Product Catalogue

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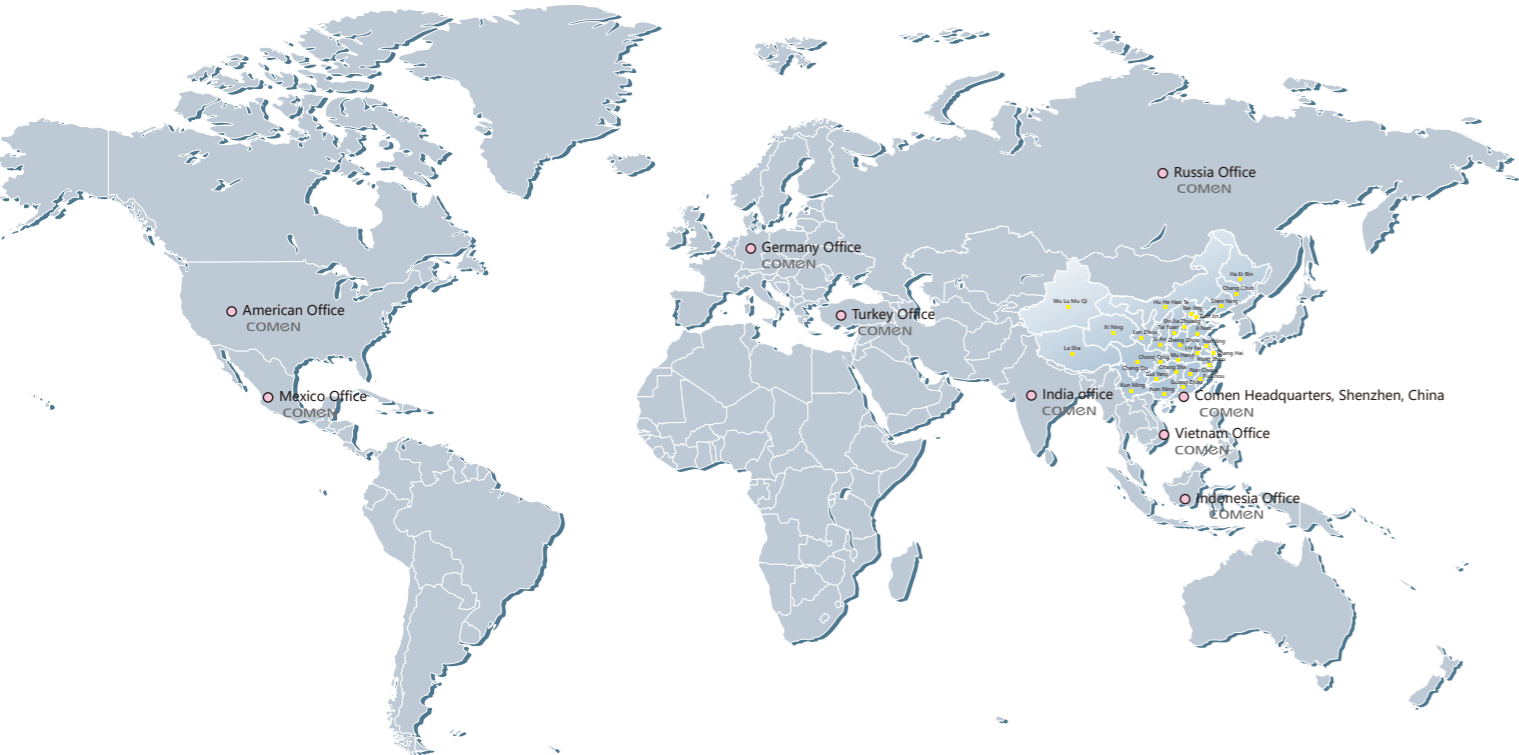
Vietnam Office
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End Users Focus

Monitoring Products Initiated by
"Specialized Products, Specific Usage"

Comprehensive NICU Solution

Comprehensive OR/ICU Solution

COMEN

Contents

Monitoring Products Initiated by "Specialized Products, Specific Usage"

C20 Specialized Fetal & Maternal Monitor   C60 Specialized Neonatal Monitor   U8 Catheter-positioning Guiding System   C30 Multi-parameter Patient Monitor

C100 Specialized Cardiovascular Monitor

≥   Modular Monitor + ECG

1 First-aid on the spot

2 Transfer patients to the hospital

3 Transfer patients in the hospital

4 Monitoring in emergency department

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,
CO_2 / 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.

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
stuff 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
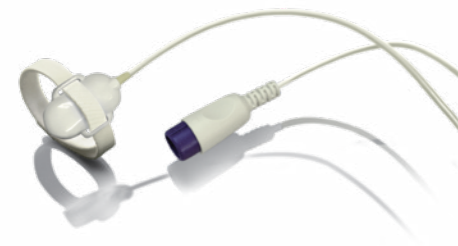- Compatible with COMEN central monitoring system

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 maintainance management. C70's single-module and multi-module can combinate at meeting the upgrade which clinical needs. C70 create a new era in modular monitor field.
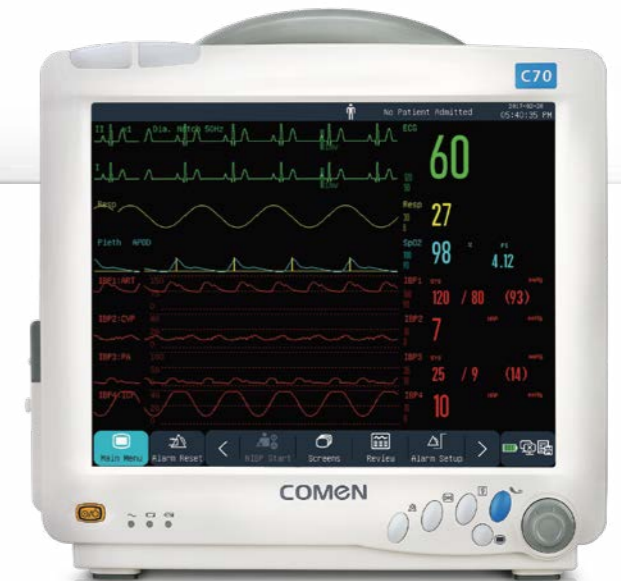
Functional module slot

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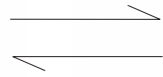
IBP

CO$_2$

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.

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 telemetrys 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 ambiant 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
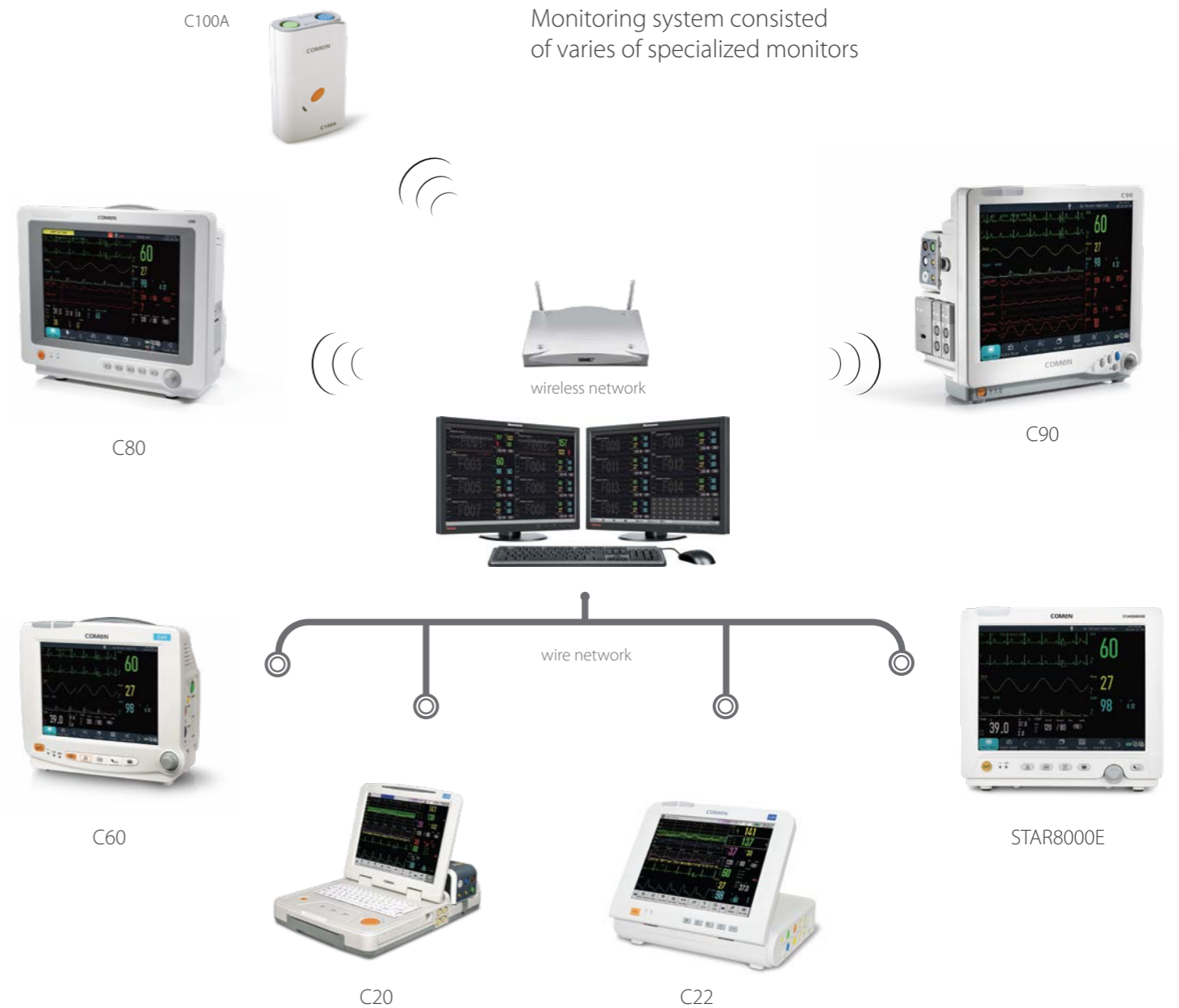- Independent striking NIBP shortcut key, easy to use

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

C100A

C80

wireless network

C90

wire network

C60

C20

C22

STAR8000E

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

C21

Specialized Fetal 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
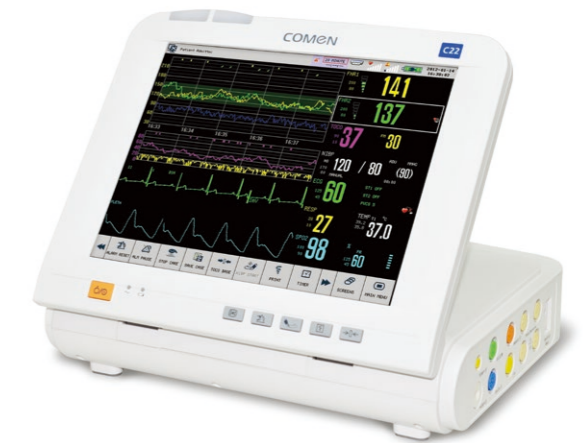
STAR5000E

Fetal 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

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

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 .

CM1200A
Electrocardiograph

Features:

- 8.4 inch LED touch screen
- Alphanumeric keyboard and hidden handle
- Lead status display
- Manual/ Auto/ Rhythm working modes selectable
- Support 4 hours working time
- 300 ECG internal memory
- 210mm, 216mm roll and Z-folded paper for options
- Net-grid on screen for easier observation

H3 Electrocardiograph

- 6.2″ LCD touch screen
- Screen brightness auto– adjustment with ambiant 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

U8

Catheter-positioning Guiding System

the Most Comprehensive
CVAD solution
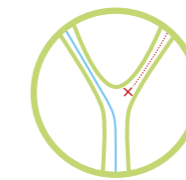with Ultrasound and ECG
positioning

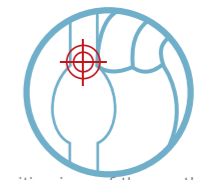## CVAD operating platform integrating ultrasound and ECG positioning

CVAD (central vascular access device) is a catheterization technique in which a catheter is inserted through a peripheral vein and the tip of the catheter is placed in the SVC (superior vena cava) or IVC (inferior vena cava). It includes PICC (peripherally inserted central catheter) and CVC (central venous catheterization) PORT.
It is mainly used for measuring CVP (central venous pressure), chemotherapy, parenteral nutrition pathway, and administration of high-risk medication (hypertonic, high-acidic and high-alkaline).
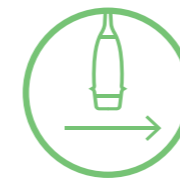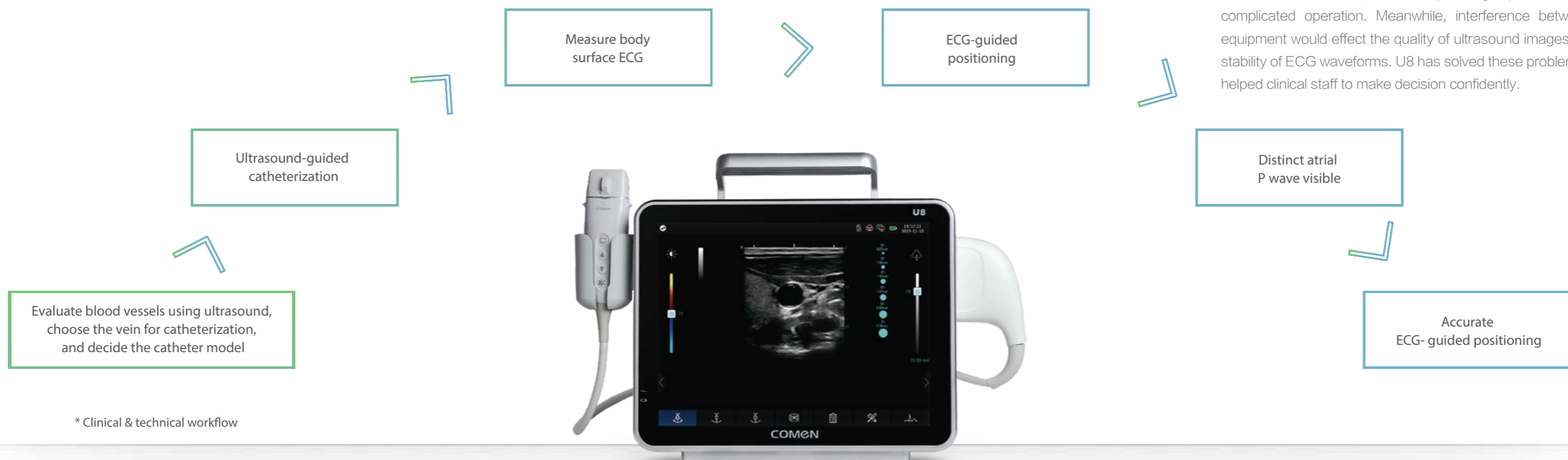
Vessel localization and evaluation   Diagnosis of the ectopic catheter   The positioning of the catheter end

In response to the above problems, Comen U8 proposes a CVAD puncture solution.

CVAD Solution

Measure body
surface ECG

ECG-guided
positioning

Traditional CVAD puncture and catheterization requires requires to use various devices, which occupies large space and involves complicated operation. Meanwhile, interference between the equipment would effect the quality of ultrasound images and the stability of ECG waveforms. U8 has solved these problems and helped clinical staff to make decision confidently.

Ultrasound-guided
catheterization

Distinct atrial
P wave visible

Evaluate blood vessels using ultrasound,
choose the vein for catheterization,
and decide the catheter model

Accurate
ECG- guided positioning

* Clinical & technical workflow

SCD600

Sequential Compression System

For preventing DVT and PE

Light and Comfortable

Flexible and efficient workflow, SCD600 features a light body and unique clip design for handy and intuitive control experience. All of this allows for greater flexibility and comfort for both clinicians and patients.
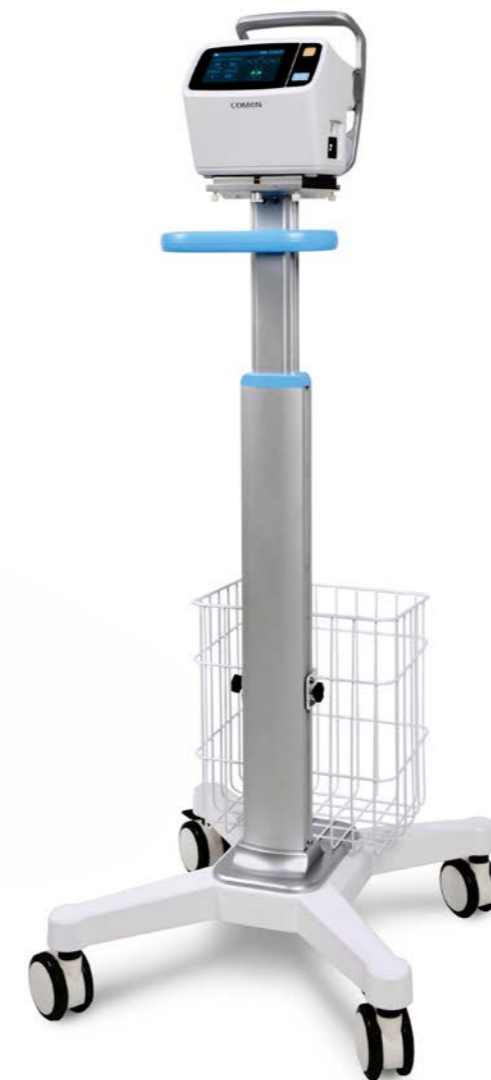
Powerful and intelligent

Focus on patients, providing personalized treatment. And with intelligent compression, dynamic and visualized treatment.

Accurate and reliable

Medical- grade dual pressure sensor features real-time pressure collection and provides double overpressure protection to ensure patient safety.
The Dual CPU processor gives real-time monitoring of the entire treatment process to ensure safe and reliable treatment.

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

Resuscitation

4 in 1
Platform

Monitoring

Phototherapy

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 SpO_2, Apnea self-saving technology, and oxygen servo control 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 ECG®

Adap-DSP®

Masimo SET
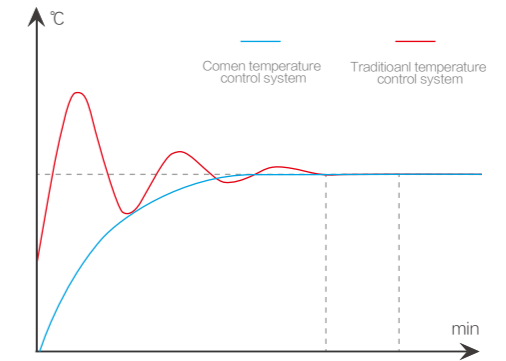

Apnea self-saving

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, B6/B8 double guarantee the control of temperature through 7 channels of detection.
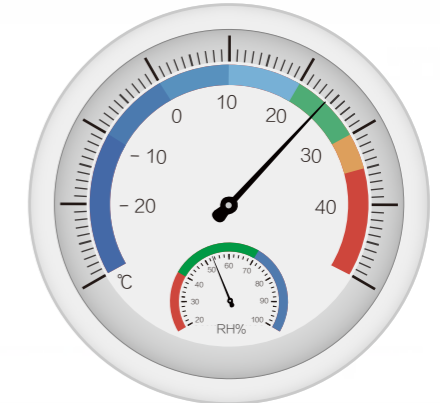
3 independent over temperature protection

Constant temperature figure

Humidity control technology

Thanks to PWM control technology and advanced humidity generator, COMEN infant incubator provides a fast humidified speed which could creat a womb-like environment in a short period of time
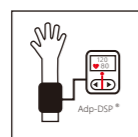

B3 Neonatal Incubator

BC-107/108   Infant Bassinet

BL70   Infant Phototherapy Equipment

High-intensity irradiance

- Equipped with high-intensity LED cold light source, with less heat production, BL70 supports long-time treatment.
- With the maximal irradiance level of $63 \mu W/cm^2/nm$, BL70 enhances the bilirubin breakdown ability and shortens the treatment time.
- With five levels irradiance adjustment, BL70 allows treatment tailored to each patient's need.

Precise Treatment for Neonatal Jaundice

Equipped with an irradiance probe to accurately measure the irradiance value and ensures that the baby receives enough irradiance, achieving precise treatment.

Irradiance probe

After clarification using irradiance probe, phototherapy irradiance value of 5 levels can be displayed on the screen.

Precise positioning

Using unique red light precise positioning, BL70 ensures correct position of the baby.

Ward round assistance

When doctor doing ward checking, it is unnecessary to take off the cover, and check neonates condition through the screen in real time.

Focus on Therapy, Applicable to Various Settings

- **Ultra compact** ---- Lightweight and portable, less space usage.
- **Large screen** ---- 4.3-inch color touch screen, easy to observe and operate.
- **Ultra quiet** ---- Fanless design, noise free, ensuring a quiet and comfort environment.
- **Various mounting solutions** ---- Convenient to move, seamless integration of different settings, including radiant warmer and baby cradle bed.
- **Quick-release structure** ---- The main unit can be quickly separated from the trolley and placed directly on the incubator hood.
- **Flexible adjustment** ---- Easy adjustment of height and angle.

BQ70

T-piece Infant Resuscitation System

The T-piece Infant Resuscitation System is designed to establish a clear airway, delivering oxygen or air/oxygen mixtures equired by resuscitation of infants.

3 functions into 1

Full integration of suction, resuscitation and O_2 therapy, meeting the latest NRP guidelines (Neonatal Resuscitation Program). It simplifies the operation by making set-up easy and care area space-saving.

Movability within reach

Bringing life-saving capacity to anywhere within hospital by virtue of its light weight and handle design. A trolley is supported to enhace the portability.

Integrity

Flexibility
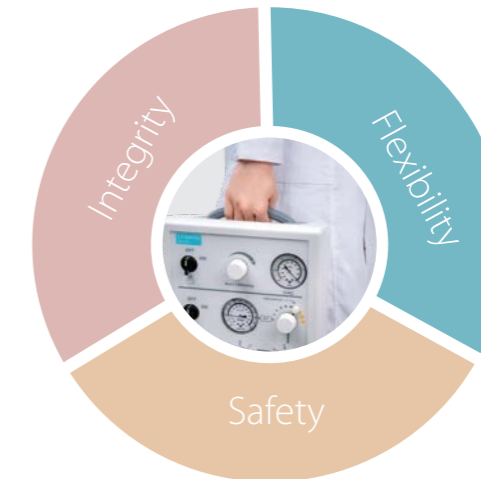
Safety

Pressure relief valve at the gas inlet

Pressure reducer

4-channel pressure control

Reliable internal mechanical design, reducing the possibility of overpressure

Membrane safety valve 1

Membrane safety valve 2

Easy Operation

Vaccum switch

Safety stop for pressure protection

Pressure monitoring

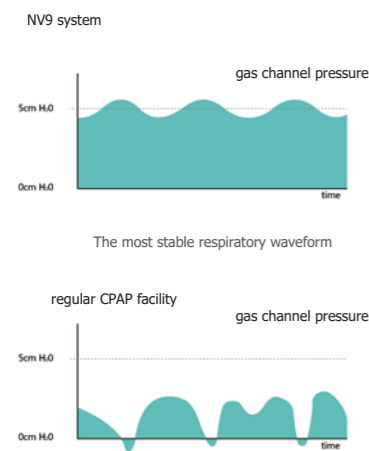T-piece operating switch

Built-in O2/Air blender

NV9 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

NV9 system

gas channel pressure

5cm H₂O

0cm H₂O

time

The most stable respiratory waveform

regular CPAP facility

gas channel pressure

5cm H₂O

0cm H₂O

time

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

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

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.

SpO₂ Monitoring : NV9 is configured with Masimo/Nellcor SpO₂. The effect of non-invasive ventilation is judged by the changes of SpO₂.

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.
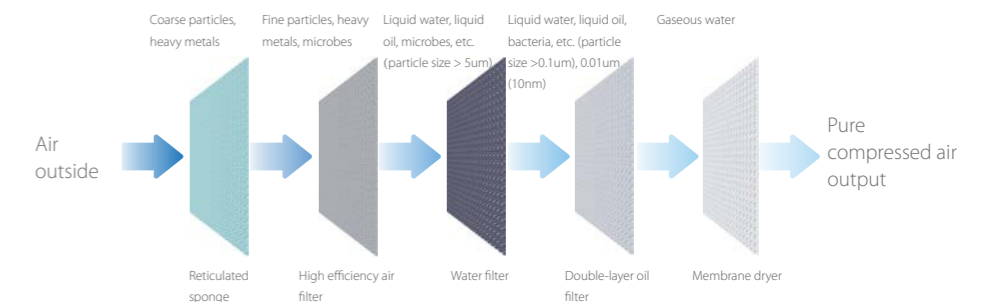
NV6

Neonatal Ventilator

Bubble CPAP not only provides CPAP ventilation therapy, but also it is 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 theraphy, NV6 is easier to use and able to aviod damage to the patients.

VS-20

Pure And Ultra-quiet

VS-20 applies high-effective filtering technology to provide pure compressed air.

Coarse particles, heavy metals

Fine particles, heavy metals, microbes

Liquid water, liquid oil, microbes, etc. (particle size > 5um)

Liquid water, liquid oil, bacteria, etc. (particle size >0.1um), 0.01um (10nm)

Gaseous water

Air outside

Pure compressed air output

Reticulated sponge

High efficiency air filter

Water filter

Double-layer oil filter

Membrane dryer

Comprehensive OR/ICU Solution

S8

S5

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.

1 knob

Mode can be switched among manual defibrillation, pacing and AED. In manual defibrillation, the user can complete the energy selection within 1 second.

1 pair

Defibrillating operation can be completed on a pair of electrode paddles. Pediatric paddles built in adult paddles.

3s

Defibrillator charge to 200J and shock in 3 seconds, rescue time is guaranteed fully.

3 steps

Fulfill defibrillating operation (Energy selection – Charging – Discharging).

25 types

Energy selections.

V3 Ventilator

Extensive Respiratory Management

V3 has a comprehensive range of ventilation modes and special features that meet the requirements of intensive care respiratory therapy.

It fully supports the various treatment needs of ICU, PACU, RICU, EICU, PICU and other wards.

Ventilation modes:	Invasive ventilation mode	• V- A/C • V- SIMV • P- A/C • P- SIMV • CPAP/PSV	Non-invasive ventilation mode	• P- A/C • P- SIMV • CPAP/PSV • High flow oxygen therapy

Respiratory Respiration Assisting tools:	Assisted ventilation	• Manual breathing • Exhalation- hold • Inhalation- hold • Nebulizer • Oxygen enrichment (+O₂) • Sputum suction	Smart ventilation	• Compliance compensation • Leakage compensation • IntelliSynTec • Apnea ventilation mode

Monitoring function:	Waveform monitoring	• P- T waveform • F- T waveform • V- T waveform • Wavefrom chart • P- V loop • F- V loop • F- P loop • Wavefrom chart

Easy to Use

The V3 screen can be flipped freely to the best viewing angle For the most comfortable operating experience.

Patient type   Waveform measurement tool   Automatic alarm limit

Benefit from the intuitive UI design of V3, it only takes two steps to adjust ventilation parameters.
The functional layout is clinically applicable, and what you think is what you get.

NF5

High Flow Heated Respiratory Humidifier

Intra- hospital transport

- High performance turbine, no need for compressed air supply

- Integrated battery for transportation

- Light and compact medical trolley ease intra- hospital transport

Safe and comfortable

- Multi- position temp monitoring: NF5 is equipped with 3 temp sensors, which enable real-time temp monitoring, synchronized closed- loop feedback, joint high temp alarm, smart water level management and over- temp protection function to ensure safer heating.

- High- performance nasal cannula: ergonomic design, soft and comfortable, free of constriction.

- Ultra- quiet design: The ultra- quiet turbine significantly reduces noise, provides a quiet O_2 therapy environment, reduces irritability.
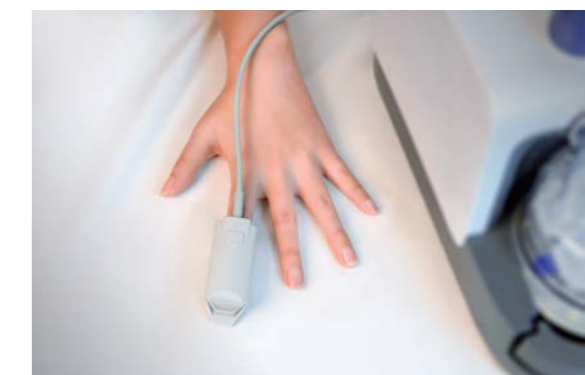
Simple and practical

- Ultra- Large touch screen: NF5 is equipped with a 4.3- inch touch screen, which allows easy and quick operation by touch and navigation knob.

- Electronic Air- O_2 mixer system: easy to set up flow rate and O_2 concentration.

- Intuitive UI design: large font, easy for caregiver to operate and observe.

SpO2 monitoring

- Optional Comen, Masimo or Nellcor SpO_2 monitoring function, real- time monitoring of the patient's O_2 concentration, ease evaluation of the effectiveness of high- flow O_2 therapy, so that doctors can optimize the treatment plan in real time.

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.

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

The minimum tidal volume down to 5ml under PCV mode

7% high accuracy ventilation

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.

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
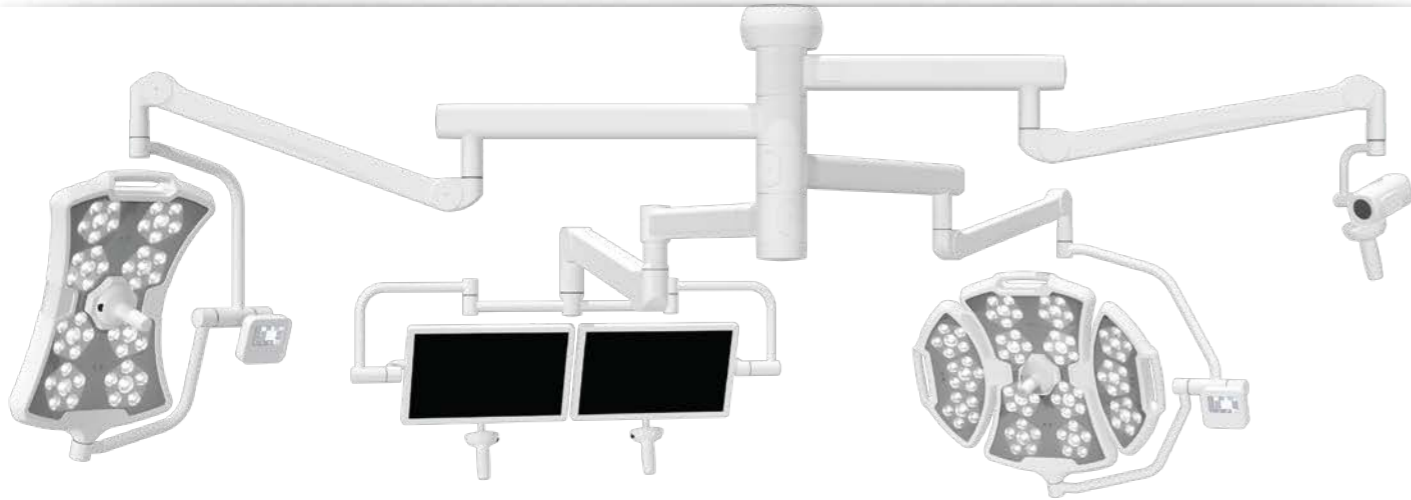
Unique Function

- **Illumination automatic adaptation technology**
  25cm up/down movement of the surgical lamp will no change the illumination under the specified illuminance

- **Illumination stabilization technology**
  L5 adopts DC dimming technology, that means it can protect the surgeon's eyes from the flickers of the traditional PWM dimming, what's more, it will no cause the waves during filming

- **Illumination capacity technology**
  Spot size will not change while the illuminance was changing, to make it more convenient for medical staff operation.

- **Customized configuration**
  L5 has 3 custom configurations, surgeons can customize the parameter setup of illumination, spot size, etc. according to the needs and preferences themselves

L3
Surgical Light

Powerful and Economical surgical light

- The Ra of L3 is up to 98, which provides you a truest color of surgical wound
- Lamp lifespan is up to 70,000 hours, more durable than ever
- Double endoscopy modes, green and white light optional, more comfortable for doctors' eyes

L5
Surgical Light

The new generation outstanding surgical light

Powerful independent working function

- Lamps' Lifespan up to 70,000 hours, , more durable than ever
- Central Illumination: 160,000 lux/120,000 lux, 3 modes meet various of surgery requirements
- Max. depth of Illumination : 1,300 mm
- Lower power consumption

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
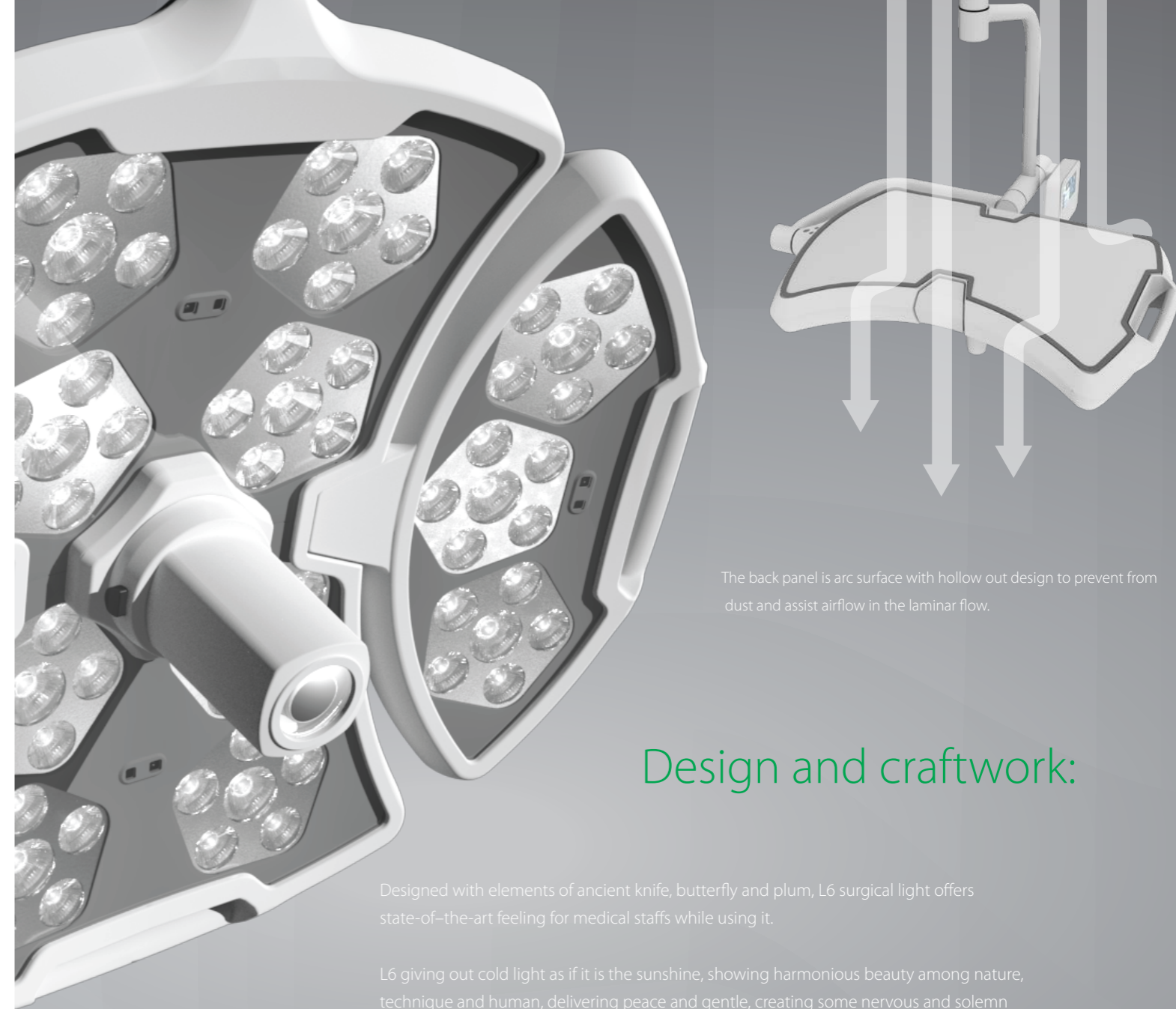
Center Luminance(lx)	Irradiance (mW/m2.lx)	Light depth	Shadowless rate
Color temperature (K)	Color rendering index (CRI) (Ra)	R9	

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

M6 Ceiling Pendant   M8 Ceiling Beam

Space utilization

Optimized space utilization: The frame-type box structure allows for significant space savings. As shown in the picture, space is still available at both sides of the operating table while ECMO, CRRT, ventilator, monitor and syringe pump are simultaneously loaded. The box does not occupy the prime nursing area (the two sides of the operating table where the patient's arms are placed), supporting critical care.

Modular design

- Expand the possibilities
- Support subsequent upgrades
- More convenient maintenance
- Independent functioning of modules, more reliable quality, avoiding interference between multiple functions
- On-site adjustment of terminal order and terminal position according to user habits
- Power and air supply separation:
  Real power and air supply separation design, the power and air supply are distributed in two different boxes with independent wiring, eliminating fire hazards from the root
- Lightweight design, making the pendant lighter; smooth pushing and pulling, stable braking

Load-bearing capacity

Scientific load-bearing capacity: a change from the tradition, the actual carrying capacity of the prototype is measured after the design is completed. Comen M series ceiling pendant uses an advanced FEM CAE system, to analyze the physical and mechanical properties of the product structure with the aid of discretization design, as well as to predict, evaluate and optimize the bearing capacity. At the same time, it is combined with the actual measurement of the prototype to verify each other.
This rigorous R&D system not only measures the basic performance of the new machine, but also simulates the load-bearing performance of the equipment after years of ageing. The quality and stability of the product throughout its life cycle is scientifically guaranteed.

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.

M500 6.2 inch Touch Screen
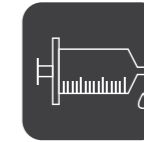
M300/500

Syringe Pump

M300 4.3 inch Touch Screen
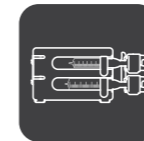
Professional & convenient

Extensive drug library

M500 provides a library of 2100 drugs and is customizable for new entries, giving medical personnel essential drug options for infusion records to ensure medication safety.

Continuous titration

The infusion parameters setting can be changed without stopping it.

Dual-channel cascade

The dual-channel design provides a relay mode that not only allows for simultaneous injection of multiple drugs, but also cascade administration of the same drug to achieve continuous drug infusion. The maximum continuous single infusion is 120 ml of drug solution.

Multiple working modes

Features rate mode, time mode, weight mode, interval mode, trapezia mode, sequence mode, micro mode, TIVA mode, loading dose mode and night mode, which meet a variety of clinical needs and matched well with other ICU equipment.
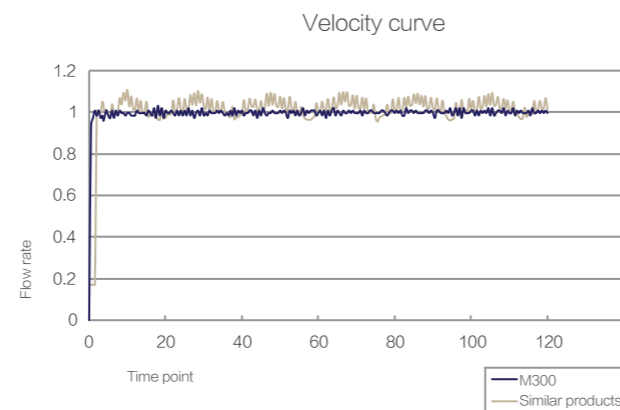
Multi-CPU monitoring High precision injection

CPU matrix

M300 adopts multiple CPUs to monitor each other and form a coordinated alarm system to ensure the safety of injection and prevent accidents.

High-performance motor

The high-performance stepper motor and transmission system allow the M300 to inject without generating pulse waves even at low speeds.

Velocity curve

(graph: y-axis "Flow rate" from 0 to 1.2; x-axis "Time point" from 0 to 120; legend: M300, Similar products)

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
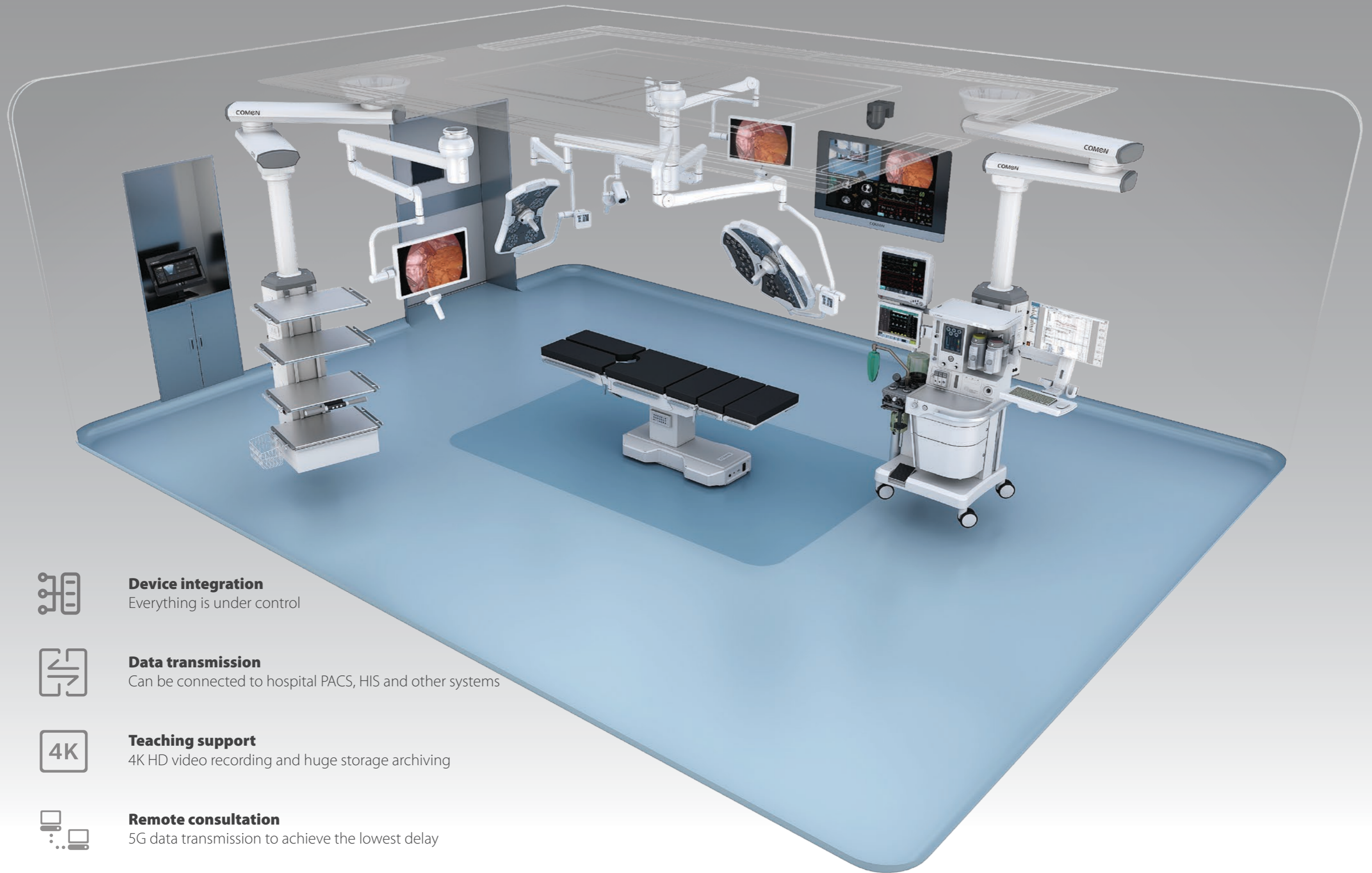
Device integration
Everything is under control

Data transmission
Can be connected to hospital PACS, HIS and other systems

4K
Teaching support
4K HD video recording and huge storage archiving

Remote consultation
5G data transmission to achieve the lowest delay