

## VERSATILITY IN VITAL SIGNS









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, SpO<sub>2</sub>, rapid temperature, and capnography (EtCO<sub>2</sub>).

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/SpO<sub>2</sub>/Temp spot check monitor. **Cleo** can also be configured to be a stand-alone capnograph or combination capnograph/SpO<sub>2</sub>/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 CAPNOTRACK®



#### Infinium Capnotrack®

**The Infinium Capnotrack**<sup>®</sup> capnography system is a cutting edge low flow End-tidal CO<sub>2</sub> measuring system. The **Capnotrack**<sup>®</sup> 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 **Capnotrack**<sup>®</sup> can be used on both intubated and non-intubated patients. The **Capnotrack**<sup>®</sup> sample line connection system uses filter cells to eliminate the potential of cross contamination.

# Mounting Solutions A RELIABLE CONNECTION



IPX0

#### SAFETY

Meet the requirement of EN60601 series

Type of Protection: Degree of Protection: Sterilization or Disinfection methods:

**Operation Mode:** Protection Against Ingress of Liquids: Class I (on AC power), internally powered equipment (on battery power):Per I.E.C. 60601-1, clause 2.2.4 Type BF, defibrillation-proof CF - Applied part 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 Continuous

#### **RAPID TEMPERATURE (OPTION)**

| APPLICATION  |  | RAPID TEMPERATURE (OPTION) |  | NETWORKING                     |   |
|--|--|----------------------------|--|--------------------------------|---|
| Neonatal, pediatric and adult patients   |  | Temperature                |  | Wired Networking:              | Industry standard:  |
| <b>PHYSICAL DIMENSIONS &amp; WEIGHT</b>  |  | Measurement Range:         | 30°C to 43°C (86°F to 109°F)                                   |                                | 802.11b/g wired network   |
|  | 8 x 4.5 x 4 (HxWxD inches)                   | Typical                    | Oral (Quick Mode):   |                                | Frequency Range:  |
| Weight:  |  | Measurement Times:         | 3-5 seconds (non-fever temps),                                 |                                | 2.412 ~ 2.484 GHz   |
| PERFORMANCE SPECIF   |  | (after insertion           | 8-10 seconds (fever temps)                                     |                                | Connected bedside number:   |
| A DESCRIPTION OF A DESC | 5.0 inch (Diagonal) color TFT                | into measurement site):    | Oral (Standard Mode): 6-10 seconds                             |                                | Up to 16 bedside monitors   |
|  | 800 × 3(RGB) × 480                           |                            | Axillary Mode: 8-12 seconds                                    | Wireless Networking:           | Up to 100m indoors  |
|  | 2 waveforms                                  |                            | Rectal Mode: 10-14 seconds                                     | -1 <sup>-2</sup>               | Industry standard 802.11b/g wireless  |
| CONTRACTORS - CONTRACTORS  | PLETH, ETCO2                                 |                            | Direct Mode (All Sites): 60-120                                |                                | Supports TCP/IP and UDP/IP Protocols  |
|  | Alarm Indicator                              |                            | seconds  | POWER                          |   |
| indicator.   | Power indicator                              | Pulse Timer:               | 60 Second count with a "beep" at 15                            | Source:                        | External AC power or internal battery   |
|  | Pulse beep and alarm sound                   |                            | seconds, 2 "beeps" at 30 seconds,                              | AC Power:                      | 100 ~ 240VAC, 50/60Hz, 150VA  |
| Trend time:  | From 1 to 72 hours                           |                            | 1 "beep" at 45 seconds, and 2                                  | Battery:                       | Built-in and lithium lon rechargeable.  |
| NIBP   |  |                            | "beeps"at 60 seconds   |                                | 12.6V/5Ah   |
| Measuring Technology:  | Automatic oscillating measurement            | Patient Accuracy:          | A Standard Prediction Mode reading                             | Charge Time:                   |   |
| Cuff Inflating:  | <30s (0 ~ 300 mmH, standard                  | - 5102000 - 1880000000     | and a Direct Mode reading will differ                          | Operating Time:                |   |
| ouri innating.   | adult cuff)                                  |                            | by less than $\pm 0.2^{\circ}$ C ( $\pm 0.4^{\circ}$ F) on 98% | <b>ENVIRONMENTAL SPEC</b>      | 101101000   |
| Measuring Period:  | AVE<40s                                      |                            | of tested patients   |                                | Operating: 5 ~ 40 °C  |
| Measuring Feriou.<br>Mode:   | Manual, Auto, STAT                           | Batteries:                 | Four "AA" Required.  | Tomporatare.                   | Storage: -10 ~ 45 °C  |
| Measuring Interval   | Maliual, Auto, STAT                          |                            | Standard IEC package size.                                     | Humidity Range:                | Operating: ≤80 %  |
| and the CP in the result of the second of the second   | 2 min ~ 4 hrs                                |                            | Alkaline1.5 Volt   | numury nungo.                  | Storage: ≤80 %  |
| Pulse Rate Range:  | 2 mm ~ 4 ms<br>30 bpm ~ 250 bpm              |                            | Approx. 6000 temperature readings                              | FUSE                           | Storage. Soo //   |
|  | Adult/Pediatric Mode                         | Standards:                 | Meets performance standards of                                 | 3.15A/250V                     |   |
| weasuring hange.   | SYS: 40 ~ 250 (mmHg)                         |                            | EN 12470-3:2000,   |                                |   |
|  | DIA: 15 ~ 200 (mmHg)                         |                            | ASTM E1112:2006  | LCD SPECIFICATIONS             | TET as los LOD  |
|  | Neonatal Mode                                | EtCO2 (OPTION)             |  |                                | TFT color LCD   |
|  | SYS: 40 ~ 135 (mmHq)                         | Mode of Sampling:          | Sidestream or Mainstream                                       |                                | 5.0 inch  |
|  | ( 3,   | Principle of Operation:    | Non-dispersive infrared (NDIR) single                          |                                | 152.4 (W) × 91.44 (H) mm  |
| Resolution:  | DIA: 15 ~ 100 (mmHg)<br>1mmHg                |                            | beam optics, dual wavelength, no                               | Color arrangement:             | A segment of these less   |
| Pressure Accuracy:   | Maximum Mean error: ±5mmHg                   |                            | moving parts.  | 1000 C 1000 C 1000 C 100       | 0.0635(W) × 0.1905(H) mm  |
| Maximum Standard   | Maximum Mean error. ±5mmny                   | CO2 measurement Range:     | 0 to 150 mmHg  | Display Mode:                  |   |
| deviation:   | 8mmHg  | oon mousaisment hanger     | (0 to 19.7%, 0 to 20 kPa)                                      | Interface:                     | Digital (TTL)   |
| Sole tracks which they pould a   | Adult Mode: 280(mmHg)                        | CO2 Calculation Method:    | BTPS   | Surface Treatment:             |   |
| overpressure Protection.   | Neonatal Mode: 150 (mmHg)                    |                            | (Body Temperature Pressure Saturated)                          | TOUCHSCREEN SPECIF             | N 23 19   |
| Alorm Limit:   | SYS: 50 ~ 240 mmHg                           | CO2 Resolution:            | 0.1mmHq (0-69mmHq),  |                                | Four-Wire Analog Resistive Touch Panel  |
| Alann Linn.  | DIA: 15 ~ 180 mmHq                           |                            | 0.25mmHg (70-150mmHg)  |                                | Stylus Pen or Finger  |
| Standards:   | Meets performance standards of               | CO2 Accuracy:              | $0 \sim 40 \text{ mmHg} \pm 2 \text{ mmHg}$                    | Connector:                     | 4.25 (34)   |
| Stanuarus.   | ANSI/AAMI SP10:2002                          |                            | $41 \sim 70 \text{ mmHg} \pm 5\% \text{ of reading}$           | Insulation resistance:         | 25ΜΩ  |
| SP02   | ANSI/AAMI 51 10.2002                         |                            | 71 $\sim$ 100 mmHg ± 8% of reading                             | Voltage:                       |   |
|  | Anti motion SnO2                             |                            | $101 \sim 150 \text{ mmHg} \pm 10\% \text{ of reading}$        | Chattering:                    | 10ms  |
| 252 (1996) (1977) (1977)   | Anti-motion Sp02                             |                            | Above 80 breath per minute $\pm 12\%$                          | Transparency:                  | 80%   |
| Sp02% Range:   |  |                            | of reading   | Surface hardness:              | 3H  |
| Spuz Accuracy:   | ±2% (70 ~ 100%,non-motion)                   | Sampling rate:             |  | Durability-surface scratching: | The second |
| Duloc Data Danza   | ±3% (70 ~ 100%, motion)                      | Respiration Rate:          |  | Active force:                  | 80gf  |
| Pulse Rate Range:  |  | Respiration Rate accuracy: |  | Knock Test:                    | 1,000,000 times   |
| Pulse Rate Accuracy:   | ±2 bpm(non-motion),<br>±3 bpm (motion)       | Response Time:             |  |                                |   |
| Alarm Unnar Jawar Limit.   |  |                            | includes transport time and rise time                          |                                |   |
| Alarm Upper-lower Limit:   | Lower limit 70 ~ 100%,                       | Inspired CO2               |  |                                |   |
| SpO2 Probe:  | Red light LED wavelength:                    | measurement Range:         | 3 ~ 50 mmHg  |                                |   |
| Shor 5006:   | 660nm±5nm                                    |                            | Meets performance standards of ISO/                            |                                |   |
|  |  |                            | FDIS 21647:2004 (E), ASTM F1456-01,                            |                                |   |
|  | Infrared light LED wavelength:<br>940nm±10nm |                            | IEC/CDV 60601-2-55   |                                |   |
| Standards:   | Meets performance standards                  |                            |  |                                |   |
| Standalus.   | of EN ISO 9919:2005                          |                            |  |                                |   |
|  | 01 LN 130 3313.2003                          |                            |  |                                |   |



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