DRE VidaStat DM
Biphasic Defibrillator

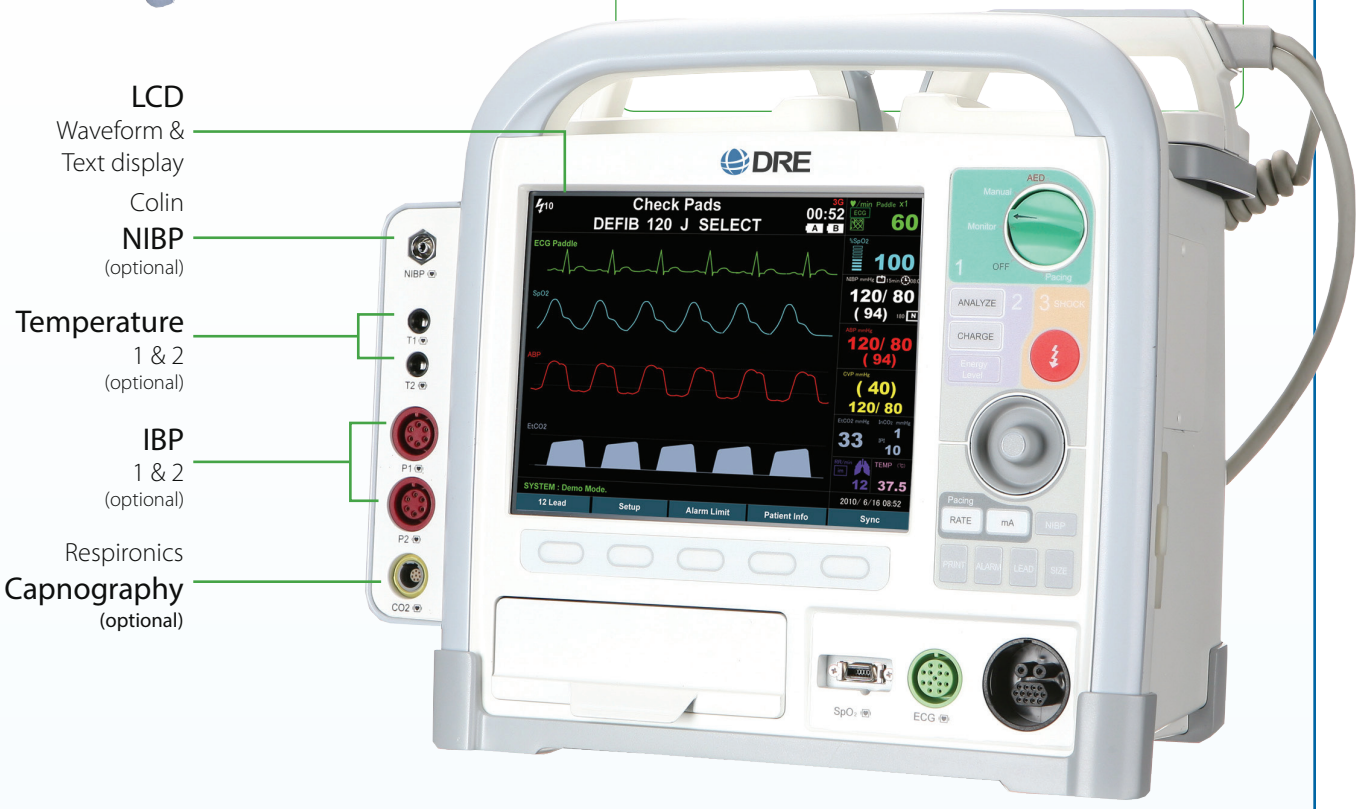
Equipment for the way *you* operate

Biphasic technology, pacing and monitoring all in one portable device

The VidaStat DM operates in both semi-automatic AED mode, with easy to follow step-by-step visual and audio instructions, and biphasic manual defibrillation mode with maximum energy level of 360 Joules. The VidaStat has a full range of monitoring options, including 3 Lead ECG, Nellcor SpO2, Omron NIBP, IBP, temperature and Respironics EtCO2.

Features:

- Manual and AED operation
- Non-invasive Pacing Mode
- Advanced Biphasic Technology
- Pediatric and Adult Paddles
- Data storage for up to 100 patients
  Rechargeable dual battery system
- Integrated thermal printer
- SD Card & USB allows you to review data stored and software upgrade



1800 Williamson Ct. • Louisville, Kentucky 40223 USA
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Specifications:

Display	
Screen Size	170.0x128 (mm) (8.4 in diagonally across the TFT-LCD screen)
Screen Type/Color	Liquid Crystal Display (LCD) Color
Resolution	800x600 pixels
Controls	
Standard Knob; Mode key (Off, AED, Manual, Pacing and Monitor); 11 buttons (Shock, Select Energy Level, Charge, Analyze, NIBP, LEAD, Alarm, Size, Print, RATE, mA); 5 soft key	
Alarms	
Categories: Patient Status and System Status Priorities: Low, Medium and High Priorities Notification: Audible and Visual Setting: Default and Individual Alarm Volume Level: 45 to 85 dB	
Physical Characteristics and Printer	
Instrument	
Dimensions	340x305x210 (mm) (W*H*D) including a battery excluding paddles, options and accessories
Weight	6.16 kg including battery excluding paddles, options and accessories
ECG: Type CF with defibrillation protection SpO2: Type CF with defibrillation protection Temperature: Type CF with defibrillation protection EtCO2: Type CF with defibrillation protection NIBP: Type CF with defibrillation protection IBP: Type CF with defibrillation protection Paddle: Type CF with defibrillation protection Mode of Operation: Continuous	
Printer	
Type	Thermal
Weight	190g
Number of Channels	1 to 3 channels
Paper Width	80 mm
Printer Speed	25 mm/s

Electrical	
Instrument	
Power Requirement	AC Mains 100 to 240 V, 50/60 Hz, 60 to 160 VA
	DC Mains 18Vdc, 7.0A with DC/DC adapter
Battery (Option)	
Type	Li-ion battery
Voltage	14.4V / 6600mAh
Discharge	A minimum of 200 shocks at 200 Joules (per battery)
Operating Time 5 hours (per battery)	At the following condition: no printing, no external communication, no audible alarm sound and room temperature: 25°C Recharge 5 hours with VitaStat turned on/ off
Dual Battery	Automatic Switching
Environmental Conditions	
Operation	
Temperature	0 to 50°C (32 to 122°F)
Humidity	15 to 95% RH, non-condensing
Altitude	-170 to 4,877 m (-557 to 16,000 ft)
Water Resistance	IP34

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Defibrillator	
Biphasic Waveform: Biphasic Truncated Exponential Resuscitation Guidelines: Selectable AHA/ERC	
Manual Mode	
Shock Energy Level: External Paddles: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 15, 20, 30, 40, 50, 75, 100, 125, 150, 175, 200, 300, 360J Automatic Discharge Time: 60 seconds Charging Time to 200J: Within 6 seconds with rated main voltage/DC main Voltage (battery within 7 seconds) Charging Time to 360J: Within 8 seconds with rated main voltage/DC main Voltage (battery within 9 seconds) Synchronous Cardioversion: Energy transfer begins within 60msec of the QRS peak	
AED Mode	
1 ch ECG measurement	
Lead	Lead II
Patient Impedance	25 to 175 Ohm
Heart Rate	20 to 300 bpm
Charging Time to 200J	Within 6 seconds with rated main voltage/ DC main Voltage(battery Within 7 seconds)
Delivered Energy	
The VitaStat delivers shocks to load impedances from 25 to 175 Ohms. The duration of each pulse of the waveform is dynamically adjusted based on delivered charge, in order to compensate for patient impedance variation, as shown below;	
Load resistance (Ohm) Delivered energy (Joule)	
25	203
50	198
75	200
100	199
125	198
150	197
175	197
Pacer	
Pacing Mode	Demand or non-demand
Pacing rate	30 ppm to 180 ppm
Resolution	2 ppm
Accuracy	± 1.5 ppm
Output current	0 mA to 140 mA
Resolution	2 mA
Accuracy	± 5% or 5 mA
QRS Marker: In the demand mode	
ECG	
Heart Rate	
Measurement Rate	0, 20 to 300 bpm
Resolution	1 bpm
Accuracy	±5 bpm

ECG (Electrocardiograph)	
Optional Leads	3 / 5 / 12 Leads
Lead I, II, III, aVR, aVL, aVF, V1, V2, V3, V4, V5, V6, Paddles, Pads	
Lead Off Detection	Detected and displayed
Pacer Detection	Detected pacer pulses of ±2mV to ±700mV with pulse widths of 0.1 to 2msec and rise times 10% of width not to exceed 100msec
Input;	
Input Impedance	5 M Ohm or more
Input Dynamic Range	±5mV AC, ±300mV DC
Voltage Range	±0.5mV ~ ±5mV
Signal Width	40 to 120 ms (Q to S)
Output (Frequency Response);	
ECG Filter	3/5 Lead; 0.5 to 21 Hz
	0.05 to 40 Hz
	1 to 21 Hz
	12 Lead; 0.05 to 40Hz
	0.05 to 150Hz
ECG size	5.0, 10.0, 15.0, 20.0, 30.0 mm/mV
Display Sweep Speeds	25.0 mm/sec
Display Sensitivity	10 mm/mV
Pacing Pulse Detection	On, Off
Electrode Disconnect Alarm	Display and/or sound
Common Mode Rejection (CMRR)	90 dB or more
Defibrillator Discharge Recovery	less than 5 sec per IEC 60601-2-27
Respiration	
IM Respiration	
Technique	Impedence Pneumography
Range	0, 3 to 120 breaths/min
Resolution	1 breaths/min
Leads	RA to LA
Base impedance	500 to 2000 ohm
Delta impedance	0.5 to 3 ohm
Lead Off Condition	Detected and displayed
Defibrillator Protection	Protected
AW Respiration	
Technique	Non-dispersive Infrared Spectroscopy
Range	0 to 150 breaths/min
Accuracy	±1 breaths/min
Display Sweep Speeds	25 mm/sec
Resolution	±0.1°C

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