Heal Force

Monitor Series
ZD120B

Multi-parameter Patient Monitor

Technical Specifications

Safety
IEC60601-approved, CE marking to MDD93/42/EEC

Dimension and Weight
Dimension	304(W)×279(H)×150(D)mm
Weight	4.2kg

Operation Environment
Power Requirement	AC100-250V, 50/60Hz,140VA，1.4A-0.59A
Temperature	0ºC~40ºC
Humidity	15%~80% (non-condensing)
Patient range	Neonate, pediatric and adult patient

Performance Specifications
Display	12.1" Color TFT LCD
	Rolling and refreshing waveform display
	Resolution:800*600
	Multi displays selectable, including
	Standard display
	Trend coexist display
	Large-font display
	OxyCRG dynamic view display
Trace	7traces
	Sweep speed:12.5mm/s,25mm/s,50mm/s
Indicator	Alarm indicator light
	Power indicator light
	Battery indicator light
	QRS beep and alarm sound
Interface	Parameter cable interface
	AC Power input socket
	Network interface
	External VGA interface for connection

Li-ion Battery
(one piece)	Rechargeable
	8 hours for charging
	(to 90% battery capacity)
	≥2 hours for continuous working
Trend time	168 hours
Alarm	User-adjustable High, Medium, and Low limits 3-level audible and visual alarm
Networking	Connected to central station system

Recorder
	Thermal array
	Waveform: 4 Channel (standard)
	Record mode: manual, on alarm, time-defined, etc
	Paper width: 112mm
	Print speed: 25mm/s

ECG
	3-Lead or 5-Lead selectable
Input	3 leadwire cable:RA;LA;LL or R;L;F
	5 leadwire cable:RA;LA;RL;LL;V or R;L;N;F;C
Lead selection	3-lead: I,II,III
	5 lead:I, II, III, V, AVR, AVL, AVF
ECG Waveform	2 channel
Gain selection	×0.25,×0.5,×1,×2,x4,Auto
Sweep speed	12.5mm/s, 25mm/s, 50mm/s
Heart Rate for Neonate	15-350BPM
Heart Rate for Adult/Pediatric	15-300BPM
Accuracy	1bpm or 1%, whichever is greater
Resolution	1bpm
Filter	Diagnostic mode:0.05-100Hz
	Monitor mode:0.5-40Hz
	Surgical mode:1.0-25Hz
Protection	Withstand 5000VAC/50Hz Voltage in isolation
	Against electrosurgical interference and defibrillation
Alarm range	15-350bpm
ST segment detection	Measurement range: -2.5mv to 2.5mv
	Alarm range: -2.5mv to 2.5mv
Arrythmia analysis	Yes
Alarm	Yes,audible and visual alarm, alarm event recallable
Pace detection	Yes
Drug dose calculation	Yes
Standby mode	Yes

Respiration
Method	Thoracic impedance
Measurement range	Neonate/pediatric: 0~150rpm
	Adult: 0-120rpm
Apnea alarm	No alarm,10s,15s,20s, 25s,30s,35s,40s selectable
Alarm	Yes, audible and visual alarm, alarm events recallable

NIBP
Method:	Oscillometric
Measurement modes	Manual/Automatic/Continuous
Displayed parameters	Systolic, diastolic and MAP(mean arterial pressure)
Auto measure time	Adjustable
Measurement unit	mmHg/kPa selectable
Measurement type	Systolic, Diastolic, Mean
Range of Systolic pressure	Adult：40-270mmHg
	Pediatric: 40-200mmHg
	Neonate：40-135mmHg
Range of Diastolic pressure	Adult: 10-210mmHg
	Pediatric: 10-150mmHg
	Neonate: 10-100mmHg
Range of Mean pressure	Adult: 20-230mmHg
	Pediatric: 20-165mmH
	Neonate：20-110mmHg
Accuracy	±6mmHg
Resolution	1mmHg
Alarm	Systolic, Diastolic ,Mean
Over-pressure protection	Double safety protection

SpO2
Measurement range	0%~100%
Resolution	1bpm
Accuracy	±2%(70%-100%); unspecified(0-69%)
Alarm range	0%~100%
Pulse rate	Range:20bpm ~ 254bpm
	Resolution:1bpm
	Accuracy:±3bpm
	Alarm range:0~254bpm

Temperature
Measurement range	0~50ºC
Resolution	0.1ºC
Accuracy	±0.1ºC
Channel	T1、T2、TD

IBP
Channels	1 or 2 selectable
Measurement range	-50~400mmHg
Resolution	1mmHg
Accuracy	±1mmHg or ±2%, whichever is greater(without sensor)
Pressure names	ART, PA, CVP, RAP, LAP, ICP
Alarm range	-50~400mmHg
Pressure transducer	
Sensitivity	5µv/V/mmHg
Impedance range	300-3000w

ETCO2
Measurement range	0-99mmHg	
Accuracy	0 to 40mmHg	±2mmHg
	41 to 76mmHg	± 5mmHg
	77 to 99mmHg	±10mmHg
Sample flow rate	Minimum: 50ml/m-7.5ml/m	
	Maximum: 50ml/m+15ml/m	
Start-up time	<1min,once the module starts up, it reaches ISO After 1 min,enter the full accuracy mode	
Respiration rate	0 to 120rpm	
Respiration rate accuracy	±2 rpm	
Response time	<240msec（10% to 90%）	

Standard Configuration:ECG,SpO2,NIBP,TEMP,PR/HR,RESP
Optional Functions:EtCO2,2IBP, Recorder