

Specification: NC 19

The logo features the word "COMEN" in large, bold, white, 3D-style capital letters. The letters are set against a blue background that has a subtle gradient and a faint, repeating pattern of the word "COMEN" in a lighter shade. The letters appear to be resting on a blue, curved surface that resembles a globe or a lens.

COMEN Share with the world

SHENZHEN COMEN MEDICAL INSTRUMENTS CO.,LTD

No.2 of FIYATA Timepiece Building, Nanhuan Avenue, Gongming sub-district, Guangming New District, Shenzhen, P.R. China

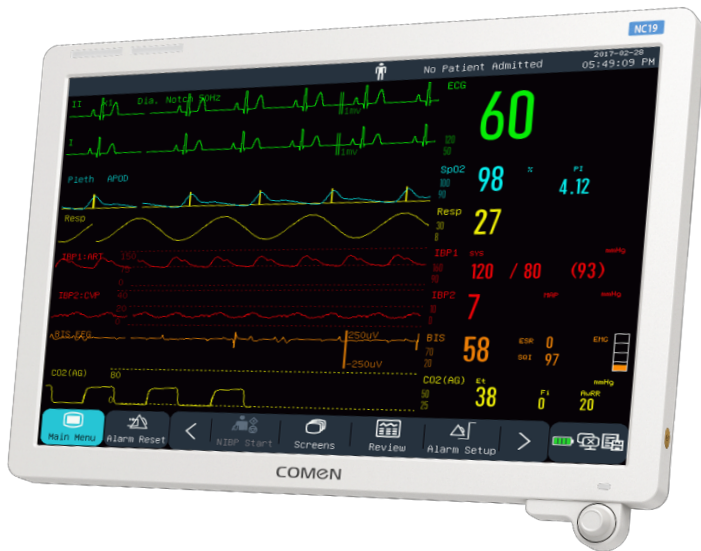
Tel: +86-755-26408879

Fax: +86-755-26431232

Email: info@szcomen.com

Web: www.comen.com

Patient Monitor NC 19



Standard Configuration:

5-lead ECG, RESP, Comen SpO2, NIBP, Dual-Temp (Without sensor), EtCO2 (Without sensor)

Optional:

Masimo/ Nellcor SpO2, Dual-IBP, AG, C.O., BIS, ICG, 3/12~lead ECG, Suntech NIBP, Thermal Recorder, Trolley, Wall mount, Ground wire

Safety Standards

ISO 13485:2016 approved, CE marking? according to MDD93/42/EEC

Physical Characteristics

NC19 Size: 450mm×300mm×67mm
weight About 3 kg
NC19 Screen Size: 19" TFT touch screen
resolution 1440 × 900
Waveforms: up to 9 waveforms

Operation Environment

Temperature: 0~40°C
Humidity: ≤93%
Power requirement: 100-240V~, 50/60Hz±1Hz

Data storage

Alarm Event Review: 200 groups

Wave Review: 48h wave review of single-channel wave
NIBP Review: 2000 groups
Trend data: 160hours
Interfacing:
USB interface
RJ45 network interface
Plug-in slot
Multi-functional connector

Recorder

Type: Thermal array
Channel: 3 waveforms
Speed: 25mm/s,50mm/s
Record width: 50mm
External printer: Yes

Respiration

Method: Thoracic Impedance Method
RR measurement range: Adult: 0~120rpm
Pediatric/Neonate: 0~150rpm
Accuracy: 7~150rpm ±2rpm or ±2% (whichever is greater)
0~6rpm: unspecified
RESP Apnea Alarm: Adult: 10s~60s Ped/Neo: 10s~20s

Alarm:	Audible and visual alarm; alarm events reviewable	Auto mode test interval:	Adjustable (1~480min)
Sweep Speed:	6.25, 12.5, 25mm/s	Maximum measurement cycle:	Adu/Ped: 120s; Neo: 85s
Gain Selection:	X0.25, X0.5, X1, X2, X4	Measurement Unit:	mmHg / kPa selectable
ECG		Measurement types:	Systolic, Diastolic, Mean
Lead Type:	Cardio TecTM 5-leads ECG Analysis, 3 Lead and 12 lead selectable	Range of systolic pressure:	Adult Mode:40~270mmHg Pediatric Mode:40~200mmHg Neonate Mode 40~135mmHg
Lead selection:	12-Lead I; II; III; aVR; aVL;aVF; V1~V6 5-lead: I; II; III; aVR; aVL; aVF; V 3-lead: I; II; III	Range of diastolic pressure:	Adult Mode:10~215mmHg Pediatric Mode:10~150mmHg Neonate Mode 10~100mmHg
Gain Selection:	X0.125, X0.25, X0.5, X1, X2, X4, auto	Range of mean pressure:	Adult Mode:20~235mmHg Pediatric Mode:20~165mmHg Neonate Mode 20~110mmHg
Time reference selection:	6.25,12.5, 25, 50mm/s(non-permanent display) 25, 50mm/s (permanent display)	Over-pressure protection:	Both Hardware and software over pressure protection
Heart Rate measurement Range:	Adult: 15~300bpm Pediatric/Neonate:15~350bpm	Accuracy:	Less than ± 3 mmHg
Resolution:	1 bpm	Resolution:	1 mmHg
Accuracy:	$\pm 1\%$ or ± 1 bpm (whichever is greater)	Alarm PR from NIBP:	Systolic, Diastolic, Mean 40~240bpm
Bandwidth:	Monitoring Mode: 0.5~40Hz Diagnosis mode: 0.05~150Hz Surgery mode:1~20Hz ST mode:0.05~40Hz	Accuracy:	$\pm 3\%$ or ± 3 bpm (whichever is greater)
Resolution:	0.01mV	Nellcor SpO₂	
ST SEGMENT		Measurement & alarm range:	0~100%
Detection:	-2.0mV~+2.0mV (Automatic)	Resolution:	1%
Arrhythmia Analysis:	Available (26 types)	Accuracy:	$\pm 2\%$ (70~100%, Adu/Ped, non-motion) $\pm 3\%$ (70~100%, Neo, non-motion) unspecified (0~69%)
Pacemaker detection:	detectable	PR Measurement Range:	20~300bpm
Alarm:	Yes, audible and visual alarm, alarm events reviewable	Resolution:	1bpm
ST Analysis:	Yes	Accuracy:	± 3 bpm(20~250bpm) unspecified (251~300bpm)
NIBP		Alarm range:	20~350bpm
Method	Automatic oscillometric	Masimo SpO₂	
Work mode:	Manual / Automatic/Continuous		

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

Alarm range 1~100%

PR Measurement

Range 25~240bpm
 Resolution: 1bpm
 Accuracy: $\pm 3\%$ (non~motion)
 $\pm 5\%$ (motion);

Alarm range: 20~350bpm

PI value: 0.02~20%

Comen SpO₂

Measurement &
 alarm range: 0~100%
 Resolution: 1%
 Accuracy: $\pm 2\%$ (70~100%, Ped/Adu, non-motion)
 $\pm 3\%$ (70~100%, Neo, non-motion);
 0~69% unspecified

PR Measurement

Range: 20~254bpm
 Resolution: 1bpm
 Accuracy: $\pm 2\%$ bpm
 PI value: 0.05~20%
 Resolution: 0.01% (0.05%~9.99%)
 0.1% (10.0%~20.0%)
 Accuracy: Unspecified

Temperature (Dual Channel)

Measurement &
 alarm range: 0~50°C
 TEMP sensor: Standard configuration skin
 TEMP sensor
 Resolution: 0.1°C
 Accuracy: $\pm 0.1^\circ\text{C}$ (exclusive of error of sensor)
 Channel type: $\pm 0.2^\circ\text{C}$ (including the sensor error)
 T1, T2, TD (Temperature Difference)

MASIMO EtCO₂ (Sidestream)

Measurement
 range: 0~190mmHg, 0~25% (at
 Accuracy: 760mmHg)
 Standard environment $22 \pm 5^\circ\text{C}$, $1013 \pm 40\text{hpa}$):
 0~15%: $\pm(0.2\%+\text{reading}\times 2\%)$
 15~25%: not defined
 All environment:
 $\pm(0.3\text{kPa}+\text{reading}\times 4\%)$

Resolution:

awRR range: 1mmHg
 awRR accuracy: 0~150rpm
 $\pm 1\text{rpm}$

Total system

response time: <3s

MASIMO EtCO₂ (Mainstream)

Measurement
 range: 0~190mmHg, 0~25% (at
 Accuracy: 760mmHg)
 Standard environment $22 \pm 5^\circ\text{C}$, $1013 \pm 40\text{hpa}$):
 0~15%: $\pm(0.2\%+\text{reading}\times 2\%)$
 15~25%: not defined
 All environment:
 $\pm(0.3\text{kPa}+\text{reading}\times 4\%)$

Resolution:

awRR range: 0~150rpm
 awRR accuracy: $\pm 1\text{rpm}$

Total system

response time: <3s

Respironics EtCO₂ (Sidestream)

Measurement
 range: 0~150mmHg, 0%~19.7%
 (0~20.0kPa)
 Accuracy: $\pm 2\text{ mmHg}$ (0~40 mmHg)
 $\pm 5\%$ of reading (41~70 mmHg)
 $\pm 8\%$ of reading (71~100 mmHg)
 $\pm 10\%$ of reading (101~150 mmHg)
 Resolution:
 0~69mmHg: 0.1mmHg
 70~150mmHg: 0.25mmHg

awRR range

0~150rpm
 $\pm 1\text{rpm}$

Respironics EtCO₂ (Mainstream)

Measurement

<p>Range: 0~150mmHg, 0%~19.7% (0~20.0kPa)</p> <p>Accuracy: ±2mmHg (0~40 mmHg) ±5% of reading (41~70 mmHg) ±8% of reading (71~100 mmHg) ±10% of reading (101~150 mmHg)</p> <p>Resolution: 0~69mmHg: 0.1mmHg 70~150mmHg: 0.25mmHg</p> <p>awRR range: 0~150rpm awRR accuracy: ±1rpm</p> <p>IBP</p> <p>Channel: 4 Channels Measured Pressure: ART, PA, CVP, RAP, LAP, ICP, P1, P2, LV, AO, UAP, BAP, FAP, UVP, IAP, P3, P4</p> <p>Measurement Range:</p> <p>ART: 0~300mmHg PA: -6~120 mmHg CVP: -10~40mmHg RAP: -10~40mmHg LAP: -10~40mmHg ICP: -10~40mmHg P1, P2: -50~300mmHg LV: 0~300mmHg AO: 0~300mmHg UAP: 0~300mmHg BAP: 0~300mmHg FAP: 0~300mmHg UVP: -10~ 40mmHg IAP: -10~40mmHg P3, P4: -50~300mmHg</p> <p>IBP Accuracy: ±2% or ±1mmHg (whichever is greater)</p> <p>Resolution: 0.1kPa or 1mmHg Alarm Range: -50mmHg~300mmHg PR from IBP: 20bpm~350bpm Resolution: 1bpm Accuracy: ±1% or ±1bpm, whichever is greater</p> <p>Multi~Gas/AG</p> <p>Method: Infrared radiation absorption characteristics</p>	<p>Gas sorts: CO₂, N₂O, Des, Iso, Enf, Sev, Hal, O₂ RR(Optional paramagnetic sensor)</p> <p>Measurement range:</p> <p>CO₂: 0~15 %: ± (0.2kPa + 2% of the reading), 15~25%: unspecified N₂O: 0~100%: ± (2kPa+ 2% of the reading) HAL, ISO, ENF: 0~8%: ± (0.15% + 5% of the reading); 8~25%: unspecified SEV: 0~10%: ± (0.15% + 5% of the reading); 10~25%: unspecified DES: 0~22%: ± (0.15% + 5% of the reading); 22~25%: unspecified O₂: 0~100%: ± (1% + 2% of the reading) RR: 0~254rpm: ±1rpm MAC value displayed</p> <p>Others:</p> <p>ISATM (AG) Sidestream Gas Analyzer</p> <p>Measurement method: Infrared gas measurement Description: Ultra-small low-flow sidestream gas analyzer, with integrated micro-pump, zeroing valve and flow controller.</p> <p>Data output: Fi and Et values; up to 4 waveforms; Barometric pressure</p> <p>Respiratory rate: 0~150 breaths/min Preheating time: ISA OR+/AX+: < 20s</p> <p>Impedance Cardiography (ICG)</p> <p>Method: Indirect impedance cardiography measurement range: HR: 40~250 bpm C.O.: 0~30 L/min SV: 0~250mL Accuracy: HR: ±2bpm C.O.: Unspecified SV: unspecified</p> <p>Alarm range: C.I.: 1.4~15.0L/min/m² TFC: (lower limit +1) ~150/KΩ</p>
---	--

Alarm resolution C.I.: ± 0.1 L/min/m²
TFC: ± 1 /k Ω

Cardiac Output (C.O.)

Method: Thermodilution

Measurement range: C.O.: 0.1~20L/min
BT: 25~43°C
IT: 0~25°C

Accuracy: C.O.: $\pm 5\%$ or ± 0.1 L/min,
whichever is greater
BT, IT: 0.1°C

Alarm Range: BT: 25~43°C

BIS

Measurement

range: BIS: 0~100
SQI: 0~100%
EMG: 0~100dB
ESR: 0~100%

Accuracy: 1%

EEG bandwidth: 0.25 Hz~100 Hz (-3 dB)

BIS alarm range: 0~100

***Notice: Specifications subject to changes without prior notice. All rights reserved by Comen**