

Successful performance



Federal Research Institute of
Emergency Medicine, Moscow



Institute of Bioorganic Chemistry of the
Russian Academy of Sciences, Moscow



XXI Century National
Medical Center, Mexico

Yanex devices are currently used in healthcare:

- surgery
- perinatal centers and maternity clinics
- TB hospitals
- oncology
- ophthalmology
- resuscitation and intensive therapy
- institutions with high sanitary and epidemiological requirements
- space medicine

Our experience

Over 2000 units are deployed since 2004 at more than 400 healthcare facilities in more than 50 regions worldwide



ISO 9001:2008
ISO 13485:2003



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Yanex-2M

Mobile pulsed xenon UV antibacterial system for ultrafast air and surfaces disinfection

guaranteed disinfection
efficiency over 3 log

rapid operation
and high capacity

environmental
friendliness



www.melitta-uv.com

How does it work?

The mobile pulsed xenon UV antibacterial system is based on the high-intensity plasma-optical technology and uses the high temperature xenon plasma in a pulsed lamp as the irradiation source

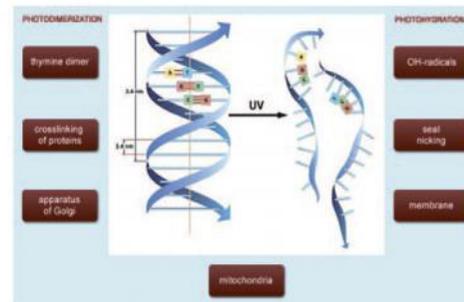
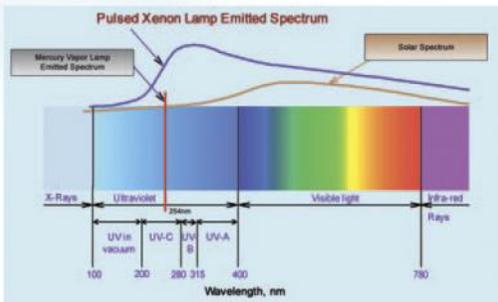
The system has the following unique features:

Continuous UV irradiation spectrum (200..400 nm) destructively affects all the vital cell structures (DNA, proteins, lipids, nucleic acids);

High intensity - 10 000 times more intense than the existing bactericidal lamps - allows to expand the system's effective range, to improve the efficiency and even to start two-quantum dimerization processes and chain reactions;

Pulsed nature of impact ensures precise dosage of UV irradiation, offering the possibility to integrate pulsed UV systems into the existing medical and other technologies.

The synergism of the said impact mechanisms on the living matter affords a significant reduction of the microorganism's resistance, ultrashort disinfection time and as a result high efficiency of the system.



Efficiency

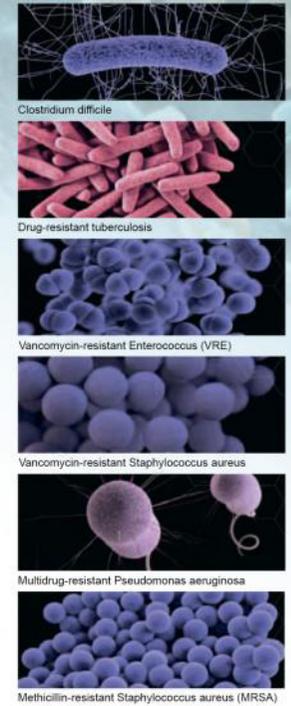
Over 60 scientific studies and clinical tests, around 100 microorganisms

Microorganism	Time to Reduce Pathogens by 3-4 log (99.9-99.99%)					
	Direct Distance to Surface in Meters ¹					
	Time ² to Reduce Microorganisms Population by 3-4 log in Minutes					
	2 m	3 m	4 m	2 m	3 m	4 m
<i>Pseudomonas aeruginosa</i>	0.5	0.9	1.5	0.6	1.2	2
<i>Acinetobacter baumannii</i>	0.5	0.9	1.5	0.6	1.2	2
Methicillin-resistant <i>Staphylococcus aureus</i> (MRSA)	0.5	0.9	1.5	0.6	1.2	2
Vancomycin-resistant enterococcus (VRE)	0.5	1.1	2	0.6	1.4	2.6
Influenza A	1.5	3	6	2	4	8
<i>Clostridium difficile</i> spores (C.diff)	4	10	18	6	12	24

¹ Horizontal distance from Yanex Antibacterial System to target surface.

² Time required to reduce microorganisms' population by 3 log and 4 log is based on the dosage determined by laboratory research.

Time to Reduce Microorganisms' Population by 3-4 log (99.9-99.99%) in the air of a 100 m ³ room	
Microorganism	Time to Reduce Microorganisms by 3-4 log in Minutes
Bacteria	
<i>Pseudomonas aeruginosa</i>	1.7
Methicillin-resistant <i>Staphylococcus aureus</i> (MRSA)	1.5
Vancomycin-resistant enterococcus (VRE)	1.8
<i>Escherichia coli</i>	1.2
<i>K. pneumoniae</i>	1.7
Virus	
Adenovirus	6.5
Hepatitis C	5.8
Influenza A	2.4
Poliovirus	2
Fungi	
<i>Aspergillus fumigatus</i>	6.2
<i>Candida albicans</i>	3.5
<i>Aspergillus niger</i>	10
Spores	
<i>Bacillus cereus</i>	2
<i>Bacillus subtilis</i>	4.5



Key Features

- Easy-to-use control panel. You only need to set the room size - the system does the rest.
- Safety system to ensure no people are present in the room during the disinfection cycle.
- Remote Control with the 6 meters' operating range that can operate through doors and walls.
- «Green technology»: Absence of mercury in pulsed xenon lamps and anti-ozone protection ensure environmental friendliness.



Intuitive control panel



Remote control



Pulsed xenon UV lamp