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# Analytical Technologies Limited

An ISO 9001 Certified Company

www.analyticalgroup.net

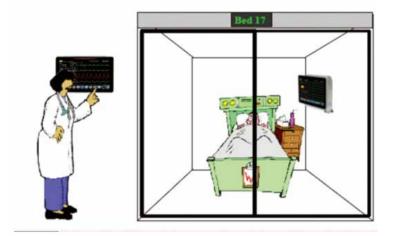


## **Features**

- 15.6"/17"/19" switchable TFT LCD Touch screen
- Aluminum material shell
- · Fanless design allows for quite care environment
- 10 waveform display,up to 12-lead ECG analysis
- Powerful calculation(Hemodynamic,Dose,Oxygenation,Ventilation)
- SpO2 support PVI and PI, low perfusion 0.2%
- BIS module, NMTmodule optional
- Wired/Wireless CMS, support HL7 protocol to HIS
- SpO2 pulse-tone modulation (Pitch Tone)
- Support VGA/HDMI external display
- Graphical & tabular trend review( 120 hours)
- 48H full disclosure wave review for each patient



Multiple-parameter options & Flexible screen size options





## **>>** 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; HDMI, Thermal Recorder, Wired/Wireless CMS



Measure-through Motion and Low Perfusion pulse oximetry delivers accurate and reliable oxygenation



IRMA Mainstream & ISA Sidestream Analyzers Allows selection of the modality best suited to the application



**IBP** 

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

-t-t-tti-t-t-t-





OxyCRG Screen



4 Channel IBP



**Dynamic Trends** 



# **>>** Technical Specifications

### Display :

15.6" TFT Touch screen Resolution : 1366 x 768 Number of traces : 12 waveforms Dimension 15.6": 403×320×185mm(L×W×T)

19": 470×327×185mm(L×W×T) Weight: < 10kg under standard configuration LAN: 1 standard RJ45 port WLAN:IEEE 802.11b/g/n

USB: 2 USB connectors

HDMI: 1 HDMI monitor connnector

Output:1 connector for Nurse call, Defib Sync Analog Output

### ECG:

Lead type :3-lead,5-lead,12-lead(Optional) ECG waveform: 2 channels, 7 channels, 12 channels Display sensitivity: 2.5mm/mV (×0.25), 5mm/mV (×0.5), 10mm/mV (×1.0), 20mm/mV (×2.0) Wave sweep speed: 3.125mm/s, 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:  $0.5-5\Omega$ Baseline impedance:  $500-4000\Omega$ 

Gain: 10 grades

Scan speed: 3.125mm/s, 6.25mm/s, 12.5 mm/s, 25mm/s



#### TEMP:

Accuracy:±0.1 °C or ±0.2°C °F (without probe) Measurement range: 5~50°C (41~122°F) Channel: Two channels Resolution: 0.1°C Parameters: T1,T2 and TD

#### SpO2:

Measurement range : 0-100% Parameter monitoring: Perfusion Index(PI) Pleth Variability Index(PVI) Resolution: 1%

Accuracy: ±2% or ±2bpm Refreshing Rate: 1s Pleth wave speed: 3.125mm/s, 6.25mm/s, 12.5 mm/s, 25mm/s

#### SET SpO<sup>2</sup>(Optional) :

Measurement range : 0-100% Resolution: 1% Accuracy:  $\pm 2\%$  (70-100%, Adult/Pediatric,non-motion, low perfusion);  $\pm 3\%$  (70-100%, Neonate,non-motion);  $\pm 3\%$  (70-100%, motion); 0-69%,unspecified Refreshing Rate: 1s

#### Pulse Rate :

Range: 30~300 bpm Resolution : 1 bpm Accuracy : ±2bpm ( non-motion) ±5bpm ( motion) Refreshing rate: 1s

#### IBP(Optional):

Channel:2-channel or 4-channel ART: 0 to 300 mmHg PA: -6 to 120 mmHg CVP/RP/LAP/ICP: -10 to 40 mmHg Measurement range: P1/P2 -50 to 300 mmHg Resolution:1mmHg Accuracy:  $\pm 2\%$  or  $\pm 1$ mmHg, whichever is greater(without sensor) Sensitivity: 5uV/mmHg/V Impedance range: 300 to 3000 $\Omega$ 



#### 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)

Measurement range (mining)		
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 : ±5mmHg Maximum standard deviation: ±8mmHg 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 45°C T1 : 0 to 27°C Accuracy : C.O. :  $\pm 5\%$  or  $\pm 0.1L$ /min, whichever is greater TB, T1 :  $\pm 0.5$ °C ( without sensor)

### Northern Mainstream CO2(Optional):

Measurement range: 0-19.7%,150mmHg, or 0-20kPa Resolution: 0.1mmHg Measurement accuracy 0 - 40 mmHg: ± 2 mmHg 41 - 70 mmHg: ± 5% of reading 71 - 100 mmHg: ± 8% of reading 101 - 150 mmHg: ± 10% of reading Respiration rate: 3-150 bpm Respiration rate accuracy: 1% ±1bpm Warm-up time: 97% within 8s, full accuracy within 20s



#### Northern Sidetream CO2(Optional) :

Measurement rage: 0-20% (0-150mmHg) Accuracy: < 5.0% CO 2: ± 2 mmHg > 5.0% CO 2: < 6% of reading Respiration rate: 2 ~ 150 BPM Respiration rate accuracy: 1% ±1BPM Warm-up time: 97% within 45s, full accuracy within 10 min Rise times(t10-90%): About 100ms, when flow is 100 ml/min, adult water trap, 1.5m sampling tube Delay time: <3sec when flow is 100 ml/min, adult water trap, 1.5m sampling tube

#### Recorder (Optional) :

Built-in, Thermal dot array Horizontal resolution :16 dots/mm (25 mm/s paper speed) Vertical resolution:8 dots/mm Paper speed: 12.5mm/s, 25 mm/s, 50 mm/s Number of waveform channels: 3

#### ISA Sidestream CO2 (Optional) :

Warm-up time: Full accuracy within 10 seconds Sampling flow rate: 50ml/min(+/-10/min) Measurement Range: 0 -25% Accuracy: 0~15% (±0.2% of the reading) 15~25%, unspecified 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

### IRMA Mainstream CO2 (Optional) :

Measurement Range: 0 -25% Accuracy: 0~15% (±0.2% of the reading) 15~25%, unspecified Warm-up time: Full accuracy within 10 seconds AWRR Range: 0-150bpm AWRR Accuracy:±1 breath

### **Operation Environment :**

Power: AC 100-250V, 50/60Hz Temperature: 5-40 °C Humidity: <80% Patient Range: Adult, Pediatric, Neonate



### Multi-gas ISA OR+/IRMA AX+ 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%:±(0.2%+2% of the reading) 0-15%:±(0.3%+2% of the reading) N2O Accuracy: 0-100%:±(2%+2% of the reading) HAL,ISO,ENF: 0-8%:±(0.15%+5% of the reading) SEV:0-10%: ±(0.15%+5% of the reading) DES:0-22%: ±(0.15%+5% of the reading) Agent identification time: <20s(typical < 10s) AWRR range: 0-150bpm AWRR accuracy: +/-1bpm Apnea time: 20~60s

#### Aspect BISx module(Optional) :

Parameter Measurement: BC:  $0 \sim 30$ (Only limited to the combined use of an external sensor with a BIS module) EMG:  $30 \sim 55$ dB(bar chart)with intensity between 30dB and 80dB (tendency chart) BIS:  $0 \sim 100$ SQI:  $0\% \sim 100\%$ SR:  $0\% \sim 100\%$ SEF: 0.5Hz $\sim 30$ Hz TP:40 $\sim 100$ Db EEG Measurement: Input impedance $>5M\Omega$ Noise(RTI) $< 2\mu$ V( $0.25 \sim 50$ Hz) Input signal range:  $\pm 1$ Mv EEG bandwidth between: 0.25Hz $\sim 110$ Hz

#### **NMT(Optional) :**

Microprocessor-controlled Stimulation Mode: TOF, TOFS, PTC, 1Hz Twitch, 0.1Hz Twitch ,DBS DBS3.3 and 3.2(Double Burst) , Tetanic Stimulation (Burst), 5s – 50Hz or 100Hz Output (accuracy±5% of full scale value) Surface electrodes: Constant current,0-60mA(0-12/18µC) up to 5KOhm. Monophasic, 200µs or 300µs pulse width Needle electrodes: Constant current,0-6mA(0-0.24µC) up to 5KOhm. Monophasic, 40µs pulse width Acceleration transducer: Accuracy±5% of full scale value Temperature sensor: Range 20.0-41.5°C(accuracy±5°C)



# 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 Maintenace 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, troubleshooting. Validations :Validations :We have protocols for carrying out periodic Validations as per GLP/GMP/USFDA norms. :Instruments :We offer instruments/Renting Services Modules like pumps, detector etc. on Rent. Instruments





system

## **About Analytical Technologies**

Analytical Technologies is synonymous for offering technologies for doing analysis and is the Fastest Growing Global Brand having presence in at least 96 countries across the global. Analytical Technologies Limited is an ISO:9001 Certified Company engaged in Designing, Manufaturing, Marketing & providing Services for the Analytical, Chromatography, Spectroscopy, Bio Technology, Bio Medical, Clinical Diagnostics, Material Science & General Laboratory Instrumentation. Analytical Technologies, India has across the Country operations with at least 4 Regional Offices, 6 Branch Offices & Service Centers. Distributors & Channel partners worldwide.

# **Our Products & Technologies**

Chemistry Analyzer

RTPCR

CLIA



Analyzer

Size Analyzer

# **Regulatory compliances**



# **Corporate Social Responsibility**

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



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 personallities 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 DETOXIFY human minds, souls and body by means of yoga, Meditation, Ayurveda, Health Care, Awards, Media, Events, Camps etc.





#### HPLC Solutions

#### MultipleLabs Analytical Bio-Med

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#### **Analytical Foundation (Trust)**

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