



## TECHNICAL SPECIFICATIONS

<b>Name</b>	UVD Robot
<b>Type</b>	Model B
<b>Designated use</b>	For disinfection purposes e.g. in hospital rooms or in laboratories.

### DIMENSIONS

<b>Length</b>	93 cm	36.6 in
<b>Width</b>	66 cm	26 in
<b>Height</b>	171 cm	67.3 in
<b>Traversable Gap and Sill Tolerance</b>	2 cm	0.8 in
<b>Weight</b>	140 kg	308.6 lb

### COLOR

<b>White</b>	RAL9003 Signalweiss
<b>Grey</b>	RAL7047 Telegrau

### SPEED AND PERFORMANCE

<b>Maximum Speed</b>	1.5 m/s	5.4 km/h	
<b>Turning Radius</b>	520 mm	20 in	around center of the robot
<b>Positioning Accuracy</b>	+/- 50 mm	2 in	relative to position
	+/- 10 mm	2 in	relative to docking station

### POWER

<b>Number of Batteries</b>	4 units	
<b>Battery Type</b>	Li-NMC, 24 V, 40 Ah	
<b>Charging Time</b>	With manual charger: up to 8 hours	0-80% : 5.5 hours
	With docking station: up to 5 hours	0-80% : 4 hours
<b>Driving Operation Time</b>	>10 hours	
<b>Maximum Disinfection Time</b>	2 hours	
<b>Rooms per Charge</b>	8-10 rooms	
<b>Battery Cycle Times</b>	Minimum 1000 cycles	

### EXTERNAL CHARGER

<b>Input</b>	100-240 V, AC	50-60 Hz
<b>Output</b>	24 V, DC	Max 15 A

### ENVIRONMENT

<b>Ambient Temperature Range</b>	+ 5°C to 50°C	+ 41°F to 122°F	humidity 10-95% non-condensing
<b>IP Class</b>	IP 20		
<b>Certifications</b>	CE Certified		

### COMMUNICATION

<b>WiFi</b>	Dual-band wireless
<b>Wireless Frequencies</b>	2.4 GHz 802.11 b/g/n and 5 GHz 802.11 a/n/ac
<b>Bluetooth</b>	4.0 LE, Range 10-20 m 33-66 ft
<b>I/Os</b>	USB and Ethernet

### SENSORS

<b>SICK microScan3 safety system</b>	2 units	SICK safety laser scanners S300 (front and back) 360° visual protection around robot.
<b>3D Camera</b>	2 units	Front: Intel RealSense™ Detection of objects ahead 50-500 mm above floor. Top: Intel RealSense™ R200, Detection of objects ahead 550-1200 mm above floor.

### LAMPS

<b>Type</b>	TUV Amalgam XPT systems
<b>Power (Rated) (Nom)</b>	180 W
<b>Lamp Current (Nom)</b>	2.1 A
<b>Ignition Supply Voltage (Min)</b>	90 V
<b>Lifetime</b>	12,000 hours
<b>UV-C Wavelength</b>	254 nm
<b>Depreciation at Useful Lifetime</b>	15 %

#### WARNING

These lamps emit high-power UV radiation that can cause severe injury to skin and eyes. Avoid eye and skin exposure to unshielded product. Use only in an enclosed environment which shields users from the radiation.

