At The Point of Care

INFINIUM®

CLEO2™ Vital Signs Monitor

Introducing the CLEO2™

INFINIUM®

Vital Signs Monitoring System

Available with ***NIBP ▿ SpO2 ▿ Temp ▿ Pulse ▿ EtCO2***

TOUCHSCREEN: 10.1-inch high-resolution, multi-touch capacitive touchscreen display, featuring an intuitive user interface

OPERATION MODES: Workflows for continuous monitoring or spot check

SpO_2 TECHNOLOGY: Options include Nellcor, or Infinium

NIBP: Measures with manual, automatic, average, and STAT modes for flexibility in clinical applications

ETCO2: Optionally available with integrated sidestream $EtCO_2$ with measurements of $EtCO_2$, & awRR with waveform display

PATIENT SCORING: Early warning scoring systems like MEWS and NEWS for clinical decisions. Customizable scoring systems

PATIENT DATA: Quickly access up to 120 hours of patient trend data

NETWORKING & INTEROPERABILITY: Wired or wireless configurations. Bi-directional HL7 communication with HIS/EMR systems

PRACTICAL ATTACHMENTS: Connect a barcode scanner, keyboard, or mouse to enhance your workflow

OPTIONAL INFRARED TEMP: Highly accurate temperature measurement with infrared technology from Infinium or Exergen

OPTIONAL PRINTER: Integrated thermal printer for parameters & waveforms. 60mm, up to 3 channels

OPTIONAL ROLLING STAND

Includes:

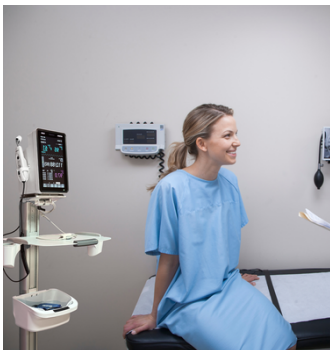
Internal rechargeable lithium batteries; standard configuration includes one battery (up to 4 hours operation), expandable to two batteries for up to 8 hours of operation. Accessory Kit for Adults including SPO2 Finger Sensor and NIBP Cuff. Power Cord.

Enhance Patient Care, Team Efficiency, & User Experience

The CLEO2 Vital Signs Monitor offers a range of tools and adaptable operating modes to suit various clinical needs. Built with transmission capabilities, it allows clinicians to send monitoring data from the bedside, simplifying workflows, increasing operational efficiency, and reducing potential errors. Network features enable centralized access to patient information. Wireless connectivity supports movement between patients and direct data transfer to compatible systems. As a provider of vital signs monitoring solutions, Infinium Medical focuses on practical, high-value devices for healthcare professionals. The CLEO2 supports cost-effective ownership through compatibility with standard networks, durable construction, and reliable performance when maintained per guidelines.

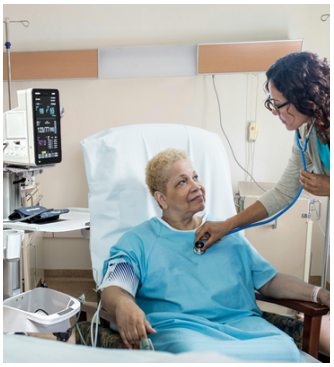
Connect. Measure. Transmit.

At the bedside, clinicians can enter patient information and send vital signs data to connected systems, improving workflow.



Interoperability Features

View multiple patient trends centrally via network connections Links to hospital systems with HL7 protocol support for bidirectional communication and report access. Includes Ethernet port, multiple USB interfaces, and WLAN for wireless options.

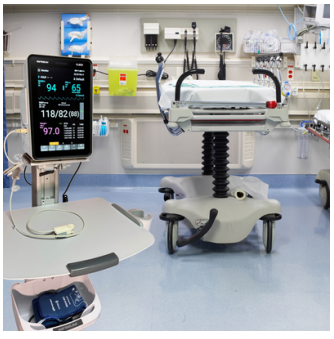


Quality and Durability

Constructed with materials rated for clinical use, including IPX2 protection against water ingress. Designed to maintain performance in specified environmental conditions.Mobility for

Clinical Use

Compact, portable unit with rechargeable lithium-ion battery providing up to 8 hours runtime with two batteries. Accommodates accessories for easy transport between patients.



CLEO2™ - Specifications

Dimension	7.87" (W) x 10.83" (H) x 6.50" (D) (200 mm (W) x 275 mm (H) x 165 mm (D))	**Sound Volume**	6 levels (OFF, 1-5; default 2)
Weight	≤7.17 lbs (≤3.250 kg) (mainframe, without accessories)	**Speaker IEC 60601-1-8**	Alarm sounds (45-85 dB), button sounds, pulse sounds; multi-level volume
Screen	10.1-inch TFT-LCD, 1280 x 800 pixels at 60 Hz (24-bit colors), multi-touch capacitive touchscreen	**Alarm Output Sound Pressure**	40 dB(A) to 85 dB(A) within 1 meter
Electrical protection	Class I, with internal power. Type CF defibrillation proof for SpO2, NIBP, EtCO2	**Communication Ports**	Ethernet (1000M), 2x USB 2.0, USB Type C; Equipotential, Nurse Call
Water Protection	IPX2 (protection against vertically falling water drops when enclosure tilted up to 15°)	**Ethernet**	IPv4, DHCP/Static IP (default DHCP)
Environment Temp	Operating: 5 °C to 40 °C (41 °F to 104 °F); Storage: -20 °C to 55 °C (-4 °F to 131 °F)	**USB Extensions**	Keyboard, mouse, flash disk, code scanner, hub (limited devices recommended)
Environment Humidity	Operating: 15% to 95% Storage: 10% to 95%	**Layout**	Up to 4 parameters; 32 color sets
Barometric Pressure	80 kPa to 105 kPa (600 mmHg to 788 mmHg)	**Modes**	Monitor Mode, Spot Check Mode
Voltage, Current, Frequency	100 to 240 V 1.3 to 0.5 A 50/60 Hz	**Internal Storage**	8 GB (usable 3 GB)
External DC Power Interface	1 (11.1 V, 5.2 A; requires Class I, IEC 60601-1 certified, 2MOPP adapter)	**External File System**	USB flash disk (FAT32/NTFS)
Battery	Rechargeable lithium, 11.1 V DC, 5200 mAh x 2; Dims 5.7" x 2.5" x 0.85" (145 mm x 64 mm x 21.5 mm); Weight 0.75 lbs (340 g)	**Brightness**	6 levels (0-5; default 3; night mode 0)
Battery Run Time	≥ 8 hours (two batteries, new fully charged, 25 °C (77 °F), normal conditions); ≥ 4 hours (one battery)	**System Time**	24H/12H format; auto-sync with WLAN
Battery Charge Time	OFF: 0-90%: < 4 hours; 0-100%: < 5 hours ON: 0-90%: < 7 hours; 0-100%: < 10 hours	**Patient Data Information Setup**	Indexed by patient ID; 5 x 24 hours trend parameter data; time-sorted patient review; Up to 20 patient sets; data deletion confirmation
Battery Shutdown Delay	≥ 15 minutes (from first low battery alarm)	**Data Export**	USB flash disk; Via Data Manager app over WLAN
Thermal Printer	Thermal dot array, 2.36" (60 mm), 25 mm/s, 1, 2, or 3 channels	**Module Setup**	NIBP, SpO2, EtCO2, Temp
Alarms & Indicators	Alarm lamp (red, yellow, cyan); AC Power (green); Battery Status (green)	**Configurations**	Up to 30; export/import supported
Alarm Levels	High (red, 2 Hz flash), Medium (yellow, 1 Hz flash), Low (cyan)		

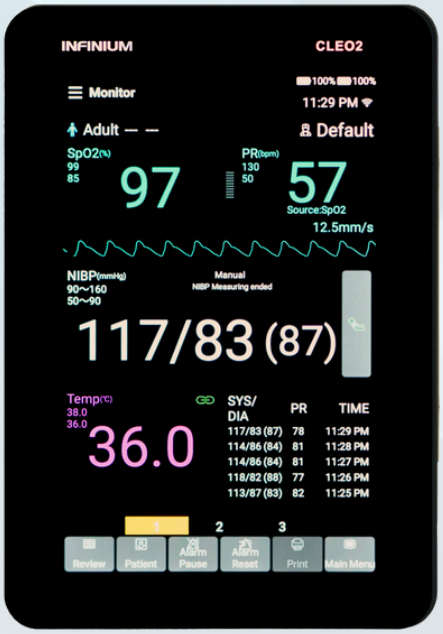
CLEO2™ - Specifications Cont.

Physiological Parameters	SpO2, PR, NIBP-SYS/DIA, EtCO2, awRR, Temp	**NIBP Modes**	Manual, Average, Auto (2-240 min intervals), STAT (5 cycles)
Alarm Lists	Current/history (100 sets each for physiological/technical)	**NIBP Measurement Types**	Oscillometry - Adult, Pediatric, Neonate
Technical Alarms	Sensor off, low battery, hardware malfunction, etc.	**NIBP Features**	Resolution 1mmHg; Defib recovery < 5 s; Inflation memory; Total listings 1024; Max time 180 s (Adult/Ped), 90 s (Neonate); Up to 86,400 historical records
HL7	Two-way, patient management, view report	**NIBP Initial Inflation**	Adult (80-240 mmHg, default 180); Ped (80-240, default 140); Neo (60-120, default 100)
Transmission	Export/import via LAN network (patient data, configurations); History export via PC Data Manager software	**NIBP Static Pressure**	0-300 mmHg, ±3 mmHg
Smart Upgrade	System firmware; automated over network	**NIBP Dynamic Pressure Ranges**	Adult SYS 40-270/DIA 10-210; Ped SYS 40-230/DIA 10-150; Neo SYS 40-135/DIA 10-95 mmHg
SpO2 Features	Sweep speed 12.5 mm/s, 25.0 mm/s, Defib Recovery <5 s; Measurement range 0%-100%; Alarm response ≤12 s	**NIBP Dynamic Accuracy**	Max mean error ±5 mmHg; max std dev 8 mmHg
SpO2 Modules	Infinium, Nellcor	**NIBP Overpressure Protection**	297±3 mmHg (Adult/Ped), 147±3 mmHg (Neo)
SpO2 Resolution	1% (Infinium/Nellcor)	**NIBP PR Range**	40-240 bpm; Accuracy: ±3 bpm or 2%, greater
SpO2 Accuracy (70-100%)	Infinium: ±3% (with motion), ±2% (no motion); Nellcor: ±2% (Adult/Ped), ±3% (Neonate)	**EtCO2 Features**	Infrared absorption; Warm up 10s; Rise time ≤500 ms; Response ≤8 s; Debib recovery <5 s
SpO2 Response Time	≤30 s (Infinium/Nellcor); refresh 1 s	**EtCO2 Flow Rate**	Rate 75 ml/min (±15% or ±15 ml/min, greater); Range 0-150 mmHg (0-20%, 0-20 kPa)
SpO2 Low Perfusion	0.3-20% (Infinium)	**EtCO2 Accuracy**	0-40: ±2 mmHg; 41-76: ±5%; 77-99: ±10%; 100-150: ±(3 mmHg +8%) - 1mmHg resolution
PR (from SpO2) Range	30-250 bpm (Infinium), 20-300 bpm (Nellcor), 25-240 bpm (Masimo) - 1bpm resolution	**awRR Range**	0-150 rpm; Accuracy: ±1 rpm; Res: 1 rpm
PR (from SpO2) Accuracy	Infinium: ±2 bpm (no motion), ±3 bpm (motion); Nellcor: ±3 bpm (20-250 bpm); Masimo: ±3 bpm (no motion), ±5 bpm (motion)	**EtCO2 Gas Interference**	**(±1 mmHg)** - N2O≤ 60 %, HAL≤ 4 %, SEV≤ 5 %, ISO≤ 5 %, ENF≤ 5 %, He≤ 50 %, Xe≤ 100 %, **(±2 mmHg)** - DES≤ 15 %
Temp Features	Infrared method; Response time 0.5s; Resolution 0.1 °C (0.2 °F); Units °C/°F; Comm USB	**Wi-Fi Standards**	IEEE 802.11b/g/n (2.4G); Frequency 2412-2462 MHz (HT20); 2422-2452 MHz (HT40); Modulation DSSS (802.11b), OFDM (802.11g/n)
Temp Sensors	**Infinium** HTD8808C (34.0 °C to 42.9 °C (93.2 °F to 109.2 °F), accuracy ±0.2-0.3 °C (±0.4-0.5 °F)); **Exergen** TAT-5000S (16.0 °C to 43.0 °C (60.8 °F to 109.4 °F), accuracy ±0.1 °C (±0.2 °F))	**Wi-Fi Radiation Power**	<20 dBm (average); <30 dBm (peak)

CLEO2™ Flexible
Vital Signs Monitoring

Spot-Check Applications

Flexible General Use



Available Parameters

NIBP	SpO2	Temperature	Pulse Rate	EtCO2
118 mmHg ART	99 %	98.6 °F	85 bpm	36 mmHg

Modern Tech & Feature Options

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