

Specifications: S5

The logo features the word "COMEN" in large, bold, white, 3D-style capital letters. Above the letters, a curved path of smaller, semi-transparent "COMEN" text forms an arc, suggesting a globe or a path. The background is a gradient of blue with a subtle globe-like shape at the bottom.

COMEN Share with the world

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Defibrillator/ Monitor

S5



Standard Configuration:

Manual defibrillation, AED, Pacer, 3/5-lead ECG, RESP, Thermal Recorder

Optional:

NIBP, PR, SpO₂, EtCO₂(Specific parameters refer to CO₂ module parameter table)

Physical Characteristics

Size: 295mm×252mm×316mm
 Weight: 5.6kg (Including 1 battery);5.384(Main unit)
 Screen Size: 7" TFT screen
 Resolution: 800 × 480
 Waveforms: Max 4 waveforms

Operation Environment

Temperature: 0~45℃
 Humidity: 10%~95%, non-condensation
 Atmosphere Pressure: 700hPa~1060hPa
 Ingress Protection: IP44
 Power requirement: 100-240V~, 50/60Hz±3Hz
 Battery type: Rechargeable Lithium-ion battery
 Battery capacity: 7500mAh, d.c.14.8V
 5000mAh, d.c.14.8V
 Battery number: 1
 Battery recharging Time: 7500mAh Battery: Less than 2 hours to 80% and less than 3 hours to 100% with equipment power off
 5000mAh Battery: Less than 1.5 hours to 80% and less than 2.5 hours to 100% with equipment power off
 Battery backup: 7500mAh Battery: Monitoring Mode: no less than 6 hours
 Defib Mode: 210 times (360J charge at intervals of 1minute without recording);

Pacing Mode: 4.5 hours (Load:50 Ω , frequency: 80bpm, current: 60mA, without recording)
 5000mAh Battery:
 Monitoring Mode: no less than 4 hours
 Defib Mode: 120times (360J charge at intervals of 1minute without recording);
 Pacing Mode: 3hours (Load:50 Ω , frequency: 80bpm, current: 60mA, without recording)
 Manual from X to 100, X refers to the darkest brightness (X is 10 by default)

Brightness:

Indicator

Two alarm indicators
 Power indicator
 Battery indicator
 Maintain indicator
 QRS beep and alarm sound
 Operating key sound

Interfacing

USB interface
 RJ45 interface
 AC power input
 Multi-functional connector

Date storage

Alarm Event: 200 groups
 Patient profiles: 100 groups
 Patient Events: 1000 groups
 Wave Review: 16.6 hours
 NIBP Review: 2000 groups
 Trend Graph: 160 hours
 Trend Table: 160 hours
 Voice recording: Max 240 min in total;

Marked events	(Up to 60 min for each patient) Available
Power-off storage:	Yes
Alarm:	User-adjustable High and Low 3-level Limits; Prioritized audible and visual alarm
Network:	Connected to Central Monitoring System by hardwire/wireless

Recorder

Type:	Built-in; Thermal array
Channel:	Max 3 channel waveforms
Real-time recording:	3s, 5s, 8s, 16s, 32s, Continual
Speed:	6.25mm/s, 12.5mm/s, 25mm/s, 50mm/s
Record width:	50mm
Resolution:	8dot/mm (Horizontal and vertical)
Background grid:	Configurable
External printer:	Not supported

Defibrillation

Operating mode:	Manual Mode, AED Mode, , Synchronous Defibrillation
Waveform:	Biphasic truncated exponential waveform, with impedance compensation
Defibrillation pathway:	External defibrillation
Electrode type:	External defibrillation paddles, multifunctional electrode
External defibrillation electrode paddles:	Supports charging, discharging and energy selection; Charging completion indicator
Charge Time: (Battery power)	Less than 3 seconds to 200 Joules with a new, fully charged battery Less than 7 seconds to 360 Joules with a new, fully charged battery
Charge Time: (AC power)	Less than 4 seconds to 200 Joules; Less than 8 seconds to 360 Joules
Energy accuracy:	±1.5J or ±10% of setting, whichever is greater, while 50 Ω impedance ±2J or 15% of setting, whichever is greater, while 25 Ω, 75 Ω, 100 Ω, 125 Ω, 150 Ω, 175 Ω impedance
Patient Impedance Range:	20~300 Ω (External defibrillation);

Defibrillation proof:	Type CF: ECG, RESP, SpO ₂ , NIBP, PR; Type BF: EtCO ₂
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Manual Mode

External defibrillators:	1J~360J, 25 types (1/2/3/4/5/6/7/8/9/10/15/20/30/50/70/100/120/150/170/200/220/250/270/300/360J)
Synchronous Cardioversion:	Energy transfer begins within 60ms of the R wave from internal Sync signal Energy transfer begins within 25ms of the External Sync signal

AED

Output Energy:	Adujustable:100-360J
Number of electric shocks	Adjustable: once, twice, 3 times
Types can be AED:	VF & VT
AED maximum time required for cardiac rhythm analysis to be ready for discharge:	Battery power supply: 18s AC power supply: 21s

Noninvasive Pacing

Waveform:	Monophasic square wave pulse
Pulse Width:	20ms or 40ms
Accuracy:	±5%
Pacing Mode:	On-demand or fixed
Pacing frequency:	30 ppm to 210 ppm
Accuracy:	±1ppm or ±1.5% (whichever is greater)
Pacing output:	0 mA to 200 mA
Accuracy:	±5% or ±5mA, whichever is greater
Speed-down pacing:	Pacing pulse frequency reduced to 25% of original value.

ECG (leads)

Lead Type:	3 leads ECG, 5 leads ECG, AUTO
Lead selection:	5-lead: I; II; III; aVR; aVL; aVF; V 3-lead: I; II; III
Multi-lead synchronization analysis:	Available
ECG wave gain:	Auto, 1.25 mm/mV (×0.125), 2.5 mm/mV (×0.25), 5 mm/mV (×0.5), 10 mm/mV (×1), 20 mm/mV (×2), 40 mm/mV (×4),
Accuracy:	Less than ±5%

Sweep speed:	6.25 mm/s, 12.5 mm/s, 25 mm/s, 50 mm/s	ST analysis review	20 groups
Accuracy:	Less than $\pm 10\%$	System noise:	Less than $25\mu\text{V}$
Heart Rate:	Adult: 15~300bpm Pediatric: 15~350bpm Accuracy: $\pm 1\text{bpm}$ or $\pm 1\%$ (whichever is greater)	Calibration voltage	1 mV; Accuracy: $\pm 5\%$
Alarm limit range	Adult: High limit: (low limit+2bpm) ~ 300bpm Low limit: 15bpm~ (high limit-2bpm) Pediatric: High limit:(low limit+2bpm) ~ 350bpm Low limit: 15bpm~(high limit-2bpm)	Arrhythmia Analysis:	26 Types
Resolution:	1 bpm	Pacemaker detection:	Detectable
Accuracy:	$\pm 1\text{bpm}$	ECG (paddle)	
Bandwidth:	Monitoring: 0.5~40Hz (-3.0dB~+0.4dB) Diagnosis: 0.05~150Hz (-3.0dB~+0.4dB) Surgery: 1~20Hz (-3.0dB~+0.4dB) ST: 0.05~40Hz(-3.0dB~+0.4dB)	Lead Type:	Single lead ECG
CMRR:	Monitoring: $> 105\text{dB}$ Diagnosis: $> 90\text{dB}$ Surgery: $> 105\text{dB}$ ST: $> 105\text{dB}$	Heart Rate measurement & alarm range:	Adult: 15~300bpm Pediatric: 15~350bpm
Input Impedance:	$\geq 5\text{M}\Omega$	Resolution:	1 bpm
Input signal range:	$\pm 8\text{mV}$	Accuracy:	$\pm 1\%$ or $\pm 1\text{bpm}$ (whichever is greater)
HR trigger threshold	$200\mu\text{V}$	Bandwidth:	Defib: 1~20Hz (-3dB~+0.4dB)
Lead off detection current:	Measuring electrode: $< 0.1\mu\text{V}$ Driving electrode: $< 1\mu\text{V}$	CMRR:	Defib: $> 105\text{dB}$
Pacemaker pulse suppression switch:	Manual selection when the pacemaker is turned on	Input Impedance:	$\geq 5\text{M}\Omega$
Analog output:	Magnification: 1:1000; Accuracy: $\pm 5\%$ Bandwidth: 0.5Hz ~ 40Hz Delay: $\leq 35\text{ms}$	Input signal range:	$\pm 8\text{mV}$
ST Detection:	-2.0mV ~ +2.0mV (-20.0mm ~ +20.0mm)	HR trigger value	$200\mu\text{V}$
Resolution:	0.01mV	Arrhythmia Analysis:	5 Types, ASY, VF, VT, PNC, and PNP
Accuracy:	-0.8mV ~ +0.8mV: $\pm 0.02\text{mV}$ or $\pm 10\%$; Others: Unspecified	Respiration	
		Method:	Thoracic Impedance Method
		RR measurement range:	Adult: 0~120bpm Pediatric: 0 ~ 150bpm
		Accuracy:	7~150bpm: $\pm 2\text{bpm}$ or $\pm 2\%$ (whichever is greater) 0~6bpm: unspecified
		Apnea Alarm:	Adult: 10s~60s Ped: 10s~40s
		Accuracy:	$\pm 5\text{s}$
		Alarm:	Audible and visual alarm; alarm events reviewable
		COMEN NIBP	
		Method	Automatic oscillometric
		Work mode:	Manual / Automatic/Continuous
		Interval Time:	Adjustable 1/2/2.5/3/4/5/10/15/30/60/90/120/180/240/480/720 min Continuous: 5min Adu/Ped: 120s
		Maximum measurement cycle	
		Measurement Unit:	mmHg / kPa selectable
		Pressure types:	Systolic, Diastolic, Mean
		Range of systolic pressure:	Adult Mode: 5.3~36kPa (40~270mmHg) Pediatric Mode: 5.3~26.7kPa (40~200mmHg)

Range of diastolic pressure: Adult Mode: 1.3~28.7kPa (10~215mmHg)
Pediatric Mode: 1.3~20kPa (10~150mmHg)

Range of mean pressure: Adult Mode: 2.7~31.3kPa (20~235mmHg)
Pediatric Mode: 2.7~22kPa (20~165mmHg)

Over pressure protection: Adult: 39.6kPa (297mmHg)
Pediatric: 32kPa (240mmHg)
Tolerance: ± 0.4 kPa (± 3 mmHg)

Accuracy: $\pm \pm 0.667$ kPa (± 5 mmHg), if exceeds the above range, the monitor can still display normally, but the accuracy is not considered

Alarm limit: Same as the range of measurement
PR from NIBP: 40~240bpm
Resolution: 1bpm
Accuracy: $\pm 3\%$ or ± 3 bpm, whichever is greater

SunTech NIBP

Regulatory compliance: YY 0670-2008

Initial inflation range: Adult: 16~37.3kPa (120~280mmHg)
Pediatric: 10.7~22.7kPa (80~170mmHg)

Maximum measurement cycle: Adult: 130s
Pediatric: 90s

Over pressure protection: Adult/Pediatric: 40.0kPa (300mmHg)

Static pressure measurement range: 0kPa~40.0kPa (0mmHg~300mmHg)

Resolution: ± 0.4 kPa (± 3 mmHg)

Range of systolic pressure: Adult: 5.3~34.7kPa (40~260mmHg)
Pediatric: 5.3~21.3kPa (40~160mmHg)

Range of diastolic pressure: Adult: 2.7~26.7kPa (20~200mmHg)
Pediatric: 2.7~16kPa (20~120mmHg)

Range of mean pressure: Adult: 3.5~29.3kPa (26~220mmHg)
Pediatric: 3.5~17.7kPa (26~133mmHg)

PR from NIBP: 30~220bpm

Accuracy: $\pm 2\%$ or ± 3 bpm, whichever is greater

Nellcor SpO₂

Measurement range: 0~100%
Resolution: 1%
Accuracy: $\pm 2\%$ (70~100%, Adu/Ped, non-motion)
1~69% unspecified

Alarm range: 20~100%

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

Alarm range: 20~350bpm

MASIMO SpO₂

Measurement & alarm range: 1~100%
Resolution: 1%
Accuracy: $\pm 2\%$ (70~100%, Ped/Adu, non-motion)
 $\pm 3\%$ (70~100%, motion);
1~69% unspecified

Alarm range: 1~100%

PR Measurement
Range: 25~240bpm
Resolution: 1bpm
Accuracy: ± 3 bpm (non-motion)
 ± 5 bpm (motion);

Alarm range: 20~350bpm
PI value: 0.02~20%
Resolution: 0.01% (0.02~9.99%)
0.1% (10~20%)

SIQ: Available

COMEN SpO₂

Measurement & alarm range: 0~100%
Resolution: 1%
Accuracy: $\pm 2\%$ (70~100%, Ped/Adu, non-motion)
0~69% unspecified

PR Measurement
Range: 20~254bpm
Resolution: 1bpm
Accuracy: ± 2 bpm



040-00000435-00

Reusable 6-Lead Clip Connector ECG Cable and Wire (Integrative)/Anti-Defibrillation/IEC/Length: 3350±100MM

S1



040-00000434-00

Reusable 6-Lead Clip Connector ECG Cable and Wire (Integrative)/Anti-Defibrillation/AHA/Length: 3350±100MM

S1



040-00000433-00

Reusable 6-Lead Clip Connector ECG Cable and Wire (Detachable)/Anti-Defibrillation/IEC

S1



040-00000432-00

Reusable 6-Lead Clip Connector ECG Cable and Wire (Detachable)/Anti-Defibrillation/AHA

S1



040-000908-02

Reusable 3-Lead Clip Connector ECG Cable and Wire (Integrative)/Anti-Defibrillation/AHA

S1/S5/S8



040-000909-02

Reusable 5-Lead Clip Connector ECG Cable and Wire (Integrative)/Anti-Defibrillation/AHA

S1/S5/S8



040-000911-02

Reusable 3-Lead Clip Connector ECG Cable and Wire (Integrative)/Anti-Defibrillation/IEC

S1/S5/S8



040-000912-02

Reusable 5-Lead Clip Connector ECG Cable and Wire (Integrative)/Anti-Defibrillation/IEC

S1/S5/S8



040-000479-01

Reusable 3-Lead Clip Connector ECG Cable and Wire (Detachable)/Anti-Defibrillation/AHA

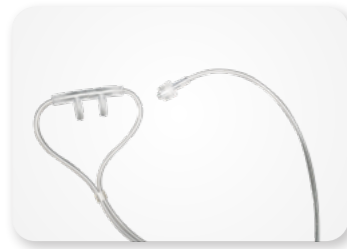
S1/S5/S8



040-000480-01

Reusable 5-Lead Clip Connector ECG Cable and Wire (Detachable)/Anti-Defibrillation/AHA

S1/S5/S8



040-00001105-00

CO2 Nasal sample cannula, Neo, 2.5m

S1/S5/S8



115-006486-00

Comen Mainstream CO2 External Module

S1/S5/S8



009-001056-00

AED test load

S1/S5/S8



115-004228-00

Defibrillator trolley

S1/S5/S8



040-000116-00

Printing Paper 50mm*20m

S1/S5/S8



013-00000019-00

Inverter(12V to 220V)

S1/S5/S8



115-00004109-00

Charging Station (Two batteries)

S1/S5/S8

Electrocardiograph--Other



022-000210-00

Battery 5000mAH

S1/S5/S8



022-00000037-00

Battery 3000mAH

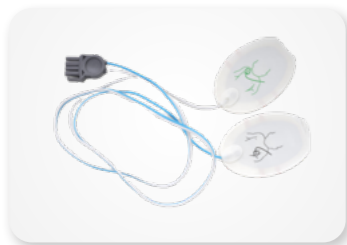
S1



040-000665-00

Disposable Defibrillation electrode pads(adult)/SKINTACT/DF20N

S1/S5/S8



040-001221-00

Disposable Defibrillation electrode pads(Ped)/SKINTACT/DF31G

S1/S5/S8



040-001629-00

Disposable Defibrillation electrode pads(adult)/FIAB/F7952W

S1/S5/S8



040-001628-00

Disposable Defibrillation electrode pads(Ped)/FIAB/F7952PW

S1/S5/S8



115-007222-00

Reusable Defibrillator Paddles(Adult&Ped)

S1/S5/S8



022-00000008-00

Battery 4200mAh

F1/F2 Series



118-00000346-00

AED Wall Cabinet with Alarm and Strobe

F1/F2 Series



118-00000523-00

Tall AED Wall Cabinet with Alarm and Strobe

F1/F2 Series



048-00000492-00

AED Soft Case

F1/F2 Series



048-00000490-00

AED Hard Case

F1/F2 Series