

## DRE's light, portable monitor measures Temp, NIBP, ECG and SpO<sub>2</sub>

At less than 1.3 kg (2.87 lbs), the DRE Axis 4 provides vital signs monitoring that is mobile and accurate. It has a crisp, easy-to-read monographic LCD screen that displays waveforms for ECG leads I, II and III. The Axis 4 also displays data for SpO<sub>2</sub>, heart rate, pulse rate, SYS, DIA, mean, temp, time, battery status, alarm status, contrast, beep and alarm sound status, and trends.



### ► A Quick Look

- Mobile monitoring: Provides up to three hours of on-the-move battery operation (up to five hours of battery operation for ECG-only use)
- Designed for desktop, IV pole mount and handheld use
- Demo mode for staff training
- Monitors small, medium and large animals
- Features a tabular trend display

**Technical Specifications**

► **Display**

Screen Type .....	Monographic LCD
Resolution .....	240 x 64 pixels
Waveform Type .....	ECG leads I,II,III
Indicator .....	AC power or battery operated indicators
Display Data .....	SpO <sub>2</sub> , heart rate, pulse rate, SYS, DIA, mean, temp, time, battery status, alarm status, contrast, beep and alarm sound status, trend

► **Trends**

Memory .....	15 day at 10 second intervals
Display .....	Tabular

► **Interface**

S/W Upgrade .....	RS-232
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► **Performance**

**ECG**

Leads .....	3-lead I, II, III
Display Sensitivity .....	1.0 cm/mV ±10%
Gain Selection .....	x0.25, x0.5, x1
Frequency Response .....	0.5 ~ 40Hz
Sweep Speed .....	25 mm/sec, 50 mm/sec
Pacemaker Detection .....	Yes
Heart Rate Range .....	30 ~ 300 bpm
Heart Rate Accuracy .....	± 3% or ± 3 bpm (whichever is greater)

**Pulse Oximetry (SpO<sub>2</sub>)**

Measurement Range .....	0 to 100%
- SpO <sub>2</sub> .....	0 to 100%
- Pulse Rate .....	25 to 300 bpm
Accuracy .....	
- SpO <sub>2</sub> .....	70 to 100% ±2%, 0 to 69% - unspecified
- Pulse Rate .....	25 to 250 bpm ±3 bpm

**Temperature**

Measurement Range .....	15° to 45° C (59° to 113° F)
Accuracy .....	± 0.1 C (25° to 45° C); ± 0.2 C (15° to 24° C)
Probe Type .....	Compatible with YSI 400 series

**NIBP**

Technique .....	Oscillometric
Measurement Range .....	
- Large Animal .....	SYS: 30 ~ 270 mmHg DIA: 10 ~ 220 mmHg Mean: 20 ~ 235 mmHg
- Medium Animal .....	SYS: 30 ~ 235 mmHg DIA: 10 ~ 220 mmHg Mean: 20 ~ 225 mmHg
- Small Animal .....	SYS: 30 ~ 135 mmHg DIA: 10 ~ 110 mmHg Mean: 20 ~ 125 mmHg
Cuff Pressure Range .....	0 ~ 280 mmHg
Pressure Accuracy .....	±2% or ±3 mmHg (whichever is greater)
Static .....	±5 mmHg average error
Clinical .....	8 mmHg standard deviation
Pulse Rate Measuring Range .....	40 ~ 240 bpm
Inflation Time for Cuff .....	Less than 40 sec. (standard adult cuff)

**NIBP continued**

Total Cycle Time .....	20 to 45 seconds typical (dependent on heart rate and motion artifact)
Intervals for AUTO Measurement Time (min) .....	5, 10, 15, 30, 60, 90, 120
Overpressure Protection .....	Hardware and software double protections
Large Animal .....	315±10 mmHg
Medium Animal .....	265±10 mmHg
Small Animal .....	155±10 mmHg

► **Electrical Ratings**

**AC Power**

Input Voltage .....	100 ~ 240VAC, 50/60Hz
Output Voltage .....	12VDC, 3.5A

**Battery**

Type .....	Li-ion
Battery Run Time .....	3 hours Up to 5 hours for ECG only

► **Environmental Conditions**

**Temperature**

Operating .....	5° ~ 40° C (41° ~ 104° F)
Storage .....	-20° ~ 60° C (-4° ~ 140° F)

**Humidity**

Operating .....	15 ~ 95% , non-condensing
Storage .....	10 ~ 95% , non-condensing

► **Physical Dimensions**

Weight .....	1,300g (1.3 kg, 2.87 pounds)
Size .....	85 mm/3.3" (H) x 245 mm/9.6" (W) x 84 mm/3.3" (D)

► **Alarms**

Audible and Visual Alarms .....	SpO <sub>2</sub> , pulse rate, heart rate, SYS, DIA, mean, temp, low battery, ECG lead off, SpO <sub>2</sub> finger off, system error
Silence .....	2 minutes
Volume .....	0 (off) ~ 7

