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# NC7 COMEN

*The multi-parametric monitor NC6:  
excellence in monitoring!*

## Technical specification

### PHYSICAL CHARACTERISTICS

Dimension	270x150x265mm
Weight	≤ 3,5 kg
Screen	1280x800, Standard Capacitive touch screen

### COMEN NIBP

Meet standards of IEC 80601-2-30.	
Methode	Oscillometry, inflation and deflation
Work mode	Manual, Interval, Clock, Sequence, STAT, Orthostatic BP, NIBP averaging
Parameters	Systolic, Diastolic, Mean, Heart Rate
Typical measurement time	≤15 s
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: 25-290mmHg Pediatric Mode: 25-240mmHg Neonate Mode: 25-140mmHg
Diastolic range	Adult Mode: 10-250mmHg pédiatrique: 13-200mmHg; Mode néonatal: 13-115mmHg
Mean range	Adult Mode:15-260mmHg Pediatric Mode:15-215mmHg Neonate Mode 15-125mmHg
Accuracy	Max mean error: ± 5 mmHg Max standard deviation: 8 mmHg
NIBP resolution	1mmHg
Venous puncture	Yes
Over-pressure protection	Adult/ Pediatric Mode: 297mmHg±3mmHg Neonate Mode:147mmHg±3mmHg
Comen Initial pressure range (mmHg)	Adult: 80-290 mmHg Pediatric: 80-240 mmHg Neonate:60-140 mmHg



## SpO<sub>2</sub>

Meet standard of ISO 80601-2-61.	
Module	Comen, Masimo, Nellcor
Range	Comen/Nellcor: 0 to 100% Masimo: 1 to 100%
Resolution:	1%
Accuracy	Ped/Adu: $\pm 2\%$ (70-100%) Neo: $\pm 3\%$ (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	$\leq 1s$
Dual SpO <sub>2</sub>	Yes, SpO <sub>2</sub> , SpO <sub>2</sub> b, $\Delta$ SpO <sub>2</sub> (Dual SpO <sub>2</sub> brand should be same)

## PR

PR range	30-300 bpm (Comen NIBP)
	20-300 bpm (Comen SpO <sub>2</sub> )
	25-240 bpm (Masimo SpO <sub>2</sub> )
	20-300 bpm (Nellcor SpO <sub>2</sub> )
Accuracy	$\pm 3$ bpm or $\pm 3\%$ , whichever is greater (Comen NIBP) $\pm 2$ bpm (Comen SpO <sub>2</sub> ) $\pm 3$ bpm (non-motion, Masimo SpO <sub>2</sub> ) $\pm 5$ bpm (motion, Masimo SpO <sub>2</sub> ) $\pm 3$ bpm (Nellcor SpO <sub>2</sub> , 20-250 bpm) Not specified (Nellcor SpO <sub>2</sub> , 251 to 300 bpm)

## TEMPERATURE

### Exergen TAT-5000 Thermometer

Temp range	16.0-43.0°C
Temp accuracy	$\pm 0.1^\circ\text{C}$
Temp resolution	0.1°C
Response time	0.04 s
Time displayed on screen	30 s
Battery type	Alkaline 9V
Battery life	15000 lectures

### YHT 107 Infrared ear thermometer

Temp range	34.0°C-42.2°C
Temp accuracy	$\pm 0.2^\circ\text{C}$ ( $\pm 0.4^\circ\text{F}$ ) (35.0°C-42.0°C) $\pm 0.3^\circ\text{C}$ ( $\pm 0.5^\circ\text{F}$ ) (beyond 35.0-42.0°C)
Temp resolution	0.1°C
Time interval of each measurement	$\leq 12s$
Automatic power off time	60s $\pm 10$ s
Measurement duration	$\leq 2s$
Power supply	DC 3V (-10%, 5%), 2 x 1.5V AA alkaline batteries
Wireless connection Bluetooth	Bluetooth

### HTD8808C Forehead Thermometer

Temp range	34.0°C-42.9°C
Temp accuracy	$\pm 0.2^\circ\text{C}$ (35.0-42.0°C) $\pm 0.3^\circ\text{C}$ (34.0-34.9°C et 42.1-42.9°C)
Temp resolution	0.1°C
Measuring distance	0.1cm-15cm (0.04"-5.9")
Measuring time	$\leq 2s$
Auto power off time	$\leq 18s$
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	$\pm 0.3^\circ\text{C}$
Temp resolution	0.1°C
Response time	1-2 s
Battery life	15,000 temperatures
Battery Type	3 x AAA batteries

### Filac™ 3000 EZ Thermometer

Temp accuracy	Quick Mode (Oral): $\pm 0.3^\circ\text{C}$ ( $\pm 0.6^\circ\text{F}$ ) Standard Mode (Axillary/Rectal): $\pm 0.1^\circ\text{C}$ ( $\pm 0.2^\circ\text{F}$ ) Direct Mode: $\pm 0.1^\circ\text{C}$ ( $\pm 0.2^\circ\text{F}$ )
Temp range	30.0-43.0°C (86.0-109°F)
Temp resolution	0.1°C
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)
Type de batterie:	4AA Alkaline 1.5V batteries)
Battery life	6,000 temperatures

### TD 1261F Ear Thermometer

Temp range	32.0°C-43.0°C
Temp accuracy	$\pm 0.2^\circ\text{C}$ ( $\pm 0.4^\circ\text{F}$ ) (36.0°C-39.0°C) $\pm 0.3^\circ\text{C}$ ( $\pm 0.5^\circ\text{F}$ ) (34.0-35.9°C and 39.1-42.2°C)
Temp resolution	0.1°C
Battery	2 x 1.5 V AA alkaline batteries
Wireless connection	Bluetooth

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## RESPIRATION RATE (FROM COMEN SpO<sub>2</sub>)

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

## DATA REVIEW

NIBP measurement	5000 groups
Tabular trend	240 hours (1 second resolution)
Graphic Trend	240 hours (1 second resolution)
Alarm events/Score review/ CCHD review	1000 groups

## 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 SUPPORT TOOLS (CST)

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	support
Keyboard & mode	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	48mm
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
Temps de chargement hors tension:	≤ 3h to 90% in 2500mAh ≤ 4.5h to 90% in 5000mAh
Charge time	Power off : ≤ 7.5h to 90% in 2500mAh Power on: ≤ 11.5h to 90% in 5000mAh

## ENVIRONMENT REQUIREMENTS

Storage	10-95% (non-condensing)
Humidity Operating	15-95% (non condensé)
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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NC7 is a COMEN monitor proposed by **SPENGLER MEDICAL**  
Medical devices of class IIb CE0123 compliant with the European regulation in force relating to medical devices.

**Mandatory service maintenance every 2 years.**

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