CLEO

VERSATILITY IN VITAL SIGNS





CLEO



The **Cleo** is a new and intuitive approach to patient vital signs measurement. The **Cleo** can be configured to measure any combination of: non-invasive blood pressure, SpO₂, rapid temperature, and capnography (EtCO₂).

Weighing in at less than 3 LBS the portable **Cleo** is well suited for any patient care area by offering a multitude of vital sign combinations. The **Cleo** can be used as a basic pulse oximeter or configured to a NIPB/SpO2/Temp spot check monitor. **Cleo** can also be configured to be a stand-alone capnograph or combination capnograph/SpO2/NIPB monitor. The **Cleo** is well suited for both bed side and mobile spot check use.

The **Cleo** simplifies clinician use by incorporating a touch screen with a simple user interface making the **Cleo** intuitive for any user. A long life lithium Ion battery is standard and many mobile mounting solutions' are available for the **Cleo**.

Field Upgradeable THERMOMETER



Covidien Filac 3000™

Accurate within >/- 0.3C a Temperature Reading within 4 seconds

The Covidien Filac 3000™ plug-in thermometer module can be installed into the Cleo anywhere and anytime. This simple plug-in module adds the option of a 4 second oral temperature reading brightly displayed on-screen. The Filac 3000™ supports infection control by utilizing single use probe covers and a probe isolation chamber when not in use.



Cost Effective Capnography ENTIDE®



Infinium Entide®

The Infinium Entide® capnography system is a cutting edge low flow End-tidal CO₂ measuring system. The **Entide**® uses a 50/ml per minute sidestream method to deliver the most

accurate EtCO2 readings. Non-proprietary sample lines allows the **Cleo** to be the industry's lowest cost per patient End-Tidal CO2 monitors. The **Entide®** can be used on both intubated and non-intubated patients. The **Entide®** sample line connection system uses filter cells to eliminate the potential of cross contamination.

Mounting Solutions A RELIABLE CONNECTION



ROLLING STAND

Height and tilt adjustable with a large wheel base allows for smooth and stable mobility.

- Quick release slide mount
- Accessory basket
- Medical grade steel construction
- Lockable wheels



WALL MOUNTS

Height and tilt adjustable wall mounts offer.

- Quick release of monitor
- Medical grade construction
- Adaptable to anesthesia machines
- Adaptable to most wall rail systems



CLEO TECHNICAL SPECIFICATIONS:

SAFETY

Meet the requirement of EN60601 series, CE marking according to MDD93/42/EEC

Class I (on AC power), internally powered equipment (on battery power):Per I.E.C. 60601-1, clause 2.2.4 Type of Protection:

Degree of Protection: Type BF, defibrillation-proof CF - Applied part

Sterilization or Disinfection methods: 70% isopropyl alcohol solution or a nonstaining disinfectant.

Equipment not suitable for use in the presence of a flammable anaesthetic mixture with air or with oxygen or nitrous oxide

Operation Mode: Continuous

Protection Against Ingress of Liquids: IPX0

PP			

Neonatal, pediatric and adult patients **PHYSICAL DIMENSIONS & WEIGHT**

Base Unit: 8 x 4.5 x 4 (HxWxD inches)

Weight: 2.5 LBS

PERFORMANCE SPECIFICATIONS

Display: 5.0 inch (Diagonal) color TFT Resolution: 800 × 3(RGB) × 480

Trace: 2 waveforms Waveforms: PLETH, ETC02

Indicator: Alarm Indicator

Power indicator Pulse beep and alarm sound

Trend time: From 1 to 72 hours

NIRP

Measuring Technology: Automatic oscillating measurement

> Cuff Inflating: <30s (0 ~ 300 mmH, standard

> > adult cuff)

Measuring Period: AVE<40s

Manual, Auto, STAT Mode:

Measuring Interval

in AUTO Mode: 2 min ~ 4 hrs Pulse Rate Range: 30 hpm ~ 250 hpm

Measuring Range: Adult/Pediatric Mode SYS: 40 ~ 250 (mmHg) DIA: 15 ~ 200 (mmHg)

> **Neonatal Mode** SYS: 40 ~ 135 (mmHa) DIA: 15 ~ 100 (mmHg)

Resolution: 1mmHa

Pressure Accuracy: Maximum Mean error: ±5mmHg

Maximum Standard

deviation:

8mmHg Overpressure Protection: Adult Mode: 280(mmHg)

Neonatal Mode: 150 (mmHg)

SYS: 50 ~ 240 mmHg Alarm Limit: DIA: 15 ~ 180 mmHa

Standards: Meets performance standards of

ANSI/AAMI SP10:2002

SP02

ASp02: Anti-motion Sp02 Sp02% Range: 0 ~ 100%

±2% (70 ~ 100%,non-motion) Sp02 Accuracy:

±3% (70 ~ 100%, motion)

Pulse Rate Range: 30-250 bpm

Pulse Rate Accuracy: ±2 bpm(non-motion),

±3 bpm (motion)

Upper limit 70 ~ 100%, Alarm Upper-lower Limit:

> Lower limit 70 ~ 100% Red light LED wavelength:

Sp02 Probe: 660nm±5nm

Infrared light LED wavelength: 940nm±10nm

Standards: Meets performance standards

of EN ISO 9919:2005

RAPID TEMPERATURE (OPTION)

Temperature

30°C to 43°C (86°F to 109°F) Measurement Range:

> Typical Oral (Quick Mode):

Measurement Times: 3-5 seconds (non-fever temps), 8-10 seconds (fever temps) (after insertion

Oral (Standard Mode): 6-10 seconds into measurement site):

Axillary Mode: 8-12 seconds Rectal Mode: 10-14 seconds Direct Mode (All Sites): 60-120

seconds

60 Second count with a "beep" at 15

seconds, 2 "beens" at 30 seconds. 1 "beep" at 45 seconds, and 2

"beeps"at 60 seconds

Patient Accuracy: A Standard Prediction Mode reading and a Direct Mode reading will differ

by less than $\pm 0.2^{\circ}\text{C}~(\pm 0.4^{\circ}\text{F})$ on 98%

of tested patients Four "AA" Required. Batteries:

Standard IEC package size. Alkaline --1.5 Volt

Approx. 6000 temperature readings Standards: Meets performance standards of

EN 12470-3:2000.

ASTM E1112:2006

EtCO2 (OPTION)

Mode of Sampling: Sidestream or Mainstream Principle of Operation:

Non-dispersive infrared (NDIR) single beam optics, dual wavelength, no

moving parts.

CO2 measurement Range: 0 to 150 mmHg

(0 to 19.7%, 0 to 20 kPa)

CO2 Calculation Method: BTPS

(Body Temperature Pressure Saturated)

CO2 Resolution: 0.1mmHg (0-69mmHg), 0.25mmHg (70-150mmHg)

CO2 Accuracy: 0 ~ 40 mmHg ± 2 mmHg

41 ~ 70 mmHg ± 5% of reading 71 ~ 100 mmHg ± 8% of reading 101 ~ 150 mmHg ± 10% of reading Above 80 breath per minute ± 12% of

reading 100Hz

Sampling rate: Respiration Rate: 2 ~ 150 bpm Respiration Rate accuracy: ±1 breath Response Time: <3 seconds -

includes transport time and rise time

Inspired CO2 measurement Range:

3 ~ 50 mmHg Standards:

Meets performance standards of ISO/ FDIS 21647:2004 (E), ASTM F1456-01,

IEC/CDV 60601-2-55

NETWORKING

Wired Networking: Industry standard:

802.11b/g wired network Frequency Range: 2.412 ~ 2.484 GHz Connected bedside number:

Up to 16 bedside monitors Up to 100m indoors Wireless Networking:

Industry standard 802.11b/g wireless

Supports TCP/IP and UDP/IP Protocols

POWER

Source: External AC power or internal battery 100 ~ 240VAC, 50/60Hz, 150VA AC Power:

Built-in and lithium Ion rechargeable, Battery: 12.6V/5Ah

Charge Time: 8 hours Operating Time: 3 hours

ENVIRONMENTAL SPECIFICATIONS

Temperature: Operating: 5 ~ 40 °C

Storage: -20 ~ 60 °C Operating: ≤80 %

Humidity Range: Storage: ≤80 %

FIISE 3.15A/250V

LCD SPECIFICATIONS

Display Type: TFT color LCD Size (diagonal): 5.0 inch

Active Area: 152.4 (W) × 91.44 (H) mm

RGB-stripe Color arrangement:

0.0635(W) × 0.1905(H) mm Dot pitch: Normally white, Transmissive Display Mode:

Interface: Digital (TTL) Surface Treatment: Anti-Glare

TOUCHSCREEN SPECIFICATIONS

Type: Four-Wire Analog Resistive Touch Panel

Input Mode: Stylus Pen or Finger Connector: FPC

Insulation resistance: 25MQ Voltage: 7VDC Chattering: 10ms Transparency: 80% Surface hardness: 3H

Durability-surface scratching: Write 100,000

Active force: 80gf

Knock Test: 1,000,000 times



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