





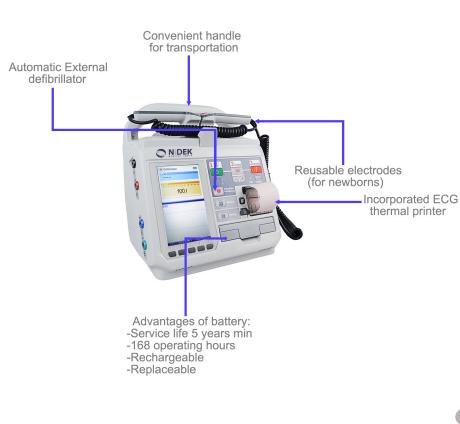
Defibrillator Monitor WANDO with option of automated external defibrillator (AED) is designed for resuscitation and electropulse therapy of acute and chronic cardiac arrythmia, detection of arterial oxygen saturation and measurement of blood pressure, as well as for external, transesophageal, endocardial 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
Defibrillation	
Pulse	Physiologically optimal bipolar pulse with automatic correction of duration and shape depending on the patient impedance
Defibrillation pulse energy, joule(j) for action for child	(additional function of power accumulation over 200J, with the adult electrodes
	00J 6 60J 10
Number of defibrillation pulses from the fully charged storage battery, no more than	00J 70 60J 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
ECG Two ECG receiving chappels	From defibrillation electrodes
Two ECG receiving channels	From defibrillation electrodes and separate ECG cable
ECG-monitoring through a 4-lead ECG cable	III, aVRaVF
ECG-monitoring through a 10-lead ECG cable (option)	IIII, aVRaVF, V1V6
ECG channel sensivity, mm/mV	5, 10, 20
Speed, mm/sec	12.5; 25; 50 from 30 to 300
HR measuring range, bpm error of HR measuring, bpm	±2
Paper width, mm	58
Sweep speed, mm/sec	12.5,25,50
Safety	
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
In the event of failure of the defibrillation	as well as in case of open and closed electrodes  Manual reset of the stored energy to the internal load
Display	Mandal reset of the stored energy to the international
LCD display	colour TFT
	7"
Display size	·
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
Power supply	
Battery charging time	4h
Battery type	Nicd,14.4v,1900 Mah
AC mains supply Automatic external defibrillation (AED) — option	190-250V of frequency 50-60Hz 100-360J
Blood pressure channel — option	fun 20 1 200
Range of blood pressure measurements, mm Hg	from 20 to 280
The absolute error of blood pressure measurement in cuff, mm Hg	±3
Pulsoximetry channel — option	0.400
The range of SpO2 measurement, % The absolute error of SpO2 readings, %	0-100 ±3
The range of pulse rate measurement, bpm	from 30 to 240





Pacing — option	
Types of pacing (External cardiostimulatory channel)	External (EKSN)
	Endocardial (ENDO)
	Transesophageal (TEES)
External Cardiostimulatory channel modes	Fixed
	Overdrive
	Demand
External pacing	
Frequency setting, pulse/min	
fixed and demand modes	from 40 to 180
overdrive mode	from 40 to 250
Pulse duration setting, msec	from 20 to 40
Pulse current setting, mA	from 10 to 180
Allowed load range, Ohm	100-500
Endocardial pacing	
Frequency setting, pulse/min	
fixed and demand modes	from 40 to 180
overdrive mode	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
Transesophageal pacing	
Frequency setting, pulse/min	
fixed and demand modes	from 40 to 180
overdrive mode	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
Data prcessing	
Memory card slot	microSD
General characteristics	
Dimensions, mm.	310x340x175
Weight, kg, max	7

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