

PMT-3000

Critical Care Patient Monitor



EPCC / PRODUCTS / APPLICATION / SOFTWARE / ACCESSORIES / CONSUMABLES / SERVICES

Analytical Technologies Limited

An ISO 9001 Certified Company

www.analyticalgroup.net

►► Features

- 15.6" High resolution TFT LCD Touch screen
- 12 waveform display and upto 12-lead ECG analysis
- SpO2 support PVI and Perfusion Index with low perfusion 0.2%
- MEWS Score (Modified Early Warning Score)
- 15.6" High resolution TFT LCD Touch screen
- 12 waveform display and upto 12-lead ECG analysis
- Powerful calculation(Hemodynamic, Dose, Oxygenation, Ventilation)
- Pacemaker detection
- ST & Arrhythmia Analysis
- SpO2 support PVI and Perfusion Index with low perfusion 0.2%
- Battery Backup of 2 Hours with single Battery. Easy to replace
- Aspect BISx Module, NMT(Organon TOF-Watch)module optional
- Wired/Wireless CMS, support HI7 protocol to HIS
- SpO2 pulse-tone modulation (Pitch Tone)
- VGA support external display
- Graphical & Tabular Trend review (120 Hours)
- 48 Hours holographic wave review for each patient (stored in SD card)
- Modified Early Warning Score (MEWS)



Easy access to view the historical data

- 120** Hours long trend
- 60** Min short trend
- 1000** NIBP measurement
- 200** alarm event

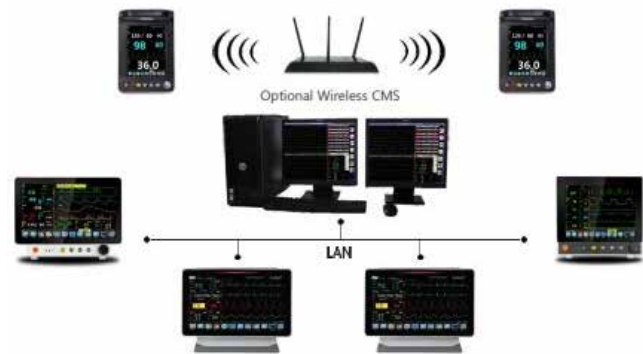


Central Monitoring System

Upto 64 beds

Network is compatible to wired or wireless CMS

Auto adaptable to different screen resolution



►► Configuration

5-lead ECG, SpO2, NIBP, TEMP, Resp, PR. Li-ion battery

►► Optional

12-Lead ECG, Masimo/Nellcor SpO2, Dual IBP, C.O., EtCO2, Multi-gas, BIS, NMT; VGA, Thermal Recorder, Wired/Wireless CMS



Provides anti-motion and anti-low perfusion SpO2 measurement.



Sidestream/Mainstream EtCO2
Allows selection of the modality best suited to the specification, monitoring with infrared absorption technique.



2-4 Channel, support IBP waveform overlapping display



Monitor the level of consciousness of the patient under general anesthesia or sedation. provides BIS, SQI, EMG, SR, SEF, TP, PC value and EEG wave.



Intergrade Organo



Cardiac Output



12-Lead ECG



4 Channel IBP



OxyCRG Screen



Dynamic Trends

►► Technical Specifications

Display : 15.6" TFT Touch screen Resolution : 1366 x 768 Number of traces : 12 waveforms

I/O : LAN: 1 Standard Rj45 port WLAN: IEEE 802.11b/g/n USB: 2 USB connectors SD: 1 SD card socket VGA: 1 VGA monitor connector Output: 1 connector for Nurse call, Defib Sync Analog Output

ECG : Lead type : 3 Lead, 5-Lead, 12-Lead
 ECG waveform: 2 Channels, 7 Channels, 12 Channels
 Display sensitivity:
 2.5mm/mV (x0.25), 5mm/mV (x0.5)
 10mm/mV (x1.0), 20mm/mV (x2.0)
 Wave sweep speed :
 6.25mm/s, 12.5 mm/s, 25 mm/s, 50 mm/s

Bandwidth :
 Diagnostic mode : 0.05Hz~100Hz
 Monitor mode: 0.5Hz~40Hz
 Surgery mode: 1Hz~20Hz
 Strong filter mode: 5Hz~20Hz

CMRR>100dB

Notch: 50/60Hz notch filter can be set to on or off

Differential input impedance>5MΩ

Electrode polarization voltage range: ±400mV

Baseline recovery time<3s after defibrillation (in monitor and surgery mode)

Calibration signal : 1mV (peak-peak), accuracy ±3%

RESP: Measurement method : Thoracic electrical bioimpedance

Measuring lead: Lead I, II
Wave gain: x0.25, x0.5, x1, x2
Respiratory impedance range: 0.5-5Ω
Baseline impedance: 500-4000Ω
Gain: 10 grades
Scan speed: 6.25mm/s, 12.5mm/s, 25mm/s

TEMP: Accuracy: ±0.1°C or ±0.2°C (without probe)

Measurement range: 0~50°C (32~122°F)
Channel : Two channels
Resolution: 0.1°C
Parameters : T1, T2 and TD

SpO2: Measurement range : 0-100%

Resolution : 1%
Accuracy : ±2% (70-100%, Adult/Paediatric);
±3% (70-100%, Neonate);
0-69%, unspecified
Refreshing Rate: 1s

Masimo SET SpO₂(Optional) : Measurement range : 0-100%

Resolution: 1%
Accuracy : ±2% (70-100%, Adult/Pediatric, Non-Motion,
Low perfusion);
±3% (70-100%, Neonate, Non-motion);
0-69%, unspecified
Refreshing Rate: 1s

Pulse Rate : Range: 30~254 bpm

Resolution : 1 bpm
Accuracy : ±3bpm (non-motion)
±5bpm (motion)
Refreshing rate: 1s

IBP(Optional): Channel : 2-Channel or 4-Channel

Measurement Types: Systolic, Diastolic, Mean
Range: 0mmHg~300mmHg
Resolution: 1mmHg
Accuracy:
±2% or ±1mmHg, whichever is greater(without sensor)
Sensitivity: 5uV/mmHg/V
Impedance range: 300 to 3000Ω

NIBP : Measurement method : Automatic oscillometric method

Operating mode: Manual, automatic, continuous

Measurement unit: mmHg/kPa selectable

Typical measurement time: 20~40s

Measurement type : Systolic, Diastolic

Mean Measurement range (mmHg)

Range of Systolic pressure: Adult 40-270

 Pediatric 40-230

 Neonatal 40-135

Range of Diastolic pressure: Adult 10-210

 Pediatric 10-150

 Neonatal 10-100

Range of Mean pressure: Adult 20-230

 Pediatric 20-165

 Neonatal 20-110

Measurement accuracy

Maximum average error : ± 5 mmHg

Maximum standard deviation: ± 8 mmHg

Resolution : 1mmHg

interval: 1,2,3,4,5,10,15,30,60,90,120,180,240,480 minutes

Overpressure protection: Software and hardware,
double safety protection Cuff

Pressure range: 0-280mmHg

C.O.(Optional): Method: Thermodilution

Range: C.O.: 0.1 to 20 L/min

 TB : 23 to 43°C

 T1 : 0 to 27°C

Accuracy : C.O. : $\pm 5\%$ or ± 0.1 L/min, whichever is greater

TB, T1 : $\pm 0.1^\circ\text{C}$ (without sensor)

Phasein Multi-gas IRMA AX+Mainstream CO2(Optional): Gas: CO₂,N₂O,HAL,ISO, ENF,SEV,DES with Automatic Identification

Warm-up time: Full accuracy within 20 seconds for IRMA AX+

CO₂ Accuracy: 0-10%: $\pm(0.2\%+2\%$ of the reading)

 0- 15%: $\pm(0.3\% + 2\%$ of the reading)

N₂O Accuracy: 0-100%: $\pm(2\%+2\%$ of the reading

HAL, ISO, ENF: 0-8%: $\pm(0.15\%+ 5\%$ of the reading)

SEV: 0-10%: $\pm(0.15\%+5\%$ of the reading)

DES: 0-22%: $\pm(0.15\% +5\%$ of the reading)

Agent identification time:<20s(typical <10s)

AWRR range: 0-150 bpm

AWRR accuracy: +/- 1bpm

Apnea time: 20s, 25s,30s,35s,40s

Recorder (Optional): Built-in, Thermal dot array
Horizontal resolution : 16 dots/mm (25 mm/s paper speed)
Vertical resolution : 8 dots/mm
Paper speed: 25 mm/s, 50 mm/s
Number of waveforms channels: 3

Phasein IRMA Sidestream CO2 (Optional): Warm-up time : Full accuracy within 10 seconds
Sampling flow rate : 50ml/min(± 10 /min)
Accuracy: $\pm(0.2\% + 2\%$ of the reading)
Measurement Range : 0-15%
Rise time : 200ms, typical at 50ml/min flow rate
Total response time:
within 3 seconds (with 2 m Momoline sampling Line)
AWRR Range : 0-150bpm
AWRR Accuracy : ± 1 breath

Phasein IRMA Mainstream CO2 (Optional) : Measurement Range: 0-15%
Warm-up time: Full accuracy within 10 seconds
Accuracy : $\pm(0.2\% + 2\%$ of the reading)
AWRR Range : 0-150bpm
AWRR Accuracy : ± 1 breath

Aspect BISx Module(Optional) : Parameter Measurement:
BC: 0~30 (Only limited to the combined use of an external sensor with a BIS module)
EMG: 30~55dB(bar chart) with intensity between 30dB and 80dB(tendency chart)
BIS: 0~100
SQI: 0%~100%
SR: 0%~100%
SEF: 0.5Hz~30Hz
TP: 40~100Db
EEG Measurement > 5M Ω
Noise(RTI)<2 μ V(0.25~50Hz)
Input signal range : ± 1 MV
EEG bandwidth between : 0.25Hz~110Hz

Operation Environment: Power : AC - 250, 50/60Hz
Temperature : 0-40°C
Humidity: 15-85%
Patient Range : Adult, Pediatric, Neonate

Other Features:

- Agent mixture detection MAC value display (Optional)
- 12 waveform display and upto 12-lead ECG analysis
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- Modified Early Warning Score (MEWS)
- IPX-Level1 Cabinet

HPLC Servicing, Validation, Trainings and Preventive Maintenance :

HPLC Servicing :HPLC Servicing : We have team of service engineers who can attend to any make of HPLC promptly @the most affordable cost.

Trainings :We also take up preventive Maintenance to reduce downtime of HPLC's Trainings.

AMC's/CMC :AMC's/CMC :We offer user training both in-House and at customer sites on HPLC principles, operations, trouble-shooting.

Validations :Validations :We have protocols for carrying out periodic Validations as per GLP/GMP/USFDA norms.

Instruments :Instruments :We offer instruments/Renting Services Modules like pumps,detector etc. on Rent.



About Analytical Technologies

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Our Products & Technologies



Regulatory compliances



Corporate Social Responsibility

Analytical Foundation is a nonprofit organization (NGO) found for the purpose of:



Analytical Foundation

1. Research & Innovation Scientist's awards/QC Professional Award : Quality life is possible by innovation only and the innovation is possible by research only, hence ANALYTICAL FOUNDATION is committed to identify such personalities for their contributions across various field of Science and Technology and awarding them yearly. To participate for award, send us your details of research / testing / publication at Info@analyticalfoundation.org

2. Improving quality of life by offering YOGA Training courses, Work shops/Seminars etc.

3. ANALYTICAL FOUNDATION aims to DETOXYFY human minds, souls and body by means of yoga, Meditation, Ayurveda, Health Care, Awards, Media, Events, Camps etc.

Reach us @



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