

defibrillator

Defibrillator Series	NT-381 / NT-381.C
Set Configuration	Defibrillator, battery pack, sealed electrode pads, Heart+ResQ User Guide, Protective Carrying Case, "NT-MPR" CD-ROM, Bluetooth Adaptor (optional)
Waveform	Truncated Exponential Biphasic
Energy	150J (Adult, Impedance 50Ω) 50J (Pediatric, Impedance 50Ω)
Shock Charge Time	9 seconds (±10%)
Shock Method	Manual button (flashes when ready)
Mode Conversion	Adult/Child toggle button (Child Mode delivers 50J Pediatric shock for patients weighing less than 25kg, approximately 12 months to 8 years old)

physical

Dimensions	8.0cm(H) x 22.0cm(W) x 28.2cm(D)
Weight	2kg (including battery and pads)

environmental

Water Resistance	IP55 per IEC 60529
Temperature	Operating: 0°C to 40°C; Storage: -20°C to 60°C
Humidity (operating/storage)	10% to 95% Relative Humidity, Non-Condensing
Altitude (operating/storage)	0 to 5000 meters
Drop Test	1.5 meters per IEC 60068-2-32

ecg

ECG Recording	LEAD II
Analysis Overview	Patient evaluated to determine whether ECG rhythm represents shockable or non-shockable state. Shockable rhythms are ventricular fibrillation (VF) and ventricular tachycardia (VT).
Analysis Time	Approx. 7 seconds (Read: about 5 seconds, Analyze: within 2 seconds)

self-diagnostics test

<p>* Daily self-diagnostics tests ensure that circuits for measuring patient impedance, control circuit internal discharge of electric energy, and control circuit for charge/discharge of electric energy are functioning properly.</p>
<p>* Upon completion of daily self-diagnostics test, results are automatically stored within device's internal memory.</p>

data

Stored Contents	ECG recordings, operation information (whether shock delivered or not), ambient noise, self-diagnostics history
Memory Capacity	<i>ECG</i> : Records continuously during analysis & CPR administration (5 sec. intervals; up to 5,000 sec.) <i>Ambient Sound</i> : Total 60 minutes (4 instances of 15 minute cycles) <i>Self-Test</i> : Times & results of 3,000 events
Storage Type	Internal Memory
Access / Retrieval	"NT-ADV" Software (for PC) via Bluetooth

auditory/visual instructions

<p>* After device is powered on, step-by-step voice instructions guide first responder through resuscitation procedure, which includes pads placement, hands off times (analysis and shock process), and CPR instructions.</p>
<p>* CPR instruction prompts user to commence cardiopulmonary resuscitation, while flashing metronome light sets pace at 100 compressions per minute for 30 compressions with brief pause for 2 mouth-to-mouth breaths (5 repetitions), in accordance with American Heart Association guidelines.</p>

battery check

Battery Reserve Level	<i>High</i> : three (3) bars <i>Medium</i> : two (2) bars <i>Low</i> : one (1) bar; red Status LED <i>Critical</i> : no bars; red Status LED
Battery Status Audible Warnings	<i>Low</i> : Voice prompt states "Battery's voltage is low, check battery" <i>Critical</i> : Voice prompt states "Change cartridge"

electrode pads

Shelf Life	Two (2) years, for one-time use only
Conductive Gel	PE Foam, Hydrogel
Conductive Element	AgCl (Silver Chloride)
Cable Length	2.1 meters (±1%)
Applicable Ages	All ages (12 months & older)
Sealing	Airtight
Size	125mm x 95mm
Pads Placement	Anterior-lateral (visual details on pads)

battery pack

Type	Non-rechargeable lithium (LiMnO ₂)
Voltage	DC 12V / 4,200mAH
Standby Mode Life	Recommended five (5) years @ 25°C
Capacity	180 shocks @ 25°C, 130 shocks @ 0°C
Dimensions	2.2cm(H) x 16.4cm(W) x 5.4cm(D)
Weight	260g (±10%)