



# Guardian Lite

## VETERINARY MONITOR

The Guardian Lite puts reliable monitoring technologies at your finger tips. With its accurate readings and optimized performance, the Guardian Lite can meet basic monitoring needs, bringing you easy access to high quality healthcare for all animals.



- High resolution color TFT-LCD screen
- Pacemaker detection
- Defibrillation and electrosurgical interference protection
- Pitch tone (Pulse-tone modulation)
- Unique iSEAPT<sup>TM</sup> algorithm which is specially optimized for arrhythmia patients
- Dual-mode anti-interference pulse oximetry
- SP10 Validated NIBP
- Built-in rechargeable Li-ion battery
- Nurse call
- VGA output (optional)
- Suitable for adult, pediatric and neonatal patients



Standard Parameters: 3/5-lead ECG, RESP, DVMPro, SpO<sub>2</sub>, NIBP, PR, 2-TEMP

Optional: 2-IBP, Respironics CO<sub>2</sub>, DVMPro G2 CO<sub>2</sub>, Thermal Recorder, WLAN Accessory Kit

**500**  
NIBP Measurement Review

**96 h**  
Trend Review

**60**  
Alarm Review

**720 s**  
Frozen Waveform



## Seamless Connectivity

The Wi-Fi connectivity of the Guardian Lite enables healthcare providers to monitor their patients' health status from almost anywhere. Connecting it with DVMPro MFM-CMS software, you may log on from any PC/Tablet and check the status of your patients.



## DISPLAY MODES



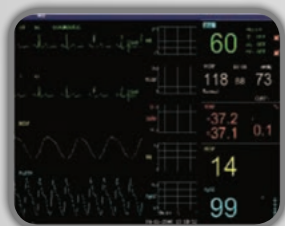
3/5-lead ECG Analysis



OxyCRG for Neonate



Large Font



Trend Screen

## End Tidal Carbon Dioxide Monitoring



### DVMPro G2 CO<sub>2</sub> (Sidestream)

- Superior water trap design for accurate monitoring
- iCARB™ algorithm with intelligent CO<sub>2</sub> pseudo wave identification technology
- Multiple sampling accessories as options

### Respironics CO<sub>2</sub> (Mainstream/Sidestream)

- Plug & play module design
- Dehumidification tube instead of water trap
- Low sampling rate of 50mL/min

### Respironics CO<sub>2</sub> (Mainstream/Sidestream, Optional)



- Proven ruggedness - Solid state design
- No need to calibrate on a regular basis
- Sidestream sampling rate of 50mL/min

## SPECIFICATION

### Physical Specification

Device Dimension:  
320 mm (L) x 150 mm (W) x 265 mm (H)  
Weight: approx. 5 kg

### Display

ColorTFT LCD: 12.1"  
Resolution: 800x600  
Traces Displayed: Up to 8  
Waveforms Displayed: Up to 11  
Sweep Speed: 6.25, 12.5, 25, 50 mm/s

### ECG

Lead Type: 5-lead and 3-lead selectable  
Gain: Auto, x 0.125, x 0.25, x 0.5, x 1, x 2, x 4  
Sweep Speed: 6.25, 12.5, 25, 50 mm/s  
ECG HR Range:  
Adult: 15-300 bpm  
Pediatric / Neonate: 15-350 bpm  
Resolution: 1 bpm  
Accuracy: ±1 bpm or ±1% (whichever is greater)  
Filter:  
Diagnostic Mode: 0.05 ~ 150 Hz  
Monitoring Mode: 0.5 ~ 40 Hz  
Surgical Mode: 1-20 Hz  
ST-Segment Detection:  
Measurement Range: -2.0 mV~2.0 mV  
Alarm Range: -2.0 mV~2.0 mV

### RESP

Method: Trans-thoracic impedance  
Operation Mode: Auto/Manual  
RR Measurement Range:  
Adult: 0-120 rpm  
Neonate/Pediatric: 0-150 rpm  
Resolution 1 rpm  
Apnea Alarm Threshold:  
10, 15, 20, 25, 30, 35, 40 s  
Band Width: 0.2-2.5 Hz (-3 dB)  
Sweep Speed: 6.25, 12.5, 25, 50 mm/s

### SpO2

Measurement & Alarm Range:  
0-100% (DVMPro SpO2)  
Resolution: 1%;  
Accuracy: ±2% (70-100%, AdultU/  
Pediatric)  
±3% (70-100%, Neonate)  
PR Measurement:  
Resolution: 25-300 bpm  
1 bpm  
Refresh Rate: 1 second

### NIBP

Method: Automatic Oscillometric  
Operation Modes: Manual/Automatic/  
Continuous  
Auto Measurement Time Interval:  
1, 2, 3, 4, 5, 10, 15, 30, 60, 90,  
120, 240, 480 minutes  
Measurement Unit: mmHg/kPa  
Measurement Types: Systolic, Diastolic,  
Mean, Pressure Range:  
Adults:  
Systolic: 40-200 mmHg  
Diastolic: 10-160 mmHg  
Mean: 20-235 mmHG  
Pediatrics:  
Systolic: 40-200 mmHg  
Diastolic: 10-150 mmHg  
Mean: 20-165 mmHG  
Neonates:  
Systolic: 40-135 mmHg  
Diastolic: 10-100 mmHg  
Mean: 20-110 mmHG  
Resolution: 1 mmHg  
Accuracy:  
Max Mean Error: ±5 mmHg  
Max Standard Deviation: 8 mmHg  
PR from NIBP Measurement Range:  
40-240 bpm  
Resolution: 1 bpm  
Accuracy: 3 bpm or 3.5%  
(whichever is greater)  
SP10:2002

### IBP (2 Channels, optional)

Measurement Pressure:  
ART, PA, CVP, RAP, LAP, ICP, P1, P2  
Measurement Range: -50-300 mmHg  
Resolution: 1 mmHg  
Accuracy: ±2% or ±1 mmHg  
(whichever is greater, without probe)  
Sensitivity: 5µV/V/mmHg  
Impedance Range: 300-3000Ω

### Philips Respironics Co2 (Optional)

Type: Sidestream/Mainstream  
Range: 0-150 mmHg  
Accuracy: ±2 mmHg 0-40 mmHg,  
±5% 41-70 mmHg,  
±8% 71-100 mmHg,  
±10% 101-150 mmHg  
AwRR Accuracy: ±1 rpm

### Co2 (By DVMPro Instruments, optional) Sidestream

Range: 0-13% (0-100 mmHg)  
Accuracy: ±2 mmHg < 5.0% Co2  
<6% of the reading >5.0% Co2  
Sample Flow Rate: 100-200 mL/min

### Temperature (2 Channels, 1 probe by default)

Measurement/Alarm Range:  
Resolution: 0-50 °C (32-122 °F)  
Accuracy: 0.1 °C  
Channel: ±0.1 °C (without probe)  
Dual-channel. Provide T1; T2; ΔT

### Thermal Recorder (Optional)

Print Speed: 25, 50 mm/s  
Power Supply  
AC Power: 100-240 V AC, 50/60 Hz  
Battery: 14.8 V Rechargeable Li-ion  
Battery