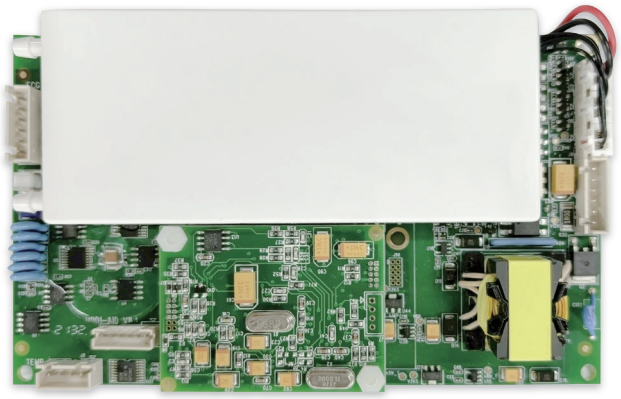
Multi-parameter
Module MMP3D

It is used to monitor the patient's blood oxygen, blood pressure, electrocardiogram, respiration, body temperature, heart rate, and pulse



Dimension： 140mm×85mm×25mm

3/5 lead ECG | SPO2 | NIBP | HR | RR | PR | 2×TEMP

Features

- With pulse oxygen, pulse rate monitoring function.
- With monitoring function of systolic blood pressure, diastolic blood pressure and mean pressure.
- With 3/5 lead ECG, 1 breathing, 2 body temperature monitoring functions.
- Provide three patient modes: adult, child and newborn mode.
- Module thickness is only 25mm, exquisite and compact.
- Integrated blood pressure gas circuit system design.
- The working status of the real-time transmission module: hardware status, software status and sensor status, the upper computer can alarm in time according to the information.
- When the perfusion index is as low as 0.075%, the blood oxygen monitoring is accurate and reliable, meeting the application of surgery and ICU.
- Both blood oxygen and blood pressure adopt advanced algorithms, with anti-motion interference and weak signal measurement performance.
- Blood pressure measurement has three modes: manual, automatic and continuous mode.
- Blood pressure measurement has hardware and software dual overvoltage protection functions.
- Double timeout protection for blood pressure measurement (module timeout protection, provide timing trigger port of host computer).
- The measurement results of the ECG measurement part include heart rate, body temperature, respiration, ST segment offset values of I, II, and V1 channels, and arrhythmia results.
- ECG measurement has diagnosis, monitoring, HARDEST and surgery modes.
- Has 26 arrhythmia analysis functions.

Specifications

ECG

Range	0.15Mv-5.5mV
Accuracy	Undefined
Resolution	2.36uV/LSB
lead type	3 Lead:I or IIor III 5Lead:I ,II,III,AVR,AVL,AVF,V1

RR

Range	0~120rpm
Accuracy	15-120rpm: ±2rpm or ±2%; Undefined(<15rpm)
Base resistance	500-2000Ω
Variable resistance	0.2-3.0Ω

HR

Range	adult: 15~300bpm Child/Newborn: 15~350bpm
Accuracy	±1bpm
Resolution	1bpm

SPO2

Range	0~100%
Accuracy	±2%(70%~100%)Undefined(0~69%)
Resolution	1%

NIBP

Pressure Range	0-300mmHg
Pressure Accuracy	±2mmHg or ±1% (Whichever is greater)
Resolution	1mmHg
Systolic Range	Adult : 40–270mmHg Pediatric : 40–235mmHg Neonate : 40–130mmHg
Distolic Range	Adult : 10–210mmHg Pediatric:10–200mmHg Neonate:10–90mmHg
Mean Range	Adult : 20–230mmHg Pediatric : 20–225mmHg Neonate : 20–100mmHg
Accuracy	The mean deviation<±5mmHg The standard deviation<8mmHg

PR

Range	25~300bpm
Accuracy	±3bpm
Resolution	1bpm

PI

Range	0~20%
Accuracy	Undefined
Resolution	0.001%

TEMP

Range	0-50°C
Accuracy	±0.1°C
Resolution	0.1°C

Electical Specification

Power supply	DC.12V±5%
Power consumption	≤6W
Communication	TTL,USART
Temperature	Operating 0°C~ 70°C Storage -40°C~ 70°C

Compliance

Standard	IEC 60601-2-27: 2011	IEC 80601-2-30: 2018	DIN EN ISO 81060-1: 2012
	BS EN 1060-3:1997 +A2: 2009	ISO 80601-2-61: 2017	AAMI EC57:2012/(R)2020

* The data is subject to change without notice. Please refer to the manual for the contraindications and precautions

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