

## LIGHTNING MULTI-PARAMETER MONITOR WITH IBP MODULE

VSL-LIGHT-CO2-IBP-OFFER



### PRODUCT DESCRIPTION

## A fully featured, veterinary specific, multi-parameter monitor.

**CO<sub>2</sub>, SPO<sub>2</sub>, ECG, NIBP, Respiration, Dual temp 400 series + IBP, the Lightning monitor delivers full monitoring performance in a robust, compact unit.**

The Lightning multi-parameter monitor from Vetronic Services is a fully featured, veterinary-specific monitor. Lightning is simple to use and can be turned on and connected to the patient in seconds. Using our own embedded software means the time from turn on to display of monitoring data is just four seconds. Lightning has been designed to fit the needs of small animal practitioners, large animal practitioners and research establishments alike.

With a monitoring range catering for exotic species, the Lightning monitor is capable of measuring heart rates up to 600bpm (ECG) and 450bpm (Pulse-Oximetry). A dual-channel invasive blood pressure module allows simultaneous monitoring of arterial and venous lines and the dual-channel temperature module provides two temperature values (as well as the difference or delta value).

Information is displayed on an intuitive, simple to use colour touchscreen, with a user-configurable layout with the functionality to easily add or remove traces. When connected to a PC using either the USB cable (included) or the optional wireless link, all monitoring data is shown on our VitalMonitor software program and can be recorded for future review. A second program, VitalStore, allows a full review of your data and can automatically produce anaesthetic record charts as well as ECG and other monitoring reports.

The ECG review feature allows full measurement of the ECG waveform, along with mean heart rate and VVTi calculations.

#### Key Features:

- Combines the Vetronic Sentinel and VitalStore systems into one easy to carry unit
- 6-inch colour touchscreen
- Portable, battery-powered unit
- Lightning weighs just 1.4kg when fully fitted
- Supports the following modules: ECG, Pulse-Oximetry, Capnography, Agent, NIBP, IBP, Temperature, Wireless, USB stick

- Single channel or six-lead ECG module option
- ECG noise suppression filter
- Fully diagnostic ECG with supporting software
- Single or dual-channel IBP available
- Dual-channel temperature as standard
- 50ml per minute microsampling sidestream rate
- PC connection via USB cable or wireless
- Full data recording
- Suitable for general practice and research
- Comes with a full PC software suite for monitoring and recording all your data
- Designed and manufactured in the UK

**The Lightning comes supplied with everything you need to use the unit out of the box, including (depending on modules requested):**

1 x EN-AC-FG-A022 Transit Aluminium Equipment Flight Case  
 1 x Lightning "Quick Guide"  
 1 x CD with files  
 1 x VS0450 USB Stick  
 1 x ESA24-09-01 Vetronic Medical Devices Mains Charger 9v  
 1 x VS0130 USB 2.0 A Male to B Male Cable, 2m

#### General Specifications:

|               |                                                                                                                                                                            |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Weight:       | 1.4kg (all options fitted)                                                                                                                                                 |
| Dimensions:   | 225mm x 205mm x 80mm                                                                                                                                                       |
| Power:        | Internal lithium polymer battery pack, 7.4v 3.8Ah capacity. 9V 20W DC universal input mains charger                                                                        |
| Connectivity: | USB: 2.0 compliant, B connector for direct PC connection; 2.0 compliant A connector for use with external USB stick. Wireless: Enhanced Bluetooth 2.4GHz link to remote PC |
| Mounting:     | Optional pole mount, wall mount, or cage hanger                                                                                                                            |

#### ECG Module:

|                  |                                                               |
|------------------|---------------------------------------------------------------|
| Type:            | Fully isolated single-channel or six-lead. Diagnostic quality |
| Range:           | +/- 5mV, 6 to 600bpm                                          |
| Input impedance: | 5MOhms                                                        |

#### Pulse-Oximetry module

|                |                                                |
|----------------|------------------------------------------------|
| Sensor Type:   | Dual-beam (red/IR) transmission or reflectance |
| Range:         | 18-450bpm, 0 to 100% saturation                |
| SpO2 accuracy: | 10- 100% +/- 2%                                |
| Rate accuracy: | +/- 3%                                         |

#### Dual Temperature Module

|           |                                                     |
|-----------|-----------------------------------------------------|
| Range:    | 10° to 45°C (50° to 113° F)                         |
| Sensors:  | 2 x industry-standard 400-series thermistor sensors |
| Accuracy: | +/- 0.1 degree                                      |

## NIBP Module

|                          |                                                                  |
|--------------------------|------------------------------------------------------------------|
| Measurement method:      | Oscillometric                                                    |
| BP range:                | Systolic: 40-265mmHg                                             |
|                          | MAP: 27-222mmHg                                                  |
|                          | Diastolic: 20-200mmHg                                            |
| Pulse rate range:        | 25-300bpm                                                        |
| Start-up initialisation: | 7 seconds                                                        |
| Supported cuff sizes:    | Neonate #1 (3-6cm) to Neonate #5 (8-15cm), plus human cuff sizes |
| Sampling modes:          | Manual or Automatic                                              |
| Automatic interval:      | 1-120 minutes in one-minute steps                                |

## ADDITIONAL INFORMATION

|                         |                              |
|-------------------------|------------------------------|
| <b>Animal</b>           | Mixed                        |
| <b>SKU</b>              | VSL-LIGHT-CO2-IBP-Offer      |
| <b>Screen Type</b>      | Full Colour, Touchscreen     |
| <b>Power Source</b>     | Battery, Mains, Rechargeable |
| <b>Optional Modules</b> | Yes                          |

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