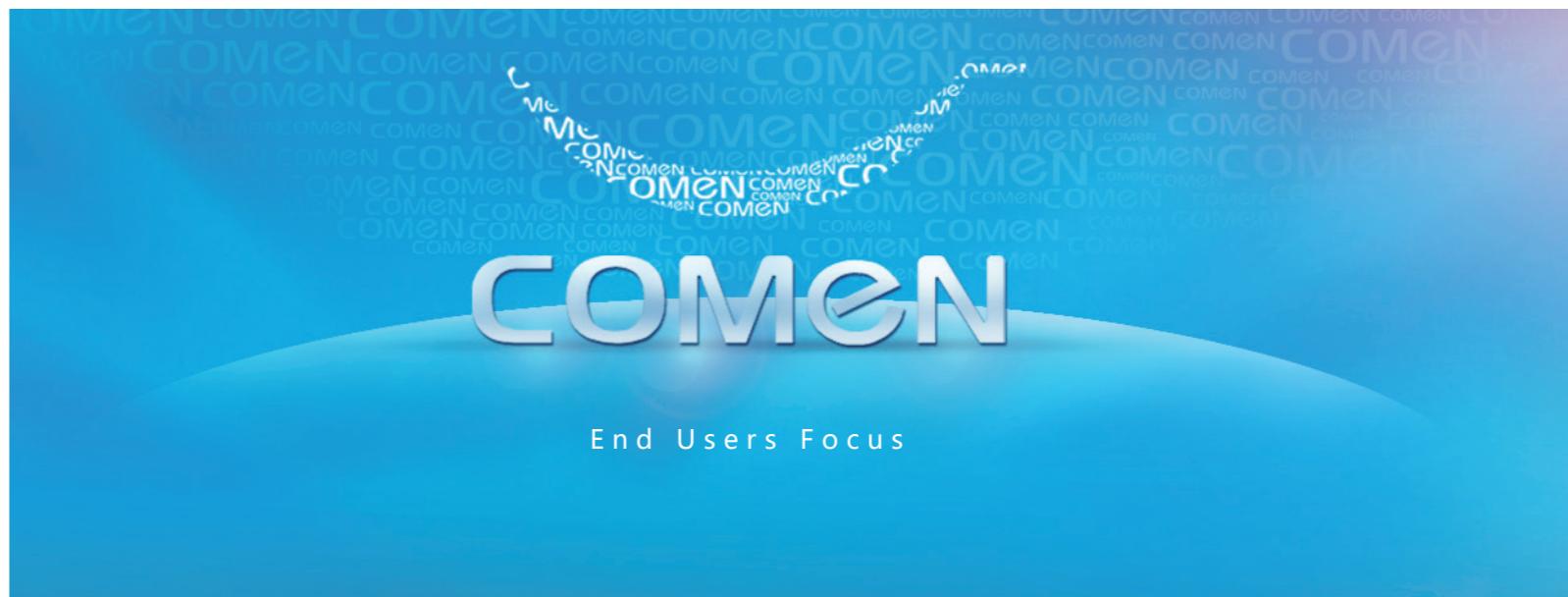


Product Catalogue



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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"Specialized Products, Specific Usage"

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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 a 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.

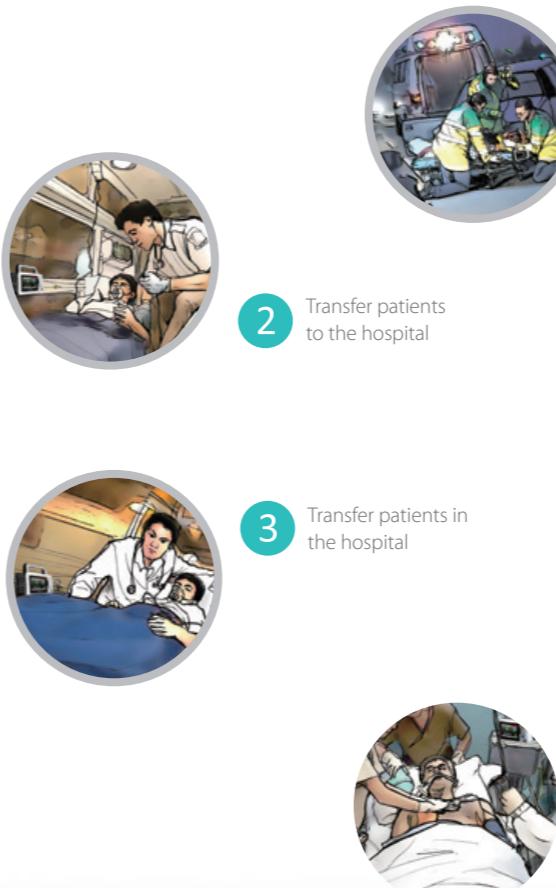
Modular Monitor

Functional modular slot X 2

Two extendable modular slots,
CO₂ / IBP / C.O. / AG / ICG module optional;
Flexible configuration based on
department requirements.

Printing module slot X 1

Support 216mm thermal recorder,
12 waveforms simultaneously recorded.



1 First-aid on the spot

2 Transfer patients to the hospital

3 Transfer patients in the hospital

4 Monitoring in emergency department

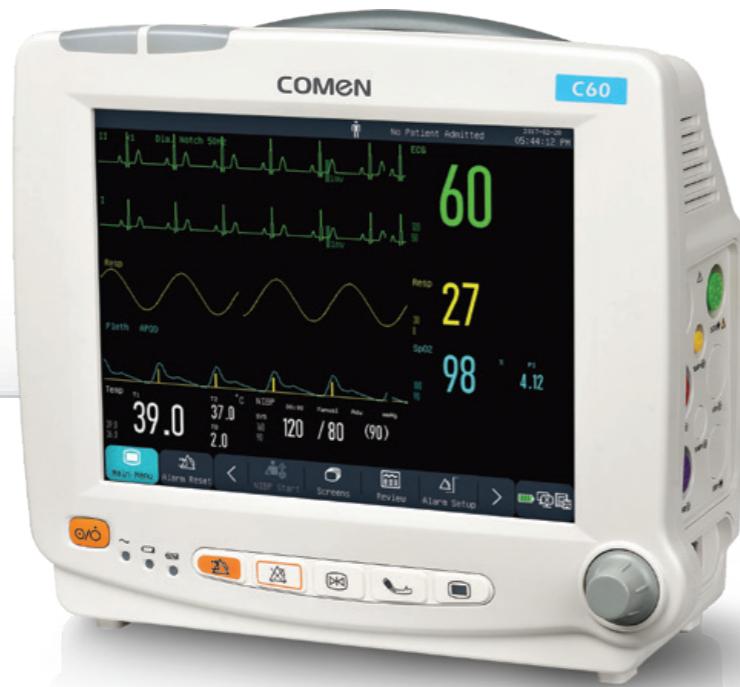


C30 Multi-parameter Patient Monitor

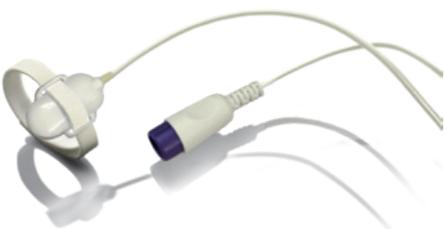
Comen C30 is a new generation of specialized ambulance & transport monitor. It is designed according to rescuing scene and ambulance transportation monitoring requirements for practicability, convenience and reliability of emergency treatment, first aid and transportation. It adopts PC/ABS high-strength 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

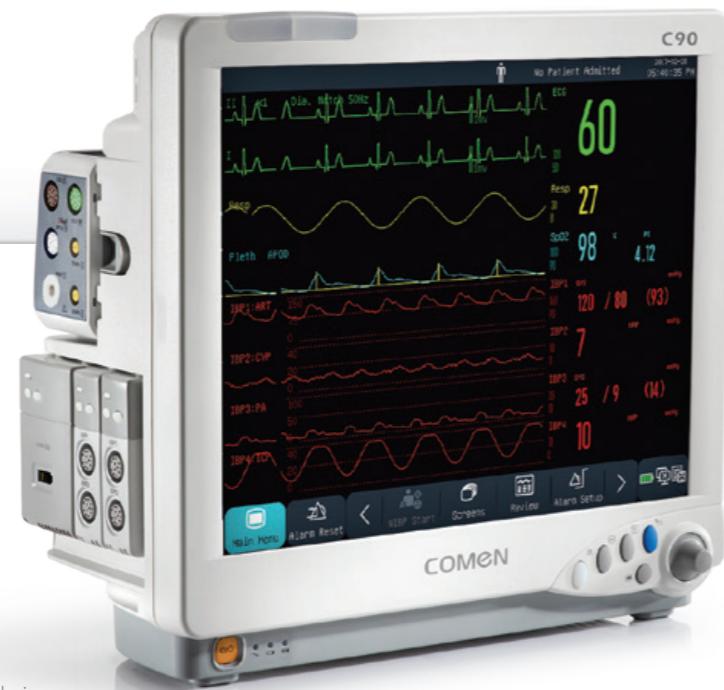
Improved Fischer

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.

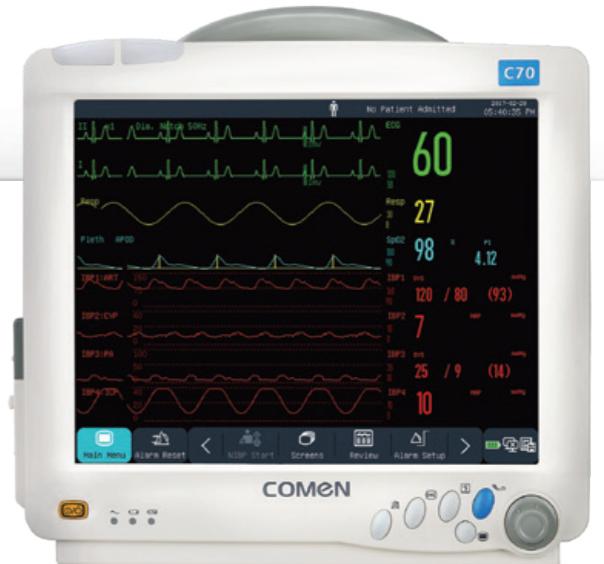
- 17"high resolution LCD touch screen 1280 X 1024
- Rotary knob, buttons and touch screen operation.
- Built-in lithium battery: to ensure keeping continuity of patient's data during operation with its running time over 2 hours
- Bracket solutions: Trolley
- Supporting built-in thermal printer and external 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 combinat at meeting the upgrade which clinical needs. C70 create a new era in modular monitor field.



Functional module slot

Plug and play, inchangeable
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



CO₂



AG



ICG



C.O.

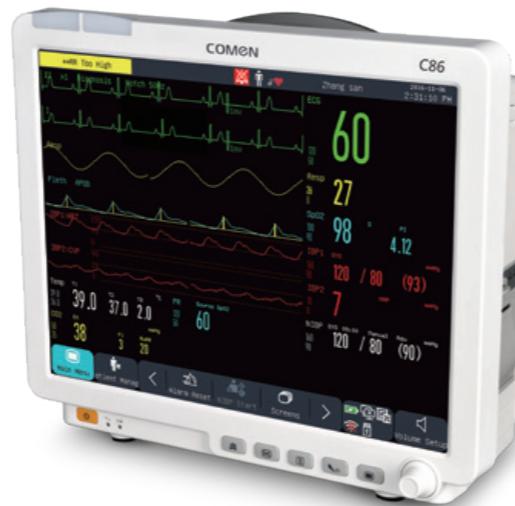


BIS



C80

Multi-parameter Patient Monitor
12.1" LCD touch screen



C86

Multi-parameter Patient Monitor
15" LCD touch screen



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

C100A

Multi-parameter Patient Monitor

COMEN Telemetry Monitoring System

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



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, SpO₂ 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, SpO₂, 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 10

Screen Size : 10.4 inch



NC 8

Screen Size : 8 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 CO2, 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 Multi-parameter Patient Monitor

Screen Size : 19 inch

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



C80



wireless network



C90



C60



C20



C22



STAR8000E



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 .



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.

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

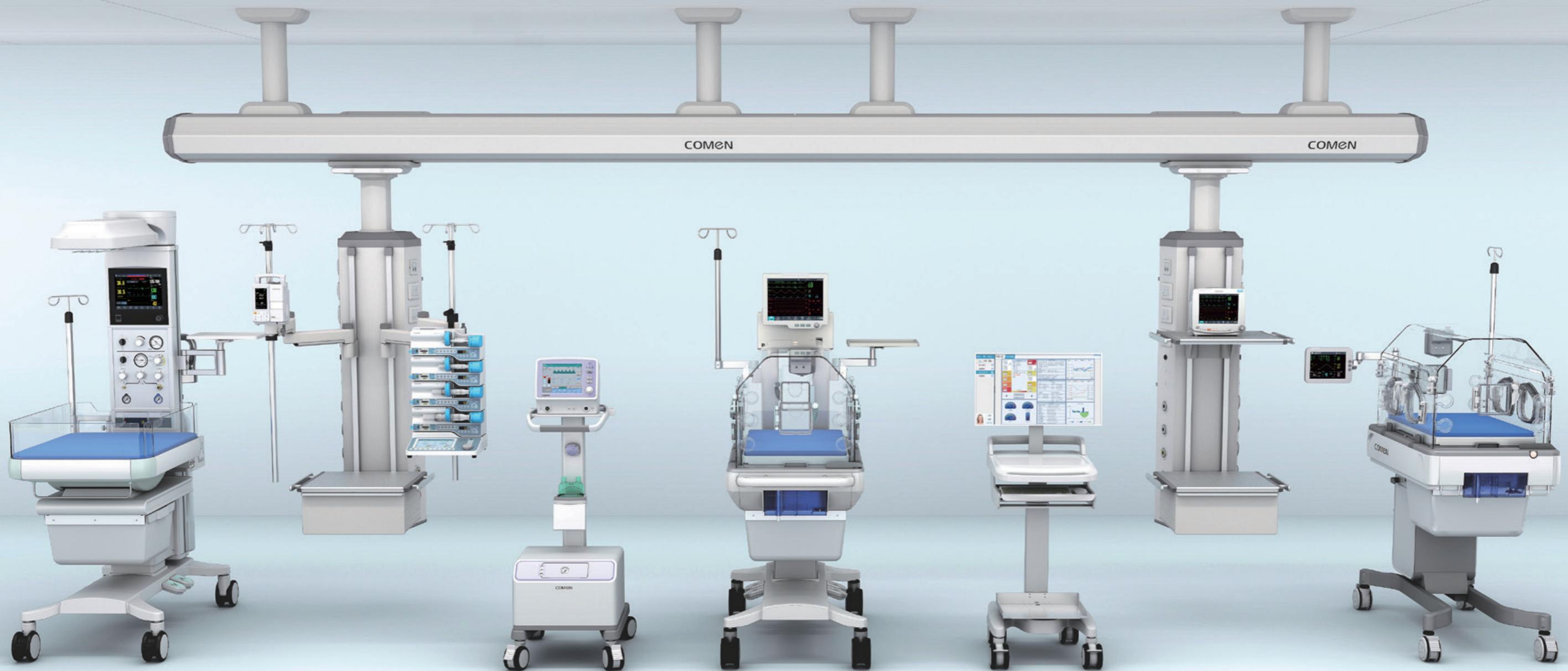


CM1200B Electrocardiograph

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





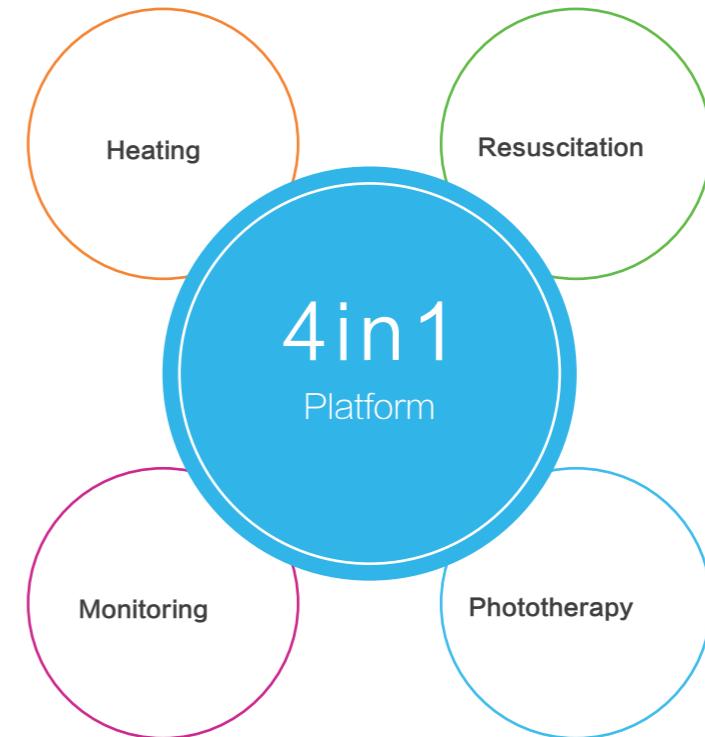
Comprehensive NICU Solution



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 radition 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.



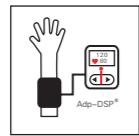
B8/B6 Neonatal Incubator

Specialized Neonatal Monitoring System

Specialized Neonatal Monitoring System customized for NICU by COMEN, including ExNeo® ECG technology, Adap-DSP® self-adapt NIBP technology, Masimo SPO₂, 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®



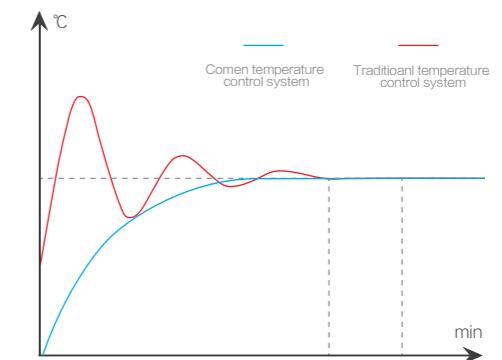
Masimo SET



Apnea self-saving



B3 Neonatal Incubator



Constant temperature figure

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



Humidity control technology

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

NV8 Neonatal Ventilator

The Epitome of Neonatal Non-invasive Ventilation

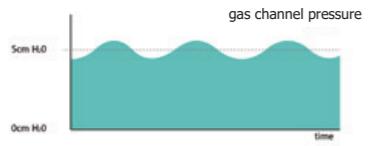
- NCPAP+apnea wakeup function
- SNIPPV+backup ventilation
- One button for fast oxygen ventilation
- NIPPV
- HFNC+pressure monitoring function
- Manual ventilation

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



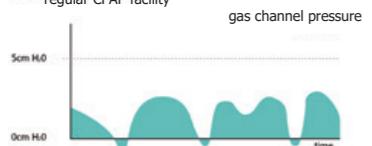
iFlow Intelligent Closed-loop Control System

NV8 system



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

regular CPAP facility



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.

O₂ Concentration Control System

Fast and easy FiO₂ setting : adopt electronic control of air-oxygen blending to directly set FiO₂, more precise and accurate.

Accurate O₂ concentration monitoring : CITY O₂ concentration sensor, short react time and instant monitoring.

One key calibration : one key to calibrate the O₂ 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 O₂ 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

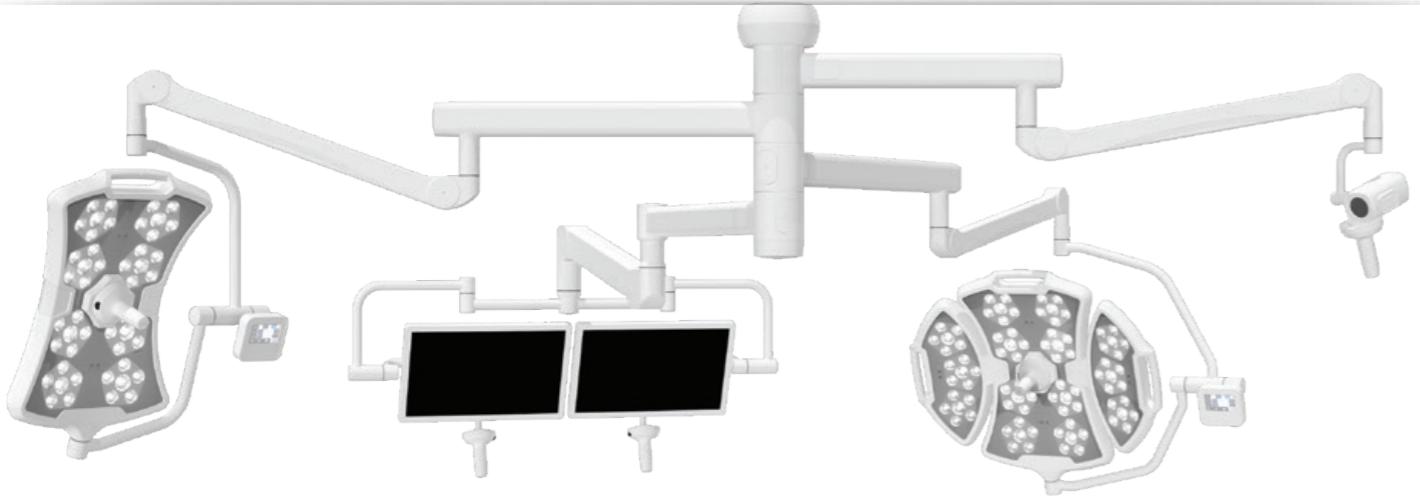


AX-600
Anesthesia Machine

AGSS - L
Anaesthesia Gas Scavenging system

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





L6 LED Surgical Light

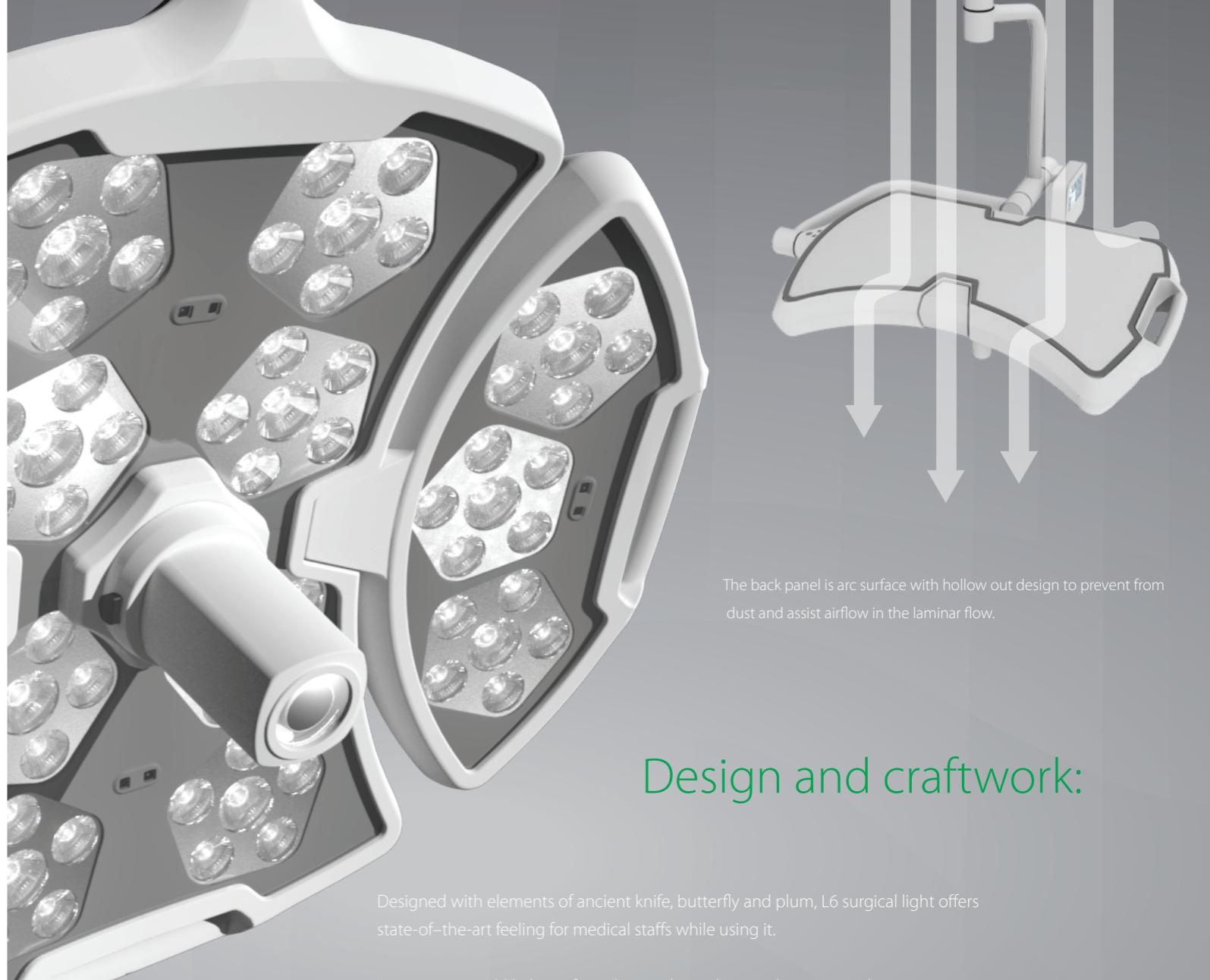
Mixed light function: Mixed with multicolor spectrum, L6 surgical light guarantees a perfect visualization on the surface as well as in deep cavities with very pure white light.

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



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.

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



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



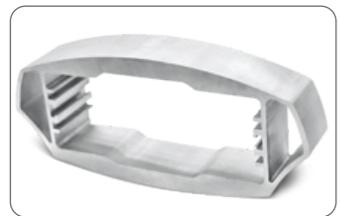
D8 Ceiling Pendant



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/mm²**;
- Yield strength is **234N/mm²**;
- 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 structure while designing 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.

Syringe Pump



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.



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.



Foldable clip

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



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