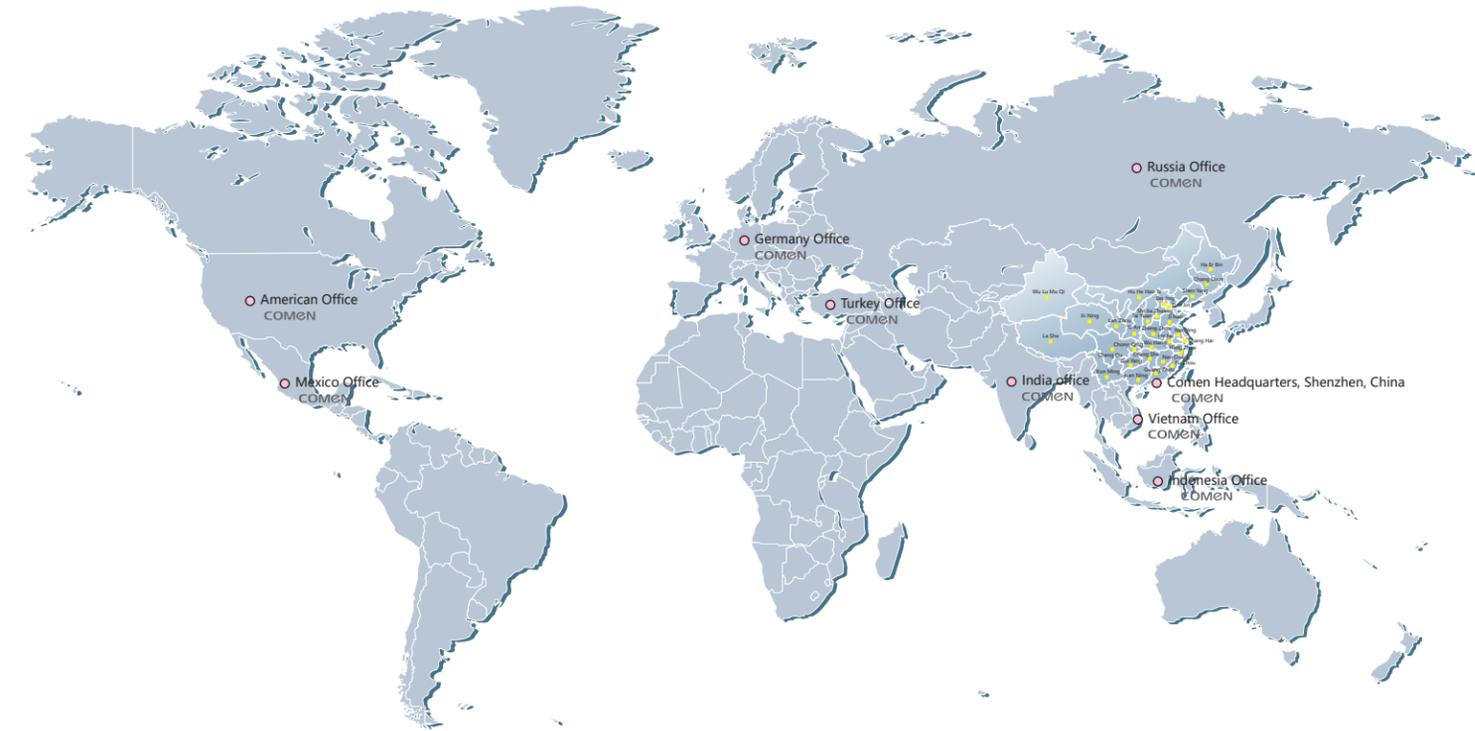


# Product Catalogue



Monitoring Products Initiated by  
"Specialized Products, Specific Usage"

Comprehensive NICU Solution

Comprehensive OR/ICU Solution



Shenzhen Comen Medical Instruments Co., Ltd.

P/N: EN-Product Catalogue-44P-20190829-V1.2

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COMEN

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## Monitoring Products Initiated by “Specialized Products, Specific Usage”



C20 Specialized Fetal & Maternal Monitor



C60 Specialized Neonatal Monitor



C100 Specialized Cardiovascular Monitor



C30 Multi-parameter Patient Monitor

# C100 Specialized Cardiovascular Monitor

≥ Modular Monitor + ECG



C100 can be used as an electrocardiograph

C100 has passed IEC 60601-2-25 ECG Machine Specialized Standards.  
 Advanced performance: Input impedance ≥ 50MΩ,  
 Polarization resistance voltage: ≥ ±650mV,  
 Common mode rejection ratio: ≥ 105dB, Time constant: ≥ 5S.  
 72 hours' full disclosure 12-lead ECG waveform review.  
 Shortcut key for ECG, one key switch between the monitoring mode and the ECG mode.  
 216mm modular printer; synchronous printing of 12-lead ECG.

## Modular Monitor

Functional modular slot × 2

Two extendable modular slots,  
 CO<sub>2</sub>/IBP / C.O. / AG / ICG module optional;  
 Flexible configuration based on  
 department requirements.

Printing module slot × 1

Support 216mm thermal recorder,  
 12 waveforms simultaneously recorded.



# C30 Multi-parameter Patient Monitor

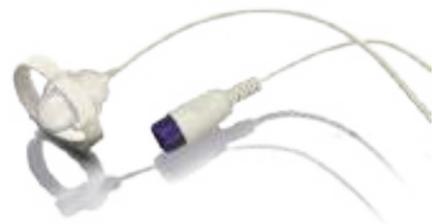
Comen C30 is a new generation of specialized ambulance & transport monitor. It is designed according to rescuing scene and ambulance transportation monitoring requirements for practicability, convenience and reliability of emergency treatment, first aid and transportation. It adopts PC/ABS high-strength engineering plastics, high-reliability Linux operation system and high-brightness scratching-prevention LCD. It is equipped with specialized first-aid monitor bag with fitting management pack and first aid device collection pack able for multi-carry. The entire machine is portable, solid, reliable, stable, waterproof, fireproof and anti-falling. It also can be displayed clearly under strong sunshine in the open air. It also can be used under various kinds of severe environment to meet the demand of medical agents such as troops and hospital during emergency treatment, first aid and transportation in the field.



- Waterproof, vibration shock resistant
- The specialized waterproof and anti-shock C30 first aid bag is portable and easy carrying with enough space
- Multi-carry options: shoulder strap, stretcher, mount on the ambulance
- Place first aid articles in left storage bag and all instrument accessories fitted in right one



C60 Specialized Neonatal Monitor



Apnea Self-saving monitoring

Unique neonatal Apnea Self-saving monitoring solves the suffocation symptom brought by Apnea neonatorum, gives superior care to the neonates.



Oxygen concentration monitoring function

The oxygen concentration of the incubator will be displayed on the monitor through oxygen sensor, it's convenient for medical staff to know the oxygen concentration status.



C20

## Specialized Fetal & Maternal Monitor

In obstetrics, we take care of both fetus and pregnant women. Different monitors will be used during the process of prenatal diagnosis, premature rescue, delivery, postpartum recovery. Traditional obstetric care equipment, including fetal monitor, emergency transport monitor, maternal / fetal monitor and multi parameter monitor, makes monitoring complicated. However, COMEN makes it simple and creates the C20 specialized obstetric monitor. C20 provides a variety of obstetric care equipment which can meet all the demands in obstetrics.

### Functional Characteristics

- 12.1" LCD touch screen
- Full keyboard design makes clinical editing more easily
- Screen can be adjusted for multi-angle observation
- Suitable for antepartum and postpartum applications
- Fetal interface, fetal and maternal interface, big font interface
- High sensitive waterproof FHR transducer
- Auto/Manual fetal movement marker
- Automatic fetal status scoring system
- Built-in 152mm Thermal Printer
- Compatible with COMEN central monitoring system

### Professional fetal automatic scoring system

NST

Fischer

Improved Fischer

Krebs

## C90 Multi-parameter Patient Monitor

C90 monitor is integrated with the world-leading vital signs parameter monitoring technology and IT application technology to make a high-end vital signs monitoring platform and provide a comprehensive monitoring solution.

- 17" high resolution LCD touch screen 1280 X 1024
- Rotary knob, buttons and touch screen operation.
- Built-in lithium battery: to ensure keeping continuity of patient's data during operation with its running time over 2 hours
- Bracket solutions: Trolley
- Supporting built-in thermal printer and external laser printer
- Module conductive contact: gold-plating technology, excellent conductivity
- Infrared transmission for module data transfer



## C70 Multi-parameter Patient Monitor

Classic Continuation  
Continuous Innovation

C70 inherited the outstanding character of our Patient Monitor C90 and adopted with highly integrated modular mechanical structure, it efficiently combines the structure, function and maintenance management. C70's single-module and multi-module can combine at meeting the upgrade which clinical needs. C70 create a new era in modular monitor field.



### Functional module slot

Plug and play, interchangeable  
Various kinds of module slots, multi parameter module C30 and multi parameter module C31 can be plugged in C90 and C70, which provided the vital signs parameter monitoring.



IBP



CO<sub>2</sub>



AG



ICG



C.O.



BIS



**C80**  
Multi-parameter Patient Monitor  
12.1" LCD touch screen

**C86**  
Multi-parameter Patient Monitor  
15" LCD touch screen

C80/C86 is the new generation of patient monitor designed and developed by COMEN. C80/C86 is equipped with SD card port, USB port, convenient handle, multiple mounting solutions, IPX1 level waterproof cabinet design and sturdy housing to withstand rough handling. C80/C86 fulfills the hardware requirements for intensive care monitoring in multiple environments, efficiently caring for human life every second.



**C100A**  
Multi-parameter Patient Monitor

COMEN Telemetry Monitoring System

- RF telemetry technology.
- Support 3,5 lead ECG.
- Maximum 48 telemetrys can be connected to Central Monitoring System.



**C50**  
Multi-parameter Patient Monitor

Features:

- 10.4" LCD touch screen
- Support rotary knob, buttons and touch screen operation
- Perfect patient information management system
- 5° inclination screen makes bedside monitoring easier
- Fan-less design, avoid cross contamination on laminar, ultra quiet;
- IPX1 waterproof
- Intelligent alarm technique, automatic recognition alarm level



## NC3

### Vital Signs Monitor

Specially designed for inpatient monitoring and ward rounding, easy and quick to learn basic vital signs; Configured with easy-to-use NIBP, SpO<sub>2</sub> functions; Quick body temperature measurement technique in clinical application: use infrared ear thermometer to learn ear cavity temperature in 1-2s, which is instantly uploaded wirelessly to NC3; 12 hours battery life under standby mode, high resolution display; Simple and elegant, compact and lightweight; Aesthetics, technology, science and wisdom in one.



## NC5

### Vital Signs Monitor

#### Ingenious and Minimalistic, Smart and Lightweight

Applied to outpatient, emergency and general wards.

As a spot check monitor and bed side monitor, it integrates NIBP, SpO<sub>2</sub>, ECG, Ear Temp. It is simple, tasteful, compact and lightweight, a perfect combination of technology and aesthetics.

## NC 12

Screen Size : 12.1 inch



## NC 8

Screen Size : 8 inch

## NC 10

Screen Size : 10.4 inch



## NC19 Multi-parameter Patient Monitor

Screen Size : 19 inch

### Multi-parameter Patient Monitor

Simple, reliable, multi-functional.

Semi modular patient monitor, combined the advantages of normal patient monitor and modular patient monitor, which can meet different demand of different department in hospital.

Support rotary knob, buttons and touch screen operation.

Plug and play modular design offers the most commonly used parameters, including CO<sub>2</sub>, IBP, AG, C.O., BIS.

Screen brightness auto-adjustment with ambient light sensor.

Button bar was located at right side on the front shell, more convenient for using.

Fan-less design, avoid cross contamination on laminar, ultra quiet.

NC19 is a standard display interface which integrated both hardware and software technology from its mature product C90 & C70. Not only with slim and wide LCD screen, but also capacity with powerful information processing. This product equips with various peripheral interface, which is suitable for working with different equipment. Relying on a variety of mounting solutions, developing with innovative technology, COMEN perfectly combines actual medical applications and modern aesthetics into one, which comes as Separated Modular Patient Monitor NC19.

This innovative monitoring applies with the comprehensive care units; Integrate with patient monitor C30. It is very convenient for nurses to observe the data with 19 inch LCD screen, and also the modular patient monitor is a classic model for the ICU.



### STAR8000F Multi-parameter Patient Monitor

Features:

- 12.1" LED backlight touch screen with low power consumption
- Support rotary knob, buttons and touch screen operation
- Fan-less design, avoid cross contamination on laminar, ultra quiet
- Large data storage
- Large capacity battery, incredible long service life



### STAR8000E Multi-parameter Patient Monitor

Features:

- 12.1" LED backlight screen with low power consumption
- Support rotary knob, buttons and touch screen operation
- Fan-less design, avoid cross contamination on laminar, ultra quiet
- Large data storage
- Large capacity battery, incredible long service life
- Independent striking NIBP shortcut key, easy to use



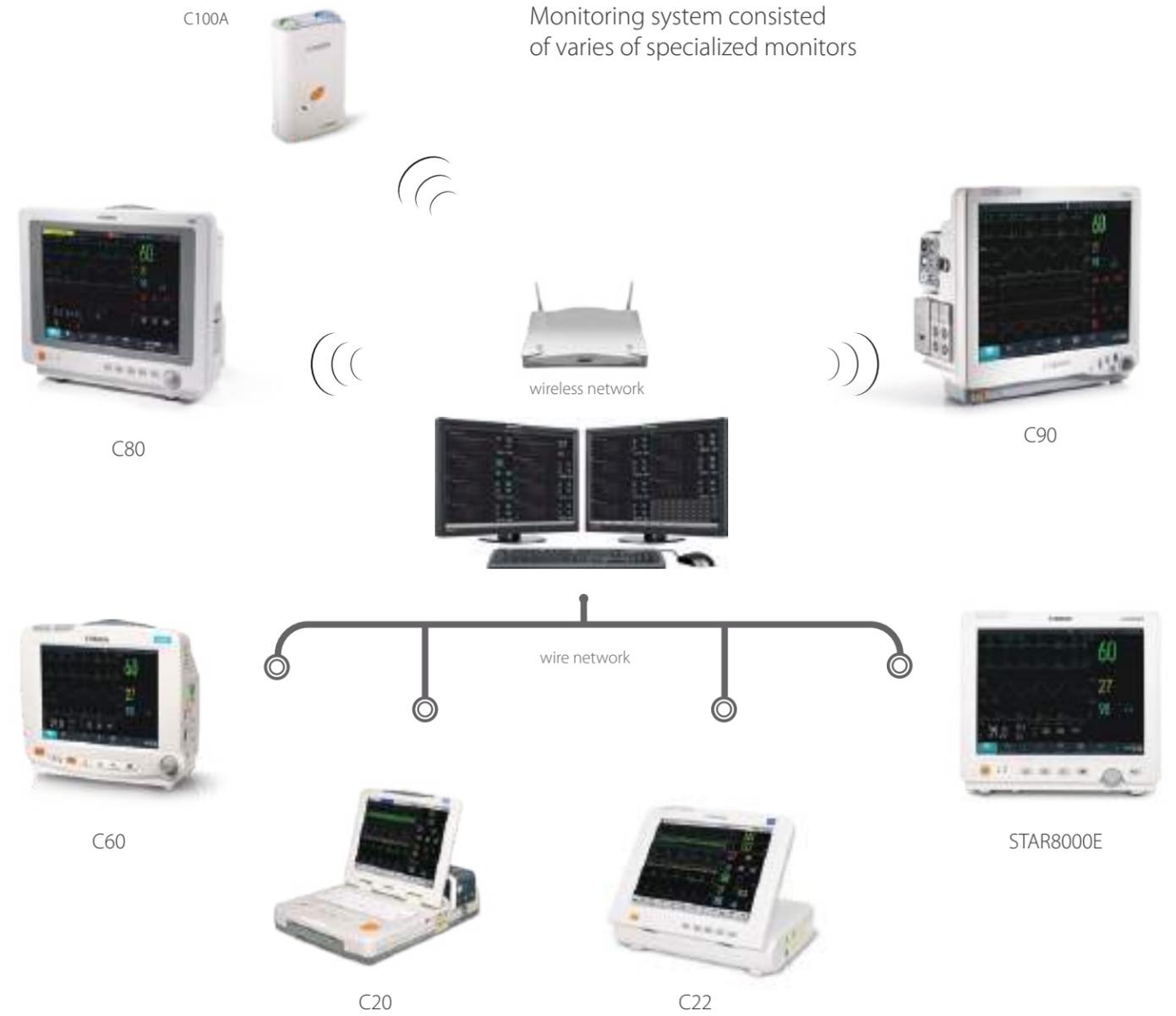
### STAR8000H Multi-parameter Patient Monitor

Features:

- 8.4" LED backlight touch screen
- Support rotate, key and touch screen operation
- Fan-less design, avoid cross contamination on laminar, supreme quiet
- Pass CE certificate, modular design with magnesium alloy guarantee safety, reliability and stability
- Light weight with compact design, multiple mounting solutions, easy to transport and mount

### STAR8800 Central Monitoring System Software

Monitoring system consisted of varies of specialized monitors





**C21**  
Specialized Fetal & Maternal Monitor

Features:

- 12.1" LCD touch screen
- Screen can be adjusted for multi-angle observation
- Standard, big font, parameter list interfaces
- High sensitive waterproof FHR transducer
- Built-in 152mm Thermal Printer
- 120 hours full data review
- Auto/manual fetal movement marker
- Automatic fetal status scoring system: NST, FISCHER, IMPROVED FISCHER, KREBS



**C22**  
Specialized Fetal & Maternal Monitor

Features:

- 12.1" LCD touch screen
- Screen can be adjusted for multi-angle observation
- Suitable for antepartum and postpartum applications
- Fetal interface, fetal and maternal interface, big font interface
- High sensitive waterproof FHR transducer
- Auto/Manual fetal movement marker
- Built-in 152mm Thermal Printer
- Compatible with COMEN central monitoring system
- Automatic fetal status scoring system: NST, FISCHER, IMPROVED FISCHER, KREBS



**STAR5000E**  
Fetal & Maternal Monitor

Features:

- 5.7" screen
- Built-in 112mm thermal printer
- Quick release button for paper replacement
- Built-in Lithium-ion battery, up to 4 hours
- Auto/manual fetal movement marker
- Automatic fetal status scoring system
- FHR signal strength indicator, twins cross channel verification
- Power-off data protection for 300 cases.
- 60 hours real-time waveform replay & storage
- Timing monitoring function to avoid over time monitoring
- Support timing printing
- Compatible with COMEN central monitoring system



## H12 Electrocardiograph

- 10.4 LCD touch screen
- 12 × 1、6 × 2 format display, vertical screen display
- Support handwriting input
- 10000 patient case storage, support JPG format storage
- FTP / DICOM protocol allow connection with hospital HIS、EMR、PACS system without PC workstation .

## CM1200

### Electrocardiograph

#### Features:

- 12.1" folding-up touch screen
- Support multi-language, printing preview
- Sleep/wake up mode for saving energy and extending screen life
- Lead status display
- Alphanumeric keyboard, support hand-writing patient information input
- Anti-defibrillation
- 10,000 ECG internal memory
- Last 120 seconds 12-lead waveforms reviewable and recordable
- 216/210mm thermal printer, support rolling paper, and Z-fold paper
- External printer and data transmission support by USB port
- Optional ECG working station



## H3 Electrocardiograph

- 6.2" LCD touch screen
- Screen brightness auto-adjustment with ambient light sensor
- 3 × 4 and 6 × 2 display format, 12-lead display simultaneously
- 10000 patient case storage, support JPG format storage
- FTP service allows patient case download in a remote network.

## CM1200B

### Electrocardiograph

#### Features:

- 5.7" Screen
- Lead status display
- Numeric keyboard, backlight design for night use
- 300 ECG internal memory
- 120 seconds 12-lead waveforms reviewable and recordable
- Support 210mm rolling paper, Z- folded paper
- External printer and data transmission support by USB port
- Optional ECG working station
- Basic economic model





## Comprehensive NICU Solution



## BQ80 Infant Radiant Warmer

### New Neonatal Nursing and Rescue Platform

This is by far the most powerful 4 in1 neonatal nursing platform. The BQ80 integrates four key rescue and nursing systems to achieve one-stop operation and management. At the same time, it scientifically optimizes the workflow, helps medical staff to easily respond to urgent medical needs, effectively saves the valuable rescue time, and provides comprehensive and meticulous care for newborns.

#### Heating:

BQ80 applies far infrared ceramic heating tube for improving the radiation efficiency and extend the duration.

#### Resuscitation:

Built-in T-piece resuscitation provides safe and effective integrated asphyxia resuscitation and ventilation management including negative pressure sputum suction, positive pressure resuscitation, and oxygen therapy

#### Monitoring:

Built-in C31 specialized neonatal monitoring system is available for monitoring neonatal vital signs parameter, which can save the space and cost.

#### Phototherapy:

Canopy integrated jaundice treatment LED light for phototherapy, providing a soft blue light for the neonatal with jaundice.



B8/B6 Neonatal Incubator

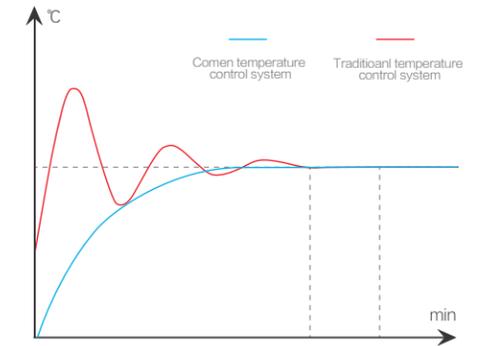
## Incubator System

temperature control technology

7 channels temperature collection

Appropriate temperature inside the incubator can reduce neonates' loss of water and to reduce their risk of dehydration, B8 double guarantee the control of temperature through 7 channels of detection.

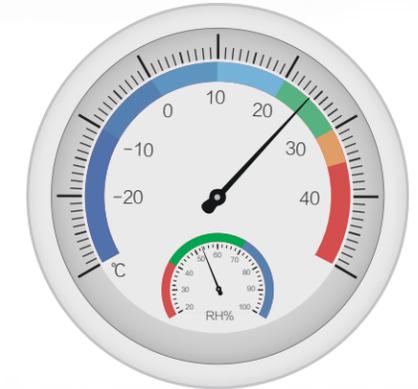
3 independent over temperature protection



Constant temperature figure

## Humidity control technology

Thanks to PWM control technology and advanced humidity generator, the B8 infant incubator provides fast wetting speed so that a environment which similar to mother's womb is created in a short period of time.

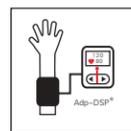


## Specialized Neonatal Monitoring System

Specialized Neonatal Monitoring System customized for NICU by COMEN, including ExNeo® ECG technology, Adap- DSP® self-adapt NIBP technology, Masimo SPO<sub>2</sub>, Apnea self- saving technology, and oxygen concentration detection function. And it is equipped with specialized neonatal accessories. It not only ensures the correctness of ECG collection and NIBP measurement, but also solves the problem of neonatal respiratory distress syndrome, this system was used in the world first specialized neonatal monitor - COMEN C60.



ExNeo®



Adap- DSP®



Masimo SET



Apnea self- saving



B3 Neonatal Incubator

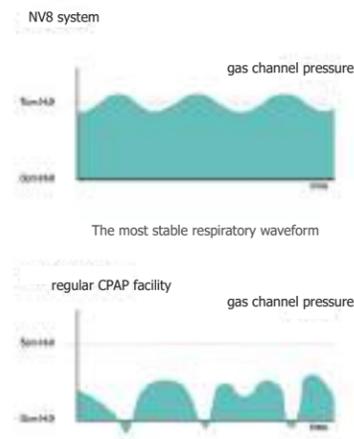
## NV8 Neonatal Ventilator

### The Epitome of Neonatal Non-invasive Ventilation

- NCPAP+apnea wakeup function
- SNIPPV+backup ventilation
- One button for fast oxygen ventilation
- NIPPV
- HFNC+pressure monitoring function
- Manual ventilation

**Exceptional apnea wakeup function** : apnea monitoring and alarm function, providing positive airway pressure to lower the risk of neonatal apnea.

### iFlow Intelligent Closed-loop Control System



**Fast and simple pressure setting** : easy to set the pressure through touch screen in one step.

**Coanda-effect pressure generator** : provide stable pressure to settle neonate's weak resilience, near the nose monitoring is more accurate and rea.

**Real-time leakage compensation** : iFlow system can automatically compensate leakage to guarantee ventilation treatment efficiency.

### O<sub>2</sub> Concentration Control System

**Fast and easy FiO<sub>2</sub> setting** : adopt electronic control of air-oxygen blending to directly set FiO<sub>2</sub>, more precise and accurate.

**Accurate O<sub>2</sub> concentration monitoring** : CITY O<sub>2</sub> concentration sensor, short react time and instant monitoring.

**One key calibration** : one key to calibrate the O<sub>2</sub> concentration, automatically success after a moment.



## KL-20

### Medical Air / Oxygen Blender

An independent gas mixer receiving separate oxygen source and air source, and delivering mixed gas with adjustable oxygen concentration and volume; Incorporate humidifier and oxygen tube/pressure generator into oxygen apparatus/CPAP machine.



## NV6

### Neonatal Ventilator

Bubble CPAP not only provides CPAP ventilation therapy, its unique care for patients lies in that the high frequency vibration bubble makes the airflow of entering into patient's respiratory system produce high frequency oscillation, so that it gives a quick tap for the lung of patient, hence to improve the respiratory function, reduce the amount of dead space, advance expectoration and speed recovery. With HFNC high flow O<sub>2</sub> therapy, NV6 is easier to use and able to avoid damage to the patients.



## Comprehensive OR/ICU Solution



## S8 Defibrillator Monitor

### 4 in 1 Design

Provide a full range of functions to meet various life support needs

With Defibrillation, Pacing, Monitoring and AED mode, S8 is not only suitable for pre-hospital first aid, but also applicable in in-hospital usage.

**Monitor:** 5-lead ECG monitoring as standard, optional monitoring functions include SpO2, TEMP, EtCO2, IBP, and 12-lead ECG are also available for continuous monitoring of patient vital sign

**AED:** The model applies patented analysis algorithm and automated analysis as well as convenient setting to guide clinical emergency personnel in providing defibrillation and basic life support.

**Pacing:** Having on-demand pacing and fixed pacing mode, for patients with cardiac arrest and acute severe slow arrhythmia, in vitro non-invasive pacing mode is rapid, easy to master, time-saving and improve recovery success rate.

**Defibrillation:** Manual defibrillation modes include synchronous cardioversion and asynchronous defibrillation.



## AX-900 Anesthesia Machine

### Screen

- 15-inch four-way rotating touch screen for doctors of different heights carrying out observation and operation at different posture; improve doctor comfort and reduce work fatigue.
- Reasonable partitions of configuration parameters and monitoring parameters; all the observations and operations can be completed within 2-level menu.
- 8-inch independent control screen is adopted in the electronic flow control system, making it clear and handy to use.
- Bookmark menu, simple and clear-cut
- Self-explanatory and easy to use

### Full electronic flow control system

- Full electronic flow control system
- Fully electronically controlled fresh gas flow greatly improves accuracy of flow and oxygen concentration.
- Closed-loop oxygen concentration control technology: The user directly configures the oxygen concentration and total volume of flow. The system automatically matches the ratio and dynamically calibrated it in real time.
- Best flow indicator tool: scientifically guide the clinical implementation of low-flow anesthesia while saving costs.
- Fully electronic gas source control system: electronic monitoring of gas source pressure; once there is overpressure or underpressure, the electronic system would respond quickly.
- Negative pressure expectoration system: no need of negative pressure source; the equipment is converted to negative pressure through the Venturi effect and positive air pressure, and the flow can be adjusted independently.
- A brand new auxiliary oxygen supply system: support off-line operation; fast oxygen therapy; can produce gas of any volume of oxygen concentration.
- The high pressure oxygen source can support the rescue ventilator.



### Breathing circuit

- Compact and integrated design with circuit leakage volume of less than 65ml/min
- Improve the safety and convenience of system use
- Made of PPSU material; corrosion resistant; long service life; can withstand temperature as high as 134 ° C
- High temperature and high pressure steam sterilization
- Easy to disassemble and clean, and has less maintenance time
- Built-in heater eliminates internal condensation effectively
- Bypass function for easy replacement of soda lime absorption tanks during operation
- With semi-open, semi-closed double breathing circuit, can be equipped with bain, T and so on. Open ventilation.

The minimum tidal volume down to **5ml** under PCV mode

**7%** high accuracy ventilation

Breathing circuit leakage as low as **65ml/min**



AX-800  
Anesthesia Machine



AX-500  
Anesthesia Machine

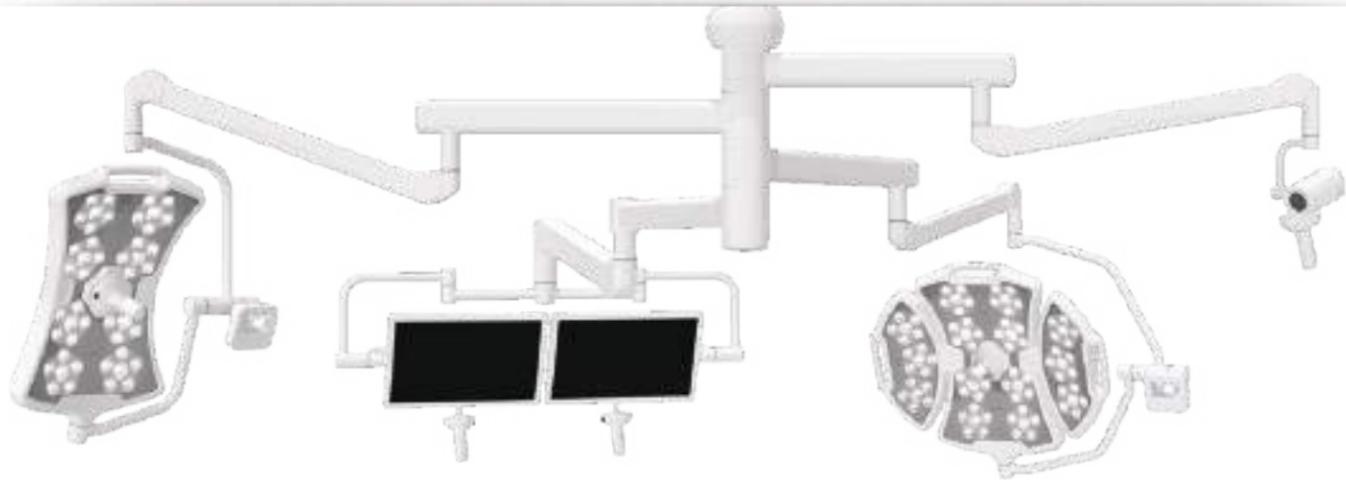


AX-600  
Anesthesia Machine



AGSS - L  
Anaesthesia Gas Scavenging system

Doctors and nurses protect the health of patients,  
COMEN care for doctors and nurses



## L6 LED Surgical Light

**Mixed light function:** Mixed with multicolor spectrum, L6 surgical light guarantees a perfect visualization on the surface as well as in deep cavities with very pure white light.

Thanks to optical engine technology, L6 surgical light provide consistent white light through mixing multiple color light and stable color temperature irrespective of blocking of the light.

An efficient illumination without spotlight

Endoscopy surgery lighting technology

Unparalleled shadow management

Extraordinary 7 performances ranking high level in the world

Center Luminance(lx)

Irradiance ( mW/m2.lx)

Light depth

Shadowless rate

Color temperature (K)

Color rendering index (CRI) (Ra)

R9



The back panel is arc surface with hollow out design to prevent from dust and assist airflow in the laminar flow.

## Design and craftwork:

Designed with elements of ancient knife, butterfly and plum, L6 surgical light offers state-of-the-art feeling for medical staffs while using it.

L6 giving out cold light as if it is the sunshine, showing harmonious beauty among nature, technique and human, delivering peace and gentle, creating some nervous and solemn atmosphere in OR for conducting the surgery and for intensive life care.

Intelligent assembling method allows surgeons free from adjustment so as to focus on his work.



LED light source, **50000h** long service life



D8 Ceiling Pendant



D5 Ceiling Pendant



D9 Ceiling Pendant



- Adopting complex porthole die technology on the arm;  
Profile section's thickness is up to 17.68mm;  
Tensile strength is 285N/mm<sup>2</sup>;  
Yield strength is 234N/mm<sup>2</sup>;  
Passed strict maximum loading test(2.72ton).



- Switzerland SKF high strength bearings, with quiet, smooth running and long-term reliability advantages.  
Service life of the bearing About 10000-250000 hours



- Combining with the SKF lifting technology from Switzerland; Its lifting mechanism can bear heavy load and support lifting distance working, enabling free and easy movement with direction orientation function in the driving system.



- Use AL6061 aluminum, better performance with the oxidation protection treatment on the surface.  
Air source terminal passed plug durability test(30000 times).  
Passed strict pressure test



- The engineer fully considerate the performance of the cabinet. Cable management and storage tank design make it more compact.  
The interfaces of the gas sources and power supply is designed to maximize the space utilization.



- Drag chain design to prevent air leakage caused by gas circuit turning and short circuit caused by cable damage.  
Double bearing and double track design enable more stable of translation.  
The reading lamp was designed for enable patients to read in the evening, no influence to other patients.  
Multi-color backlight design help meet with patients of different backlight color preference.



## M200 Infusion Workstation

Integrated information management Syringe Pump, provide real-time monitoring, data review, alarm recording and drug administration functions; Complete new infusion design; largely reduce working load, more convenient and safety for doctors and nurses.



### Single Pump Can Work independently or in combination

When the single pump was used independently, it can provide stable injection with a delicate stabilizer blade; when it was used in a stacking system, it will be connected with other pumps to constitute a working station so as to realize electricity unified management and also realize unified injection management.

## M200A Syringe Pump



### Foldable clip

Foldable clip on back of pump makes infusion support's installation and removal easier.

### Dual CPU Monitoring, High Precision Injection

Double CPUs design; infusion precision reaches  $\pm 3\%$  when two CPUs are monitoring each other, ensuring infusion safety and preventing accidents.



### Powerful independent working function

Support selecting injection mode, setting parameters, patient information displayed. Injection mode: Rate mode, Weight mode, Time mode, Interval mode and TIVA mode.



### Mechanical Clutch Design

Putter was designed with mechanical clutch, to guarantee stable fixation of the piston. Moreover, self-exam system can make sure everything is correctly prepared before infusion.



### High resolution display

The infusion pump is compatible with three operation modes: touch control, shuttle, and button control, more human-oriented and easier to use. 7 inch high resolution (800x480) screen provides you with delighted visual experience, more intuitive and vivid injection waveforms display. Multi-language support, including English and Chinese; hand-writing input, 10 times inputting efficiency than traditional infusion pump.



## ME600 Infusion Pump

### Continuous innovation

- Sophisticated motor and dual detectors guarantee precision and stability
- Intelligent pulse compensation technology
- Intelligent heating technology
- Bubble detection technology
- Patented anti-bolus system