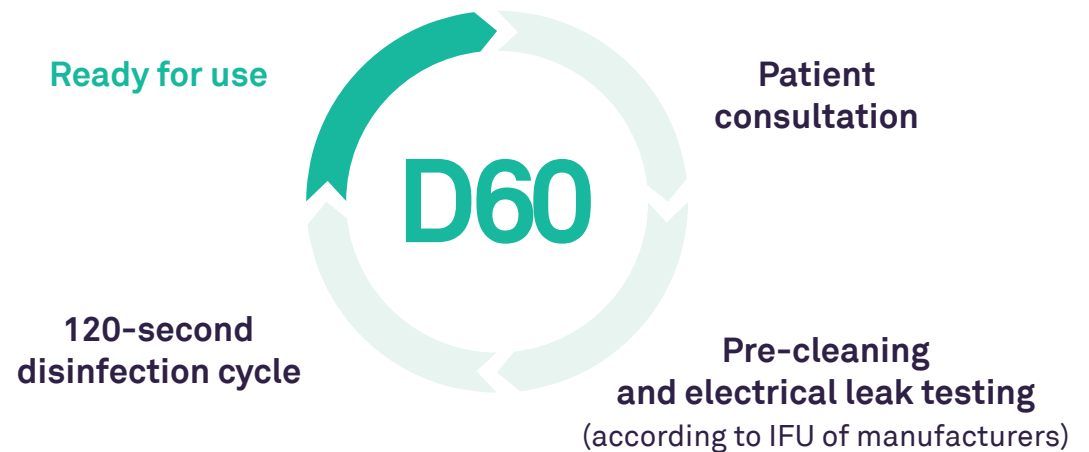
Adopted across major international markets

Dr. Stefan Rudhart

University Hospital Bonn, Germany

“Our in-use testing confirmed that the UV SMART D60 consistently achieves high-level disinfection of TEE probes.”

The workflow with the D60



➔ Full traceability including Operator ID, Instrument ID, Patient ID number, monitoring of UV-C dosage, current and date & time.

The D60 adapts to your healthcare setting

Place the D60



On the unit



In the clinic

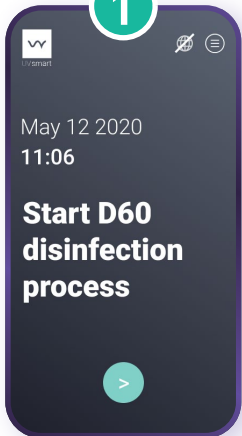


In the SPD

The D60's display gives clear feedback to the user.

How to use the D60

1



Start of the process

Pre-clean your equipment, perform an electrical leak test and rinse and dry the instrument.

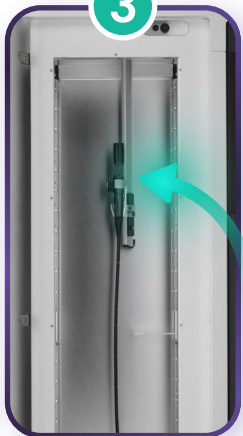
2



Scanning

Scan your ID, equipment ID and patient ID number for traceability. Confirm on the screen: "Pre-cleaning", "Leak testing", and "Rinsing and drying"

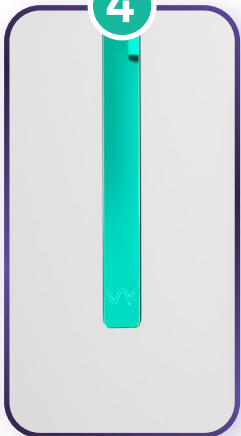
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Placement

Place the equipment in the D60 and close the door.

4



Disinfection

Wait 120 seconds for the D60 to finish the cycle.

5



Scanning

Scan your ID to unlock the door.

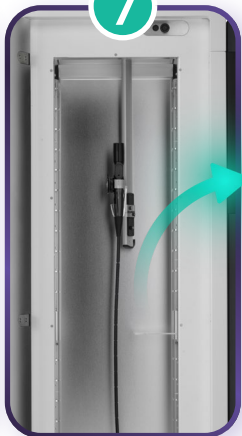
6



Hand disinfection

Disinfect your hands.

7

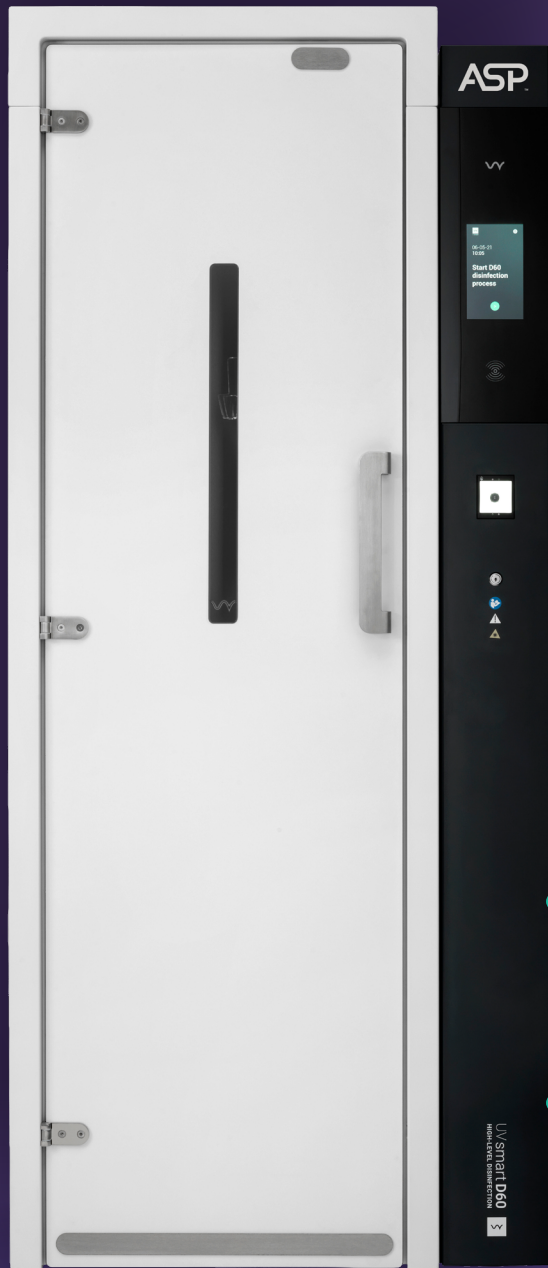


Disinfection successful

Take out the ready-to-use equipment.

DISCLAIMER

This guide is not intended to replace the Instructions for Use (IFU). Prior to use, read and follow the full IFU as the featured steps may not include the complete steps of the procedure. Individual surgeon preference and experience, as well as patient needs, should always dictate variation in procedure steps.



Full traceability always at hand

UV SOFT™ Technology delivers connected records that integrate with Hospital Information Systems (HIS)*.

→ **What does this mean?**

During audits, inspections, or reviews, data is instantly available.

→ **Full traceability including:**

User ID, Instrument ID, Patient ID number, monitoring of UV-C dosage, current, and date & time.



**Contact your HIS provider to request this integration.*

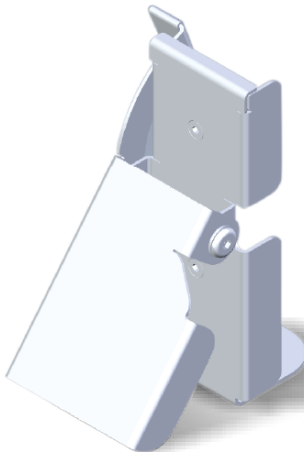
Seamless traceability with UV SOFT™ Software

	D60 without UV SOFT™ Software	D60 with UV SOFT™ Software
Annual Maintenance: Ensures consistent operational efficiency.	✓	✓
Audit Readiness: Automatically keeps records that are essential for audits, reducing the administrative burden.	✓	✓
Readily Available Traceability: Facilitates easy and remote access to up-to-date reprocessing information.	✗	✓

UV SMART™ D60 System Disinfection add-ons



Continuous care and maintenance



Safe-handling and ergonomics



Compliance and audit readiness

Service life and maintenance

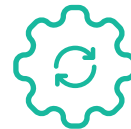
The **D60** has a service life of 10 years. Every 12 months of use, the device requires maintenance and will show a notification on the display.

All replacement parts and maintenance activities are included in the service agreement.

The prescribed service agreement includes:



Annual service and preventive maintenance with minimal downtime



Replacement of critical wear parts during maintenance



Sensor function check and calibration verification



Technical support



Technical Specifications

Trade name	UV SMART D60
Type of unit	Ultraviolet radiation disinfection chamber device
Regulation number	21 CFR 880.6511
Product code	SCS
Regulatory class	Class II
Ingress protection	IP 20
Voltage rating, overvoltage category	110-120VAC / 220-240VAC ($\pm 10\%$), OVC II
Frequency	50/60Hz
Amperage rating	10A
Power rating	650W
UV-C germicidal bandwidth	253.7nm
Fuse value	4A time-lag fuse ($\phi 3/16"$ x $3/4"$) x 2 110-120V: 10A time-lag fuse ($\phi 3/16"$ x $3/4"$) x 2
EMC & electrical safety	IEC 61326-1, IEC 60601-1-2, IEC 61010-1, IEC 61010-2-040
Photobiological safety class	Exempt Risk Group (IEC 62471)
Product service life	10 Years

Operating & storage conditions

Temperature	32°F - 104°F
Relative humidity	20% - 75%
Atmospheric pressure	800hPa - 1060hPa

Transport and storage conditions

Weight	Approximately 397 lbs/ 180kg
Dimensions (W x D x H)	Device area (WxDxH) = 33.9" x 18.6" x 80.0"
Pollution degree	PD2
IT connection	USB, Ethernet cable
Track and trace	Retrieval via UV SOFT™ Software and D60 internal memory
Technical inspection (Service/Maintenance)	Every 12 months
FCC	Part 15 compliant

Frequently Asked Questions

Our team is happy to answer all your questions.

Q: Does the D60 automatically capture and store reprocessing data for every cycle?

A: Yes, the D60 records information like the Operator ID, Instrument ID, Patient ID number, monitoring of UV-C dosage, current and date & time. To ensure accountability, the operator must scan their ID badge and the instrument before the unit will open. Once the disinfection cycle is complete, a second scan of the operator's badge is required to release the door for retrieval.

Q: How many probes can be disinfected simultaneously?

A: The D60 disinfects one probe per cycle. The process takes 120 seconds to complete.

Q: Is manual pre-cleaning still required?

A: Yes, probes must be pre-cleaned according to the manufacturer's instructions for use (IFU).

Q: Where should the D60 be installed?

A: The D60 can be placed in the CSD or directly on the ward to minimize transport time. However, because it only requires a standard 110-120V outlet, the unit can be flexibly positioned anywhere in the facility.

Q: Are my TEE probes compatible with the D60?

A: The D60 is compatible with different TEE probes. Please contact us at info@uvsmart.us for the full compatibility list.



To learn more visit
uvsmart.us

@info@uvsmart.us

Advertising Material - No Commercial Value

DISCLAIMER

The information contained herein is meant to describe the use of the product(s) and is not intended to provide advice on medical procedures. UV Smart Technologies B.V. makes no representations or warranties whatsoever as to the accuracy, completeness, or suitability for the purpose of the information/training. Products and specific indications might be unavailable in certain markets, given that product availability is subject to regulatory approval (and/or medical practices in individual markets). The healthcare provider is responsible for the clinical implementation of UV SMART™ products. The instructions for use and accepted medical guidelines should always be checked prior to the application of UV SMART™ products.

Important information: Prior to use, refer to the complete instructions for use supplied with the device(s) for proper use, indications, contraindications, warnings and precautions.

This guide is not intended to replace the Instructions for Use (IFU). Prior to use, read and follow the full IFU as the featured steps may not include the complete steps of the procedure. Individual surgeon preference and experience, as well as patient needs, should always dictate variation in procedure steps.

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