

patient DEFIBRILLATOR

D-100



- Compact 4-in-1 integrated design: Monitoring, Manual Defibrillation, AED and Pacer.
- Compact design, easy to carry and easy to operate.
- 7" display with 3 waveforms assures easy ECG.
- Powerful power capacity with battery to continuous long time monitoring and shocks during transport without external power supply.
- Defibrillation, synchronized cardioversion and AED with Biphasic Technology.
- Escalating dose from up to 360J to Maximize defibrillation success.

TECHNICAL SPECIFICATIONS

PHYSICAL		POWER	
DIMENSIONS	288mm (w) x 203mm (d) x 275mm (h)	AC POWER	
WEIGHT MAIN UNIT	4.7 kg (including ECG/defibrillator/pacing/Resp)	LINE VOLTAGE	100 to 240 VAC (±10%)
	Battery package (each): 0.5 Kg	CURRENT	1.8 to 0.8A
	External paddle sets: 0.8 Kg	FREQUENCY	50/60 Hz (±3 Hz)
		DC POWER	
		INPUT VOLTAGE	12VDC
		POWER CONSUMPTION	190W
ENVIRONMENTAL AND PHYSICAL REQUIREMENTS		BATTERY	
WATER RESISTANCE	IPX4 (without external power)	TYPE	3Ah, 14.8 V, rechargeable lithium ion battery pack.
SOLIDS RESISTANCE	IP4X	NUMBER	1
TEMPERATURE	Operating: 0 to 45°C Storage: -30 to 70°C	CHARGE TIME	Less than 2 hours to 80% and less than 3 hours to 100% with device off.
HUMIDITY	Operating/Storage: 10 to 95%, non-condensation.	CAPACITY INDICATOR	5-segment led indicator for fast battery capacity evaluation
ALTITUDE	Operating/Storage: -381m to +4575m	CAPACITY	(new, fully charged battery)
SHOCK AND VIBRATION	Meets the requirements of 21.102, ISO9919 (Shock and vibration for transport).	MONITORING MODE:	2.5 hours, Monitoring with ECG, continuously and all cables/sensors connected.
BUMP	Meets the requirements of 6.3.4.2, EN1789 (Medical devices for use in road ambulances)	DEFIB MODE:	100 times, 360J discharge at intervals of 1 minute without recording.
FREE FALL	Meets the requirements of 6.3.4.3, EN1789 (Height of fall: 0.75m)	PACING MODE	2 hours, 50 Ohm load impedance, Pacing rate: 80bpm, Pacing Output: 60 mA.
EMC	Meets IEC60601-1-2		
SAFETY	Meets EN/IEC 60601-1	RECORDER	
		METHOD	High-resolution thermal dot array
		WAVEFORMS	Max. 3 channels
		SPEED	25mm/s, 50mm/s
		PAPER WIDTH	50mm
		REPORTS	Real time waveforms, Event Summary, Tabular Trends, Frozen Waveforms, Review, User test, and Configuration.
		AUTO RECORDING	Recorder can be configured to record marked events, charge, shock, alarm, auto test.
DISPLAY			
TYPE	TFT Color LCD		
DIMENSIONS	7 inch		
RESOLUTION	800x480 pixels		
DISPLAY WAVEFORMS	Max. 3 channels		
WAVE VIEWING TIME	Max. 16s (ECG)		

DATA STORAGE		NON-INVASIVE PACING (ACCESSORIES NOT INCLUDED)	
PATIENT PROFILES	Max. 100 patients.	WAVEFORMS	Monophasic square wave pulse.
EVENTS	Up to 1000 events for one patient.	PULSE WIDTH	20ms, ±5%
WAVEFORM STORAGE	Up to 24 hours of consecutive ECG waveform.	REFRACTORY PERIOD	200 to 300ms, ±3% (function of rate).
TABULAR TRENDS	72 hours, resolution: 1 min.	PACING MODE	Demand or fixed
VOICE RECORDING	Max. 180 min in total; max. 60 min for each patient	PACING RATE	40ppm to 170ppm, ±1.5%.
DATA EXPORT	Data can be export to PC through USB flash memory.	PACING OUTPUT	0 mA to 200 mA, ±5% or 5 mA , whichever is greater.
		4:1 PACING	Pacing pulse frequency reduced by factor of 4 when activated.
DEFIBRILLATOR			
WAVEFORMS	Biphasic truncated exponential waveform (BTE), with impedance compensation.	ECG MONITORING	
ENERGY ACCURACY	±2J or 15% of setting, whichever is greater, into 50 Ohm.	LEAD TYPE	3 leads ECG, 5 leads ECG, PADS/PADDLES.
CHARGE TIME	Less than 5 seconds to 200 Joules with a new, fully charged battery. Less than 8 seconds to 360 Joules with a new, fully charged battery.	LEAD SELECTION	I, II, III, aVR, aVL, aVF, V, Pads/Paddles.
SHOCK DELIVERY	Via multifunction defib electrode pads, or paddles.	HEART RATE DISPLAY	Adult: 15 to 300 bpm Pediatric: 15 to 350 bpm Neonate: 15 to 350 bpm
PATIENT IMPEDANCE RANGE	20 to 200 Ohm (External defibrillation).	RESOLUTION	1 bpm
MANUAL MODE		ARRHYTHMIA	Yes
OUTPUT ENERGY	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 15, 20, 30, 50, 70, 100, 150, 170, 200, 300, 360 J.	ALARMS	Yes
SYNCHRONOUS CARDIOVERSION:	Energy transfer begins within 60ms of the QRS peak. Energy transfer begins within 25ms of the External Sync Pulse.	ECG SIZE	2.5mm/mV(x0.25), 5mm/mV(x0.5), 10mm/mV(x1), 20mm/mV(x2), 40mm/mV(x4)
AED MODE		SWEEP SPEED	6.25mm/s, 12.5mm/s, 25mm/s, 50mm/s
OUTPUT ENERGY	User configurable.	PATIENT ISOLATION (DEFIBRILLATION PROOF):	
AED SHOCK SERIES	Energy level: 100 to 360 J, configurable;	TYPE CF	ECG, RESP
SHOCKS SERIES	1, 2, 3, configurable; Default configuration meets 2010 AHA Guidelines.	TYPE BF	external defib.
SENSITIVITY AND SPECIFICITY	Meets AAMI DF-80.	RESPIRATION	
		TECHNIQUE	Trans-thoracic impedance.
		RANGE	Adult: 0 to 120 rpm;
		PEDIATRIC, NEONATE	0 to 150 rpm.
		RESOLUTION	1 rpm.

D-100 MONITOR DEFIBRILLATOR



**EXTERNAL PADDLES: CABLE AND PADDLES IN ONE PIECE, EASY TO STERILIZE.
PADDLE BASE WITH TIGHT LOCKS, ALSO AVOIDING WRONG PLACEMENT
ADULT OR PEDIATRIC PADDLE SIZES, SIMPLE TO SWITCH**



**3/5-LEAD ECG WITH ARR
INTEGRATED RECORDER WITH 3-CH WAVEFORM PRINTING**



- USB PORT (DATA TRANSFER TO PC BY FLASH DISK)
- RJ45 PORT (FOR UPGRADING)
- MULTIFUNCTIONAL PORT FOR ECG OUTPUT AND DEFIB SYNCHRONIZATION INPUT
- POWER CORD LOCK TO ENSURE POWER INPUT IN EMERGENCY SITUATION
- 1 LI-ION BATTERY INCLUDED
- BATTERY LED TO INDICATE POWER CAPACITY PERCENTAGES

Standard Configurations: Pacing, TFT screen, Manual Defibrillation, AED, 3/5-lead ECG with ARR, Resp, Recorder, 1 Li-ion battery, External paddles.

Contact us for additional information.
Note: Specifications subject to change without notice.



Advanced
Instrumentations

6800 N.W. 77 Court, Miami, FL 33166
Phone: 305-477-6331 • Fax: 305-477-5351
sales@advanced-inst.com
www.advanced-inst.com