

## WANDO Defibrillator



Defibrillator Monitor WANDO with option of automated external defibrillator (AED) is designed for resuscitation and electropulse therapy of acute and chronic cardiac arrhythmia, detection of arterial oxygen saturation and measurement of blood pressure, as well as for external, transesophageal, endocardial pacing.

It is used in hospitals, cardiology clinics and for equipping emergency medical assistance teams. The device is certified for the conformance with requirements of Directives 93/42/EEC.

### Three Versions:

- Wando Basic: Defibrillator + ECG + memory card
- Wando Simplified: Defibrillator + ECG + NIBP + SPO2 + memory card
- Wando Full: Defibrillator + ECG + NIBP + SPO2 + 3 types of pacing (external, transesophageal, endocardial) + memory card

# WANDO Defibrillator Monitor



## Product Highlight:

Light weight - 6kg only, easy to handle

Service Support

Unified Component

Combined power supply (AC mains, rechargeable built-in removable battery)

## Technical Specifications

Characteristic	Parameter
<b>Defibrillation</b>	
Pulse	Physiologically optimal bipolar pulse with automatic correction of duration and shape depending on the patient impedance
Defibrillation pulse energy, joule(j) for adults for children	5/10/25/50/75/100/150/200/250/300/360 (additional function of power accumulation over 200J, with the adult electrodes) 5/10/25/50/75/100/150 (shut-down of power over 150J, when working in the children's mode)
Time of energy accumulation, no more than, sec 200J 360J	6 10
Number of defibrillation pulses from the fully charged storage battery, no more than 200J 360J	70 40
Time of holding accumulated energy with indication of remaining seconds, with subsequent automatic reset of the stored energy to the internal load, no more than, sec	30
<b>ECG</b>	
Two ECG receiving channels	From defibrillation electrodes and separate ECG cable
ECG-monitoring through a 4-lead ECG cable	I...II, aVR...aVF
ECG-monitoring through a 10-lead ECG cable (option)	I...III, aVR...aVF, V1...V6
ECG channel sensitivity, mm/mV	5, 10, 20
Speed, mm/sec	12.5; 25; 50
HR measuring range, bpm	from 30 to 300
error of HR measuring, bpm	±2
Paper width, mm	58
Sweep speed, mm/sec	12.5,25,50
<b>Safety</b>	
Defibrillation electrodes	BF type
Protection against defibrillation for separate electrodes of the monitor	CF type
Protection against defibrillation via blood pressure control channel	BF type
SpO2 control channel	BF type
Pacing channels	CF type
Power shutdown	at the patient's body resistance of lower than 12 Ohm and higher than 200 Ohm, as well as in case of open and closed electrodes
In the event of failure of the defibrillation	Manual reset of the stored energy to the internal load
<b>Display</b>	
LCD display	colour TFT
Display size	7"
Time of monitor restoration after defibrillation, no more than	6 sec
Displaying information	Values of the preset energy, three ECG leads, the replacement battery condition, upper and lower alarm limits for heart rate and the current value, energy accumulation process, current date and time, recording mode, current applied and the resistance of the patient's chest, photoplethysmogram, pulse frequency, SpO2 value, systolic and diastolic blood Pressure values, pacing channel settings, message duplication of voice support of the operator's actions and device operation
<b>Power supply</b>	
Battery charging time	4h
Battery type	Nicd,14.4v,1900 Mah
AC mains supply	190-250V of frequency 50-60Hz
<b>Automatic external defibrillation (AED) — option</b>	100-360J
<b>Blood pressure channel — option</b>	
Range of blood pressure measurements, mm Hg	from 20 to 280
The absolute error of blood pressure measurement in cuff, mm Hg	±3
<b>Pulsoximetry channel — option</b>	
The range of SpO2 measurement, %	0-100
The absolute error of SpO2 readings, %	±3
The range of pulse rate measurement, bpm	from 30 to 240
The absolute error of pulse rate measurement, bpm	±2



<b>Pacing — option</b>	
Types of pacing (External cardiostimulatory channel)	External (EKS) Endocardial (ENDO) Transesophageal (TEES)
External Cardiostimulatory channel modes	Fixed Overdrive Demand
<b>External pacing</b>	
Frequency setting, pulse/min fixed and demand modes overdrive mode	from 40 to 180 from 40 to 250 from 20 to 40
Pulse duration setting, msec	from 10 to 180
Pulse current setting, mA	100-500
Allowed load range, Ohm	
<b>Endocardial pacing</b>	
Frequency setting, pulse/min fixed and demand modes overdrive mode	from 40 to 180 from 40 to 900
Pulse duration setting, msec	0,5; 1
Pulse current setting, mA	from 4 to 20 at a pitch of 2
Allowed load range, Ohm	400-600
<b>Transesophageal pacing</b>	
Frequency setting, pulse/min fixed and demand modes overdrive mode	from 40 to 180 from 40 to 900
Pulse duration setting, msec	5; 10
Pulse current setting, mA	from 4 to 50 at a pitch of 2
Allowed load range, Ohm	700-1300
<b>Data processing</b>	
Memory card slot	microSD
<b>General characteristics</b>	
Dimensions, mm.	310x340x175
Weight, kg, max	7

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