

## Successful performance since

January 2005



Research Institute of Neurosurgery of RAMS, Moscow

January 2007



Russian Cancer Research Center, Moscow

September 2008



Federal Research Institute of Emergency Medicine, Moscow

June 2009



Russian Research Center of Surgery, Moscow

### 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

**Over 1300 units are deployed since 2004 at more than 400 healthcare facilities / hospitals in more than 50 regions worldwide**



[www.yanexhealthcare.com](http://www.yanexhealthcare.com)  
[info@yanexhealthcare.com](mailto:info@yanexhealthcare.com)



ISO 9001:2008  
 ISO 13485:2003

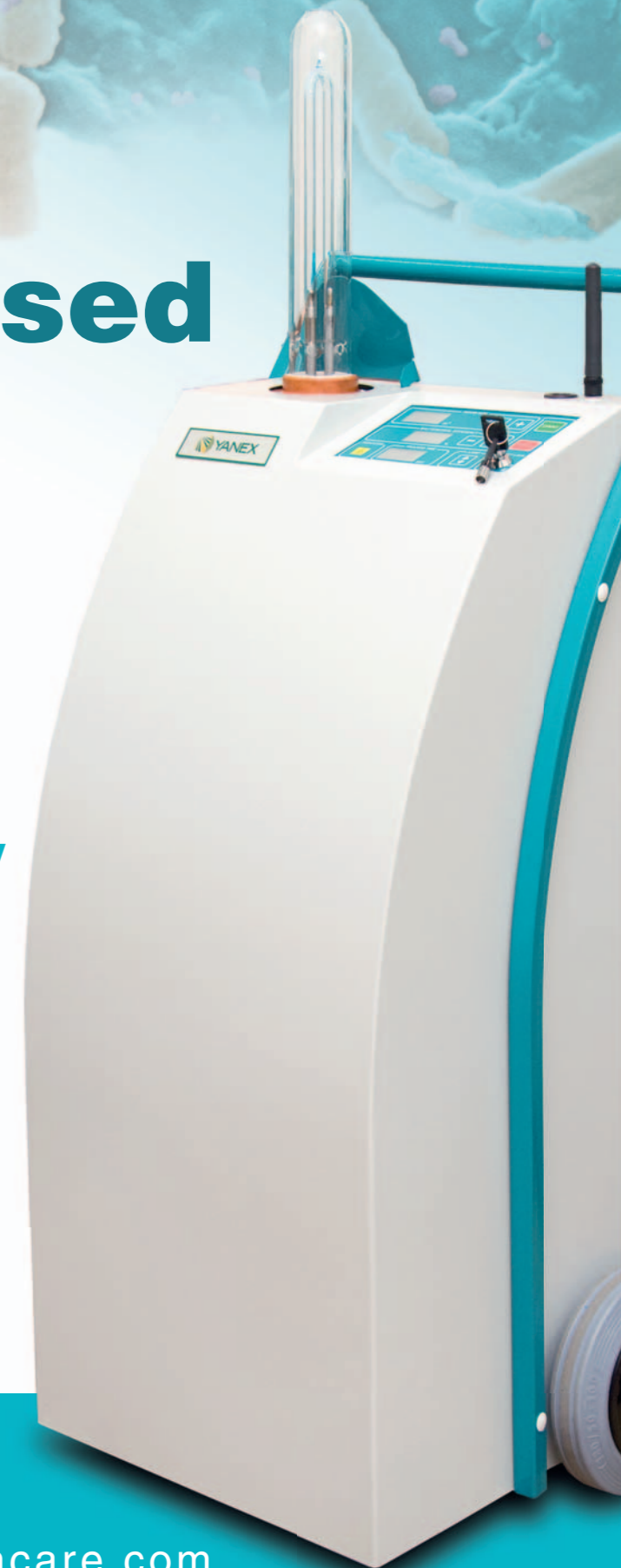


# 360°

## Mobile pulsed xenon UV antibacterial system

for ultrafast air and surfaces disinfection

- **guaranteed disinfection with the 3-5 log efficiency**
- **rapid operation and high capacity**
- **environmental friendliness**



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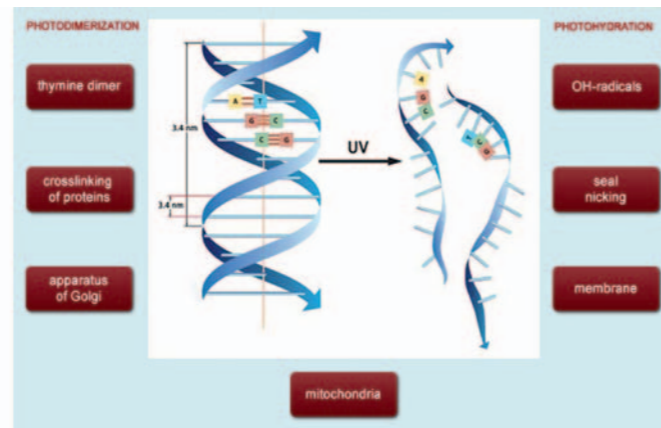
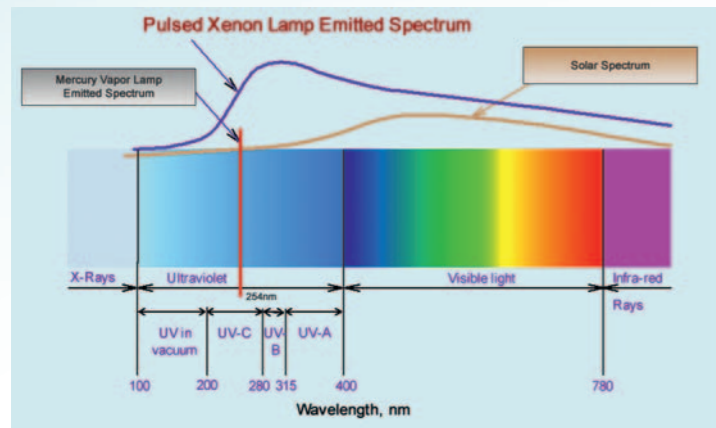
# How does it work?

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 microorganisms' resistance, ultrashort disinfection time and as a result high efficiency of the system.



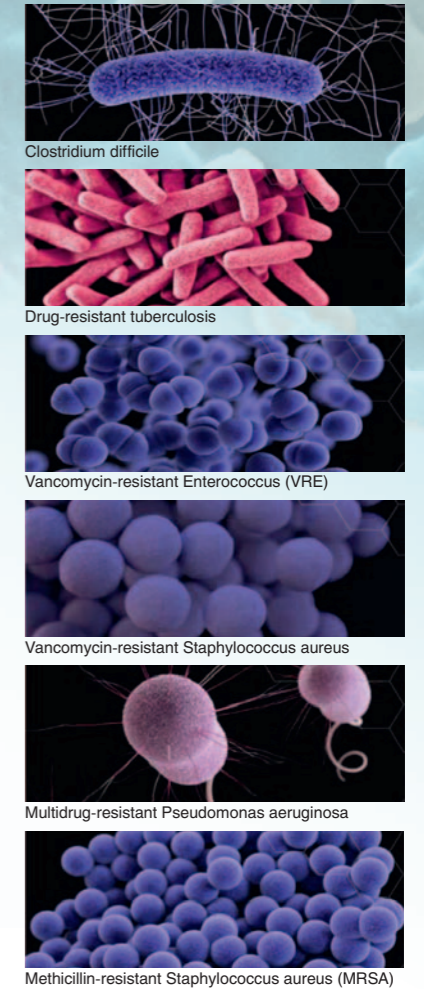
# Efficiency

Over 60 scientific studies and clinical tests; around 100 microorganisms

Microorganism	Time to Reduce Pathogens by 3-4 log (99.9-99.999%)					
	Direct Distance to Surface in Meters <sup>1</sup>					
	3 log			4 log		
	2 m	3 m	4 m	2 m	3 m	4 m
<b>Pseudomonas aeruginosa</b>	0.5	0.9	1.5	0.6	1.2	2
<b>Acinetobacter baumannii</b>	0.5	0.9	1.5	0.6	1.2	2
<b>Methicillin-resistant Staphylococcus aureus (MRSA)</b>	0.5	0.9	1.5	0.6	1.2	2
<b>Vancomycin-resistant enterococcus (VRE)</b>	0.5	1.1	2	0.6	1.4	2.6
<b>Influenza A</b>	1.5	3	6	2	4	8
<b>Clostridium difficile spores (C.diff)</b>	4	10	18	6	12	24

<sup>1</sup> Horizontal distance from Yanex Antibacterial System to target surface.  
<sup>2</sup> Time required to reduce microorganisms' population by 3 log and 4 log is based on the dosage determined by laboratory research.

Microorganism	Time to Reduce Microorganisms by 3-4 log in Minutes
<b>Bacteria</b>	
Pseudomonas aeruginosa	1.7
Methicillin-resistant Staphylococcus aureus (MRSA)	1.5
Vancomycin-resistant enterococcus (VRE)	1.8
Escherichia coli	1.2
Kl. pneumonia	1.7
<b>Virus</b>	
Adenovirus	6.5
Hepatitis C	5.8
Influenza A	2.4
Poliovirus	2
<b>Fungi</b>	
Aspergillus fumigatus	6.2
Candida albicans	3.5
Aspergillus niger	10
<b>Spores</b>	
Bacillus cereus	2
Bacillus subtilis	4.5



# Key Features

- Easy-to-use control panel. You only need to set the room size and the bactericidal efficacy — the system does the rest.
- Safety lock with keys to make sure only authorized personnel has access to the unit.
- Door Safety Interlock to ensure no people are present in the room during the disinfection cycle.
- Remote Control with the 6 meters' operating range and can operate through doors and walls.
- "Green technology": Absence of mercury in pulsed xenon lamps and anti-ozone protection ensure environmental friendliness.



Safety Interlock



Intuitive control panel



Remote control



Xenon UV lamp