

COMEN

Specification: NC6/NC7



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Vital Signs Monitor

NC6/NC7

Physical Characteristics

Dimensions	NC6: 260x150x250mm NC7: 270x150x265mm
Weight	NC6: ≤3.5kg NC7: ≤4.2Kg
	NC6: 1024x768, 8 inches Optional Capacitive touch screen NC7: 1280x800, 10.1 inches Standard: Capacitive touch screen

Comen NIBP

Meet standards of IEC 80601-2-30	
Method	Oscillometry, inflation and deflation
Work mode	Manual, Interval, Clock, Sequence, STAT, Orthostatic BP, NIBP averaging
Parameters	Systolic, Diastolic, Mean, Heart Rate
Typical measurement time	≤15s
Max measurement time	Adu./Ped.: 120 s, Neonate: 85 s
Measurement	1-720min (Adjustable)
Interval setting	
Measurement unit	mmHg / kPa, selectable
Static range	0-300mmHg (0kPa-40.0kPa)
Static accuracy	±3mmHg (±0.4kPa)
Systolic range	Adult Mode: 28-290mmHg Pediatric Mode: 28-240mmHg Neonate Mode: 28-140mmHg
Diastolic range	Adult Mode: 13-250mmHg Pediatric Mode: 13-200mmHg Neonate Mode: 13-115mmHg
Mean range	Adult Mode:18-260mmHg Pediatric Mode:18-215mmHg Neonate Mode 18-125mmHg
Accuracy	Max mean error: ± 5 mmHg Max standard deviation: 8 mmHg
NIBP resolution	1 mmHg
Venous puncture	Yes
Over-pressure protection	Adult/ Pediatric Mode: 297mmHg±3mmHg Neonate Mode:

147mmHg±3mmHg	
Comen	Adult: 80-290 mmHg
Initial pressure range (mmHg)	Pediatric: 80-240 mmHg Neonate:60-140 mmHg
SpO₂	
Meet standard of ISO 80601-2-61.	
Module	Comen, Masimo, Nellcor
Range	Mindray/Nellcor: 0 to 100% Masimo: 1 to 100%
Resolution	1%
Accuracy	Ped/Adu: ±2% (70-100%) Neo: ±3% (70-100%);
Alarm range	1-100%
Perfusion index (PI)	Yes, for Comen and Masimo
Pitch tone	Yes, volume adjustable
Response time	<30s
Data update time	≤1s
Dual-SpO ₂	Yes, SpO ₂ , SpO ₂ b, ΔSpO ₂ (Dual SpO ₂ brand should be consistent)

PR

PR range	30-300 bpm (Comen NIBP) 20-300 bpm (Comen SpO ₂) 25-240 bpm (Masimo SpO ₂) 20-300 bpm (Nellcor SpO ₂)
Accuracy	±3 bpm or ±3%, whichever is greater (Comen NIBP) ±2 bpm (Comen SpO ₂) ±3 bpm (non-motion, from Masimo SpO ₂) ±5 bpm (motion, from Masimo SpO ₂) ±3 bpm (Nellcor SpO ₂ , 20-250 bpm) Not specified (Nellcor SpO ₂ , 251 to 300 bpm)

HTD8808C Forehead Thermometer

Temp range	34.0-42.9°C
Temp accuracy	±0.2°C (35.0°C-42.0°C) ±0.3°C (34.0-34.9°C and 42.1-42.9°C)
Temp resolution	0.1°C
Measuring distance	0.1cm -15cm (0.04 in -5.9in)

Measuring time	≤2s
Auto power off time	≤18s
Memories	50
Power supply	1.5V (AAA) Alkaline batteryX2 (IEC Type LR03)or DC 5V(MicroUSB)

Genius™ 3 Tympanic Thermometer

Temp range	33.0-42.0°C
Temp accuracy	±0.3°C
Temp resolution	0.1°C
Response time	1-2 seconds
Battery life	15,000 temperatures
Battery type	3 x AAA batteries

Exergen TAT-5000 Thermometer

Temp range	16.0-43.0°C
Temp accuracy	±0.1°C
Temp resolution	0.1°C
Response time	0.04 seconds
Time displayed on screen	30 seconds
Battery type	Alkaline 9V
Battery life	15000 readings

Filac™ 3000 EZ Thermometer

Temp accuracy	Quick Mode (Oral): ±0.3°C (±0.6°F) Standard Mode (Axillary/Rectal) : ±0.1°C (±0.2°F) Direct Mode: ±0.1°C (±0.2°F)
Temp range	30.0–43.0°C (86.0–109°F)
Response time	Quick Mode (Oral): <4 seconds Standard Mode (Axillary, Rectal): 10-15 seconds Direct Mode(Oral, Axillary, Rectal): <60 seconds
Storage temperature range	-25–55°C (-13–131°F) at 95% RH (non-condensing)
Temp resolution	0.1°C
Battery life	6,000 temperatures
Battery type	4AA Alkaline 1.5V batteries)

TD 1261F Ear Thermometer

Temp range	32.0°C-43.0°C
Temp accuracy	±0.2°C(±0.4°F) (36.0°C-39.0°C) ±0.3°C(±0.5°F)(34.0-35.9°C and 39.1-42.2°C)
Temp resolution	0.1°C
Wireless connection	Bluetooth
Battery	2 x 1.5 V AA alkaline batteries

YHT 107 Infrared ear thermometer

Temp range	34.0°C-42.2°C
Temp accuracy	±0.2°C (±0.4°F) (35.0°C-42.0°C) ±0.3°C(±0.5°F) (beyond 35.0-42.0°C)
Temp resolution	0.1°C
Time interval of each measurement	≤12s
Automatic power off time	60s ± 10s
Measurement duration	≤2s
Power supply	DC 3V (-10%, 5%), 2 × 1.5V AA alkaline batteries

Wireless connection Bluetooth

Respiration Rate (from Comen SpO2)

RR range	4-70 rpm
Accuracy	±3 rpm
RR Resolution	1 rpm
Initial meas. time	≤ 30s
Refreshing time	1 second

EtCO₂ Sidestream

Meet standard of ISO 80601-2-55

EtCO₂ module Comen, Masimo

Technique	Infrared absorption
Unit	mmHg, kPa
Sampling rate	50ml/min
Resolution	1 mmHg

Comen Capno Sidestream EtCO₂

Measurement Range	0mmHg~150mmHg, 0.0%~19.7%, 0.0 kPa~20.0 kPa (at760mmHg)
Accuracy	0mmHg ~1 14mmHg, ± (1.52 mmHg +2% of reading)

114mmHg ~190mmHg, Undefined

System total response time	≤ 5s
Equilibrium gas	Helium, room air, nitrous oxide
awRR range	0-150 rpm
Accuracy	±1 rpm
Apnea time range	Adu.: 10-60s Neo. /Ped.: 10-40s
Step	5s

Masimo Capno Sidestream EtCO₂

CO ₂ range	0-190mmHg, 0-25% (at 760mmHg)
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CO₂ accuracy 0-114mmHg: \pm (2.25 mmHg +4% reading)
115-190mmHg: undefined

awRR range 0-150 rpm

awRR accuracy \pm 1 rpm

Sampling rate 50ml/min

Sampling rate accuracy \pm 10 ml/min

Data sampling rate 20Hz/each channel

System total <3s (2m sampling line)

response time

Data review

NIBP measurement 5000 groups

Tabular trend 240 hours (1 min resolution)

Graphic Trend 240 hours (1 min resolution)

Alarm events 1000 groups

/Score review/

CCHD review

Alarms

Meet standard of IEC60601-1-8

Audible indicator 3 different alarm tones and prompt tones

Visible indicator Red/Yellow/Cyan led and Prompt message

Volume level 1 to 10

Clinical Assistive Applications (CAA)

Support EWS (MEWS, NEWS, NEWS2, PEWS), GCS, Pain score, Targeted Goal, Orthostatic BP, Manual parameters, CCHD.

Bluetooth

Protocol Bluetooth 4.1

Modulation mode GFSK

Operating frequency 2402MHz to 2480MHz

Wireless data rate 2 Mbps, 1 Mbps, 125 kbps

Output power \leq 4dBm

Data security AES128

Wi-Fi Communications

Protocol IEEE 802.11a/b/g/n

Modulation Mode DSSS and OFDM

Operating IEEE 802.11b/g/n (2.4G):

Frequency ETSI/FCC/KC: 2.4~2.483 GHz

MIC: 2.4~2.495 GHz

IEEE 802.11a/n (5G):

ETSI: 5.15~5.35 GHz, 5.47~5.725 GHz

FCC: 5.15~5.35 GHz, 5.47~5.725

GHz, 5.725~5.82 GHz,

MIC: 5.15~5.35 GHz, 5.47~5.725 GHz

KC: 5.15~5.35 GHz, 5.47~5.725 GHz, 5.725~5.82 GHz

Output Power < 20dBm (CE requirement: detection mode- RMS)

< 30dBm (FCC requirement, detection mode- peak power)

CMS connection, HL7

Information

transmission

Interfacing

Barcode scanner Support

Keyboard & Mouse Support

Thermal recorder 3 traces (paper 50 mm width)

Data output HL7, eCenter, eGateway,

Recorder

Type Built-in; Thermal array

Channel 3 channel waveforms

Speed 12.5mm/s, 25mm/s, 50mm/s

Record Paper Width 50 mm

Print width 48 mm

Real-time record 8s, 16s, 32s or continual time

Alarm record Yes

Power

Line voltage 100-240V

Frequency 50/60Hz

Battery Rechargeable Lithium-ion battery

10.8V/2500mAH \geq 3 hours run time

10.8V/5000mAh \geq 8 hours run time

Charge time

Power off \leq 3h to 90% in 2500mAh

\leq 4.5h to 90% in 5000mAh

Power on \leq 7.5h to 90% in 2500mAh

\leq 11.5h to 90% in 5000mAh

Environment requirements

Storage: 10-95% (non-condensing)

Humidity Operating: 15-95% (non-condensing)

Barometric Operating: 120 to 805.5mmHg (57.0 to 107.4 kPa)

Storage: 120 to 805.5 mmHg (16.0 to 107.4 kPa)

