CMSS

CRITECHCARE MEDICAL SUPPLY AND SERVICES

PRODUCT CATALOGUE

COMPANY PROFILE

CRITECHCARE MEDICAL SUPPLY AND SERVICES was created to make a caring and supportive contribution towards the enhancement of quality healthcare extended to patients by means of providing good quality medical devices in hospital and homecare.

CRITECHCARE MEDICAL SUPPLY AND SERVICES is a corporation and currently managed by professional individuals with a focused and dedicated qualified and factory trained biomedical engineers and technicians on various test equipment and medical devices as well as completing the training course on ISO/IEC 17025:2005, following international standard guidelines to provide professional services on the medical field.

CRITECHCARE MEDICAL SUPPLY AND SERVICES deals on the services, preventive maintenance program and calibration of various medical devices recertification of various test devices.

MISSION STATEMENT:

CRITECHCARE MEDICAL SUPPLY AND SERVICES commits to establish and nurture our relationship with our customers, our partners and our patients. through strong relationship, a share passion for excellence, a culture of integrity and care, a strong commitment towards an improved quality of life and a deep sense of stewardship

VISION STATEMENT:

Enhance the economic vitality and the quality of our services and our people toward our customers and patients and providing them the best quality to attain the best customers and patients satisfaction.

COMPANY CAPABILITY

CALIBRATION AND TEST EQUIPMENT WITH CALIBRATION CERTIFICATE:

- ELECTRICAL SAFETY ANALYZER
- KVPmAs METER
- NIBP AND PATIENT SIMULATOR
- FETAL/MATERNAL SIMULATOR
- ESU ANALYZER
- DEFIBRILLATOR ANALYZER
- INFUSION PUMP AND SYRINGE PUMP ANALYZER
- TSI CERTIFIER FOR MECHANICAL VENTILATOR
- IBP VOLUME CALIBRATOR
- IBP ELECTRONIC PATIENT SIMULATOR
- OXYGEN ANALYZER FOR OXYGEN CONCENTRATOR
- DIGITAL PRESSURE METER
- DIGITAL MULTI-TESTER
- TEMPERATURE TESTER
- LUNG SIMULATOR

TECHNICAL SERVICES CAPABILITY:

- QUEUEING SYSTEM
- CORRECTIVE AND PREVENTIVE MAINTENANCE
- MEDICAL DEVICE ASSESSMENT AND REPAIR
- PERFORMANCE VERIFICATION TESTING
- MEDICAL DEVICE CALIBRATION AND CERTIFICATION
- CALIBRATION AND TESTING DEVICE RTECERTIFICATION
- HOMECARE TECHNICAL SUPPORT SERVICES
- MEDICAL EQUIPMENT INVENTORY PROGRAM

MEDICAL DEVICES

- MECHANICAL VENTILATOR
- ANESTHESIA MACHINE
- INTRA-AORTIC BALOON PUMP
- DEFIBRILLATOR
- ELECTRO SURGERY UNIT
- MULTI-PARAMETER MONITOR
- INFANT INCUBATORS
- CPAP/BIPAP DEVICES
- SYRINGE AND INFUSION PUMPS
- ECG MACHINE
- OXYGEN CONCENTRATORS (all USA brands)
- SUCTION AND PRESSURE PUMPS

TABLE OF CONTENTS

I. VENTILATORS
II. ANESTHESIA MACHINE
III. VITAL SIGN MONITOR
IV. OPERATING ROOM EQUIPMENT
V. OB/GYN EQUIPMENT
VI. X-RAY EQUIPMENT
VII. SUPPLIES/CONSUMABLES

CMSS
CRITECHCARE MEDICAL SUPPLY AND SERVICES

VENTILATOR

CRIUS V6

ELECTRICAL INTERFACE

Nurse Call, USB, NET, RS232, VGA

INTERFACE TYPE

Main patient outlet: ISO 22M/15F

Oxygen inlet: DISS or NIST male

DISPLAY

Display size: 15.6 in diagonal

Display Type: Active matrix color TFT LCD

Display resolution: SVGA resolution, 1366x768

CONTROLS

Fully electronic control

Ventilation type: Blower

Ventilation modes:

A/C-VCV, A/C-PCV, A/C-PRVC, SIMV-VC, SIMV-PC, SIMV-PRVC, BIPAP, APRV, CPAP,

CPAP-VG, NIV, IV.

Special functions:

Manual breath, 02 Therapy, standby, screen-lock, inspiratory hold, expiratory hold, sigh,

ATC, PCVR, PPS, Compliance, p0.1, calibrate, nebulizer, 02 suction

Patient types: Adult/Pediatric/Neonate

Patient height: Adjustable

MONITORING

Real Time waveforms:

Paw, Flow, Volume, EtC02, SPO2

Optional: CO2, SPO2 (related parameters)

Loops: P-V, V-Flow, Flow-P

Trends: 1s,5s,1min,10min,30min,60min

Tidal Volume: 5 to 2000ml

PEEP/CPAP: 0 to 30cmH20

Oxygen: 21 to 100%

I:E ratio: 1:10 to 4:1

Inspiratory Time: 0.2 to 5s

Flow Trigger: 0.2 to 15L/min

Pressure Trigger: -0.5 to -20cmH20

Pressure Control: 5 to 90 cmH20, added to PEEP/CPAP

Pressure Support: 0 to 90 cnH20, added to PEEP/CPAP

Pressure ramp: 0 to 2s

Expiratory trigger sensitivity (ETS):

OFF, 5 to 90 % of Inspiratory peak flow

Peak flow Spontaneous: > 210 L/min

ELECTRICAL and GAS SUPPLIES

Input voltage:

100 to 240V ~ ±10% 50/60 Hz AC or 24VDC±10%

Power Consumption: 50 W typical

Protection class: CLASS I

Backup Battery:

2 Batteries(5200mah each) / hot swappable

Oxygen Supply:

280 to 600 kPa (41 to 87psi), 120L/min

Low Pressure:

Oxygen ≤15 L/min, 600 hPa for low pressure

Alarms

Operator-adjustable

Low/High minute volume, low/high pressure, low/high tidal volume,

ow/high rate apnea time, low/high oxygen

Optional: low/high CO2, low/high SPO2

Special alarms:

Oxygen concentration, disconnection, low of PEEP, exhalation obstruction, flow sensor, power supply batteries, gas supply

Loudness Adjustable: 1 to 9pp

Event log: Storage and display of up to 10

00 events with date and time stamp

Physical Dimension

Weight: <45.3 kg

Dimensions (WxHxD): Aprrox. 60x402x415mm

AR- 100C

Technical Specifications

Physical Specifications

Dimension: Width 300mm, Depth 160mm, Height 230mm, Weight 3Kg
Carrying Packages Dimension: Width 460mm, Depth 200mm, Height 400mm, Weight 7Kg
Packaging Dimension: Width 620mm, Depth 240mm, Height 410mm, Weight 11Kg

Storage/Shipping Requirements

Temperature: -20 to 70°C
Relative Humidity less than 93%
The atmosphere pressure: 70 to 106 kPa

Operating Requirements

Temperature: 5 to 40°C
Relative Humidity less than 80%
The atmosphere pressure: 70 to 106 kPa

Electrical Specifications

Input Voltage Requirements: AC Voltage 110V~240V; DC Voltage 12V
Inlet Battery: 12V, 2Ah (Can be used for 8 hours)
Frequency: 50Hz/60Hz
Power: 2A

Pneumatic Specifications

Pressurized Oxygen: 0.4MPa medical oxygen inlet or use 2L oxygen cylinder (Choice of suppliers)

Performance Specifications

Power: ON/OFF
Modes: CMV(IPPV), A/C(SIPPV), SIMV, SPONT, PEEP (Choice of suppliers)
Tidal Volume: 50~1200ml
Breath Rate: 5~60 bpm
PEEP: 0~2kPa
O2%: 45~90%
Sigh: 1~10 per 100 breath
Peep: 10-60hpa (Choice of suppliers)
Trigger Level: -10 ~ 0hpa
Over Pressure Relief: <6kpa

Alarms and Indicators

High Pressure Alarm Limit: 2~6kpa flash, red indicator
Low Pressure Alarm Limit: 0. 2~2kpa Red indicator
Alarm Silence: 120sec

Standard Accessories

Ventilator	1unit
Breath Circuit	1pcs (1.2m)
Breath Value	1pcs
Mask	1pcs
Charger	1pcs
Battery	1pcs (can be used for 8 hours)
Wrench	1pcs
Oxygen Pressure Reducer	1pcs (for Normal Oxygen Cylinder)
Lung Simulators	1pcs
Hand Book	1pcs
CD For Operation	1pcs

CMSS
CRITECHCARE MEDICAL SUPPLY AND SERVICES

ANESTHESIA MACHINE

ATLAS N5

FEATURES:

12.1” TFT Touch Screen

User Friendly design interface

Tidal Volume 10-1500 ml

Electronic Flowmeter

PPSU/Metallic material breathing circuit

By-pass Tech for soda lime canister

All ventilation modes to satisfy neonate, pediatric and adult patients.

Integrated breathing circuit with build in heater

High Visible ACGO

Optional plug-in module socket

EXELLENT C02 ABSORBER

One hand operation designed C02 absorber.

By-pass design ensures savely to renew it during operation.

Canister on-line detector

Autoclavable PPSU material (up to 134C)

LARGE WORKBENCH

Two sided guide rails for patient monitor,

Support arm and injection bump

Stainless steel material can stand any chemical sterilazation agent

LED lights equipped to provide lighting for the workbench.

PEDIATRICS APPLICABLE BREATHING CIRCUIT

Autoclavable Metallic and PPSU material

Featured with stable pressuretightness

Built in heater

Breathing system with upward or downward bellows.

SUPERIOR VENTILATOR

Fresh gas, compliance, and leakage compensation

VCV, PCV, PSV, SIMV, ACGO, Manual ventilation modes

Alarms of incorrect installation of breathing system and soda lime canister

Dimension	Height (With Casters)	130cm ± 1cm
	Width	90cm ± 1cm
	Depth	71cm ± 1cm
	Safe shelf loading	25kg ± 0.5kg
Display	12 inch TFT LCD touch screen, 800x600 pixels	
Gas Supply	02, N20 AIR	
Selectatec bar	Dual positions	
ACGO	Standard	
Flowmeter	Electronic Flowmeter	
By-pass	Standard	
Ventilator Software	V-CMV, P-CMV, Standby, Manual/Spont Optional (PSV, V-SIMV,P-SIMV)	
Spirometry Loop	P-V, P-F, F-V, reference loop	
Spare Cylinder Yoke	Optional (02, N20)	
Li-On Battery	1 Battery, 4800mAh 2 Batteries, 9600mAh(optional)	
AGSS	Optional	
Waveform	Up to 3 Waveforms, user configurable	
Auxiliary power outlets	3	
Wheels	Four wheels (125mm) with 2 separate brakes	
Drawers	2	
Reading lamp	LED lighting included	
Gas monitor module	Optional (C02, AG)	
Heater	Standard	
O2 cell	Standard	
Vaporizer	Optional (Drager,Penlon,Northern)	
Patient Monitor	Optional	
Suction device	Optional	

CMSS
CRITECHCARE MEDICAL SUPPLY AND SERVICES

VITAL SIGN MONITOR

VENUS

CONFIGURATION

5-Lead ECG, SpO2, NIBP, TEMP, Resp,
PR; Touchscreen, HDMI, Li-On battery

OPTIONAL:

12-Lead ECG, Masimo/Nellcor SPO2,IBPM C.O
EtCO2, Multi-gas, BIS, NMT; Thermal Recorder,
Wired/Wireless CMS, 4G module

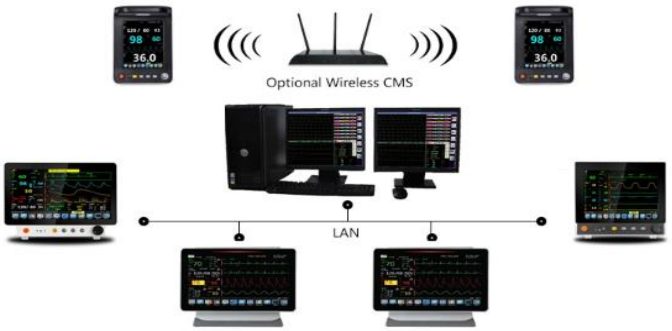
Easy access to view the historical data

Features

- 15.6” High resolution TFT LCD Touch Screen
- 13 waveform display, up to 12-Lead ECG analysis
- Powerful calculation (Hemodynamic, Dose, Oxygenation, Ventilation)
- MEWS (Modified Early Warning Score)
- Pacemaker detection
- ST & arrhythmia analysis (26 types)
- SpO2 support PVI and PI, low perfusion 0.2%
- Night mode, standby mode, venipicture mode
- Trolley/wall mount bracket solutions
- Support BIS module, NMT module
- Wired/Wireless/4G connection, support HL7 protocol to HIS
- SpO2 pulse-tone modulation (Pitch Tone)
- VGA/HDMI support external display
- Graphical & tabular trend review
- Rechargeable Lithium-ion Battery
- 72 hours full disclosure wave review for each patient

Central Monitoring System

Up to 64 beds
Net work is compatible to wired or wireless CMS
Auto adaptable to different screen resolution



VIRGO

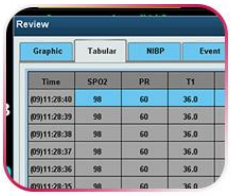
CONFIGURATION

5-Lead ECG, SpO2, NIBP, TEMP, Resp, PR; Touchscreen, HDMI, Li-On battery

OPTIONAL:

Masimo SpO2, Suntech NIBP, IBP, CO2, Thermal recorder, Touch Screen, CMS

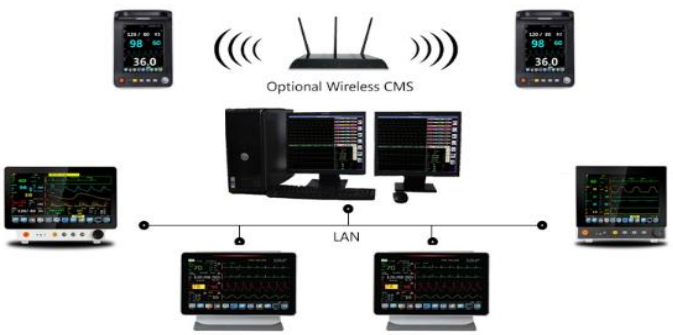
7-lead ECG



Graphical & Tabular Trend

Features

- 12.1” color TFT LCD screen (touchscreen is optional)
- 8 waveform display, up to 12-lead ECG analysis
- Powerful calculation (Hemodynamic, DOSE, Oxygenation, Ventilation)
- Pacemaker detection
- ST & arrhythmia analysis (17types)
- SpO2 support PI, low perfusion 0.2%
- Night mode, standby mode, venipicture mode
- Various mounting solutions
- Wired/Wireless CMS, support HL7 protocol to HIS
- SpO2 pulse tone modulation (Pitch Tone)
- MEWS (Modified Early Warning Score)
- Graphical & tabular trend review (240 hours), USB data output
- Rechargeable Lithium Ion Battery
- 48 Hours full disclosure waveforms review & print for each patient



Central Monitoring System

Up to 64 beds

AQUARIUS

For Out-Patient Department, Spot-Check, Transport, Ward, and other basic monitoring

CONFIGURATION	OPTIONAL
SpO2 + NIBP, Li-ion battery	Masimo/Nellcor SpO2, Quick Temp, Barcode scanner, wired/wireless CMS
SpO2 + NIBP+ECG+TEMP, Li-ion battery	Masimo/Nellcor SpO2, EtCO2, Quick Temp, Barcode scanner, Thermal Recorder, wired/wireless CMS

Easy access to view the historical data

Features

- 8.4” color TFT LCD Screen (Touch screen optional)
- Portable, Lighter weight and sturdy design
- MEWS (Modified Early Warning Score)
- Calculations: Hemodynamics/Dose calculation
- Rechargeable Li-ion Battery (up to 15 hours uninterruptable work
- Spot-check and continuous monitoring mode
- Suitable for Adult, Pediatric and Neonatal
- Wired/WIFI/3G/4G CMS, support HL7 protocol to HIS
- Barcode scanner, Infrared ear/Forehead thermometer
- Night mode selectable, reduce light stimulation and noise
- Graphical & tabular trend review (240 hours)
- 48H full disclosure wave review for each patient

ECG -C12B

12 Channel ECG Machine with Color Screen

Introduction

The ECG-C12B is an advanced and reliable ECG machine helping clinicians make fast and accurate ECG diagnosis. It is configured with color screen, alphanumeric keyboard, high accuracy thermal printing system and big capacity battery power supply, with multi working modes and rich menu setting to improve using experiences. This machine can analyze over 200 kinds of abnormal ECG. It can be widely used in various medical institutions or occasions.

Product Features

Sampling and Interpretation

- Acquisition and record standard 12 lead ECG simultaneously (I, II, III, aVR, aVL, aVF, V1, V2, V3, V4, V5, V6).
- High accuracy AC filter, EMG filter and base line anti-drift filter. Automatic base line adjustment.
- Accurate pulse pace identification function.
- Excellent auto-interpretation function can identify and analyze over 200 kinds of abnormal ECG. (Analysis data base: Minnesota Code).

Record

- 8 dots, high resolution thermal printing.
- Four working modes: Auto, Manual, Rhythm, Exam. to meet different clinical requirements.
- Recording format: 6chx2+R, 6chx2+3R, 9chx1, 12chx1
- Printing paper size: 210mmx30m, roll paper. (Thermal paper without grid is also available.)

Patient Information and File Management

- With alphanumeric keyboard, very easy to input and edit patient information.
- Can record detailed patient information, including name, ID, age, gender, nation, medical card number and hospital name.
- Can store, replay and edit 400 ECG cases with internal memory card.
- Patient ECG report can be transferred to external USB disk.

Display and Keypad

- 800x480 graphic, 7inch color LCD to display detailed ECG waveform and working status. (Display ECG waveform, patient information, sensitivity, paper speed, filter, date and time, heart rate, battery status, paper status and etc.)
- Soft silicon alphanumeric keyboard to operate and input information.
- One-key operation to support fast ECG examination.

Power Supply

- Rechargeable built-in Li-ion battery, 2200mAh, 14.4V, support to continuously work about 9 hours or 18 hours.
- Fast charging design, about 2.5 or 4.5 hours to charge full.
- Adapt for power supply of 110-230V, 50/60Hz.

Physical Design

- Compact and ergonomic design, easy to carry and operate.
- Small size and light weight, very convenient for mobile diagnostics.
- Measurement: 347mmx293mmx83mm, 4.8kgs.

Communication

- With UART and USB communication port.
- Support transferring ECG files to external USB disk. Uses can manage the ECG files in computer.
- Support connecting to bar-cold scanner to scan patient code.

Technical Specifications

PARAMETER	SPECIFICATION
Lead	Standard 12 leads
Lead acquisition	Synchronously 12 leads acquisition
Work mode	Manual / Auto / Rhythm / Eaxm.
Filter	AC Filter: 50Hz / 60Hz EMG Filter: 25Hz / 45Hz Anti-Drift Filter: 0.15Hz (Adaptive)
CMMR	≥120dB (with AC filter)
Input circuit	Floating; Protection circuit against defibrillator effect
Input Impedance	≥50MΩ
Input circuit current	≤0.05μA
Patient current leakage	＜10μA
Calibrating voltage	1mV±2%
Voltage tolerance	≥±500mV
Time constant	≥3.2s
Frequency response	0.05～160Hz(-3db)
Noise level	＜15μVp-p
Inter-channel Interference	≤0.5mm
Sensitivity	5, 10, 20, 40, Auto (mm/mV)
Recording mode	6chx2+R, 6chx2+3R, 9chx1, 12chx1
Paper speed	12.5, 25, 50mm/s (+/-3%)
Recording paper	210mmx30m high resolution thermal roll paper
Display	7inch color LCD
Internal memory	400 patient cases storage
Communication port	USB, UART
Power Supply	AC 75-265V (±10%), 50/60Hz, 60VA DC Rechargeable Li-ion battery,14.4V, 2200mAh or 4400mAh
Dimension/Weight	347mmx293mmx83mm, 4.8kgs.

ECG C12B

DEF-7000

Defibrillator Monitor (AED and Manual)

Technical specifications

Display

Display Type: 8 inches High-resolution LCD display.
Sweep Speed: 25mm/sec.
Information: Heart Rate, Lead/Pads, Alarm On/Off, Sp02, AED Functions and Prompts, Alarm Selection and Limits, Delivered Energy.

Defibrillator

Waveform: Biphasic
Charge Time: Less than 7 seconds with a new fully charged battery.
Energy Display: Monitor display indicates both selected and delivered energy.
Charge Prompt Type: Voice and visual prompts.
Electrode Impedance Measurement Range: 0-250 ohms.

AED Mode

AED Function: Auto analyzes and charges x3 with programmable auto energy level selection, screen prompts, and voice prompts.
Shockable Rhythms: Ventricular fibrillation with amplitude≥200UV, Ventricular tachycardia with rates≥ 140bpm, and QRS complex wave duration≥140ms.
Charge Control: Control on device front panel, press key on paddle.
Prompts: Voice and visual prompts.

Manual Mode

Energy Selection: Selectable at 2, 5, 7, 10, 20, 30, 50, 70, 100, 150, 200, 300, 360 Joules.
Synchronized Mode: Synchronizes defibrillator pulse to patient's R-wave. "SYNC" message displayed on monitor.

ECG Monitoring

Patient Connection: 5-lead ECG cable, or 3-lead ECG cable, paddles.
Lead Selection: Displayed on monitor, paddles, l, II, III, AVR, AVL, AVF, V.
ECG Size: 0.25, 0.5, 1, 1.5, 2, 4 cm/mV display on monitor.
Heart Rate: 20-300BPM.
Heart Rate Alarm: On/Off displayed on monitor, user-selectable.
Smart Alarms: Beeper/Voice prompts indicate shockable rhythm.

SpO2 Module

Measurement Range: 30-100%, +2% between 80%-90%, others + 5%
Alarm Range: User set high limit and low limit
Alarm Accuracy: +10% within setting values
Alarm Time Accuracy: Less than 12 sec

Recorder

Paper: 50mm thermal.
Speed: 12.5mm/sec, 25mm/sec, 50mm/sec. User-selectable 6-second delay.
Printing Method: High-resolution, thermal array print head.
Print-out Modes: Manual or automatic, user-configurable.
On/Off Control: Front panel and paddle.
Automatic Function: 9-second recording initiated by alarm activation or defibrillator charge or defibrillator discharge.

Battery

Type: Rechargeable, Ni-MH battery, 12V.
Operating Time: For a new, fully charged battery: 60 defibrillator discharges at maximum energy, or 3 hours minimum of continuous ECG monitoring.
Additional parameters will affect operating time with different functions.

DEF-7000 TECHNICAL SPECIFICATION

Option 1

Specification	Pacer (Optional)
Type	VVI
Pulse Type	Rectangular, constant current
Pulse Amplitude	0 to 180 mA±10% or 5 mA (whichever is greater)
Pacing Rate	Variable from 30ppm to 180ppm±1.5% (increments or decrements by a value of 2ppm)
Multi-Function Electrode (MFE) Pads	Multipurpose defibrillator/pacing electrodes
Pause	Pacing pulse frequency reduced by a factor of 4 when activated
Refractory Period	NC (VVI demand do not have this specification)
Pulse Width	(20+1.5ms)
Output Protection	Fully defibrillator protected and isolated

Option 2

Specification	EtCO2 (Optional)
Type of sensor	By-pass
Technical principle	Non-dispersive infrared gas analysis NDIR
Storage condition	-40℃ to 70℃, <90℃ RH, non-condensing
Operating conditions	5℃ to 50℃, 10 to 90℃ RH, non-condensing
Ambient pressure	55-115kPa
Power supply	5V±5% (max ripple 200mVp-p)
TDP	Typical value 120mA Excursion calibration typical value 280mA
Range	0-19.7% (0-150mmHg, or 0-20Kpa)
Resolution	0.1mmHg
Accuracy	0-40mmHg±2mmHg 41-70mmHg±5% of reading 71-100mmHg±8% of reading 101-150mmHg±10% of reading
Respiratory rate	2-150BPM
Respiratory rate measurement accuracy	1%±1BPM

Option 3

Specification	NIBP (Optional)
Measurement unit	mmHg/kPa
Measurement Range	Adult: 10~200mmHg/kPa Pediatric: 10~200mmHg/kPa Neonatal: 10~135mmHg/kPa
Resolution	1mmHg
Accuracy	Maximum mean error: 5mmHg Maximum standard deviation: 8mmHg
Type of sensor	By-pass
Technical principle	Non-dispersive infrared gas analysis NDIR
Storage condition	-40℃ to 70℃, <90% RH, non-condensing
Operating conditions	5℃ to 50℃, 10 to 90% RH, non-condensing
Ambient pressure	55-115kPa
Power supply	5V±5% (max ripple 200mVp-p)
TDP	Typical value 120mA Excursion calibration typical value 280mA
Range	0-19.7% (0-150mmHg, or 0-20kPa)
Resolution	0.1mmHg
Accuracy	0-40mmHg±2mmHg 41-70mmHg±5% of reading 71-100mmHg±8% of reading 101-150mmHg±10% of reading
Respiratory rate	2-150BPM
Respiratory rate measurement accuracy	1%±1BPM

COMEN

CMSS
CRITECHCARE MEDICAL SUPPLY AND SERVICES

S8

Defibrillator Monitor

The most convenient and effective lifesaving

As the most important part of CPR, time is of the essence with the defibrillator monitor. Therefore, the S8 forgoes complex operations to improve the convenience and efficiency of rescue.

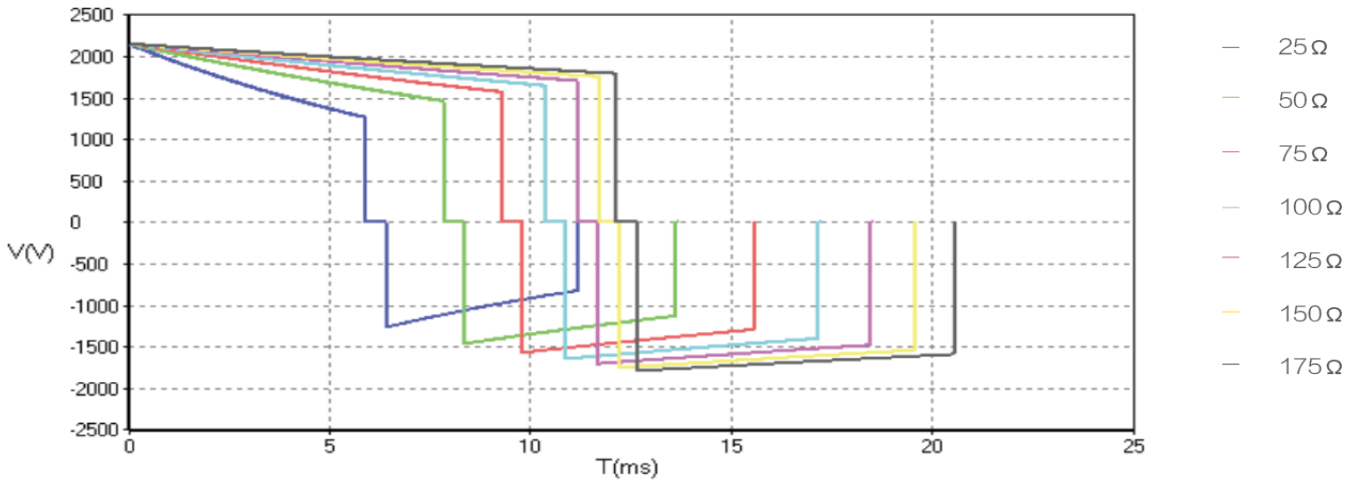
- **1 knob** to switch modes between manual defibrillation, pacing and AED.
- **25 types** of energy selection.
- **1s** can complete the energy selection, fully guaranteeing rescue time.
- **3 steps** to complete the defibrillation operation (energy selection - charge - discharge).
- **1 button** to select the 12-lead monitoring interface.

2-in-1 electrode paddles can be divided into large and small electrode paddles for defibrillation of adults and children, respectively.

1 pair of electrode paddles for defibrillation operation.

Higher and Greater for Better Rescue

- Energy selection up to 360J. For patients with high defibrillation thresholds (for example, myocardial infarction, obesity, high impedance), higher energy selection indicates higher defibrillation success rates.
- Covers an impedance range from 20-250 Ω, suitable for various patients.
- Higher efficiency with advanced biphasic truncated exponential (BTE) waveform technology and automatic impedance compensation.



BTE

Lower energy　　Less damage　　Better defibrillation

Standby as needed, review as required

Reliable quality has always been the pursuit of COMEN R&D personnel. As first aid equipment, defibrillators are often used in extreme environments, so their reliability is emphasized in all situations.

Anti-shock, anti-fall and durable. With its IP44 protection rating, it is protected against water splashing from all directions and can be used in complex outdoor environments.

Large-capacity lithium battery supports fast charging with maximum discharge of more than 420 times to meet clinical requirements.

With manual, automatic, and power-on self-test functions to ensure ready use.

80mm thermal printer,waveforms are more clear and accurate.

Support 240 minutes of AED voice recording storage, each patient's record can be stored for up to 60 minutes.

Extensive event review, trends and data storage.

CMSS
CRITECHCARE MEDICAL SUPPLY AND SERVICES

OPERATING ROOM EQUIPMENT

AML700S LED

Shadowless Operating Lamp

Features

-The Whole reflection optical system is made by CAD/CAM technology, its illumination depth is up to 1300mm; by using color temperature compensation technology, the color reversion is upraised, and it is more suitable for the illumination of the complex surgery such as encephalon surgery and thorax surgery.

-The panel is made of German PC (anti-bullet plastic) by injection moulding, makes the light softer and more reliable. Equipped with imported balance arm suspension system, which is light and handy, six group joints move together and moves smoothly, positions stablely.

-360 universal design can satisfy various needed height and angle in the operation.

-Almost unlimited LED life expectancy delivers tremendous product reliability and investment protection.

Technical Specifications

PARAMETER	SPECIFICATION
Illuminance	≥160,000Lux
Color Temperature	3800±500K, 4400±500K, 5000±500K
Color Reduction Index (Ra)	93
Illuminance Depth	≥1300mm
Total Irradiance	544W/m²
Size of Light Field	250～300mm
LED Bulb	3.3mW/m²lx
Service Life of Illuminant	50,000h
Power Supply Voltage	AC110-240v, 50/60Hz
Brightness Adjustment	Automatic 8-stage continuous light adjustment
Total Power Consumption	80W
Total LED Bulb Quantity	108pcs (18*6)

For Battery Backup:

Model AML700E Led Shadow

Emergency Time: ≥6 hours

AIP-1200Y

Infusion Pump

Feature

1. Delivery range: 0.1ml/h~1200ml/h.
2. High accuracy +/- 5% after correct calibrated.
3. Five work modes: Rate Mode, Time Mode, Dose Mode, Sequential Mode and Drug library Mode.
4. Manual /Automatic Bolus
5. Vertical & Horizontal mounting clamp.
6. Anti-bolus system to reduce significantly after occlusion sudden release.
7. DPS dynamic pressure display.
8. 2000 events stored can be checked and downloaded.
9. Large color TFT display, the brightness can be adjusted to adapt to the clinical use of the environment.

Technical Specification

PARAMETER	SPECIFICATION
Fit IV tubes	Can be used with any brand IV set after exactly calibration
Pump Type	Peristaltic finger pump
Accuracy	±5%
Delivery rate range	0.1ml/h～1200ml/h (0.1ml/h～99.9ml/h, 0.1ml/h step; >99.9ml/h, 1ml/h step)
Delivery time range	00h01min～99h59min (1 min step)
Volume limit range:	0.0-9999ml (1 ml step)
Total Volume Range	0.0-9999ml (1 ml step)
Dose Mode	Volume：0.1-999.9ml(0.1ml step) DRUG MASS：0.1-999.9mg 0.1mg step) DOSE：0.001-9999ug/kg/min(0.001ug/kg/min step) WEIGHT：0.1-300kg (0.1kg the least step)
Drug library Mode	AIP-1200Y with drug library, can store 1030 kinds of drug names, makes drug dispensing more convenient and safer.
Sequential mode	(Optional)
KVO Rate	0.0~5.0ml/h. Programmable and adjustable
DPS Occlusion Pressure	LOW: 60± (15) kPa MEDIUM: 90 ±15kPa HIGH: 120 ±15kPa (Adjustable)
Alarms	Rate Abnormal, Door Open, Air-in-line, Occlusion, Bottle Empty, Battery Empty, No Battery, Key Holding During Infusion/Pause, Infusion Complete, No Action, Battery Low.
Alarm volume	Three levels of alarm volume: LOW, MEDIUM or HIGH
Bolus function	Bolus rate:1.0~1200ml/h, Bolus volume:1.0~100ml Automatic/Manual, programmable and adjustable
Purge Rate	Programmable and adjustable
Interface	RS-232
Brightness	1~10 levels can be selected
History records	2000 events stored can be checked and downloaded
Power source	AC power supply: AC 100 to 240V(+/-10%), 50/60Hz; DC Power supply: 12~15V, power>15W; Built-in Lithium Battery: Rechargeable, 11.1V, 2000mAh. 12 hours of continuous operation
Protection Class	Class I, Type CF, IPX4
Dimension /N.W	120mm*100mm*215mm, 1.7kg
Packing size/G.W	300mm*260mm*160mm, 2.5KG

ASP-1800

Syringe Pump

Features

1. Compatible with any brand syringes from 5ml,10ml,20ml,30ml,50ml and 60ml.
2. Stackable to be the maximum 8 channels.
3. High accuracy +/- 5% after correct calibrated.
4. Five work modes: Rate /Time/Dose/Sequential/Drug library Mode.
5. Manual or Automatic Bolus function.
6. Vertical & Horizontal mounting clamp.
7. Anti-bolus system to reduce significantly after occlusion sudden release.
8. DPS Occlusion Pressure display.
9. 2000 events stored can be checked and downloaded.
10. Large color TFT display with adjustable brightness.

Technical Specifications

PARAMETER	SPECIFICATION
Applicable syringes	5ml,10ml,20ml,30ml,50ml,60ml of any standard
Accuracy	+/- 5% with correct calibration
Rate mode	0.1ml/h-2000.0ml/h (0.1ml/h or 1ml/h step)
Time Mode	SOL. VOL:0.1-9999.9ml (0.1ml step) TIME：00:01-99:59min (1min step)
Dose Mode:	Volume：0.1-999.9ml(0.1ml step) DRUG MASS：0.1-999.9mg (0.1mg step) DOSE：0.001-9999 (0.001 step) WEIGHT：0.1-300kg(0.1kg step)
Total Volume Range	0.1-9999.9ml (0.1 ml step)
Drug library Mode	**ASP-1800G** with drug library
Sequential mode	(Optional)
Purge Rate	Programmable and adjustable
KVO Rate	0.0~5.0 ml/h, Programmable and adjustable
DPS Occlusion Pressure	LOW:60(±15)kPa, MEDIUM:90(±15)kPa HIGH:120(±15) kPa (Adjustable)
Alarms	Loose, Occlusion, Empty, Near Empty, Rate Abnormal, Low Battery, No Battery, Infusion Complete, No Action, Syringe Plunger Disengagement
Alarm volume	Three levels: LOW, MEDIUM or HIGH
Bolus Rate	0.1-2000ml/h, Programmable and adjustable, Automatic/Manual bolus available
Bolus Volume	Range: 1.0~50.0ml, (0.1ml step)
Interface	RS-232
Brightness	1~10 levels can be selected
History records	2000 events stored can be checked and downloaded
Power source	AC power supply: AC 100 to 240V(+/-10%), 50/60Hz; DC Power supply: 12~15V, power>15W; Built-in Lithium Battery: Rechargeable, 11.1V, 2000mAh. 12 hours of continuous operation
Protection Class	Class I, Type CF, IPX4
Dimension / N.W	240mm*150mm*117mm, 2.5kg
Packing size/G.W	300mm*260mm*160mm, 3.5KG

CMSS
CRITECHCARE MEDICAL SUPPLY AND SERVICES

OB/GYN EQUIPMENT

AW-2E

Infant Warmer

Features

-10.4-inch color LCD touch screen with knob (self-adaptive brightness adjustment)
-Night and day model switches
-Low lightness far infrared ceramic heating lamp
-Ambient noise and light level display
-Hand free alarms silence
-Integrated SpO2 function (optional)
-Thermal conduction gel mattress
-Far infrared ceramic heating tube
-Self-adaptive Brightness Adjustment Touch Screen
-Integrated weight scale and resuscitation (optional)
-With storage drawer as standard configuration

Standard Configurations

PARAMETER	SPECIFICATION
Power Requirements	Customer Specified
	Power consumption:700VA (Maximum)
Heater capacity	550W
Dimensions	84(W)x110(D)x178-218(H)cm (Mattress surface:80-120cm)
Weight	100KG
Temperature Control	Servo control (manual control also available)
Skin Temperature	Setting range:34.0-38.0 °C
	Display range:30.0-42.0 °C
Heater Output	Setting range:0-100% (in 5%increments)
	Indication Range:0-100 (in 10 levels)
Timer	me display range:0-60 minutes 00 seconds (in 1 second increments)
	APGAR mode/CPR mode switchable
Lighting	LED lamp Adjustable illumination intensity 0-1200lux
Mattress platform angle	Inclination angle (back and forth):+13 °~-13 °

AW2E Technical Specification

Optional Functions

PARAMETER	SPECIFICATONS
Height Adjustment	Up to 40cm
Weight Scale	
Weight range	300g to 8kg
Weight display resolution	1g
Weight accuracy	+/-10g
Pulse Oximeter Unit	
Display range	1-100% SpO2
SpO2 alarm setting range	Upper limit:50-99% (in 1% increments)
	Lower limit:45-95% (in 1% increments)
Pulse rate display range	25-240bpm
Pulse rate alarm setting range	Upper limit:80-240bpm, OFF
	Lower limit:35-180bpm, OFF (in 5bpm increments)
Alarms	SpO2 high/low limit, pulse rate high/low limit, SpO2 sensor
Resuscitation unit	
Manometer	Pressure indication:-2~8kPa (-20~80cmH2O)
Suction unit	Suction pressure control range:0~26.7kPa (0-200mmHg)
O2 Blender	Oxygen concentration control range:21~100%
	Oxygen flow rate control range:0~15L/min
Resusci-flow unit	PMAX setting range:19~58kPa (20~60cmH2O)
	Default setting range:39kPa(40cmH2O)
Storage/Shipping Information	
Temperature	-25°to 60°C
Humidity	0-95%RH

B-100 LED

Tube Infant Phototherapy Unit

Features

Use LED blue tube as light source
LED Digital Timer, display therapy time & total time
Lifting & Mobile Stand
Radiant head rotating by angle of 30°/ 60°/ 90°

Technical specifications

- Input power:<150VA
- Light source: Blue tube/ LED tube
- Light source effective life: 2,000 /50,000 hours
- Wavelength: 400-550nm
- Irradiance treatment distance: 35cm
- Effective area: 45cm×24cm
- Bilirubin total irradiance maximum (Ebi max): 2000μW/cm 2 / 2500μW/cm 2
- Uniformity of Ebi: >0.4
- Infrared radiation in effective area: ≤10mW/cm 2 (760nm<λ≤1400nm)
- Ultraviolet radiation in effective area: ≤1.0×10-5mW/cm 2 (180nm<λ≤400nm)
- Time display accuracy: 2h±1min
- Operate noise: ≤55dB(A), ambit noise is lower than 40dB(A)
- Time display range: 9999h 59min
- Adjust angle: 30°, 60°, 90°
- Adjust height: 1100mm-1500mm

AFM-800P

Fetal/Maternal Monitor

Product introduction

12.1-inch TFT color screen Folding up to 90 degree
The monitor of light weight and space-saving.
It can meet the need of whole stages of labor (including antepartum and intrapartum monitoring for fetus and mother)
It also can be connected to the obstetrical central station

Features

Lightweight, space-saving, easy operations
Interface of parameters of FHR, TOCO and Fetal Movement with display
Li-Ion battery, 2200mAh/14.8V Maximum 4 hours of continuous monitoring
Alarm system
12.1-inch TFT color screen Folding up to 90 degree
DSP technology, real time identify and measurement for FHR, accurate and reliable results
Special high sensitive transducer
42 hours data storage which can be playback and printed
Low ultrasound power, safe to fetus
Wide range of applying voltage(100-240V)
Auto FM testing

Specification

Fetal Heart Rate (FHR)

Parameters: FHR1, FHR2 (optional)
Measurement range: 50 - 240 bpm
Accuracy: ±2 bpm;
Sweep speed: X1, X2, X4, X8

Transducer

9 crystals, pulsed Doppler, high sensitivity
Frequency: 1.0MHz
Probe: wired

AFM-800P Technical Specification

Uterine Activity (TOCO)
Measurement range: 0 - 100
TOCO baseline: 0, 5, 10, 15, 20 (selectable)

Maternal ECG/HR (MECG) (optional)
Lead type: 5-lead
Lead selection: RA, LA, RL, LL, V
HR measurement range: 15 bpm - 300 bpm
Accuracy: ±1 bpm or ±1 %, whichever is greater

Respiration Rate (optional)
RESP Rate range: 7 rpm - 120 rpm
Accuracy: ±2 rpm/min or ±2 % reading, whichever is greater

Maternal Non-invasive Blood Pressure (NIBP) (optional)
Method: Automatic Oscillometric
Parameters: SYS/DIA/MAP
Operating modes: Manual/Auto
Auto measure intervals: 3/5/10/20/30/60/90/120/240 minutes
Units: mmHg/kPa
Cuff pressure range: 0 mmHg - 300 mmHg (0 kPa - 40.0 kPa)
Measurement and alarm range:
SYS: 50 mmHg - 240 mmHg (6.7 kPa - 32.0 kPa)
MAP: 25 mmHg - 200 mmHg (3.4 kPa - 26.6 kPa)
DIA: 15 mmHg - 180 mmHg (2.0 kPa - 24.0 kPa)
Accuracy: Max. Mean Error: ±3 mmHg (±0.4 kPa) or ±2 of reading
Over-pressure protection: Yes

Maternal SpO2 (optional)
Measurement range: 70 - 99 %
Accuracy: ±3 %
PR range: 30 - 240 bpm
Accuracy: ±2 bpm/min or ±5 % reading, whichever is greater

Temperature (optional)
TEMP range: 0 – 50c℃
Resolution: ±0.1℃

Weight & Dimensions
Net Weight: 3.5kg
Dimensions: 350(L) * 320(W) * 85(H) mm

Standard Accessories
3 in 1 transducer (FHR.TOCO, FM)
2 pcs of printer paper.
One power cable
Two bandages /three bandage (twin optional)
Second one transducer(optional)

Remark
3 Para (fetal monitor): FHR, TOCO, FM
6 Para (fetal/maternal monitor): FHR, TOCO, FM, MHR, SPO2, NIBP
9 Para (fetal/maternal monitor): FHR, TOCO, FM, MHR, SPO2, NIBP, ECG, RR, TEMP

Options
Twins Probe, Fetus Waker, Touch Screen, Trolley, Wall Bracket

CMSS
CRITECHCARE MEDICAL SUPPLY AND SERVICES

X-RAY EQUIPMENT

Browiner

CMSS
CRITECHCARE MEDICAL SUPPLY AND SERVICES

MOBILE COOPER

Mobile Digital X-ray System

Main Components	Technical Specifications			
Model		Mobile Cooper	MobileCooper(ECO)	MobileCooper(SMART)
Flat Panel Detector	X-ray Sensitive Area	14x17 inch		
Generator	Standard Power	40kW	32kW	
	kV Range	40-150kV		40-125kV
	mA Range	10-500mA	10-400mA	
	mAs Range	0.1-250mAs	0.1-160mAs	0.1-125mAs
X-ray Tube	Anode Heat Content	150kHu		200kHu
Physical Specification	Weight	220kg		
	Height	149cm		
	Width	65cm		
	Tube Tilting Angle	$\pm 90^0$		
	Tube Vertical Rotation Angle	-30^o - $+90^o$		
	Arms Folding Range	$\pm 60^0$		
	SID	507-2000mm		
Lithium Battery	Battery Capacity	46.8V – 10.8Ah		

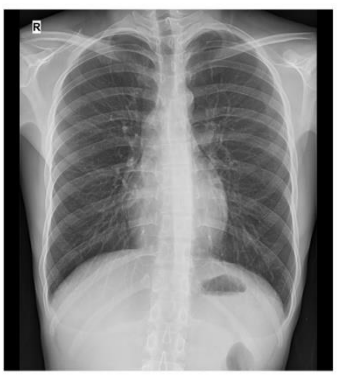
Mobile Cooper

Light yet Robust

Mobile Cooper

Clear and Accurate

HQ wireless detector

displaying exquisite details

Clinical Image Samples