

MEDICAL DEVICES



About Us

THE COMPANY

Pro Health Solutions is a health-related company with our current product portfolio of medical equipment such as critical healthcare devices and sharp bins.

We design and formulate our products under our brand name 'Pro Health', partnering with the world's leading manufacturers.

The company's mission is to provide quality healthcare products at competitive prices. We are experienced in implementing highly complex and time sensitive supply chain projects.

We have a successful track record of serving the UK's National Health Service (NHS) on multiple framework agreements.

Our range of medical devices for critical healthcare applications includes Anaesthetic Machines and Ventilators with ICU or Transportation and Emergency Line. We also offer a vast range of patient monitor and ECG devices.

Our business is hinged to our Quality Management System to ISO9001:2015 awarded by BSI.

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PROA - 9000

Compact and Practical Anesthesia Machine



PROA7200(basic)



PROA7600



PROA7200(high)



PROA7300



PROA7700

Display

- 15 inch touch screen with no dead space.
- NEW interface design with user friendly layout and color assortment.
- Day/Night display mode brings a better visual perception to users. Night mode suitable for dark environment.
- Configured ventilation modes including VCV, PCV, PSV, SIMVV, SIMV-P, PA-VC. Also displays pressure, fowrate, volume and CO2 waveform in same interface.
- Typical display for Zoom in/out, comparison, freeze.
- Comprehensive monitoring capabilities include parameters monitoring, preset parameters, alarm indication and breathing waveform monitoring.
- Electronic flowmeter with electronic gas mixing.
- Backup rotameter is also applied for safety issue.
- Show last 72hrs trends for different monitoring parameters.
- 3000 logs record for setting and alarm.

Integrated Breathing Circuit

- Integrated breathing circuit with APL valve, excellent tightness and easy to use.
- Low essential resistance, good mechanical compliance.
- Replacing drive bellow is not required when operating pediatric anesthesia.
- Drain cup design ensure no water trap in the breathing circuit.
- Built-in design duo flow sensor (no maintenance required).
- 2 L Large volume of CO2 canister.
- Autoclave 134°C.

High-precision Vaporizer

- Vaporizer can support low flow anesthesia (as low as 0.2L/min) and large flow anesthesia (up to 15L/min).
- Accurate output of concentrations under varying conditions of pressure, flow and temperature.
- Support Selectatec mounting type and cage mount compatible.
- Fill-in type: pouring.
- Agent type: Isoflurane, Enflurane, Halothane, Sevoflurane.
- Service Free.

AGSS

- Made by aluminum alloy.
- High strength, light weight, never rusts.
- Enhance the safety of the environment in which members of staff in close proximity with waste anaesthetic gases and vapors (agents) work.

Module plug in design

- Plug in design available for monitoring SPO2, CO2, FiO2 and 5AA (anesthetic gases module).

Yoke system

- Up to 3 back up cylinders with A-type 11L size.

ACGO

- International standard design. (diameter: 22mm).
- Convenient for patients' oxygen inhalation and postoperative recovery.
- To connect with T circuit or Bain circuit for open-operation.

Technical Parameters	
Patient Range	Adult/Pediatric/Infant
Display screen	■15 inch High Resolution Colorful TFT-LCD Screen ■Touch screen
High Precision Vaporizer	■Standard: 2 Vaporizers (Isoflurane, Sevoflurane, Halothane, Enflurane)
	■Support large flow anesthesia: up to 15L/Min
Flowmeter	■Electronic Flowmeter (O2 , N2O, AIR) ■Spare Mechanical flowmeter (O2)
Gas source	O2 , N2O, AIR
O2 Flush	25-75L/min
Backup battery	Up to 120 minutes
Modes of Ventilation	■Standard: VCV(IPPV), PCV, PSV, SIMV-V, SIMV-P, MANUAL, A/C, STAND-BY ■Optional: PA-VC
Tidal volume (Vt)	10ml-1500ml
I:E Range	4:1-1:8
PEEP	Integrated, Electronic Control OFF, 0 cmH2O - 30 cmH2O
Respiration Rate Range	1 bpm - 100 bpm (1-40bpm under SIMV)
Minute volume range	>18L/min
Large Volume of CO2 absorber	2L
Monitoring	■Standard: VT, MV, Air Pressure, I:E range, Lung compliance, Plateau, O2 Concentration ■Optional: ETCO2, Anaesthetic gas
Alarm Limits	■No tidal volume
	■Minute volume (Up and Low)
	■Paw (Up and Low)
	■Pressure of gas source low
	■FiO2 limitation O2
	■Apnea
	■AC power failure
	■Battery low voltage
	■the limits of adjusting parameters reminding
	■Unreasonable parameter configurations protection
Interface language	■Standard: English ■Customize Available
Display graphics	■Waveforms:
	P-T (pressure-time)
	F-T (flow-time)
	V-T (volume-time)
	ETCO2(Optional)
	■Loops:
	P-V loop (pressure-volume loop)
	V-F loop (volume-flow loop)
	F-P loop (flow-pressure loop)
	ETCO2(Optional)
ACGO-Standard	Auxiliary Common Gas Outlet
Yoke System(Pin-index)-Standard	Standard: O2 & N2O (Support 11L cylinder)
Communication Interface-Standard	Ethernet, USB, VGA
Optional	■ETCO2-Mainstream
	■AGSS(Anaesthetic Gas Scavenging System)
	■Extra worktable
	■Patient Monitor
	■5AA Module
	■E-Anesthesia records
	■Auxiliary Oxygen Meter
	■Suction Unit System
	■Paramagnetic O2 sensor
	■UPS
Wooden Case	■Voltage Stabilizer
	870*940*1420mm
	G.W.: 130KG N.W.: 90KG

PROA - 8000

Compact and Practical Anesthesia Machine



PROA - 8000

PROA - 800 incorporates leading technology platform and high performance ventilation, providing highly accurate delivery and gas monitoring. With a design concept of ease to use, it is easy to operate and satisfies various clinical needs.



More safe and accurate

- ▶ With key components from worldwide top suppliers, PROA - 800 delivers stable, accurate fresh gas and driven gas.
- ▶ Employing the leading sensor technologies, PROA - 800 monitors the tidal volume with the feedback system in real time to avoid error caused by the monitoring of flow sensor.

Touch-screen, ease to use

- ▶ 10.4" touch screen with flat menu design enables users to make adjustments to settings and have a clear view on parameters.
- ▶ Waveforms and parameters are displayed in the same time.



Accurate anesthetic vaporizer

- ▶ High quality with CE marked;
- ▶ Flow, pressure and temperature compensation;
- ▶ Maintenance Free
- ▶ Large capacity



High performance ventilation

PROA - 800 supports a full range of ventilation modes: volume control (VCV), pressure control(PCV) and optional ventilation modes. The top proportional electromagnetic valve supports the ICU-like ventilation with stable and accurate gas delivery as low as 20 ml tidal volume.



Integrated heated breathing system

- ▶ With a built-in heated module, condensation is reduced to a minimum, which improves flow sensor accuracy.
- ▶ The breathing system is 134°C autoclavable for sterilization purpose.
- ▶ Bypass function supports canister changing during operation.
- ▶ Designed with a concept of ease to use, the heated breathing system is easy to disassemble.
- ▶ The screen will display the status of the breathing system to indicate if it is installed in place.

TECHNICAL SPECIFICATION

Ventilation mode		Alarm and protection	
IPPV, V-A/C, P-A/C, V-SIMV, P-SIMV, PCV-PC, PCV-VG, PSV, SIGH, MANUAL		The AC power failure alarm	Power failure on connection
		Internal battery backup low voltage alarm	< 10.2 ± 0.3 V
		No tidal volume	≤ 5 mL within 6 s
		High oxygen concentration alarm	19 % ~ 100%
		Low oxygen concentration alarm	18 % ~ 99 %
		High airway pressure alarm	20 cmH ₂ O ~ 100 cmH ₂ O
		Low airway pressure alarm	0 cmH ₂ O ~ 20 cmH ₂ O
		High minute volume alarm	Adult (5 L/min ~ 20 L/min)
		Low minute volume alarm	Paed (1 L/min ~ 15 L/min, 0 ~ 10 L/min)
		Continuous pressure alarm	(PEEP+1.5 kPa) over 16 s
		Suffocation warning	5 s ~ 60 s no spontaneous ventilation
		Therm maximum limited pressure	≤12.5 kPa
		Fan error	Show on screen
		Oxygen deficit	Show on screen
Ventilator parameter range		Working condition	
Flowmeter	O ₂ (0.1 ~ 10 L/min)	Gas source	O ₂ , N ₂ O, AIR
	N ₂ O (0.1 ~ 10 L/min)	Pressure	280 kPa ~ 600 kPa
	AIR (0.1 ~ 10 L/min)	Voltage	100 ~ 240 V
Rapidoxygen supply	25 L/min ~ 75 L/min	Power frequency	50/60 Hz
Tidal volume(Vt)	0, 20 mL ~ 1500 mL	Input power	80 VA
Frequency (Freq)	1 /min ~ 100 /min		
I:E	4:1 ~ 18	Monitoring parameter	
PEEP	0 cmH ₂ O ~ 30 cmH ₂ O	Frequency (Freq)	0 /min ~ 100 /min
Pressure triggering sensitivity (PTR)	-20 cmH ₂ O ~ 0 cmH ₂ O (Based on PEEP)	Tidal volume (Vt)	0 mL ~ 2000 mL
Flow trigger sensitivity (FTr)	0.5 L/min ~ 30 L/min	MV	0 L/min ~ 100 L/min
Pressure control (PC)	5 cmH ₂ O ~ 70 cmH ₂ O	Oxygen concentration	15 % ~ 100 %
SIGH	0 (off) 1/100 ~ 5/100		
Apnea ventilation	OFF, 5 s ~ 60 s		
Pressure limit	10 cmH ₂ O ~ 100 cmH ₂ O		
Oscillogram		Wooden case packing size	
P-T (pressure-time)		Wooden case packing size : L 920* W 970* H 1380 mm	
F-T (fflow-time)		G.W. : 155 KG	N.W. : 87.5 KG CBM : 1.23 m³
V-T (volume-time)			
ETCO ₂ -T (ETCO ₂ -time)			
P-V loop (pressure-volume loop)			
P-F loop (pressure-fflow loop)			
F-V loop (fflow-volume loop)			

Ventilators with ICU

FLEXIMAG MAX

- High performance ventilation for adults, children and newborns
- O2 Therapy . Greater comfort for the patient and less risk of new intubations.
- Advanced monitoring tools such as: capnography and oximetry
- Monitoring of Driving Pressure.
- Advanced communication system: USB, HL7 protocol and nurse call.
- Memorization of the last 240 hours of ventilation.



Flow Air SYSTEM

The novelty allows the Fleximag Max Line pulmonary ventilators to be adaptable to any gas installation, being able to work with or without a compressed air network. The advantages of FlowAir are related to the response time, as it is a faster system, with less energy consumption and much quieter. In addition, the Flow Air also features a low-flow mechanism, ideal for serving extremely low birthweight neonatal patients.



DISTAL AND PROXIMAL SENSOR

Adaptable to suit neonatal, pediatric and adult patients, the FleximagMAX allows two types of flow sensors. These accessories are essential for mechanical ventilators. The correct interpretation of monitoring data allows physiotherapists

and intensive care physicians to provide data on pulmonary mechanics and, above all, provides the professionals involved with a thorough analysis of lung volumes and airway pressures during ventilation.



PROTECTIVE MONITORING
Aiming to optimize, protect and individualize pulmonary ventilation, with a focus on the patient and their pathology, Protective Monitoring allows continuous assessment and a better ventilation strategy.

The new product line has three models, the Fleximag MAX 300, 500 and 700.

All Fleximag MAX models have an advanced communication system, intuitive interface, protective monitoring and O₂ therapy, equipment that adapts to the needs of each ICU or emergency room.

Each Fleximag MAX model was created to meet different demands, the main differences between them being the gas network and the Flow Air system, as shown in the table below:

	FLOW AIR ⁽¹⁾	GAS NETWORK ⁽²⁾	NEONATAL	VENTILATORY WEANING RESOURCES	ADVANCED MODES
<i>Max</i> 300	✓	— ⁽³⁾	✓	✓	✓
<i>Max</i> 500	—	✓	✓	✓	✓
<i>Max</i> 700	✓	✓	✓	✓	✓

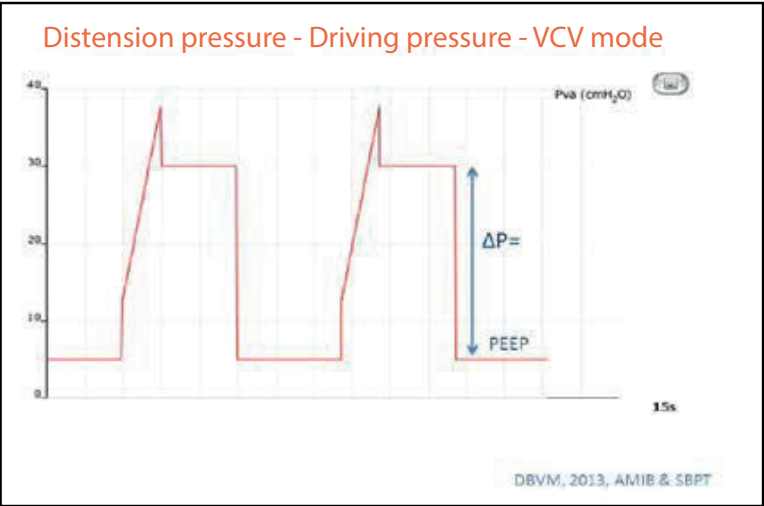
(1) Turbine – Electronic system of ambient air acceleration.
(2) Compressed air and oxygen.
(3) O₂ only.

FLEXIMAG MAX PROTECTIVE MONITORING

The protective respiratory monitoring features that are available on the Fleximag Max allow physiotherapists and intensive care physicians an instantaneous, real-time picture of lung dynamics during ventilation. By observing the lines of lung distension, the operator has an important visual resource that will help him understand if the parameters set are in accordance with safety protocols, such as protective ventilation.

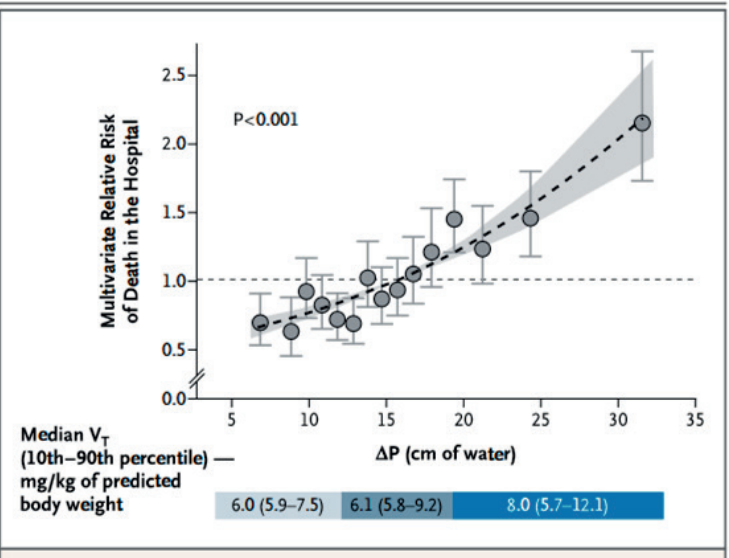
DRIVING PRESSURE

Driving pressure is a tool used in mechanical ventilation to minimize the risk of lung injury, especially in patients with acute respiratory distress syndrome (ARDS). Since the late 1990s, strategies have been studied to try to reduce mortality caused by mechanical ventilation.



HOW TO MONITOR DRIVING PRESSURE

Modern ventilators, or also known as microprocessors, are equipped with state-of-the-art technological resources that allow graphic monitoring during invasive and non-invasive mechanical ventilation. It is important to emphasize that this is a fundamental resource in the management of mechanical ventilation in operating rooms and especially in intensive care.

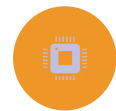


TECHNICAL SPECIFICATION

Ventilation mode	Alarm and protection
PRVC, APRV, DUOLEVEL, V-SIMV, P-SIMV, P-A/C, V-A/C, IPPV, PCV, PSV, SPONT/CPAP, SIGH, MANUAL	AC power failure alarmPower failure or no connection
Ventilator parameter range	Internal backup battery low voltage alarm ≤ 11.3 ± 0.3 V
Tidal volume (Vt)0, 20 ~ 2000 mL	No tidal volumeNo tidal volume within 6 s
Frequency (Freq)1 min ~ 100 min	High minute volume alarm5 L/min ~ 99 L/min
Oxygen concentration21 % ~ 100 %	Low minute volume alarm1 L/min ~ 30 L/min
I:E4 : 1 ~ 1 : 8	High airway pressure alarm20 cmH ₂ O ~ 100 cmH ₂ O
PEEP0 cmH ₂ O ~ 40 cmH ₂ O	Low airway pressure alarm0 cmH ₂ O ~ 20 cmH ₂ O
Pressure triggering sensitivity (Ptr)-20 cmH ₂ O ~ 0 cmH ₂ O (Based on PEEP)	High oxygen concentration alarm19 % ~ 100 %
Flow trigger sensitivity (Ftr)0.5 L/min ~ 30 L/min	Low oxygen concentration alarm18 % ~ 99 %
Pressure control (PC)5 cmH ₂ O ~ 80 cmH ₂ O	Continuous pressure alarm(PEEP + 1.5 cmH ₂ O) over 16s
Pressure support (PS)0 cmH ₂ O ~ 80 cmH ₂ O	Suffocation warning5 ~ 60 s
SIGH0 (off) 1/100 ~ 5/100	Fan errorShow on screen
Apnea ventilationOFF, 5 s ~ 60 s	Oxygen deficitShow on screen
Pressure limit20 cmH ₂ O ~ 100 cmH ₂ O	The maximum limited pressure< 12.5 kPa
Monitoring parameter	Working condition
Frequency (Freq)0/min ~ 100/min	Gas sourceO ₂ , Air
Tidal volume (Vt)0 mL ~ 2500 mL	Pressure280 kPa - 600 kPa
MV0 L/min ~ 99 L/min	Voltage220 V ± 22 V
Airway pressure0 cmH ₂ O ~ 100 cmH ₂ O	Power frequency50 Hz ± 1 Hz
Dynamic lung compliance monitoring1 mL/cmH ₂ O ~ 1000 mL/cmH ₂ O	Input power900 VA(With air compressor)
Oxygen concentration15 % ~ 100 %	250 VA(Without air compressor)
Wooden case packing size	Oscillogram
Main engine: L 560 * W 560 * H 615 mm	P-T(Pressure-Time)
G.W.: 32 KG N.W.: 19 KG	F-T(Flow-Time)
Air compressor: L 685 * W 690 * H 1140 mm	V-T(Volume-Time)
G.W.: 98KG N.W.: 63 KG	P-V Loop(Pressure-Volume Loop)
	F-V Loop(Flow-Volume Loop)
	P-F Loop(Pressure-Flow Loop)

OXYMAG

- Smart alarm system
- Complete Ventilation monitor with graphics and numeric read-out
- Battery life of over 6 hours
- Ideal for intra- inter- and emergency transportation



PULMONARY
VENTILATOR
MICROPROCESSOR



INVASIVE AND
NOVASIVE
VENTILATORY
MODALITIES



CONTROL OF FLOW
AND PRESSURE IN THE
RESPIRATORY CIRCUIT
AND MONITORING



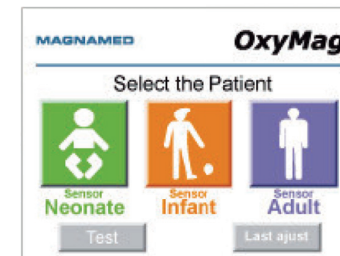
VENTILATORY
SUPPORT FOR
NEONATAL,
PEDIATRIC AND
ADULT PATIENTS



OXYGEN MIXTURE WITH
COMPRESSED AIR
FROM
ENVIRONMENT
FROM 35% TO
100%



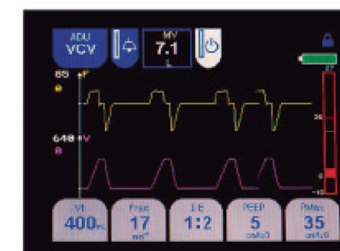
OPTIONS



High-performance ventilation for all types of patients, from neonatal to adult.

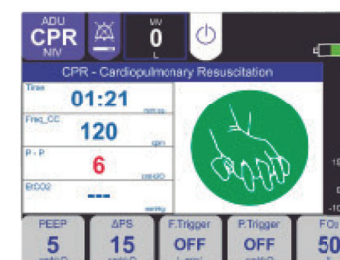


Flexible data viewing to simplify clinical decisions even more and guarantee the best ventilation support for the patient.

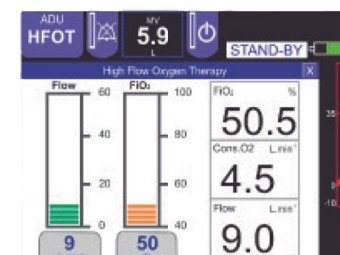


Accurate mechanical ventilation graphics like those found in Intensive Care.

NEW OPTIONS

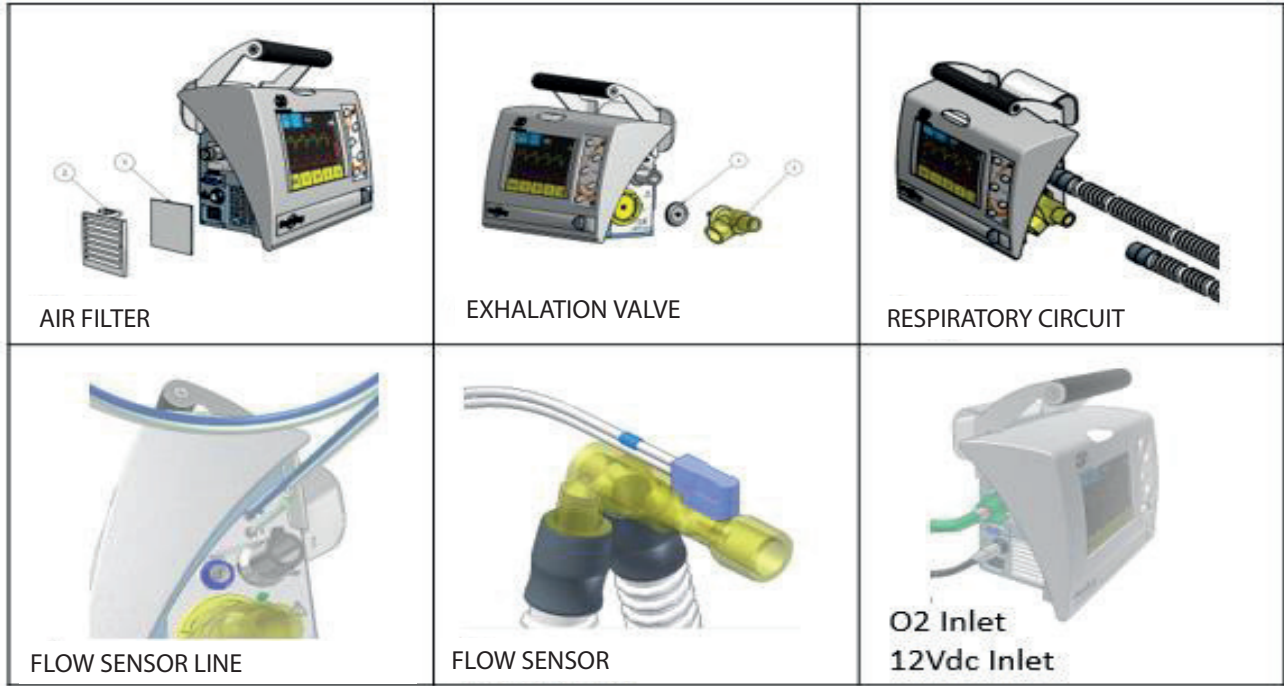
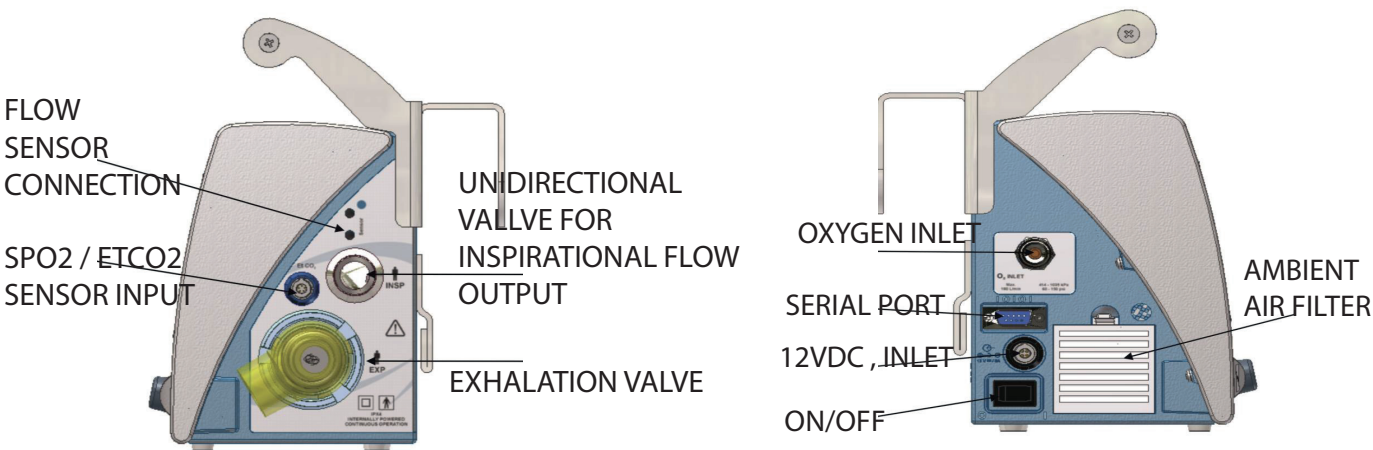
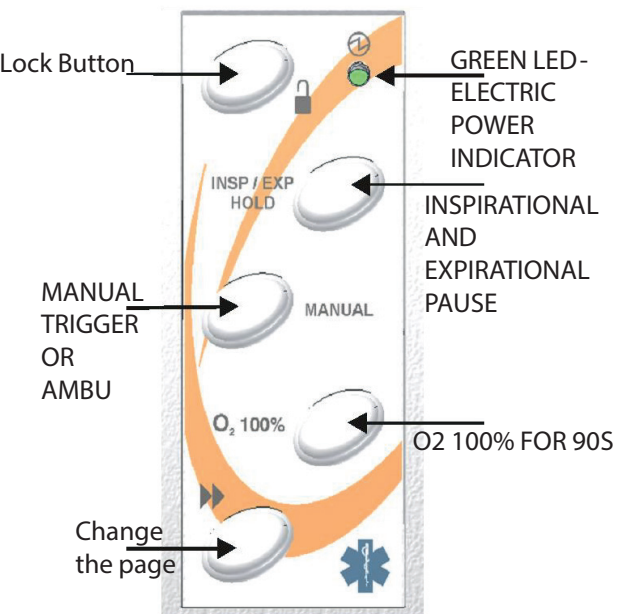
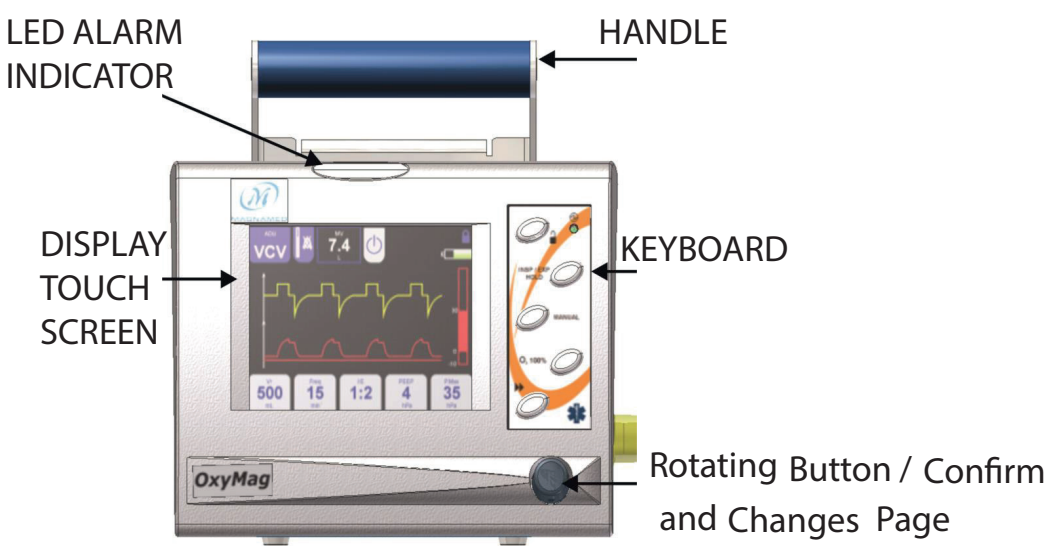


CPR mode: This mode assists the rescuer during a cardiorespiratory arrest, providing audible and visual feedback to maintain the correct rhythm of the cardiac massage, being possible to monitor the depth and rate of chest compressions, as well as visualizing the patient's heart rate and capnography.



High Flow Oxygen Therapy: with the option of HFOT mode, the high flow nasal cannula (up to 60L/min) can be used with the OxyMag. Enjoy the benefits of this modality, such as the decrease of work using a non-invasive interface! It is available for pediatric and adult patients

PRODUCT INFORMATION



NEONATAL PARAMETERS

PLV – Pressure Limited Ventilation					
P Insp	Fr	T Insp	PEEP	Flow	Fio2
15 cmh2o	40 rpm	0,5s	5 cmh2o	6 l/mim	40%

PSV - Pressure Support Ventilation				
PS	Trigger	PEEP	Flow	Fio2
15 cmh2o	-1 cmh2o	5 cmh2o	6 l/mim	40%

CPAP - Continuous Positive Airway Pressure		
PEEP	Flow	Fio2
5 cmh2o	6 l/mim	40%

PEDIATRIC PARAMETERS

VCV - Volume Controlled Ventilation							
VC	Fr	I:E	PEEP	P Max	Pause	FI02	Trigger
140 ml	22 rpm	1:2	5 cmh2o	30 cmh2o	30%	80%	-1 cmh2o

PCV - Pressure Controlled Ventilation					
Fr	I:E	PEEP	P Insp	FI02	Trigger
22 rpm	1:2	5 cmh2o	15 cmh2o	80%	-1 cmh2o

PSV - Pressure Support Ventilation			
PEEP	PS	FI02	Trigger
5 cmh2o	15 cmh2o	80%	-1 cmh2o

CPAP - Continuous Positive Airway Pressure		
PEEP	Flow	Fio2
5 cmh2o	6 l/mim	80%

ADULT PARAMETERS


PCV - Pressure controlled ventilation					
P Insp	Fr	I:E	PEEP	FiO2	Trigger
15 cmh2o	17 rpm	1:2	5 cmh2o	100%	-2 cmh2o

VCV - Volume Controlled Ventilation							
VC	Fr	I:E	PEEP	P Max	Pause	FiO2	Trigger
350ml	17 rpm	1:2	5 cmh2o	35 cmh2o	30%	100%	-2 cmh2o

PSV - Pressure Support Ventilation			
PEEP	PS	FiO2	Trigger
5 cmh2o	15 cmh2o	100%	-2 cmh2o


CPAP - Continuous Positive Airway Pressure	
PEEP	Fio2
5 cmh2o	100%

ACCESSORIES




SUPORE PARA
FIXAÇÃO DE PAREDE

CÓDIGO | 1702496




BRACO ARTICULADO PARA
SUPORTE DE CIRCUITOS
RESPIRATÓRIOS

CÓDIGO | 1702667




DIAFRAGMA E VÁLVULA
EXPIRATÓRIA*
Utilizado na mudança de fase inspiratória
para expiratória,

TIPO	CÓDIGO
Diafragma	3800248
Válvula expiratória	3804865




CABO DE FORÇA - DC 12V - 4VIAS
COM PLUGUE AUTOMOTIVO
Para alimentação de energia através
do acendedor de carro.

CÓDIGO | 2802671



PEDESTAL COM RODÍZIOS
PARA EQUIPAMENTO DE
TRANSPORTE

CÓDIGO | 3802668



MALA DE TRANSPORTE

Modelo	Código
Com Cilindro	1702875
Sem Cilindro	1704784

ACCESSORIES

KIT 1 - Complete line (with trolley):
cod. 1708047

- Trolley with articulated arm.
- Autoclavable Respiratory adults circuit with water trap and "Y".
- Heated humidifier with adult water chamber (Operating voltage: 127V/240V).
- External Blender.

KIT 2 - Trolley, respiratory circuit
and heated humidifier: cod. 1708048

- Trolley with articulated arm.
- Autoclavable Respiratory adults circuit with water trap and "Y".
- Heated humidifier with adult water chamber (Operating voltage: 127V/240V).

KIT 3 - Trolley and respiratory
circuit: cod. 1708049

- Trolley with articulated arm.
- Autoclavable Respiratory adults circuit with water trap and "Y".



ARTICULATED ARM
TO SUPPORT THE
BREATHING CIRCUIT

CODE | 1702667



BLENDER

CODE | 1704444



CAPNOGRAPHY

TYPE	CODE
Mainstream capnography sensor (CO ₂)	1704396
Airway adapter adu/ped	1704395
Airway adapter neo	1704394



BREATHING CIRCUITS
AUTOCLAVABLE

ICU	
Adult with Y	1703038
Pediatric with Y90°	1703037
Neonatal with Y90°	1703036
TRANSPORT	
Adult 1.2m with Y	1703218
Adult 1.6m with Y	1704601
Adult 1.6m with Y90°	1704603
Pediatric 1.2m with Y90°	1702654
Neonate 1.2m with Y90°	1702655



PULSE OXIMETRY (SpO₂)

Adu/Ped	1704409
Neo	1704410



TROLLEY

CODE | 3802668



WALL OR
BENCH SUPPORT

CODE | 1702496



HEATED HUMIDIFIER
GLOBALTEC

TYPE	CODE
Dual voltage without temperature sensor	1706589
Dual voltage with temperature sensor	1706587

User interface

Type and Size	TFT-LCD touchscreen 5,7"
Weight	3,0 kg (6.6 lbs)
Dimensions W x H x D	254 x 230 x 185mm (10 x 9.0 x 17.3 inch)
Communication/Interface	RS-232C ports

Operating Conditions Specifications

Electrical power supply	100 to 240 V, 50/60 Hz
12 Vdc external	yes
Battery	6.5 hours
O ₂ inlet:	39 to 87 psi (270 to 600 kPa)
Standard connection available	DISS (optional NIST)
Temperature	-18 to 50°C (0 to 122°F)
Barometric pressure	600 to 1.100 cmH ₂ O (or hPa ou mbar)
Relative humidity	15 to 95%

Parameter adjustments

Type of patient	Adult, Pediatric and Neonatal
Tidal volume	20 to 2.500 ml
Respiratory rate	0 to 150 bpm
Inspiratory flow	0 to 150 l/min
HFOT flow	0 to 60 l/min
Rise time	0 to 2,0 s
Inspiratory time	0,1 to 10 s
Inspiratory pressure	1 to 60 cmH ₂ O (or hPa or mbar)
Peep	0 to 40 cmH ₂ O (or hPa or mbar)
Support pressure /Δpsupp	OFF, 5 to 60 cmH ₂ O (or hPa or mbar)
Flow cycling (% of peak flow)	5 to 80 %
Trigger sensitivity (Pressure trigger)	OFF; -0,2 to -10 cmH ₂ O (or hPa or mbar)
Trigger sensitivity (Flow trigger)	OFF; 0,5 to 30 L/min
I:E ratio	1:4 a 4:1
O ₂ Concentration	OFF; 35 to 100% O ₂ Concentration in HFOT: Adults: 40 to 100% Pediatrics: 50 to 100%
Type of inspiratory flow	Constant, decelerating, accelerating and sine

Ventilation Modes

VCV / VCV-AC; PCV / PCV-AC; PLV-AC; V-SIMV + PS; P-SIMV + PS;
DualPAP / APRV; CPAP/PSV; NIV

Monitoring

Curve	PxT, FxT and VxT/ SpO ₂ / CO ₂
Loops	VxF, PxV
Bargraph	Instant Pressure
FiO ₂	Galvanic cell
Numerical value	Volume inhaled and exhaled, FiO ₂ , dynamic compliance, intrinsic PEEP, resistance, O ₂ pressure, O ₂ consumption, EtCO ₂ *, CO ₂ *, SpO ₂ **, heart rate**, perfusion index**

* Using Capnography. ** Using Oximetry.

Alarms

Minute volume	high / low
Respiratory rate	high / low
Inspiratory pressure	high / low
Peep	high / low
Apnea time	OFF, 5 to 60 s
Automatic alarm settings	OFF, 10%, 20% and 30%

General specifications

Stand by	on/off
Manual cycles	yes
Freeze	yes
Sigh	yes
Automatic barometric compensation	yes

Standard Accessories

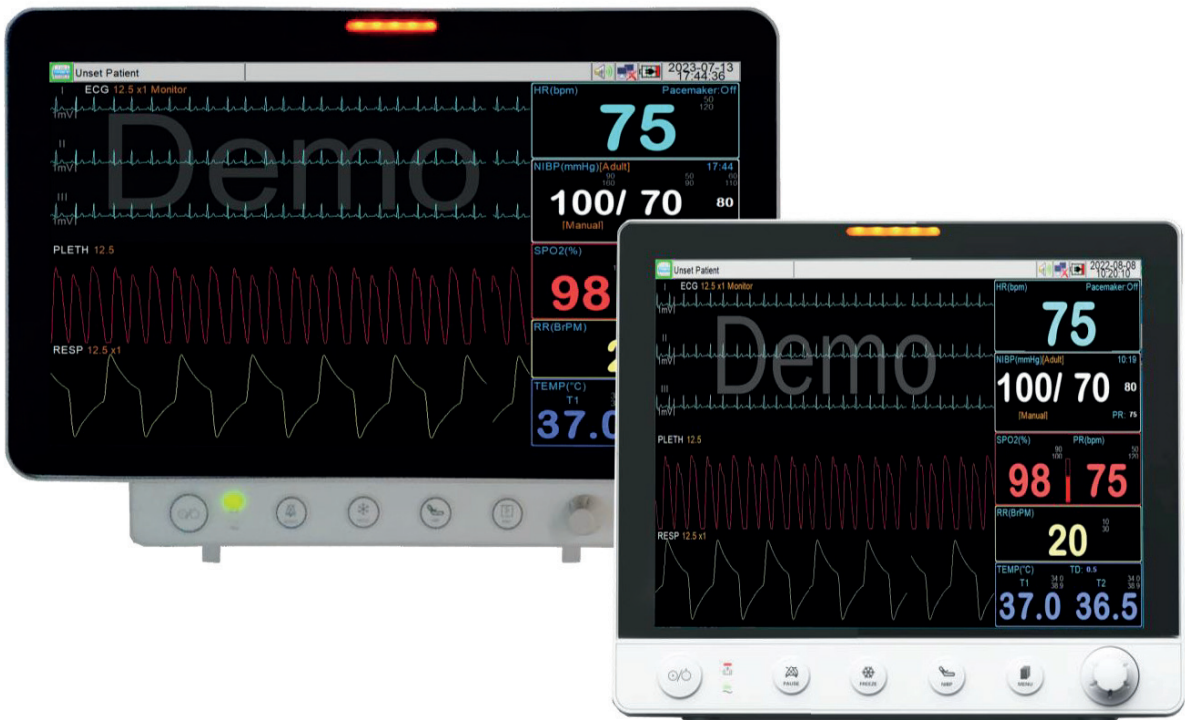
Power outlet 12V/3,34A - Medical degree
AC cable, 3 ways - 1,5 m
Breathing circuit adult* 1,2m autoclavable
Quick guide with manual of instructions
Exhalation valve with stabilizing ring
Diaphragm of exhalation valve magnamed
Envelope with 3 environment filters
Kit flow sensors ADU PED NEO autoclavable: 03 Silicon line, 03 Flow sensors (1 Adult, 1 Pediatric, 1 Neonatal).

* Accessories not available for the European Union.

Attention - Not all products, parts or accessories are available for sale in all countries. For more information, please check with the Magnamed team.

PROM-700 PATIENT MONITOR

(12.1- inch LED / 17.3- inch touch screen)



Model Configuration

Standard Configuration	12.1-inch LED display / 17.3-inch touch screen LED display, 3/5 Lead ECG, NIBP, SpO2, Pulse Rate, Temperature, Respiration
Optional Configuration	1/2 IBP, 12-lead ECG, Nellcor SpO2, Masimo SpO2, Suntech NIBP, Perfusion Index (PI), EtCO2 (Mainstream / Sidestream / Microstream), Cardiac Output, Multi-gas (AG) Monitoring, Anesthesia Depth Monitoring (CSM), Laser Printer Interface, Large capacity battery, HL7 interface, Bed View
Optional Accessories	Touch Screen (capacitive type, 12.1 inches), Printer, USB Port, Central Monitoring Station, Neo / Ped Accessories, HDMI, Wall-mounting, Trolley

FEATURES

CORE

- Newly advanced A10 main board with Linux OS
- Support **storage** of 2160 hours trend table and graph review, 2 hours waveform review (expandable to 168 hours), 2000 groups NIBP review and 2000 alarm events review

BODY

- **12.1 inches / 17.3 inches** high-brightness TFT LED
- Support display **9 ~ 13 waveforms**
- Support **7 channel** ECG waveform display simultaneously
- Optional **HDMI** output

PRINTER

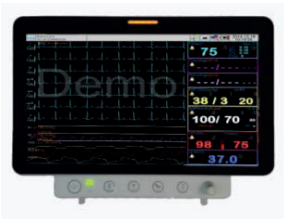
- Built-in high-speed 50 mm thermal printer (Brand: SEIKO, Japan)

CENTRAL SYSTEM

- Wired or wireless connection
- Optional Support HL7 (Health Level Seven)

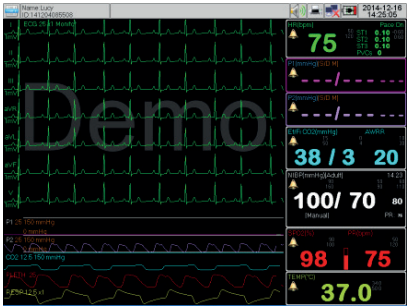
ALARM

- Three-level acousto-optic alarm
- Sensor-off alarm
- Paper out alarm
- Support alarm review
- Support alarm pause



LINUX OS

- Support operation with **USB mouse and computer keyboard** (option)
- **Multi-display mode**
- **NIBP self-test mode**
- Support **medical history search** by patient ID, name and mobile number
- 18 types of **Arrhythmia analysis** and real-time **S-T segment analysis** and **pacemaker detection**
- **Drug calculation and titration table**
- **Multi-language display**
- **Online software upgrading** by net / USB



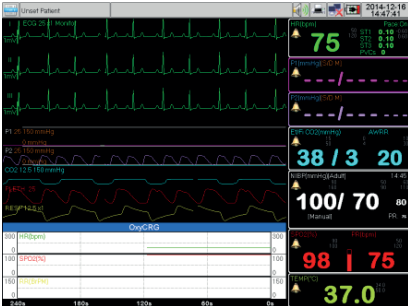
ECG FULL LEAD



BIG FONT DISPLAY



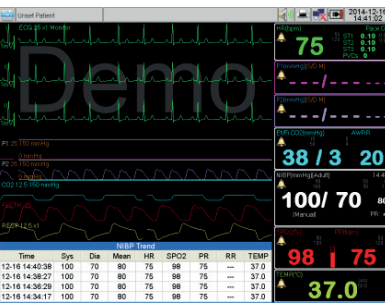
STANDARD DISPLAY



OXY CRG



TREND TABLE



NIBP REVIEW

Performance Specifications

Dimension and Weight

- Dimension: 12.1" model – 295 mm*145 mm*262 mm
17.3" model – 440 mm*145 mm*310 mm
- Weight: 2.95 kg / 4.0 kg (excluding accessories)

Power Supply

- Voltage: AC 100 ~ 240 V, 50/60 HZ, Power ≤ 60 W

Display

- 12.1" color TFT LED resolution: 800*600 pixels
- 17.3" color touch screen resolution: 1920*1080 pixels

Battery

- Type: Rechargeable lithium battery 12 V / 2200 mAh
- Charge Cycle: ≥500 times
- Working time: 2 hours (optional larger capacity battery for 4-5 hours)

Recorder (Option)

- Method: Thermal printer
- Paper width: 50 mm (1.97 in)
- Printing speed: 12.5/ 25/ 50 mm/s
- Trace: Max. 3 tracks
- Recording way: Real-time Recording, Review Printing, Periodic Recording, Alarm Recording

Alarm

- Level: Low, medium and high, message
- Indication: Auditory and visual
- Alarm volume adjustable
- Alarm pause time: 1 min, 2 min, 5 min
- Parameter alarm type: Latch/ Unlatch

Input Device

- Standard: Knob / Key press / Touch screen (17.3 inches)
- Option: USB Mouse / USB Keyboard / Touch screen (12.1 inches)

System Output & Extensible Interface

- Ethernet Network: standard RJ45 socket * 1 pc
- USB Port: 1 pc
- Video Output: HDMI port (option) * 1 pc

Operating Environment

- Temperature: 5 ~ 40
- Humidity: 15% ~ 90% (non-condensing)
- Atmosphere pressure: 86 KPa ~ 110 KPa

Transportation and Storage

- Temperature: -20~50
- Humidity: 10%~90% (non-condensing)
- Atmosphere pressure: 86 KPa ~ 110 KPa

Safety

- IEC60601-1 Approved, CE marking according to MDD93/42/EEC
- With reference to RoHS Directive 2011/65/EU recasting
- Trend: 2160 hours
- ARR events: 128 groups of ARR events and associated waveform
- NIBP measurement reviewing: 2000 groups
- Waveform review: 2 hours ((expandable to 168 hours)
- Alarm event: 2000 groups of parameter alarms events and associated parameter

SpO2 (Unicare, digital)

- Measurement Range: 0 ~ 100 %
- Resolution: 1 %
- Accuracy: ±2% (70% ~ 100%)
±3 % (35% ~ 69%)
Unspecified (0 ~ 34%)
- Support Pitch tone and multi-level volume
- Scan speed: 6.25, 12.5, 25, 50 mm/s
- PI range (Option) : 0.075%-20%

- Pleth Variability Index Measurement Range: 0 ~ 100%

Pulse Rate

- Measuring and Alarm Range: 20 ~ 250 bpm
- Accuracy: ±1% or ±1 bpm, whichever is greater
- Resolution: 1 bpm

Nellcor - SpO2 (Option)

- Measurement Range: 0 ~ 100 %
- Resolution: 1 %
- Accuracy: 70% ~ 100%, ±2 % (adult)
70% ~ 100%, ±3 % (Neonate)
70% ~ 100%, ±2 % (Low Perfusion)
0% ~ 69%, unspecified

Pulse Rate

- Measurement range: 20 ~ 300 bpm
- Resolution: 1 bpm
- Accuracy: ±3 bpm (20 ~ 250 bpm)
Unspecified (251 ~ 300 bpm)

Masimo SpO2 (Option)

- Measurement Range: 0 ~ 100 %
- Resolution: 1 %
- Accuracy: 70% ~ 100%, ±2 % (adult / pediatric, non-motion conditions)
70% ~ 100%, ±3 % (neonate, non-motion conditions)
70% ~ 100%, ±3 % (motion conditions)
0% ~ 69% unspecified

Pulse Rate

- Measurement range: 25 ~ 240 bpm
- Resolution: 1 bpm
- Accuracy: ±3 bpm (non-motion condition)

Respiration

- Method: Impedance between RA-LL, RA-LA
- Gain: ×0.25, ×0.50, ×1, ×2, ×4
- Respiration Rate: 0 ~ 150 BrPM
- Sweep speed: 6.25 mm/s, 12.5 mm/s, 25 mm/s

- Resolution: 1 BrPM
- Accuracy: ±2 BrPM or ±2% whichever is greater (7 ~ 150 BrPM)
Unspecified (0% ~ 6 BrPM)

- Apnea Alarm: 10 ~ 60 s

Temperature

- Technique: Thermistor probe (2.25 K)
- Channel: Dual-channel, provide T1; T2; ΔT
- Measuring and Alarm Range: 0.0 ~ 50 (32 ~ 122)
- Unit: Celsius (), Fahrenheit ()
- Resolution: 0.1 or 1
- Accuracy: ±0.1 (exclusive probe)
- Lead mode: 3/5 Leads, I, II, III, AVR, AVL, AVF, V
12 leads, I, II, III, AVR, AVL, AVF, V1, V2, V3,
V4, V5, V6, GND

- Protection: Breakdown Voltage AC 4000 V 50/60 Hz;
Defibrillator proof
- Gain: 2.5 mm/mV(×0.25), 5.0 mm/mV(×0.5), 10 mm/mV (×1), 20 mm/mV (×2), 40 mm/ mV (×4), Auto
- Sweep speed: 6.25 mm/s, 12.5 mm/s, 25 mm/s, 50 mm/s
- Differential Input Impedance: >5 M ohm
- CMRR: Diagnostic Mode: ≥89 dB
Monitor Mode: ≥105 dB
Surgery Mode: ≥105 dB
Leakage Current: < 10 μA
- ECG signal range: 12 mV (Gain ×0.25)
- Accuracy: ±1 bpm/ ±1%, whichever is greater
- Resolution: 1 bpm

- Leakage Current < 10 μA
- Baseline Recovery: ≤ 3s after defibrillation (Monitor mode)
≤ 1s after defibrillation (Surgery mode)
- Bandwidth: Surgery 1 ~ 20 Hz
Monitor 0.5 ~ 40 Hz
Diagnostic 0.05 ~ 130 Hz

- Indication of Electrode Separation: Every electrode (exclusive of RL)

Heart Rate

- Measure range: Adult: 0, 15 ~ 300 bpm
Neo / Ped: 0, 15 ~ 350 bpm

- Resolution: 1 bpm
- Accuracy: ± 1%

ST Measurement

- Range: -2.0 ~ +2.0 mV
- Accuracy: -0.8 mV ~ +0.8 mV: ±0.02 mV or ±10%, whichever is greater
- Other range: unspecified
- Resolution: 0.01 mV

NIBP

- Method: Oscillometric
- Measure mode: Manual, Auto, STAT
- Measure Interval in AUTO Mode 1 ~ 480 min
- STAT mode cycle time: Keep 5 minutes, at 5 seconds interval
- Measure and Alarm Range:
Adult: SYS: 40 ~ 280 mmHg
DIA: 0 ~ 220 mmHg
MEAN: 20 ~ 240 mmHg
Pediatric: SYS: 40 ~ 220 mmHg
DIA: 0 ~ 160 mmHg
MEAN: 20 ~ 170 mmHg
Neonate: SYS: 30 ~ 135 mmHg
DIA: 0 ~ 110 mmHg
MEAN: 20 ~ 110 mmHg

- Static pressure accuracy: ±3 mmHg
- Resolution: 1 mmHg
- Accuracy: Maximum Mean error ±5 mmHg
Maximum Standard deviation ≤8 mmHg
- Over pressure Protection: Dual protection via software & hardware
- Suntech NIBP (Option)
- Measure Method: Oscillometric. Diastolic values correspond to Phase 5 Korotkoff sound
- Measure Range:

- Adult: SYS: 40 ~ 260 mmHg
DIA: 20 ~ 220 mmHg
MEAN: 26 ~ 220 mmHg
- Pediatric: SYS: 40 ~ 230 mmHg
DIA: 20~ 160 mmHg
MEAN: 26 ~ 183 mmHg
- Neonate: SYS: 40 ~ 130 mmHg
DIA: 20 ~ 100 mmHg
MEAN: 26 ~ 110 mmHg

- PR Range: 30 to 220 BPM
- PR Accuracy: ±2% or ±3 BPM, whichever is greater
- Pressure Transducer Accuracy: ±3 mmHg between 0 mmHg and 300 mmHg
- for operating conditions between 0 and 50
- Deflate Rate: Deflation step size varies with heart rate, cuff pressure and cuff volume
- Initial Inflation Pressure:
ADULT: 160 mmHg (default)
Variable from 120 to 280 mmHg

- PEDIATRIC: 140 mmHg (default)
Variable from 80 to 280 mmHg
- NEONATE: 90 mmHg (default)
Variable from 60 to 140 mmHg

EtCO2 (Mainstream / Sidestream) (Option)

- Measure method: Non-dispersive infrared (NDIR)
- Measure Range: 0 ~19.7% (0 ~ 150 mmHg)
0 ~ 20 kPa
- Resolution: 0.1 mmHg
- CO2 Accuracy:
0 ~ 40 mmHg, ±2 mmHg
41 ~ 70 mmHg, ±5% of reading
71 ~ 100 mmHg, ±8% of reading
101~ 150 mmHg, ±10% of reading
at 760 mmHg, ambient temperature of 25
- Respiratory Rate: Range: 3 ~150 BrPM
Accuracy: ±1 BrPM

EtCO2 (Micro-stream) (Option)

- Measure method: Non-dispersive infrared (NDIR)
- Measure Range: 0 ~ 19.7% (0 ~ 150 mmHg)
0 ~ 20 kPa
- Sample Rate: 50 mL/min ±10 mL/min
- Resolution: 0.1 mmHg (0 ~ 50 mmHg)
0.25 mmHg (50 ~ 114 mmHg)
- CO2 Accuracy: 0 ~ 40 mmHg, ±2 mmHg
41 ~ 70 mmHg, ±5% of reading
71 ~ 100 mmHg, ±8% of reading
101 ~ 150 mmHg, ±10% of reading
at 760 mmHg, ambient temperature of 35
- Respiratory Rate: Range: 3 ~ 120 BrPM
Accuracy: ±1 BrPM

IBP (Option)

- Max Channel: 2
- Measurement way: Thermal resistance way
- Press Sensor: Sensitivity 5 uV/V/mmHg, ±2%
Impedance 300 to 3000 Ω
- Resolution: 1 mmHg
- Unit: mmKg, kPa, cmH2O
- Transducer sites:
Arterial Pressure (ART)
Pulmonary Arterial (PA)
Left Arterial (LAP)
Right Arterial (RAP)
Central Venous Pressure (CVP)
Intracranial Pressure (ICP)
P1 / P2
- Measuring and alarm range:
ART 0 ~ +350 mmHg
PA -10 ~ +120 mmHg
CVP / RAP / LAP / ICP -10 ~ +40 mmHg
P1 / P2 -50 ~ +350 mmHg
- Accuracy:
Static: ±1 mmHg or ±2%, whichever is greater (exclusive of transducer)
±4 mmHg or ±4%, whichever is greater (inclusive of transducer)
Dynamic: ±4 mmHg or ±4%, whichever is greater
- Cardiac Output (Option)
- Measuring Method: Right heart thermo dilution
- Unit: °C/°F
- C.O. range: 0.1 l/min ~ 20.0 l/min
- C.O. accuracy: ±0.2 l/min or ±5%, whichever is greater
- Blood temperature range: 27 ~ 43 (80.6 °F ~ 109.4 °F)

- Blood temperature accuracy: ±0.1
- Injectate temperature: 0 ~ 27 (32 °F ~ 80.6 °F)
- Alarm delay: < 10s

Depth of Anesthesia (CSI) (Option)

- EEG sensitivity: ± 400 μV
- Noise: < 2μVp-p, < 0.4μV RMS, 1-250 Hz
- CMRR: > 140 dB
- Input impedance: > 50 Mohm
- Sample rate: 2000 samples / sec, (14 bits equivalent)
- BS%: 0-100, filter 1-42 Hz, 1 sec. display update
- EMG: 0-100 Logarithmic. Filter 75-85 Hz, 1 sec. update
- Alarms: High / Low with user selectable limit
- Artifact rejection: Automatic
- Sensor impedance range: 0 - 10 kOhm / measurement current 0.01 μA

Multi-gas / O2 (Anesthetic Gas) (Option)

- Method: Infrared absorption
- Gas sorts: CO2, N2O, Des, Iso, Enf, Sevo, Hal, O2 (Optional paramagnetic sensor)
- Calibration: Room air calibration performed automatically when changing airway
Airway adapt (< 5 sec)
- Measurement range:
CO2: 0 ~ 25%, N2O: 0 ~ 100%
O2: 0 ~ 100%, Enf, Iso, Hal: 0 ~ 25%,
Sevo, Des: 0 ~ 25%
- Data output: Fi and ET values
- Respiration rate: 0 ~ 150 BrPM
- Other: Up to 5 waveforms displayed
Agent mixture detection
MAC value displayed

** Specifications subject to change without prior notice*

MULTI-PARAMETER MONITOR

PROM-2600



TECHNICAL SPECIFICATION

Working conditions

Ambient temperature range	5°C~40°C
Relative humidity range	≤80°C
Atmospheric pressure range	860 hPa ~ 1060 hPa
External power supply	AC input 100 V -240 V~ frequency 50 Hz/60 Hz
Input power	DC output 14.8V

Alarm and protection

High limit alarm of Heart rate
Low limit alarm of Heart rate
High limit alarm of Respiratory rate
Low limit alarm of Respiratory rate
High blood pressure alarm
Low blood pressure alarm
High limit alarm of blood oxygen saturation
Low limit alarm of blood oxygen saturation
High limit alarm of Pulse rate
Low limit alarm of Pulse rate
High and low limit alarm of T1 (Temperature probe)
High and low limit alarm of T2 (Temperature probe)
High limit alarm of ETCO ₂ gas concentration
Low limit alarm of ETCO ₂ gas concentration
High limit alarm of Airway breathing rate
Low limit alarm of Airway respiratory rate
Apnea alarm

Main technical parameters

Heart Rate (HR) Monitoring	Adult: 15 bpm to 300 bpm
	Pediatric: 15 bpm to 350 bpm
Respiratory rate (RR) monitoring	0 rpm~120 rpm
Blood pressure monitoring	
Systolic blood pressure (SYS)	Adult: 40 mmHg-270 mmHg
	Pediatric:40 mmHg-200 mmHg
Mean pressure (MEAN)	Adult:20 mmHg-230 mmHg
	Pediatric:20 mmHg-165 mmHg
Diastolic blood pressure (DIA)	Adult:10 mmHg-210 mmHg
	Pediatric:10 mmHg-150 mmHg
Blood oxygen saturation (SpO ₂) monitoring	0% to 100%
Pulse rate (PR) monitoring	25 bpm~250 bpm
Body temperature (TEMP) monitoring	0°C~50°C
End-tidal CO ₂ gas concentration monitoring	0%~19.7%
Airway respiration rate monitoring	0 rpm~150 rpm

Monitoring function

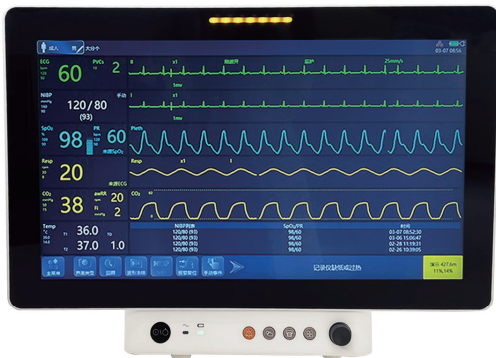
Electrocardiogram monitoring (ECG)
Respiratory Rate Monitoring (RESP)
Non-invasive blood pressure monitoring (NIBP)
Blood oxygen saturation monitoring (SpO ₂)
Pulse rate monitoring (PR)
Temperature Monitoring with dual-channel (TEMP)
Airway respiratory rate monitoringg
ETCO ₂ monitoring (Sidestream / Mainstream Optional)

Features

- 15.6 inch color TFT LCD touch screen, support USB mouse operation.
- Multi-interface selection: standard interface, 7-lead ECG full-screen interface, 7-lead ECG half-screen interface, OxyCRG, dynamic short-trend chard interface, big character interface and other bed observation interface.
- Fast recovery of ECG abnormality less than 2s, support for anti-motion interference and anti-cardiac filter ringing interference.
- 19 alarming modes, with dual front and rear alarm lights synchronized and adjustable alarm sound level.
- Consistency deviation of NIBP measurement within ±5mmHg, shorten about 20 seconds measurement time, and the high-precision AD meeting the full-scale measurement range.
- Low perfusion SpO₂ algorithm, measurement index reaching to 0.075%, and outstanding motion resistance.

MULTI-PARAMETER MONITOR

PROM-2900



Features

- 18.5 inch color TFT LCD touch screen, support USB mouse operation
- Multi-interface selection: standard interface, 7-lead ECG full-screen interface, 7-lead ECG half-screen interface, OxyCRG, dynamic short-trend chard interface, big character
- Fast recovery of ECG abnormality less than 2s, support for anti-motion interference and anti-cardiac filter ringing interference.



- 19 alarming modes, with dual front and rear alarm lights synchronized and adjustable alarm sound level.
- Consistency deviation of NIBP measurement within $\pm 5\text{mmHg}$, shorten about 20 seconds measurement time, and the high-precision AD meeting the full-scale measurement range.
- Low perfusion SpO_2 algorithm, measurement index reaching to 0.075%, and outstanding motion resistance.

TECHNICAL SPECIFICATION

Working conditions

Ambient temperature range	$5^{\circ}\text{C}\sim 40^{\circ}\text{C}$
Relative humidity range	$\leq 80^{\circ}\text{C}$
Atmospheric pressure range	860 hPa ~ 1060 hPa
External power supply	AC input 100 V -240 V~ frequency 50 Hz/60 Hz
Input power	DC output 14.8V 2850mAh

Alarm and protection

High limit alarm of Heart rate
Low limit alarm of Heart rate
High limit alarm of Respiratory rate
Low limit alarm of Respiratory rate
High blood pressure alarm
Low blood pressure alarm
High limit alarm of blood oxygen saturation
Low limit alarm of blood oxygen saturation
High limit alarm of Pulse rate
Low limit alarm of Pulse rate
High and low limit alarm of T1 (Temperature probe)
High and low limit alarm of T2 (Temperature probe)
High limit alarm of ETCO_2 gas concentration
Low limit alarm of ETCO_2 gas concentration
High limit alarm of Airway breathing rate
Low limit alarm of Airway respiratory rate
Apnea alarm

Main technical parameters

Heart Rate (HR) Monitoring	Adult: 15 bpm to 300 bpm Pediatric: 15 bpm to 350 bpm
Respiratory rate (RR) monitoring	0 rpm~120 rpm
Blood pressure monitoring	
Systolic blood pressure (SYS)	Adult: 40 mmHg-270 mmHg Pediatric: 40 mmHg-200 mmHg
Mean pressure (MEAN)	Adult: 20 mmHg-230 mmHg Pediatric: 20 mmHg-165 mmHg
EtCO_2	Adult: 0 % ~ 19.7 % Pediatric: 0 % ~ 19.7 %
Blood oxygen saturation (SpO_2) monitoring	0% to 100%
Pulse rate (PR) monitoring	25 bpm~250 bpm
Body temperature (TEMP) monitoring	$0^{\circ}\text{C}\sim 50^{\circ}\text{C}$
End-tidal CO_2 gas concentration monitoring	0%~19.7%
Airway respiration rate monitoring	0 rpm~150 rpm

Monitoring function

Electrocardiogram monitoring (ECG)
Respiratory Rate Monitoring (RESP)
Non-invasive blood pressure monitoring (NIBP)
Blood oxygen saturation monitoring (SpO_2)
Pulse rate monitoring (PR)
Temperature Monitoring with dual-channel (TEMP)
Airway respiratory rate monitoringg
Optional: EtCO_2 (Mainstream or Sidestream), C.O., IBP, CSM, AG. etc

Vital signs monitor TFT display hospital, multiparameter patient monitor. PROM-800



Features &Benefits:

1. 7" colour TFT display
2. Full touchscreen enables intuitive operation by clicking on the specific parameters or the waveform in real-time; standard configuration includes the navigation knob.
3. Real-time S-T segment analysis and ARR analysis.
4. SpO2 Pitch Tone Variation and Drug Dose Calculation.
5. Parameter waveform and characters colour selectable

6. Multi and unique display: Standard, Large font, Trend Coaxis, OxyCRG dynamic
7. Standby mode for Energy saving and suspend monitoring.
8. 7-lead ECG waveforms display in phase.
9. Capture dynamic waveforms.
- 10.Built-in rechargeable battery and battery volume checking.
- 11.Efficient resistance to interference of defibrillator and HF knife;
- 12.SINNOR F-6 SpO2 technology, VS NELLCOR accuracy;
- 13.TCP/IP networking platform enable abundant future upgrade
- 14.Complete and flexible mounting solution for transportation and monitoring

Standard parameters: SPO2+NIBP+PR
Optional: Touch screen, ETCO2

Product Specification

Product name	LANNX uMR C8 Obstetrics Gynecology Department use Vita monitor TFT display hospital multiparameter patient monitor
Alarm	User-adjustable High, Medium and Low limits 3-level Audible alarm
Networking	Connected to central monitoring system TCP/IP netting platf
Recorder	Build-in, thermal array
Plethysmogram caveform	2 channels
Record mode	manual, on alarm, time-defined
Recording width	50mm
Printing speed	50mm/s
Method	Digital Automatic oscillometric
Recording type	Frozen waveform record NIBP recall record Trend table record Alarm record Fixed -time record
Accessories supplies	(1) 5 lead ECG cable (2) 1 spo2 probes (3) 1 NIBP probe (4) 1 temp probe (5)1 ground connecting liner (6) Chest electrode(10pcs/set)
Dimension and Weight	Dimension: 31*19*41CM G.W.: 3KGS

Compact Portable Patient Monitoring: PRM-200



Product Description

* Multiple vital signs parameters:

SpO2

SpO2 + TEMP

SpO2 + NIBP + TEMP

NIBP+EtCO2,

NIBP+SpO2+EtCO2.

NIBP+SpO2+TEMP+ECG

NIBP+SpO2+TEMP+EtCO2.

1. Blood pressure rate, Oxygen saturation, Pulse rate, Pulse intensity, Temperature
2. Easy operation by 3.5" colour high lightness TFT display, lightness is adjustable
3. Anti-motion artifacts, anti-perfusion
4. Unique Large Font and Waveform display
5. Dynamic data and Graphic trends to view
6. Audio and Visual alarm
7. Applies to adults, children and newborn(Also have version for animals).
8. Can choose ECG\ETCO2\SpO2\NIBP\TEMP
9. Veterinary software and human software are optional.

Performance Specifications

Display: 3.5" colour TFT

Resolution: 320*480

Indicator: alarm indicator, power indicator

Trend storage: 72 hours

Alarm: Probe off, Finger out, Low power

Modes: Visual and Audio

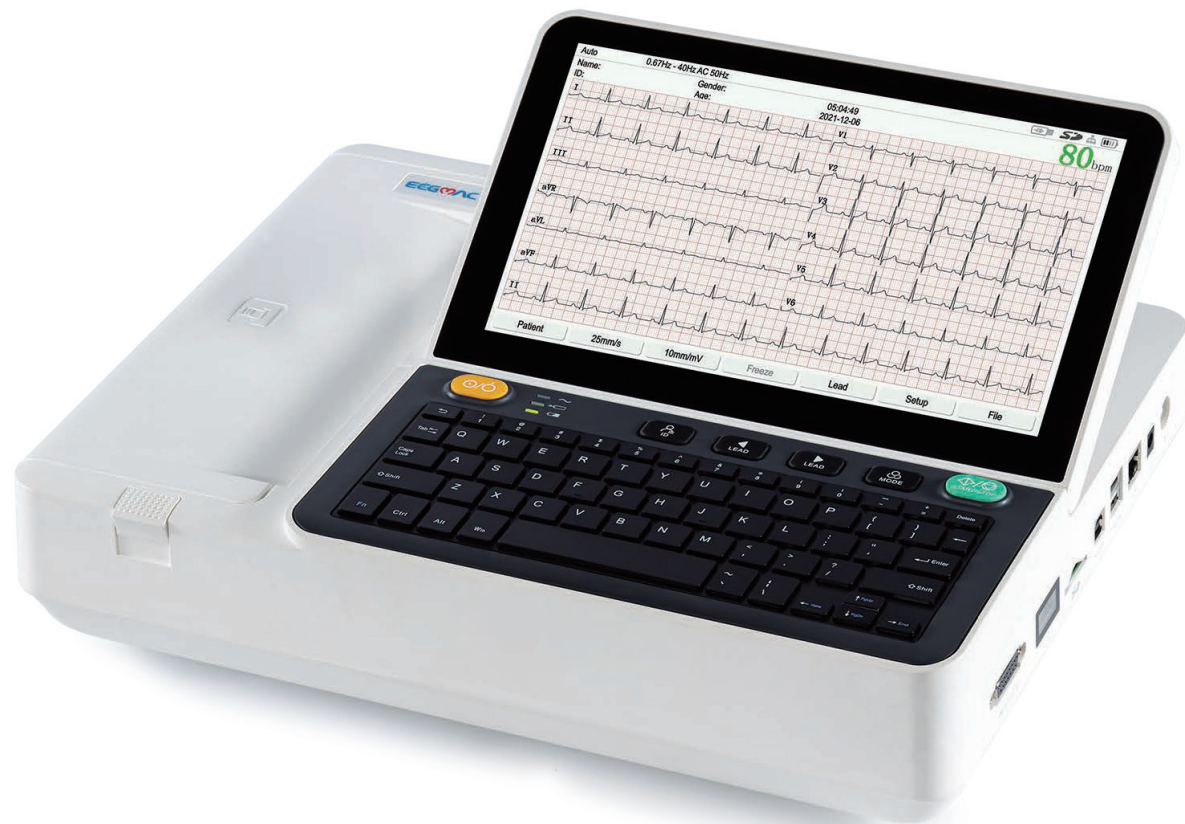
User-adjustable High and Low limits

This is our newest developed product & can test 3 parameters: NIBP, spo2 and temp

Compact size and easy to carry, very suitable for nurses.

TWELVE - CHANNEL ECG

PROE-2300



- **Integrated Design**

- 10.1 inch touch screen, 0~90° foldable display, background with grid
- Built-in scanning, support barcode and QR code scanning, easy to input patient information
- Built-in WiFi, realize wireless networking quickly, support seamless connectivity
- Built-in high-resolution thermal printer, supports roll and Z-fold paper

- **Powerful software functions**

- Supports 9 leads and 12 leads acquisition modes
- Supports Auto Mode, RR Mode, Rhythm Mode, Manual Mode
- Supports long-term real-time ECG waveform recording, freezing and review
- Accurate ECG Algorithm Program verified by European CSE database, efficiently assist doctors to complete the analysis and diagnosis of ECG

- **Peripherals and Communications**

- Support barcode scanner, U Disk, SD card, Keyboard and Printer etc.
- Mapping data directly via USB cable to PC, easy to view and backup
- Support external USB printer, print ECG report on A4 paper, and print grid on non-grid paper
- Supports ECG report network printing(Optional)


- **Seamless Connectivity**

- Supports for transmission of ECG data to ECG workstation or ECG manager(optional)
- Multiple format reports export, such as PDF, JPG, BMP ,EM-XML, SCP*, DICOM, FDA-XML*
- Data access with HIS/PACS/EMR system based on FTP/DICOM/HTTP protocol
- Patient information can be retrieved from the worklist

TWELVE - CHANNEL ECG


PROE-2302





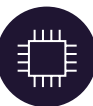
Large Foldable LCD Display, Clear and Intuitive

7 inch TFT color display, which can be folded from 0-90°
Background with grid, 12 leads ECG can be displayed on the same screen



Lightweight and portable, long standby time

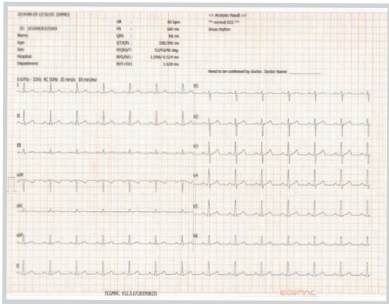
Portable handle, easy to carry
Built-in high capacity rechargeable lithium battery



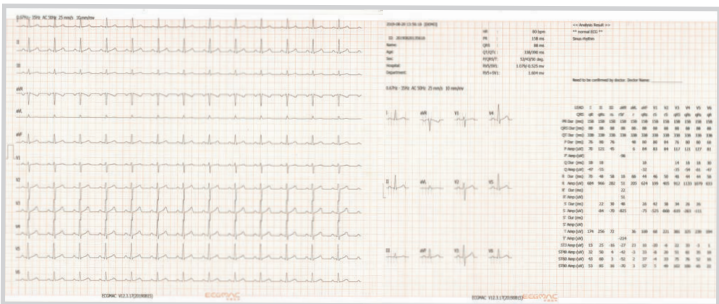
Large Storage Capacity

Local internal memory up to 1000 ECGs
Data can be imported and exported via a U-disk or SD card

- **Reliable Performance**
 - Simultaneous 12 leads ECG acquisition and display
 - Mapping data directly via USB cable to PC
 - Supports for transmission of ECG data to ECG workstation or ECG manager(optional)
 - long-term real-time ECG waveform freezing and review to assist diagnosis
 - With paper-save function, ideal for routine ECG examination

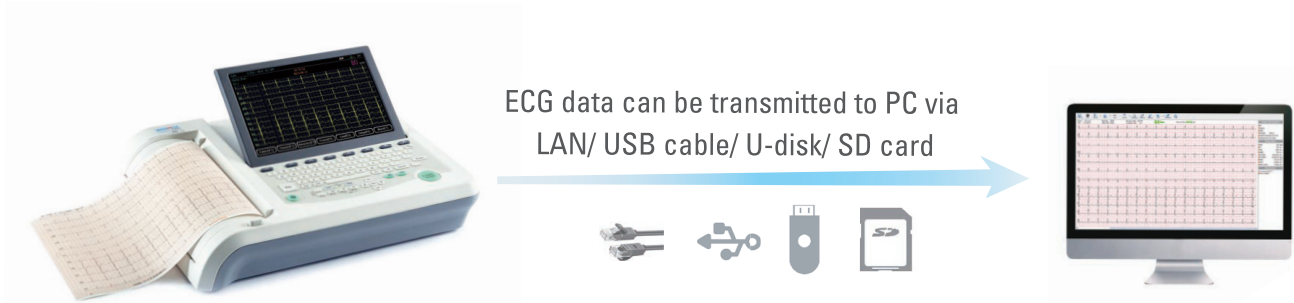


6CHx2+1R

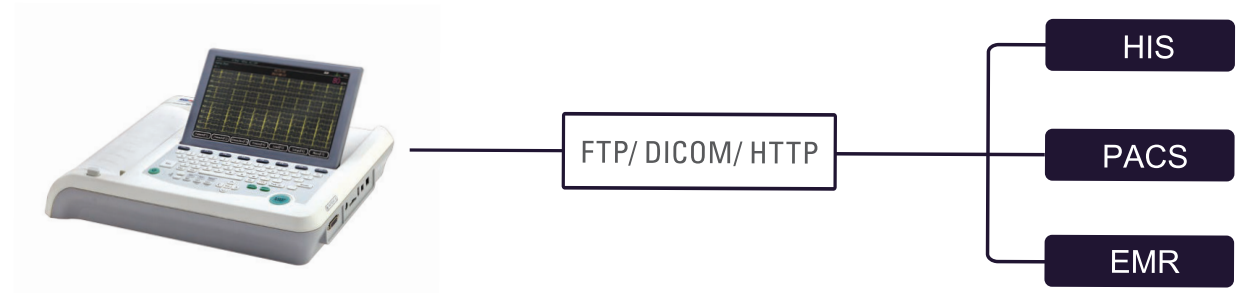


12CHx1

- **Seamless Connectivity**
 - Multiple format reports export, such as PDF, JPG, BMP ,EM-XML, SCP*, DICOM, FDA-XML*



- Data access with HIS/ PACS/ EMR system based on FTP/ DICOM/ HTTP standard protocol(Optional)
- Patient information can be retrieved from the worklist(Optional)



Items with * are optional

TWELVE - CHANNEL ECG

PROE-702



Large Foldable LCD Display, Clear and Intuitive
 10 inch TFT color display, which can be folded from 0-90°
 Background with grid, 12 leads ECG can be displayed on the same screen

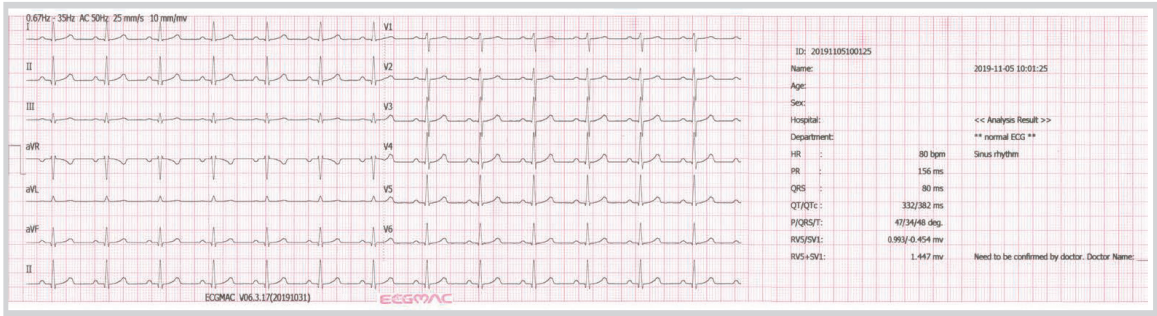


Peripherals and Communications
 Integrated SD card slot and USB port for connection to barcode scanner, wireless network adapter, U-Disk, SD card, keyboard



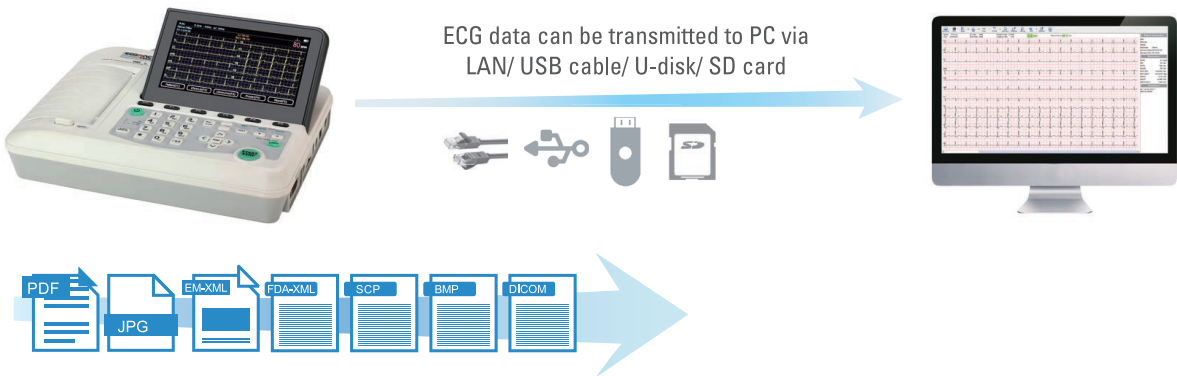
Flexible Printing Solutions
 Built-in high-resolution thermal printer, supports roll and Z-fold paper
 Direct Connectivity to External Printer*
 Supports ECG report network printing(Optional)

- **Accurate Clinical Performances**
 - Simultaneous 12 leads ECG acquisition and display
 - long-term real-time ECG waveform recording, freezing and review to assist diagnosis
 - Comprehensive file management system to query, delete and edit patient data
 - Mapping data directly via USB cable to PC
 - Comprehensive filters to ensure waveform is not distorted while eliminating interference

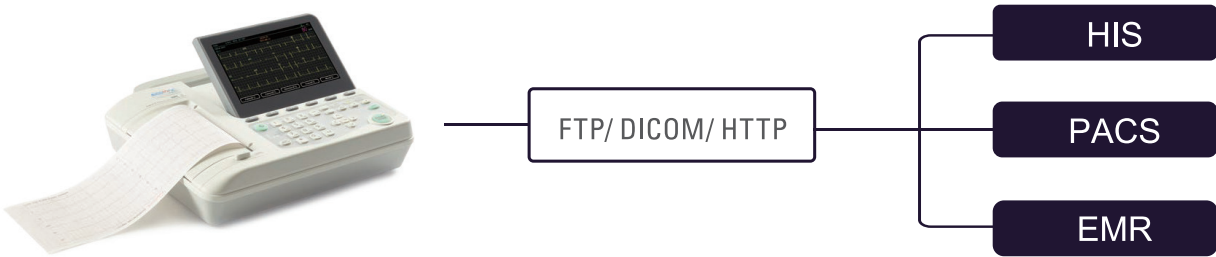


6CHx2+1R

- **Seamless Connectivity**
 - Multiple format reports export: PDF, JPG, BMP ,EM-XML, SCP*, DICOM, FDA-XML*



- Data access with HIS/ PACS/ EMR system based on FTP/ DICOM/HTTP standard protocol(Optional)
- Patient information can be retrieved from the worklist(Optional)



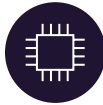
TWELVE - CHANNEL ECG

PROE-402



Large Foldable LCD Display, Clear and Intuitive

7 inch TFT color display, which can be folded from 0-90°
Background with grid, 12 leads ECG can be displayed on the same screen



Large Storage Capacity

Local internal memory up to 1000 ECGs
Data can be imported and exported via a U-disk or SD card

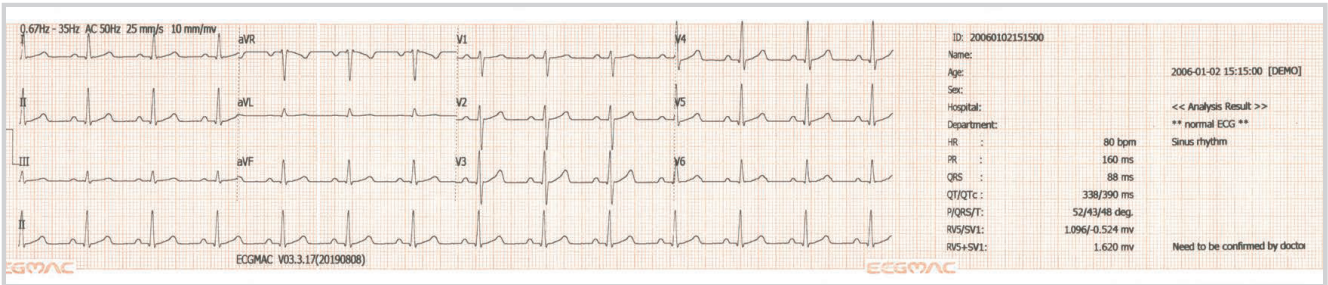


Flexible Printing Solutions

Built-in high resolution thermal printer, direct connectivity to external printer* available.
Supports printing of ECG reports via network printing(Optional)

Reliable Performance

- Simultaneous 12 leads ECG acquisition and display
- Pre-sample, real-time sample, trigger sample, Periodic sample
- Supports pacemaker detection, its sensitivity selectable
- Patient information can be input through barcode scanner
- Patient information can be retrieved from the worklist*



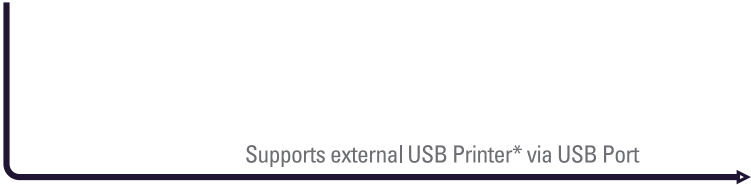
3CHx4+1R

Seamless Connectivity

- Supports for transmission of ECG data to ECG workstation or ECG manager(optional)
- Multiple format reports export, such as PDF, JPG, BMP ,EM-XML, SCP*, DICOM, FDA-XML*
- Data access with HIS/PACS/EMR system based on FTP /DICOM / HTTP protocol(optional)



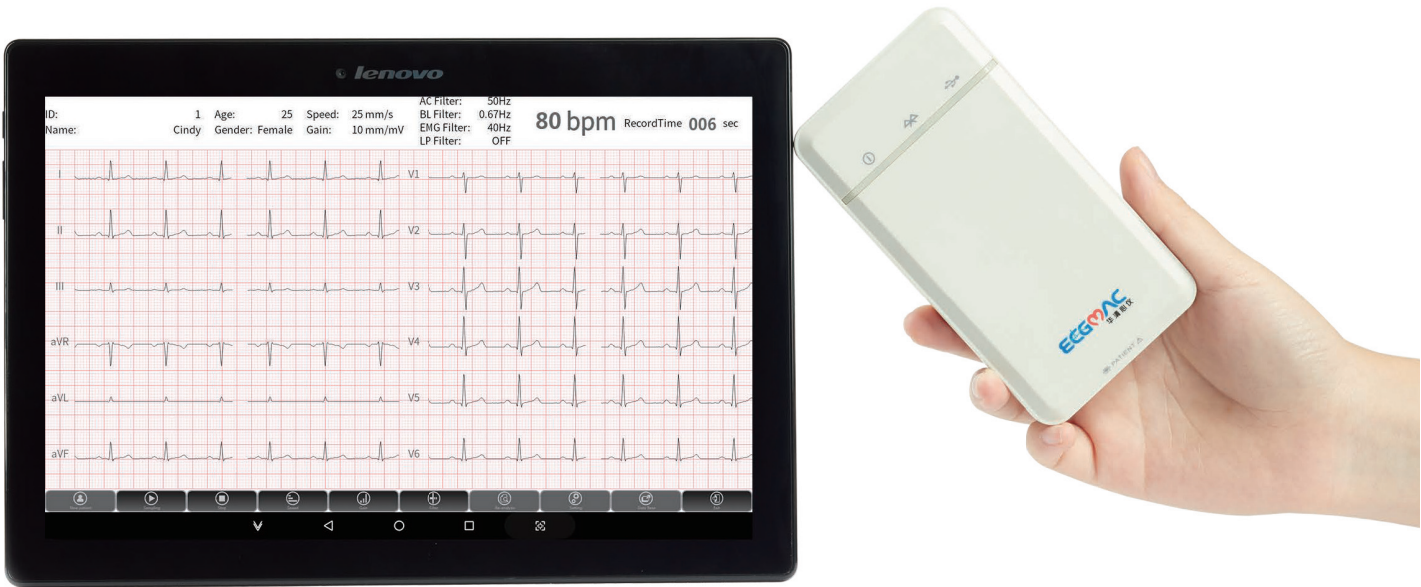
ECG data can be transmitted to ECG management software*



Supports external USB Printer* via USB Port



BLUETOOTH ECG PE-1204



Product Features

- Supports wired and wireless ECG acquisition**

Lightweight and portable, suitable for ward visits and outdoor checkup. Sampling box supports USB wired and Bluetooth wireless ECG acquisition
- Simultaneous 12 leads ECG acquisition**

Supports 6 leads and 12 leads acquisition modes. Compatible with Windows and Android operating system
- Multiple auxiliary analysis tools(windows)**

Equipped with high-precision measuring ruler, parallel ruler, support waveform zoom, waveform calibration, etc.
- Lead correction(windows)**

Support limb lead or chest lead correction, effectively reduce secondary acquisition caused by misuse
- Pre-sampling**

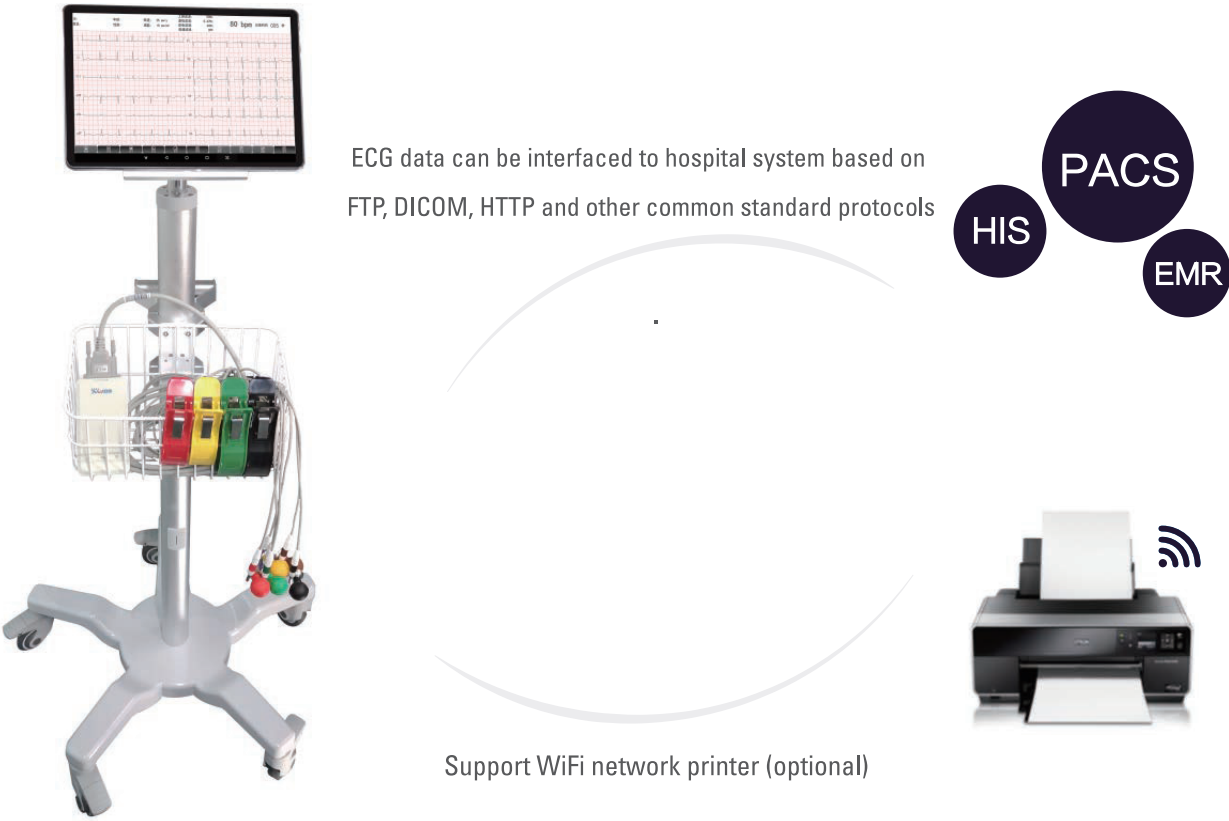
Supports waveform pre-sampling for better control of waveform quality,pre-sampling time can be set.
- Excellent and stable signal quality**

Comprehensive filters to ensure no waveform distortion while eliminating interference; ECG anti-aliasing technology provides high-quality ECG waveform

Software Interface

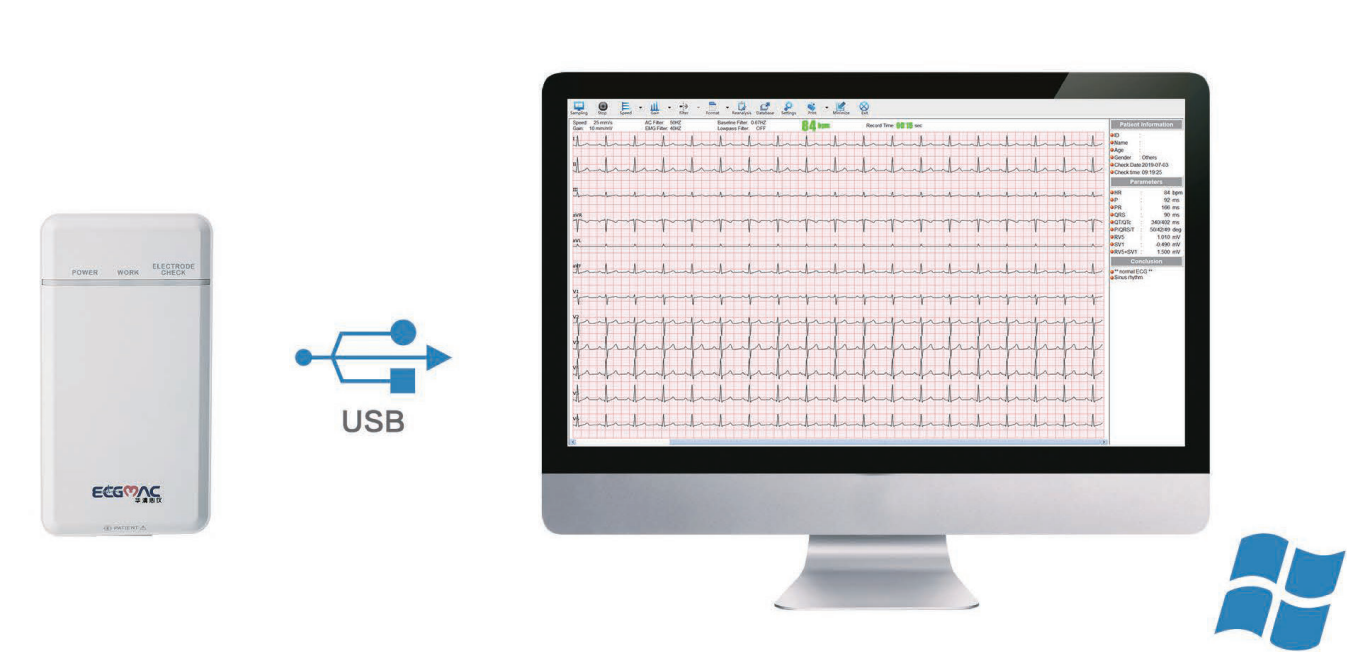


- Support long-time waveform review, waveform and report preview
- Support PDF, JPEG, BMP, FDA-XML*, EM-XML, SCP*, DICOM and other output formats
- With the Worklist function, one-click extraction of patient information to be checked from HIS and PACS system, reducing manual entry (optional)
- Accurate ECG Algorithm Program verified by European CSE database, efficiently assist doctors to complete the analysis and diagnosis of ECG



*Trolley and tablet are optional, please communicate with manufacturer before purchasing
Items with * are optional

PC - ECG PE-1201



• Product Features

Lightweight and portable
Lightweight and portable, supports 6 leads and 12 leads acquisition modes. Supports pacemaker detection, its sensitivity selectable

Pre-sampling
Supports waveform pre-sampling for better control of waveform quality, pre-sampling time can be set.

Seamless Connectivity
ECG data can be interfaced to PACS and HIS system based on FTP, DICOM, HTTP and other common standard protocols (optional)

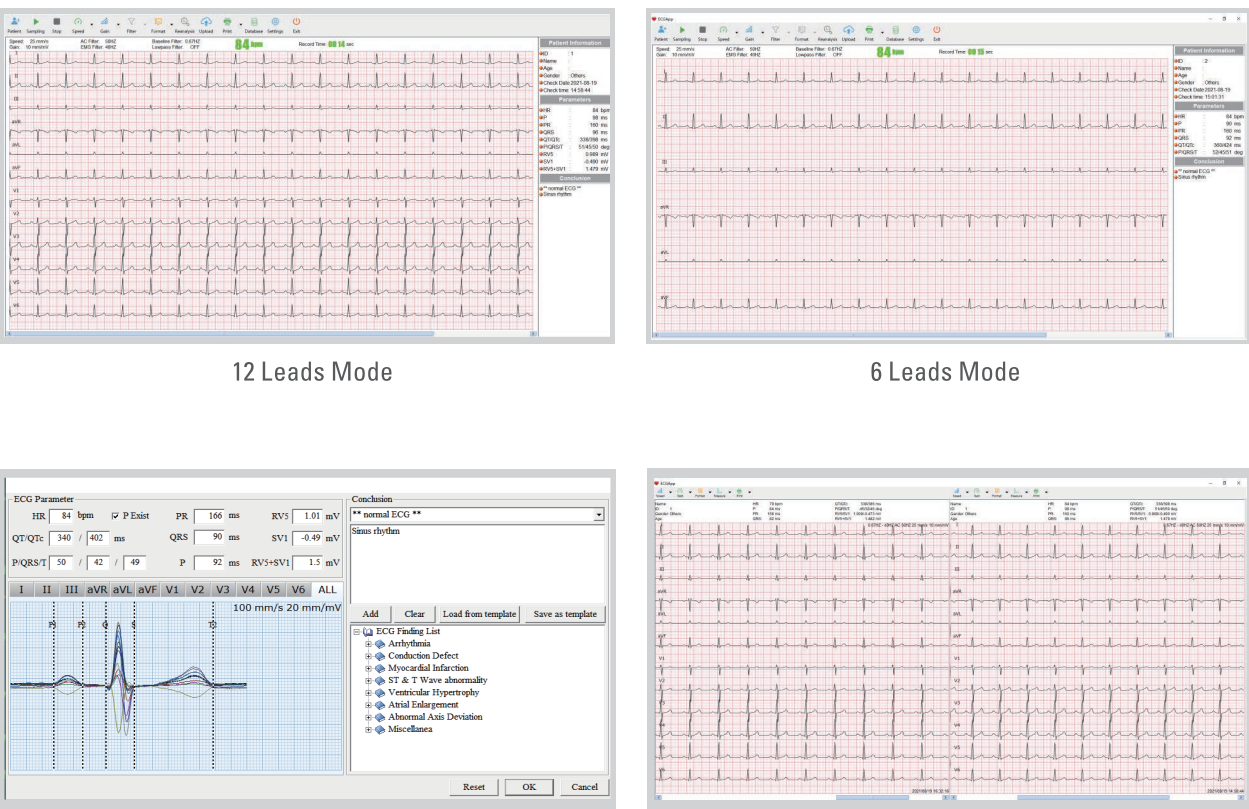
Lead correction
Support limb lead or chest lead correction, effectively reduce secondary acquisition caused by misuse

Accurate ECG algorithm
Accurate ECG Algorithm Program verified by European CSE database, efficiently assist doctors to complete the analysis and diagnosis of ECG

Worklist Function
With the Worklist function, one-click extraction of patient information to be checked from HIS and PACS system, reducing manual entry (optional)

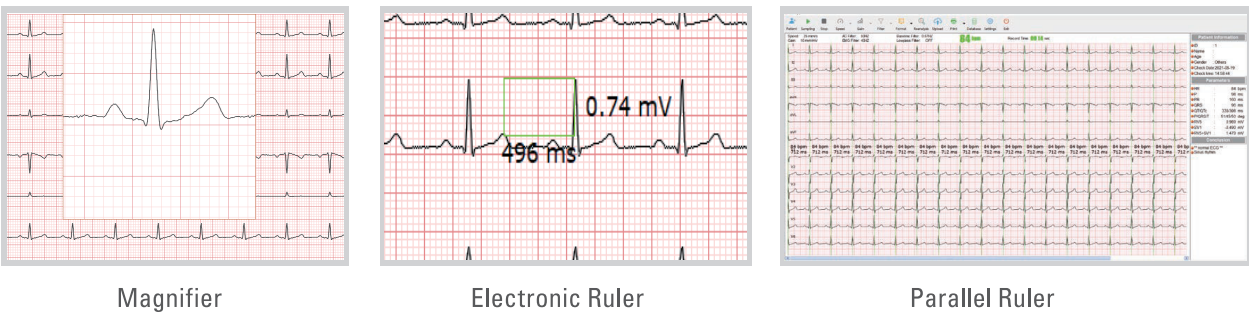
• Software Interface

- Support long-time waveform review, waveform and report preview
- Support the comparison function of the patient's historical examination data, which is convenient for observing the changes of the patient's ECG
- Support PDF, JPEG, BMP, FDA-XML*, EM-XML, SCP*, DICOM and other output formats
- Support image signature to improve doctor's work efficiency



• Convenient Measurement Tools

- Equipped with high-precision measuring ruler, parallel ruler, support waveform zoom, waveform calibration, etc.



HOLTER

H3B-PLUS/H3B/H12B-PLUS/H12B



Portable and Light

Portable and light, easy to wear



OLED Display

OLED display is available on plus series recorders to preview ECG easily



Durable Patient Cable

Patient cable with anti-reverse plug insertion and anti-drop function, safer to wear



Event Button

Event button to record abnormal event time for patient



Convenient Patient Information Entry

Patient info can be written to recorder before recording



Real-time clock and Calendar

Real-time clock and calendar, no need to enter record time and date



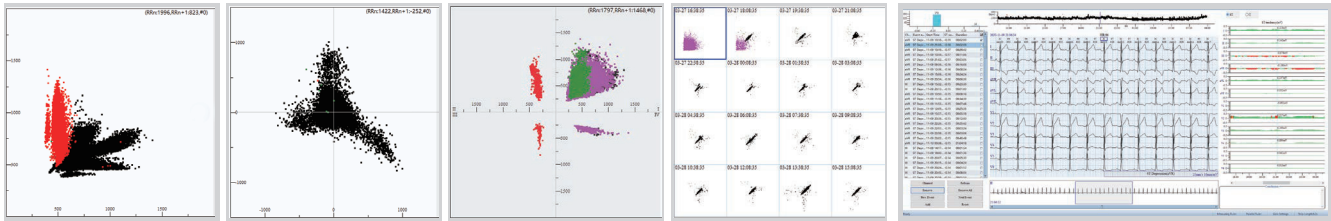
Accurate Pacemaker Detection

Special two-grade pacemaker detection circuit design to ensure accurate pacemaker detection



Nandflash Memory, No Data Compression

Nandflash to storage more than 24 hours ECG data, no data compression



RR Poincare

RR Difference Poincare

Four-quadrant Poincare

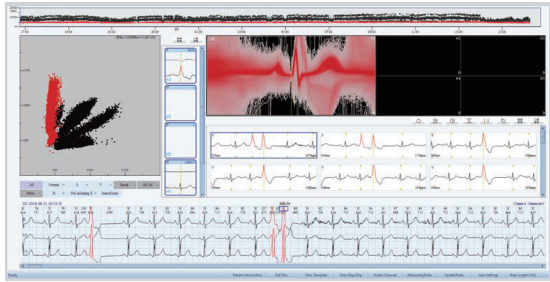
Time-share Poincare

ST-T Segment Analysis

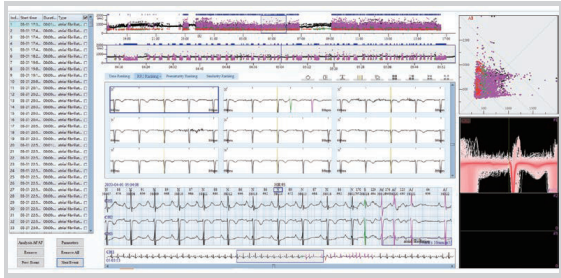
Software Interface



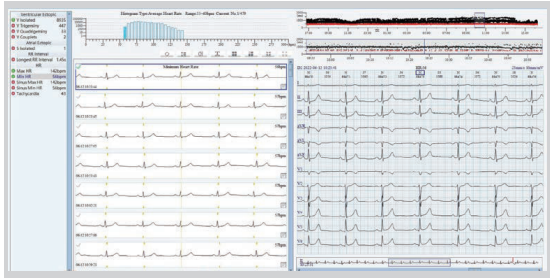
Template Edit



Lorenz Plots



Atrial Fibrillation Edit



Edit Event

Template Edit

Supports the linkage editing Template, Lorenz Plots, Overlay beats on same interface, which can quickly correct the wrong and missed beats

Atrial Fibrillation Edit

Automatic-analysis function of Atrial Fibrillation/ Flutter

ST-T Segment Analysis

Multi-image simultaneous display the analysis results by ST-T scanning to view of ST-T changes quickly

Multi-channel QRS Detection

Simultaneous display of 12-lead waveform, provide with RR Graph to adjust analysis area, QRS detection sensitivity above 99.5%, support interval re-analysis

Advanced Analysis Tool

Provide multiple analysis tools, such as HRV Time Domain, HRV Frequency Domain, HRT, DC, TWA, SAP, Lorenz, etc

Lorenz Plots

Realize the reverse editing of Lorenz Plots, with RR Poincare, RR Difference Poincare, Four-quadrant Poincare, Time-share Poincare

Edit Event

Visualized arrhythmia event list for rapid positioning of severe arrhythmia types, supports instant print or export report

Overlay Beat Analysis

Demix tool is available to discriminate and edit QRS in different morphology

Histogram

More than 50 types of histograms for comprehensive and quick display and editing of arrhythmias

Pacemaker

Automatically distinguish autonomous beats and pacing signals, and automatically classify and edit AAI, VVI, DDD, etc

Model	H3B-plus	H12B-plus	H3B	H12B
Lead	3-channel (7 lead wires) 3-channel (5 lead wires)*	12 leads (10 lead wires) 3 leads (7 lead wires)*	3-channel (7 lead wires) 3-channel (5 lead wires)*	12 leads (10 lead wires) 3 leads (7 lead wires)*
Recording Time	24h / 72h* / 168h*	24h / 48h* / 72h*	24h / 48h*	24h
Battery	2AAA alkaline battery		1 AAA alkaline battery	
Size	98mm×59mm×21mm		86mm×54mm×18mm	
Weight	78g		48g	
OLED Display	Yes, 1.77 inch OLED Display		No	

Medical Portable Vein Finder PROF-100



Product Specification
Super clear display medical portable vein finder

Portable vein-finding device. It can project the image of blood vessels on the skin surface accurately and in a timely manner. The ergonomic design makes it very comfortable to hold. The optional desktop stand and mobile trolley are available for multiple application situations.

Help doctors and nurses easily find veins of various patients, such as obesity, hairy or dark skin people, etc. It highly increases the success rate of puncture, thus reducing the cost and pain.

This device also can be used to examine patients with varicose veins and avoid closed or bifurcated veins.

item	Vein Finder
Infrared detection depth	8mm
Best detection distance	15-25cm
Accuracy of blood vessel position	±0.5mm
Accuracy of blood vessel resolution	±0.5mm
Low working noise	≤40Bp
Battery life	3 hours
Power supply of charging	5V 2.0A, 100V-240V 50Hz-60Hz
Weight	280g
Size	20*6*6.5cm





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