

COMEN · SHARE WITH THE WORLD

Shenzhen Comen Medical Instruments Co.,Ltd.

Add: Floor 7,Block 5, 4th Industrial Park of Nanyou,Nanshan District, Shenzhen 518052, China
Tel:+86-755-26408879 2641 9446 Fax:+86-755-2643 1232
Website: www.szcomen.com E-mail:info@szcomen.com

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COMEN

Products Brochure

- ◇ Patient Monitor
- ◇ Fetal Monitor
- ◇ Electrocardiograph

Shenzhen Comen Medical Instruments Co.,Ltd.

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Our Mission: Provide cost effective, reliable and innovative products to the medical market.

Shenzhen Comen medical Instruments Co., Ltd is mainly engaged in R&D, manufacturing, distribution of high level medical equipments, which cover patient monitoring, fetal monitoring and ECG products series.

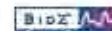
Founded in 2002, COMEN is maintaining a sound and rapid development with the group of entrepreneur, energetic and well-learned elites. Along with its headquarters in Shenzhen, COMEN has branches and site offices in 24 cities which cover the sales network all over China, and also a distribution network covering over 80 countries worldwide. COMEN is, in the present day, one of the leading manufactures in the monitoring and cardiology field.

We are a ISO13485 certified company, along with CE certification for most of our products. The company has a principle of providing quality and reliable products with good technical support. COMEN is always aiming to build a fair and trustworthy relationship with the distributor network worldwide.

Our value proposition

- * Providing our customers with not only competitive prices but also with reliable and innovative products.
- * Stressing the importance of customer service - sales and after sale service with great care and guarantee that we meet the customers' needs in every aspect.
- * Insuring Quality Control on production lines and final inspection before shipment by our well-trained staff.
- * Building a reliable distribution network throughout the world, emphasizing local support and respect of distributor's territories.

Cooperative Partners



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Patient Monitoring

C80 Intensive Care Patient Monitor

C80 provides medical professionals with powerful monitoring options and functionality to match the demands of a wider range of care, in any hospital environment.

Features:

- ◆ IPX1 level waterproof cabinet design & sturdy housing
- ◆ 12.1 inch color TFT display, touchscreen
- ◆ Various interface: Standard display, Big font display, 9 waveforms display, trends graph display, OxyCRG display, Dual view display
- ◆ Multi-language and handwriting support
- ◆ Special NIBP socket dust shield
- ◆ 7-Lead ECG or 12-lead ECG analysis
- ◆ EtCO₂ socket reserved, support hot plugging
- ◆ Arrhythmia, S-T segment analysis, drug dose calculation
- ◆ Pacemaker detection, Anti-defibrillate
- ◆ External monitor connector (VGA output)
- ◆ 120 hours trends graph recall, 120 hours trend table recall, 1000 groups of NIBP list, 500 alarm events
- ◆ 3-level audio/visual alarm, alarm limit display
- ◆ AC/DC power supply, pluggable built-in rechargeable battery, power-off data protection
- ◆ Multi expanded functions reserved, such as SD socket, USB socket and Network socket

Standard Configuration

ECG/HR, SpO₂, PR, NIBP, RESP, TEMP, RR, EtCO₂ Socket Reserved, Nurse Call System

Optional Configuration

Dual TEMP, Thermal Recorder, Nellcor SpO₂, 12-lead ECG, Single/Double IBP, Mainstream/Sidestream EtCO₂, ICG, Anesthesia Gas, CF Card, Optional Accessories for Neonate, Pediatric and Adult



Patient Monitoring

C50 Multi-parameter Patient Monitor

Features:

- ◆ 10.4 inch TFT Touch Screen, waterproof design
- ◆ Waterproof design, good performance in various environment
- ◆ Inclined screen for easy observation
- ◆ 4000mAh Li-ion batteries, above 4 hours working time
- ◆ With functions like ARR analysis, RESP Apnea Alarm, OxyCRG.
- ◆ Auto dust shield to prevent from foreign matter
- ◆ Interfaces: SD card, USB, Network, VGA, Nurse calling
- ◆ Special NIBP socket airproof cover design
- ◆ 7-Lead ECG or 12-lead ECG analysis
- ◆ Arrhythmia and S-T segment analysis, drug dose calculation
- ◆ Pacemaker detection, Anti-defibrillate
- ◆ External monitor connector (VGA output)
- ◆ AC/DC power supply, pluggable built-in rechargeable battery, Power-off protection
- ◆ Multi expanded functions reserved, such as SD socket, USB socket and Network socket

Standard Configuration

ECG/HR, SpO₂, PR, NIBP, RESP, TEMP, RR, EtCO₂ socket reserved

Optional Configuration

Printer



Patient Monitoring



NICU Monitoring

Patient Monitoring

C60 Specialized Neonatal Monitor

Features:

- ◆ 8.4 inch touch screen, lightweight (2.5kg)
- ◆ Various interfaces: Standard display, Large-font display, 6-Lead ECG waveforms display, 2-hours trends graph display, OxyCRG display, Bed-view display
- ◆ 96-hours trends graph recall, 96-hours trends table recall, 400-groups of NIBP list, 60 alarm events, 240 seconds of full-disclosure waveforms review
- ◆ Arrhythmia and S-T segment analysis, drug dose calculation, pacemaker detection
- ◆ Built-in Rechargeable Li-ion battery, 4 hours working time
- ◆ Directly communications with COMEN (wire/wireless) central monitoring system Especially for NICU
- ◆ ExNeo™ ECG technology for neonate
- ◆ Adap-DSP™ system to ensure more accurate NIBP measurement
- ◆ OxiMax[®] SpO₂ system, SatSeconds™ intelligent alarm management technology

Standard Configuration

ECG/HR, Nellcor SpO₂, PR, NIBP, RESP, TEMP, Bedrail Hook

Optional Configuration

Nellcor SpO₂, Thermal Recorder, Main stream/Sidestream EtCO₂, Single/Double IBP, Optional Accessories for Neonate, Pediatric and Adult





Transport Monitoring

STAR8000H Transport Patient Monitor

Features:

- ◆ 8.4 inch TFT touch screen, lightweight(2.5kg)
- ◆ Various interfaces: Standard display, Large-font display, 6-Lead ECG waveforms display,
- ◆ 2-hours trends graph display, OxyCRG display, Bed-view display
- ◆ 96-hours trends graph recall, 96-hour trends table recall, 400-groups of NIBP list, 60 alarm events,
- ◆ 240 seconds of full-disclosure waveforms review
- ◆ Arrhythmia and S-T segment analysis, drug dose calculation, pacemaker detection
- ◆ Built-in rechargeable Li-ion battery, above 4 hours working time
- ◆ Directly communications with COMEN (wire/wireless) central monitoring system
- ◆ Excellent anti-movement performance
- ◆ Transport patient monitoring, ICU, PACU, NICU

Standard Configuration

ECG/HR, SpO₂, PR, NIBP, RESP, TEMP, Bedrail Hook, Vehicle Power Supply

Optional Configuration

Nellcor SpO₂, Thermal Recorder, Mainstream/Sidestream EtCO₂,
Single/Double IBP, Optional Accessories for Neonate, Pediatric and Adult





ICU/CCU/OR Monitoring

STAR8000C Patient Monitor

Features:

- ◆ 12.1 inch color TFT display
- ◆ Various interface: Standard display, Large display, 9 waveforms display, 2/4/6 hours trends graph display, OxyCRG display, Dual view (waveform and menu) display
- ◆ Multi-language Support
- ◆ 7-Lead ECG or 12-lead ECG analysis
- ◆ Arrhythmia and S-T segment analysis, drug dose calculation,
- ◆ Pacemaker detection, Anti-defibrillate
- ◆ External monitor connector (VGA output)
- ◆ Manual, Automatic, Alarming record mode
- ◆ 120 hours trends graph recall, 120 hours trend table recall, 1000 group of NIBP list, 500 alarm events
- ◆ 3-level audio/visual alarm, alarm limit display
- ◆ AC/DC power supply, pluggable built-in rechargeable battery, Power-off protection
- ◆ Compatible with Comen (wire/wireless) central monitoring system

Standard Configuration

ECG/HR, SpO₂, PR, NIBP, RESP, TEMP, EtCO₂ Socket Reserved, Nurse Call System

Optional Configuration

Dual TEMP, Thermal Recorder, Nellcor SpO₂, 12-lead ECG, Single/Double IBP, Mainstream/Sidestream EtCO₂, ICG, Anesthesia Gas, CF Card, Optional Accessories for Neonate, Pediatric and Adult



Patient Monitoring

STAR8000D Patient Monitor

Features:

- ◆ 12.1 inch Color TFTdisplay
- ◆ Various interface: Standard display, Large display, Max 6 ECG waveformsdisplay, 2 hours trendsgraph display, OxyCRG display
- ◆ Multi-language Support
- ◆ Arrhythmia and S-T segment analysis, drug dosecalculation,
- ◆ Pacemaker detection
- ◆ Manual, Automatic, Alarmingrecord mode
- ◆ 96 hours trendsgraph recall ,96 hours trendstable recall, 400group of NIBPlist, 60 alarmevents
- ◆ 3-level audio/visual alarm, alarmlimit display
- ◆ AC/DC Power Supply, Pluggable Built-in Rechargeable battery
- ◆ Compatible with Comen (wire/wireless) central monitoringsystem

Standard Configuration

ECG/HR ,SpO₂ ,PR,NIBP,RESP,TEMP

Optional Configuration

Dual TEMP,Nellcor SpO₂ ,Thermal Recorder, CF Card, Main stream/Side stream EtCO₂, Single/Double IBP, Optional Accessoriesfor Neonate, Pediatric and Adult



Patient Monitoring

STAR8000A Patient Monitor

STAR8000B Patient Monitor

Features(STAR8000B):

- ◆ 12.1 inch color TFTdisplay
- ◆ Light weight and portable, User-friendly design ,easy operation mode
- ◆ Parameter dataand curve's color adjustable
- ◆ 96 hours trendgraphic data,90 minutesreplaying of ECGwaveforms
- ◆ Anti-defibrillation, Anti-high-frequency electrotome
- ◆ Digital SpO₂ technique, precise measurement for lowperfusion and fingershaking
- ◆ Intelligent audio/visual alarm
- ◆ AC/DC power supply,Built-in high-capacity battery, up to 5 hours workingtime
- ◆ Compatible with Comen (wire/wireless) central monitoringsystem

Standard Configuration(STAR8000A/STAR8000B)

ECG/HR , SpO₂ , PR, NIBP,RESP,TEMP

Optional Configuration(STAR8000A)

Nellcor SpO₂, Thermal Recorder

Optional Accessories forNeonate, Pediatric and Adult

Optional Configuration(STAR8000B)

Dual TEMP, Nellcor SpO₂, Thermal Recorder, CF Card, Mainstream/Sidestream EtCO₂, Single/Double IBP, Optional Accessoriesfor Neonate, Pediatric and Adult



Model	Interface	Multi language	ST Segment	Arrhythmia	Drug dose calculation	Storage	Alarm	central monitoring system
STAR8000B	5	✓	✓	✓	✓	96 hours	3 level audio/visual alarm Intelligent audio/visual alarms	✓
STAR8000A	2	✗	✗	✗	✗	96 hours	Intelligent audio/visual alarms	✓

Patient Monitoring

Veterinary Monitor STAR8000C/STAR8000H

Feature :

- ◆ Patient monitor with veterinary software provides for dogs and cats.
- ◆ Support Multi-language, Local language display and printout
- ◆ 12.1 inch Color TFT Display with Maximum 7 Waveforms
- ◆ Support Animal Information Input
- ◆ Directly communications with Comen (wire/wireless) central monitoring system

Standard Configuration

ECG/HR, Nellcor VetSet SpO₂, PR, TEMP, SPO₂, NIBP

Optional Configuration

Thermal Recorder, Respiroic Mainstream EtCO₂



Fetal & Maternal Monitor



Fetal & Maternal Monitor

Fetal & Maternal Monitor

STAR5000C Fetal & Maternal Monitor STAR5000PLUS Fetal Monitor

Features:

- ◆ 12.1 inch high resolution, Color TFT Display
- ◆ Folding up screen for multi-angle observation, touch screen for simple and fast operation
- ◆ Working situation for antepartum, intrapartum and postpartum applications
- ◆ Various interfaces like 3 parameter interface, 9 parameter interface, big font and parameter list etc
- ◆ High sensitive 1MHZ waterproof FHR transducer
- ◆ Auto or Manual fetal movement mark
- ◆ Flat surface design and waterproof TOCO transducer
- ◆ Special automatic scoring system, provided more clinical requirements information
- ◆ 120 hours full parameter real time waveforms, 96 hours trend graphic, 400 group trend list,
- ◆ 1 hour sound and voice can replay simultaneously
- ◆ Built-in 112mm Thermal Recorder
- ◆ Compatible with Comen (wire/wireless) central monitoring system



Model	Standard Configuration											Optional Configuration		
	FHR	TOCO	FM	ECG	HR	SpO ₂	PR	RESP	TEMP	Built-in Printer		Twins	Other accessories	
STAR5000PLUS	✓	✓	✓	✗	✗	✗	✗	✗	✗	✗	✗	✓	✓	✓
STAR5000C	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓



Fetal & Maternal Monitor

STAR5000D Fetal Monitor

Features:

- ◆ 6.5 inch high resolution, TFT touch screen
- ◆ Folding up screen for multi-angle observation
- ◆ Built-in 152mm width thermal recorder
- ◆ Extractable paper slot, easy for paper replacement
- ◆ Auto detection for transducers, flexible connecting
- ◆ Temp/TM timing monitor function, avoid overtime monitoring
- ◆ FHR signal strength indicator, twins cross channel verification
- ◆ 12 crystal wide pulse wave waterproof transducer, suitable for water birth
- ◆ 20mm/min, 30mm/min real-time printing, 25mm/sec high speed fetal waveform replay printing
- ◆ Automatic fetal movement measurement, automatic fetal status scoring system

Standard configuration

FHR, TOCO, FM, AFM, Built-in Lithium Battery

Optional configuration

Twins, Wireless Transducer, Fetal Acoustic Stimulator



Fetal &Maternal Monitor

STAR5000EFetal Monitor

- Features:
- ◆ 5.7 inch LCDscreen,compact and lightweight
 - ◆ Built-in high-capacity Li-ion battery , above4 hours working time
 - ◆ Support data storage and softwareupgrading by externalUSB Disk
 - ◆ 112mm printer. Special extractable paper slot, easy for paperreplacement and observation
 - ◆ Manual/automatic FM measurement, automatic fetal status scoringsystem
 - ◆ FHR signal strengthindicator,twins cross channelverification
 - ◆ Power-off dataprotection for 300cases.60 hours real-timewaveform replay& storage
 - ◆ TemPomTMtiming monitor function, avoid overtime monitoring
 - ◆ Support timing printout
 - ◆ Support wire & wireless central monitoringstation connection

Standard configuration
FHR, TOCO, FM, Printer, Built-in Lithium Battery

Optional configuration
Twins



Fetal &Maternal Monitor

STAR5000 Fetal Monitor
STAR5000B Fetal / MaternalMonitor

- Feature:
- ◆ 12.1 inch high resolution, Color TFT Display
 - ◆ Light weight and portable, easy operation mode
 - ◆ Maximum 20 hoursstorage and replay of monitoring data
 - ◆ Built-in high-capacity battery
 - ◆ Advanced Digital SignalProcessing (DSP) techniqueis applied forreal-time calculation and mode identification
 - ◆ High-sensitive probe, excellent signal/noise rateand calculation accuracynable to monitorfetus more safely
 - ◆ Intellectualized audio/visual alarmsaccurately transmitdiseases
 - ◆ Thermal recorder, able to print or storewaveforms and monitoring status atreal time
 - ◆ Directly communications withComen (wire/wireless) centralmonitoring system



Model	Standard Configuration										Optional Configuration	
	FHR	TOCO	FM	ECG	HR	SpO ₂	PR	RESP	TEMP	Built-in Printer	Twins	Other accessories
STAR5000	√	√	√	×	×	×	×	×	×	×	√	√
STAR5000B	√	√	√	√	√	√	√	√	√	√	√	√



Fetal & Maternal Monitor

STAR5000A Fetal Doppler

Features:

- ◆ Portable and lightweight, easy to operate
- ◆ LCD data display with backlight
- ◆ Date and time display, battery capacity indicator
- ◆ Advanced digital signal processing (DSP) technique is applied for real-time calculation of FHR
- ◆ High sensitive transducer, low ultrasound power
- ◆ Built-in rechargeable battery
- ◆ Replacing Ultrasound transducer
- ◆ Built-in speaker and ear-phone output



Model	High performance probe	FHR value Display	FHR curve Display	FHR algo rithm	Back light	Date time	Battery atatus display	SpO ₂ and PR
STAR5000A	√	√	×	Auto	√	√	√	×
STAR5000A+	√	√	√	Auto	√	√	√	×
STAR5000A++	√	√	√	Auto	√	√	√	√

Central Monitoring System

STAR8800 Central Monitoring System

Features:

- ◆ Wire & wireless central monitoring system solution
- ◆ Standard configuration for 16 bedside monitors, support maximum 128 units
- ◆ Large screen display, observe 16 bedside monitors' waveform simultaneously
- ◆ Dual-screen display is selectable
- ◆ 720-hour full disclosure waveform review
- ◆ 1240-hour trend graph review
- ◆ 1000 alarm records review
- ◆ 50000 patient historical data
- ◆ All the information can be stored in disk
- ◆ Display the waveform and numeric information of ECG, SpO₂, RESP, NIBP, IBP, CO₂, FHR, TOCO, FM, etc
- ◆ Compatible with Comen patient monitor, Fetal monitor, Fetal/Maternal Monitor



Electrocardiograph



Electrocardiograph

Electrocardiograph

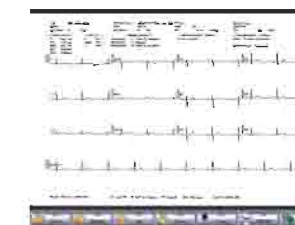
Twelve-channel Electrocardiograph

CM1200

CM1200A

Features:

- ◆ 12.1 inch TFT color folding touchscreen for CM1200, 8.4 inch TFT for CM1200A
- ◆ Support multi-language, printing preview, diagnosis results edited
- ◆ Sleep/wake up mode for saving energy and extending LCD life
- ◆ Electrodes connection diagram
- ◆ Alphanumeric keyboard, support hand-writing patient information input
- ◆ Pace-maker detection, anti-defibrillation
- ◆ Automatic measurement and interpretation tested with authoritative CSE database
- ◆ 300 ECG internal memory
- ◆ 122 kinds of arrhythmia analysis
- ◆ Last 120 seconds 12-lead waveforms reviewable and recordable
- ◆ 216/210mm thermal printer, support rolling paper, Z-folded A4 size paper
- ◆ External printer and data transmission support by USB port
- ◆ Optional Network Capability



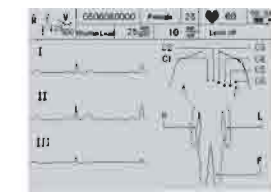
Electrocardiograph

CM1200B

- Features:**
- ◆ 5.7 inch single colorscreen
 - ◆ Support mulit-language
 - ◆ Electrodes connection diagram
 - ◆ Numeric keyboard, keylight design fornight use
 - ◆ Pace-maker detection, anti-defibrillation
 - ◆ Automatic measurement and interpretation tested with authoritative CSE database
 - ◆ 300 ECG internal memory
 - ◆ 122 kinds of arrhythmia analysis
 - ◆ Last 120 seconds 12-leads waveforms reviewable and recordable
 - ◆ Support rolling paper, Z-folded paper and A4 size paper
 - ◆ External printer and data transmission support by USB port
 - ◆ Optional Network Capability



Model	Screen Resolution	ECG Preview /edit before printing	Stress Test	ECG workstation	Connect External Printer	Lead State Diagram	Alphanumeric keyboard	PACS system
CM1200	12.1 inch fold touch screen 800 x 600	√	√	√	√	√	√	√
CM1200A	8.4 inch touch screen 800 x 600	√	×	√	√	√	√	×
CM1200B	5.7 inch 320 x 240	×	×	√	×	√	×	×



Electrocardiograph

Six-channel Electrocardiograph CM600

- Features:**
- ◆ 5.7 inch TFT singleclolor screen
 - ◆ Support multi-language, printing preview
 - ◆ Leads status diagram to show leads connectivity
 - ◆ Alphanumeric keyboard
 - ◆ Pace-maker detection, anti-defibrillation
 - ◆ Automatic measurement and interpretation
 - ◆ 300 ECG internal memory
 - ◆ 122 kinds of arrhythmia analysis
 - ◆ Last 120 seconds 12-leads waveforms reviewable and recordable
 - ◆ 110mm thermal recording, support Z-folded paper and A4 paper
 - ◆ External printer and data transmission support by USB port
 - ◆ Keypad backlight select
 - ◆ Optional Network Capability



Electrocardiograph

Three-Channel Electrocardiograph

CM300

CM300A

Features:

- ◆ Portable, lightweight design
- ◆ Multi-language support
- ◆ Simultaneously 12 leads acquisition, optional selections for rhythm lead
- ◆ Complete digital filters, resisting baseline drift, AC and EMG interface
- ◆ Automatic measurement and interpretation tested with authoritative CSE database
- ◆ 3/6/12 ECG waveform display, Lead-off indication map
- ◆ Three printing mode (Auto, Manual, and Rhythm) select
- ◆ 1/2/3/4 lead ECG waveform printing out
- ◆ 150 electrocardiograms in internal memory
- ◆ Built-in rechargeable Li-ion battery
- ◆ Built-in thermal recorder
- ◆ Baseline automatic adjustment
- ◆ External printer and data transmission support by USB port
- ◆ Optional Network Capability



Model	Screen(Resolution)	interpretation tested	Internal storage	ECG display
CM300	320 x 240	√	150 ECGs	3/6/12 ECG waveforms display
CM300A	192 x 64	√	100 ECGs	1 ECG waveform display

Electrocardiograph

Single Channel Electrocardiograph

CM100

CM100 VET

CM100A

CM100B

Features:

- ◆ Portable, lightweight design
- ◆ Simultaneously 12 leads ECG acquisition, optional selections for rhythm lead
- ◆ Complete digital filters, resisting baseline drift, AC and EMG interface
- ◆ Automatic measurement and interpretation tested with authoritative CSE database
- ◆ 50mm high precision Fujitsu thermal printing mechanism
- ◆ 150 electrocardiograms in internal memory
- ◆ Built-in rechargeable Li-ion battery
- ◆ Baseline automatic adjustment
- ◆ Pace maker detection
- ◆ Optional Network Capability, data import/output by USB



Model	Screen(Resolution)	interpretation tested	Internal storage	ECG display
CM100	192 x 64	√	150 ECGs	One channel display
CM100 VET	192 x 64	×	150 ECGs	One channel display
CM100A	122 x 32	×	×	×
CM100B	320 x 240	√	100 ECGs	3/6/12 ECG waveforms display