

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 interval setting	1-720min (Adjustable)
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:

Comen	147mmHg±3mmHg
Initial pressure range (mmHg)	Adult: 80-290 mmHg Pediatric: 80-240 mmHg Neonate:60-140 mmHg

SpO₂

Meet standard of ISO 80601-2-61.	
Module Range	Comen, Masimo, Nellcor Comen/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, Masimo SpO ₂) ±5 bpm (motion, 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
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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
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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	
EtCO ₂ 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)
CO ₂ accuracy	0-114mmHg: ± (2.25 mmHg +4% reading)

	115-190mmHg: undefined
awRR range	0-150 rpm
awRR accuracy	±1 rpm
Sampling rate	50ml/min
Sampling rate accuracy	±10 ml/min
Data sampling rate	20Hz/each channel
System total response time	<3s (2m sampling line)

Data review

NIBP measurement	5000 groups
Tabular trend	240 hours (1 second resolution)
Graphic Trend	240 hours (1 second 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.
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Bluetooth

Protocol	Bluetooth 4.1
Modulation mode	GFSK
Operating frequency	2402MHz to 2480MHz
Wireless data rate	2 Mbps, 1 Mbps, 125 kbps
Output power	≤ 4dBm
Data security	AES128

Wi-Fi Communications

Protocol	IEEE 802.11a/b/g/n
Modulation Mode	DSSS and OFDM
Operating Frequency	IEEE 802.11b/g/n (2.4G): 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)
Information transmission	CMS connection, HL7

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 time	8s, 16s, 32s or continual
Alarm record	Yes

Power

Line voltage	100-240V
Frequency	50/60Hz
Battery	Rechargeable Lithium-ion battery
10.8V/2500mAh	≥3 hours run time
10.8V/5000mAh	≥8 hours run time
Charge time	
Power off	≤ 3h to 90% in 2500mAh ≤ 4.5h to 90% in 5000mAh
Power on	≤ 7.5h to 90% in 2500mAh ≤ 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)

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