



Defi is a compact, durable, light weighted defibrillator which integrated monitoring, manual defibrillation, AED and pacer (option). It is a professional biphasic defibrillator-monitor suitable for hospitals and clinics,

Meditech developed two models of Defibrillators

Defi8 is a defibrillator with ECG.PR parameters

Defi9 is a defibrillator with ECG.RESP.SPO2.TEMP.PR.NIBP parameters



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Technical specifications

Defibrillator.

- (1) Defibrillator type Manual, Synchronized, A synchronized,
- (2) Output waveform Monophonic technology /Biphasic technology (optional)
- (3) Energy accuracy $\angle \pm 1\%$
- (4) Energy selection 0, 3, 5, 7, 10, 20,30, 50,100,200,300,360 joule(nominal at a resistance of 50)
- (5) Charging time Maximum 8 seconds to 360 Joules
- (6) Standard Adult/Pediatric Paddles Reusable external adult paddles (pediatric paddles integrated)

Power requirements.

- (a) AC Power supply 110V, 60 Hz /220V, 50 Hz
- (b) Vehicle Voltage DC 12V

Internal Battery Backup

- (1) Battery type Rechargeable lead-acid battery/ lithium battery (optional)
- (2) Charging time Time-Minimum of 4 hours for full charging
- (3) Battery charging During AC Power Supply operation of the device.
- (4) Battery Capacity 100% of the battery will provide 120 min of monitoring; and 30 discharges at 360 joules.

Display: LED Dimensions 7"diagonal {155mm*88mm}

Type: High resolution true-color graphic LED. Resolution: 480X234

Patient Monitor Configurations.

ECG

Lead Mode	5-leads ECG input 3-leads ECG input 12-leads ECG input (option)
Lead selection	I, II, III, aVR, aVL, aVF, V- I, II, III I, II, III, aVR, aVL, aVF, V1~V6 (option)
Gain	AUTO, 0.25x, 0.5x, 1.0x, 2.0x, 4.0x
Input impedance	$\geq 5.0 \text{ M}\Omega$
CMRR	MON $\geq 105\text{dB}$ OPS $\geq 105\text{dB}$
Frequency response	MON 0.5~40Hz OPS 1~25Hz
5-leads or 3-leads ECG module:	MON 0.5~25Hz
12-leads ECG module:	OPS 1~15Hz
Electrode offset potential	$\pm 500\text{mV d.c.}$
5-leads or 3-leads ECG module:	$\pm 300\text{mV d.c.}$
12-leads ECG module:	
Leakage Current	$< 10 \text{ uA}$
ECG signal range	
5-leads or 3-leads ECG module:	$\pm 6.0 \text{ mV}$
12-leads ECG module:	$\pm 3.0\text{mV}$
Baseline recovery	$< 5\text{s}$ after Defibrillation
Pacemaker pulses	No rejection of pulses with amplitudes of $\pm 2\text{mV} \sim \pm 700 \text{ mV}$ and durations of $0.5 \sim 2.0 \text{ ms}$.
Insulation	Breakdown Voltage 4000VAC 50/60Hz

ST segment

Measurement range	-2.0mV~2.0mV
Accuracy	-0.8mV~0.8mV : $\pm 0.02\text{mV}$ or $\pm 10\%$ whichever is greater Over $\pm 0.8\text{mV}$: unspecified
Resolution	0.01mV
Refreshing time	10s

NIBP

Way of measurement	Automatic oscillometry		
Range of measurement	Adult	SYS	30~270 mmHg
		DIA	10~220 mmHg
		MEAN	20~235 mmHg
	Child	SYS	30~235 mmHg
		DIA	10~220 mmHg
		MEAN	20~225 mmHg
	Neo	SYS	30~135 mmHg
		DIA	10~110 mmHg
		MEAN	20~125 mmHg
Range of HYPER measurement	(Only for adult) SYS 40~300mmHg DIA 10~250 mmHg MEAN 20~270 mmHg		
Cuff pressure range	0~280mmHg(0 ~ 300mmHg at HYPER mode)		
Resolution	1 mmHg		

Indication of electrode separation	Every electrode (exclusive of RL)
Sweep speed	12.5mm/s, 25mm/s, 50mm/s

HR

Range	
5-leads or 3-leads ECG module:	10~350 bpm
12-leads ECG module:	25~254bpm
Refreshing time	Per 4 pulses
Resolution	1 bpm
Accuracy	±1% or ±1 bpm, whichever is greater
Sensitivity	≥0.2mVpp
Alarm range	0~350 bpm, continuously adjustable between upper limit and lower limit
Alarm indication	Sound and light alarming
Time to Alarm for Tachycardia	Average 4s
Tall T-Wave Rejection Capability	0-1 mV T-Wave amplitude
Response Time of Heart Rate Meter to Change in Heart Rate	HR change from 80 to 120 bpm: Range: 6 to 10s HR change from 80 to 40 bpm: Range: 6 to 10s

TEMP

Measurement Range	0.0~50.0°C
Accuracy	±0.1°C
Resolution	0.1°C
Unit	Celsius (°C), Fahrenheit (°F)
Refreshing time	1s
Self check	Every 10 minutes
Accuracy	At 45.1~50.0°C, ±0.2°C (exclusive of probe) At 25.0~45.0°C, ±0.1°C (exclusive of probe) At 0.0~24.9°C, ±0.2°C (exclusive of probe)
Connecting cable	Compatible with YSI-400
Range of alarm	0.0~50.0°C, continuously adjustable between upper limit and lower limit
Alarm indication	Sound and light alarming

SpO₂

SpO₂	
Measurement Range	0~100%
Resolution	1%
Accuracy	At 70~100%, ±2% At 0~69%, unspecified
Data update period	<13s
Alarm	User-selectable upper and lower SpO ₂ limits

PR

Measurement Range	25~250 bpm
Resolution	1 bpm
Accuracy	±1% or ±1 bpm, whichever is greater
Data update period	<13s
Alarm	User-selectable upper/lower pulse rate limits

Pressure Accuracy		
Static	±2% or ±3 mmHg, whichever is greater	
Clinical	±5 mmHg average error 8 mmHg standard deviation	
Unit	mmHg, kPa	
Pulse rate range	40 ~ 240 bpm	
Inflation time for cuff	Less than 40s. (standard adult cuff)	
Total cycle time	20 to 45s typical (dependent on heart rate and motion artifact)	
Intervals for AUTO measurement time	1,2,3,4,5,10,15,20,30,45,60,90 minutes 2,4,8 hours	
Overpressure Protection	Hardware and software double protections	
Adult	315±10 mmHg	
Child	265±10 mmHg	
Neonatal	155±10 mmHg	
Range of alarm	SYS	0~300 mmHg, continuously adjustable between upper limit and lower limit
	DIA	0~300 mmHg, continuously adjustable between upper limit and lower limit
	MEAN	0~300 mmHg, continuously adjustable between upper limit and lower limit
Alarm indication	Sound and light alarming	
Measurement Mode	Adult	Manual, Auto and STAT
	Child	Manual, Auto and STAT
	Neonatal	Manual, Auto
	HYPER	Manual, Auto and STAT

RESP

Method	Impedance variation between RA-LL (R-F)
Measuring impedance range	0.2 ~3Ω
Excitation frequency	64.8 kHz
Excitation current	≤300μA at 64.8 kHz
Base line impedance range	500~4000Ω (50~120 kHz exciting frequency)
Measurement Range	0~150 rpm
Resolution	1 rpm
Accuracy	±2 rpm
Gain	x1, x2, x4
Sweep speed	6.25mm/s, 12.5mm/s, 25mm/s
Delay of Apnea Alarm	Off, 20s, 40s, 60s
Alarm indication	Sound and light indication



- **Standard parameter & configuration**

Defi8: ECG .PR .DEFIBRILLATOR

Defi9: ECG .RESP .SPO2 .TEMP .PR .NIBP .DEFIBRILLATOR

- **Recorder**

Auto REC	Turn off auto recording or select the interval to do auto recording. The content of auto recording includes one ECG waveform, PLETH waveform, respiration waveform and all parameters measured.
REC Length	Select the recording length of waveform in auto recording. The Options are 8s, 12s and 16s.
ALM REC Interval	Select the interval of alarm recording when the alarm is occurring continuous. Alarm recording function will be disabled when <OFF> is selected.
Grid	Select if the grid is recorded in the waveform recording area of the recording paper. Options are <OFF>, <ON>.



- **Paddles**

Our company's defibrillator use the composite paddles, an external paddle for adults, built-in paddles for children



- **Battery**



12V chargeable battery for DC
 Battery capacity : +10timesreserve (360joule)
 Normal working condition :
 Working temperature : 5~40°C
 Relative temperature : ≤80%
 Atmospheric pressure : 86kpa~106kpa

- **Packing**

Dimensions: (L) 32. (W) 205. (H) 410mm

Weight: 9.8Kg