



# WiSDOM DS

-surface disinfection box

*The new, safer,  
more efficient and  
more cost-effective  
method for disinfecting  
small items*



**Fast  
3 min  
program**

**Always  
consistent  
results**

**Chemical-free**  
*safe and ecological*

**Non-ionizing**  
*-Radiation and Nuclear  
Safety Authority, 2017*

*Suitable for  
disinfection of  
sensitive materials,  
e.g. plastics and  
electronics*

**Intuitive  
touchscreen  
user interface**

## **70% cheaper than disposable disinfection wipes!**

*The disposable surface disinfection wipes cost about 0,20€/pc. The lifetime of WiSDOM DS is at least 160,000 disinfection cycles. Cost per disinfection with WiSDOM DS is about 0,06€, taking into account the initial investment and electricity consumption.*

### **The fastest and most effective disinfection for example for the following objects:**

- phones
- keyboards and mice
- tablets and laptops
- keycards
- eyeglasses
- keys
- stethoscopes
- pipettes
- fever and blood pressure gauges and cuffs
- tourniquets
- protective goggles
- combs and brushes
- pacifiers and toys

### **The best solution for surface disinfection in the following environments:**

- hospitals
- laboratories
- cleanrooms
- food industry
- nursing homes
- schools and day care centers
- dental clinics
- veterinary clinics
- grocery stores
- restaurants and kitchens

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*WiSDOM DS is very simple, fast, easy and effortless to operate. We use the device several times daily. Objects of our daily disinfection include, for example, blood pressure meters and -cuffs, tourniquets, thermometers, heating pads, phones, keys, pens and pen pockets.*

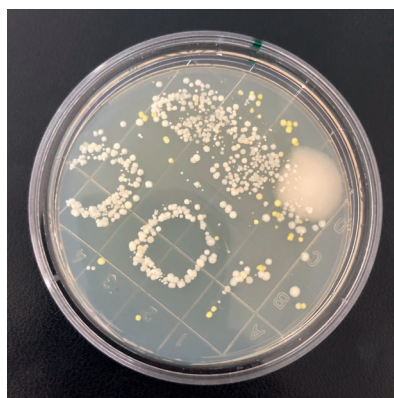
*We consider it important to provide the cleanest possible environment for our patients. Almost all of our patients suffer from immune deficiency and are prone to infections. Disinfecting with light is effortless for the employee and we no more need to handle harmful detergents.*

*- Jenni Suominen, Nurse in charge of the Pharmacotherapy Outpatient Clinic, Turku University Hospital, Salo*

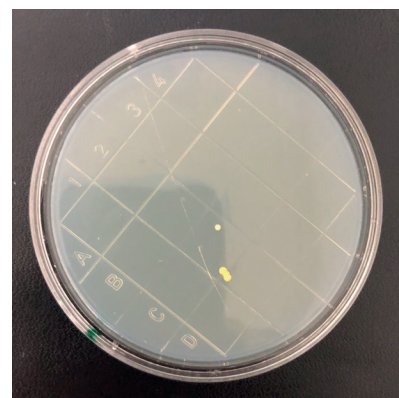


	WiSDOM DS operating time	reduction		dose	reference
		log	%		
Clostridium difficile	3 min	4,04 log <sub>10</sub>	>99,99%	36 mJ/cm <sup>2</sup>	Rutala W et al. 2010. Room decontamination with UV radiation. Infect Control Hosp Epidemiol 2010;31:1025-9. Published online: 01 January 2015
MRSA (Methicillin-resistant <i>Staphylococcus aureus</i> )	1 min	4,71 log <sub>10</sub>	>99,99%	12 mJ/cm <sup>2</sup>	Rutala W et al. 2013. Rapid hospital room decontamination using ultraviolet (UV) light with a nanostructured UV-reflective wall coating. Infect Control Hosp Epidemiol 2013;34:527-9.
VRE (Vancomycin-resistant enterococci)	1 min	3,90 log <sub>10</sub>	>99,9%	12 mJ/cm <sup>2</sup>	Rutala W et al. 2010. Room decontamination with UV radiation. Infect Control Hosp Epidemiol 2010;31:1025-9. Published online: 01 January 2015

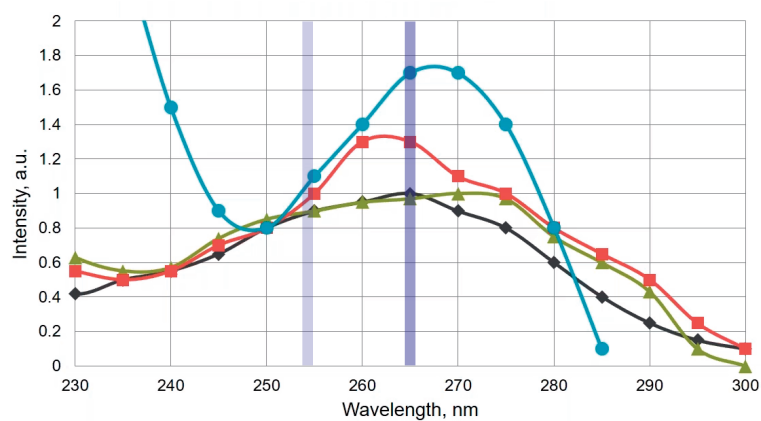
The microbe amount of a computer keyboard tested before and after processing with WiSDOM DS's 3 min disinfection program.



BEFORE



AFTER



254 nm (old technology)  
265 nm (WiSDOM DS)

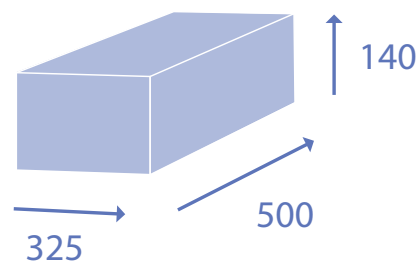
— E. Coli  
— MRSA  
— Crypto Protozoa  
— Rotavirus

The graph shows how four microbes react to the UV light wavelengths. The UVC LEDs in the WiSDOM DS surface disinfection box are significantly more antimicrobial than the previously used UVC fluorescent tubes. Precise wavelength of UVC LEDs provides effective and safe surface disinfection.

## DEVICE OVERVIEW



## MAXIMUM DIMENSIONS OF THE DISINFECTED ITEM



[mm]

## TECHNICAL DATA

<b>Weight of the disinfection box:</b>	22 kg
<b>Maximum weight of the disinfected item:</b>	4 kg
<b>Energy consumption (sleep mode):</b>	5 W
<b>Maximum power:</b>	200 W
<b>Disinfection time</b>	3 min (programmable)
<b>Warranty:</b>	3 years
<b>Certifications:</b>	CE
<b>Average lifetime:</b>	8000 h
<b>Average 3 min radiation dose after 160,000 disinfection cycles:</b>	> 21 mJ/cm <sup>2</sup>
<b>An average 3 min radiation dose with a new device:</b>	> 70 mJ/cm <sup>2</sup>
<b>The device indicates the need for maintenance before disinfecting power decreases below the promised value.</b>	

