

# Autocorr® Plus Pulse Oximeter/ECG Monitor w/SAC Technology (Serial Autocorrelation)



## Pulse Detection Taken To The Next Level PLUS.....

The BCI, Inc. Autocorr® Plus Pulse Oximeter/ECG monitor is more than a transportable pulse oximeter – it is your cost-effective solution to multi-parameter monitoring. The Autocorr® Plus monitor, the fourth in the Clarity® Series of BCI monitors, uses patented Serial Autocorrelation (SAC) pulse oximetry technology, along with 3 or 5 lead ECG, and respiration. Combine this device with the other Clarity® Series Monitors to provide a flexible, practical solution to meet the needs of your challenging clinical environments.



- ◆ Bright, dual trace electroluminescent display
- ◆ Standard with SAC pulse oximetry technology
- ◆ 3 or 5 lead ECG with pacemaker detect/reject and respiration
- ◆ Optional recorder provides for high-resolution graphics printing
- ◆ Optional mounting assemblies available



# Autocorr® Plus Pulse Oximeter/ECG

## SPECIFICATIONS (Nominal):

### Displays:

|                                 |  |
|---------------------------------|--|
| Display                         | Electroluminescent   |
| Resolution                      | 160 x 80 pixels  |
| Waveforms                       | ECG, Plethysmogram   |
| Graphic Trends                  | SpO <sub>2</sub> , Pulse Rate (Heart Rate), Pulse Signal Strength & Respiration                                |
| SpO <sub>2</sub>                | 3-digit (LED display)<br>0.56 inches (14.2 mm) high  |
| Pulse Rate/<br>Heart Rate (ECG) | 3-digit (LED display)<br>0.43 inches (10.9 mm) high  |
| Pulse Strength                  | Logarithmically scaled 10-segment<br>LED bar graph   |
| Respiration                     | 3-digit 10 x 14 pixel font (EL Panel)  |
| Indicators:                     |  |
| Low Battery                     | LOW BATTERY message when<br>10 minutes of battery life remain  |
| Audio Disabled                  | SILENCED BELL icon indicates<br>temporary or indefinite status   |
| Asystole Alarm                  | ALARM LED will flash, ASYSTOLE<br>message on screen flashes  |
| SpO <sub>2</sub> Sensor         | Message indicates sensor problem   |
| SpO <sub>2</sub> Search         | Message indicates monitor is searching<br>for a pulse  |
| Artifact                        | Message indicates presence of excess<br>motion or other artifact   |
| ECG/Lead Fail<br>Charge         | Message indicates a lead disconnect condition<br>Green LED indicates external power<br>and battery is charging |
| Pace Detect                     | A line appears on screen when pacemaker<br>signal is detected  |

### SpO<sub>2</sub>:

|   |   |
|---|---|
| Range   | 0-100%  |
| Accuracy  | ±2% @ 70-100% ±3% @ 50-69%  |
| Alarm Range   | High: 50-100% & Off (1% steps)<br>Low: 50-100% & Off (1% steps)             |
| Averaging   | 8, 16 pulse beat average  |
| Pulse Rate (SpO <sub>2</sub> ) or Heart Rate (ECG): |   |
| Range   | 30-254 bpm  |
| Accuracy  | > of ±2% or ±2 bpm  |
| Alarm Range   | High: 30-254 bpm & OFF (1 bpm steps)<br>Low: 30-254 bpm & OFF (1 bpm steps) |
| Averaging   | 8 or 16 second average  |

### ECG:

|                  |  |
|------------------|--|
| Configuration    | 3- or 5-lead   |
| Lead Selection   | I, II, III, aVR, aVL, aVF and V                              |
| Gain             | X1, X2, X4, X8   |
| Pace Detect      | Yes  |
| Pace Reject      | Yes  |
| Sweep Speed      | 12.5 or 25 mm/sec  |
| Respiration:     |  |
| Measuring Method | Impedance Pneumography                                       |
| Rate             | 5 to 150 breaths/min   |
| Accuracy         | > of ±2% or ±2 breaths/min over full range                   |
| Dimensions:      | 3.5" H x 10.0" W x 5.5" D<br>88.9mm H x 254mm W x 139.7 mm D |
| Weight:          | 5 pounds (2.27 kg)   |

### AC Charger Power Requirements:

|            |   |
|------------|---|
| Wall Mount | 105-125V ~, 60 Hz<br>100V ~, 50 Hz (optional) |
| Table Top  | 230V ~, 50/60 Hz                              |

### Battery Life:

#### Standard Lead - Acid battery:

- Internal rechargeable; not user replaceable
- Approximately 45 minutes continuous use
- Fully charges in 6 hours

### Printer Output:

|               |   |
|---------------|---|
| Serial/Analog | RS232C serial output of data<br>Optional digital (remote alarm) interface |
|---------------|---|

### Printer (Optional):

Catalog #3408 Printer provides data log (Interval) trends & waveform printouts

### Environmental Specifications:

|                                       |  |
|---------------------------------------|--|
| Operating Temperature                 | 0° - 55° C   |
| Storage Temperature                   | -40° - 75° C (-40° - 167° F)                                   |
| Relative Humidity<br>(non-condensing) | 10-95% (storage)<br>15-95% (operating)                         |
| Safety Standards:                     |  |
| Safety                                | EN60601-1, EN60601-1-1, UL 544,<br>CSA Std. C22.2 No. 125-1984 |
| EMC                                   | EN60601-1-2  |

### MDD Version Available

#### Ordering Information:

|           |                          |
|-----------|--------------------------|
| #3404-001 | Oximetry/ECG/Respiration |
| #3404-000 | Oximetry Only Version    |

## SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

Please read the Instructions for Use supplied with the product for detailed instructions, warnings, and cautions.

### Q-Line for U.S.A. Customers

Call our Q-Line at 1-800-348-1842 for emergency and clinical application information 24 hours a day, 365 days a year. Experienced Clinical Specialists will return your call and assist with any questions you have.

For more information, or for the name of your BCI representative, contact BCI, Inc.

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