

## 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. 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 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) 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), ±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: 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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