



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.

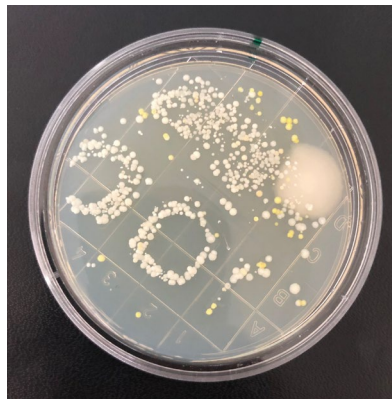
- Jenni Suominen, Nurse in charge of the Pharmacotherapy Outpatient Clinic, Turku University Hospital, Salo



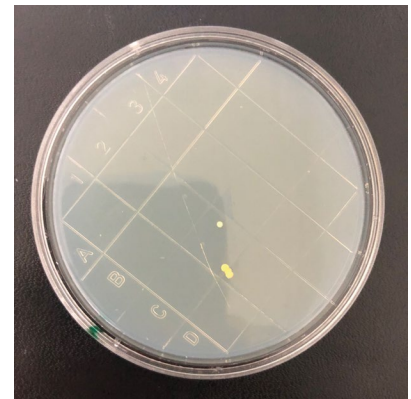
Microbe	Reduction \log_{10} %		Standard	Testing lab
<i>Enterococcus faecium</i> (ATCC 6057)	$\leq 3,7$ average 3,5	$\leq 99,98$	EN-17272 (2019)	HygCen Austria GmbH
<i>Human adenovirus 5</i> (Strain Adenoid 75, ATCC VR5)	$\leq 2,4$ average 2,1	$\leq 99,6$	EN-17272 (2019)	HygCen Austria GmbH

Test microbes were chosen by the laboratory to serve as benchmark for proving the efficiency of WiSDOM DS, as they are among the most difficult to inactivate and eliminate.

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



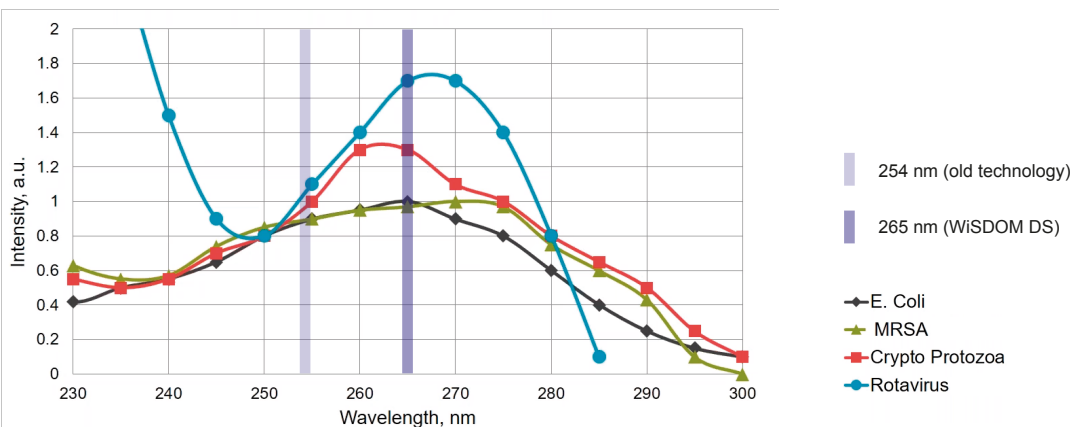
BEFORE



AFTER

Microbe	Reduction	
<i>Salmonella typhimurium</i>	$\leq 8 \log_{10}$	$\leq 99,999999\%$
<i>Listeria monocytogenes</i>	$\leq 8 \log_{10}$	$\leq 99,999999\%$
<i>Lactobacillus sakei</i> (meat spoilage bacterium)	$\leq 8 \log_{10}$	$\leq 99,999999\%$

The disinfection effect of WiSDOM DS on bacteria was tested on a laboratory medium at the University of Helsinki (European Maritime and Fisheries Fund (EMFF), Grant nro. 71 138). The preliminary results were achieved with only 2 min (120 s) exposure (46,80 mJ/cm²).

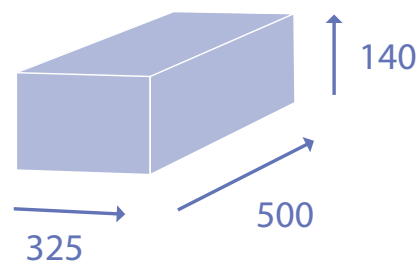


The graph shows how four microbes react to the UV light wavelengths. The UVC LEDs in the WiSDOM DS surface disinfection box are significantly more antimicrobial than the previously used UVC fluorescent tubes. Precise wavelength of UVC LEDs provides effective and safe surface disinfection.

DEVICE OVERVIEW



MAXIMUM DIMENSIONS OF THE DISINFECTED ITEM



[mm]

TECHNICAL DATA

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

