

# ALL PARAMETERS AT A GLANCE, EVEN GRAPHS AND TRENDS

SpO2 only (SPLFV-OX)	SpO2 + Mainstream CO2 (SPLFV-MC) SpO2 + Sidestream CO2 (SPLFV-SE)	
SpO2	SpO2	End-tidal CO <sub>2</sub> (EtCO <sub>2</sub> )
Pulse Rate (PR)	Pulse Rate (PR)	Inspired CO <sub>2</sub> (FiCO <sub>2</sub> )
Perfusion Index (PI)	Perfusion Index (PI)	Respiration Rate (awRR)
Photoplethysmogram	Photoplethysmogram	Capnogram

## **OVERVIEW**

SpotLife Vet is a vital signs monitor that comes in 3 versions for the benefit of the veterinary market. The SpO2 only model helps accurate oximetry monitoring of even the smallest animals thanks to its high performances in low perfusion condition. The 2 other models include capnography (mainstream or sidestream) along with oximetry. They will appear to be indispensable and reliable with intubated animals during surgery. The clear and easy to read LCD will show re-

al-time pleth and capnogram, allowing vets to confirm proper intubation, and whether the animal is in respiratory distress. SpotLife compatible airway adapters allow smooth connection to any anesthesia systems.

Its handle and lightweight make it easy for transport use as well as use in operating theaters. Cost effective, it remains a comprehensive device for multiple applications on a wide range of animals and environments.

### FEATURES -

- Bright, large 5" Color TFT LCD for better readability of all parameters
- · Intuitive user interface
- Selectable Display modes:
  - o digits only, showing parameters values
  - digits and graphs, showing real-time plethysmogram and capnogram/NIBP (according to model)
  - o digits, graph and trends, displaying in addition the historical values.
- 9 LED indicators to easily control patient type, units, power and alarm status
- LAN connectivity to interface with central monitoring system (optional software).

- USB port for easy updates with new software functions (further connectivity and control options, addition of peripherals)
- New patient presets allowing a one step action to set all alarms limits according to patient type (Adult, Child, Neonate).
- 360deg Visible and Audible alarms
- Over 72h trend data with a 1min resolution
- Built-in power supply and 2400mAh lithium battery for 6h continuous monitoring
- Extension port upon request for custom protocols, raw data output for research and other device connectivity.

# **FUNCTIONS**

#### Oximetry (All models):

- Real-time measurement of SpO2, pulse rate (PR), perfusion index (PI), and Variability of Pulse Index (PIV).
- o Real-time photoplethysmogram display
- o High Motion Interference Rejection with advanced anti-movement algorithm
- High accuracy and reliability even with low blood perfusion down to 0.05%, allowing application in OR, ICU and NICU.

#### Capnography (SPLFV-SE and SPLFV-MC models):

- Measurement of EtCO2, FiCO2 and Respiratory Rate (awRR)
- o Real-time capnogram display
- Automatic barometric pressure, temperature compensation and manual anaesthetic gases compensation
- Thermometry (Option TBD):
  - o Body temperature measurement using Fast temperature probe



# **ENVIRONMENTAL CHARACTERISTICS**

#### Operation

Temperature: 0°C ~ 40°C

Humidity: 15% ~ 95%, non-condensing

Atmospheric pressure: 70.0kPa ~ 106.0kPa

### **Storage**

Temperature: -20°C ~ 60°C

Humidity: 10% ~ 95%, non-condensing

Atmospheric pressure: 57.3kPa ~ 106.0kPa

# ELECTRICAL AND MECHANICAL CHARACTERISTICS

### **Electrical Power Supply**

AC: 100 ~ 240V ± 10% (built-in adapter)

Input power: 60VA

Frequency: 50Hz/60Hz ± 3Hz

One equipotential grounding interface

Product Class: IIb (in accordance with MDD93 /42/ EEC)

#### **Battery**

Built-in rechargeable lithium batteries: 11.1 V / 2400mAh

#### Mechanical

Dimensions: 255\*140\*95mm (LxWxH)
Weight: < 2kg (without accessories)

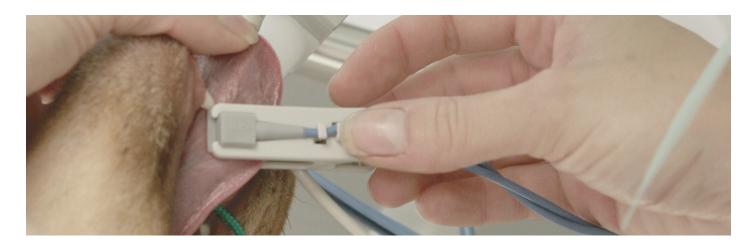
### **INTERFACES**

### Connectivity

- USB interface
- RS232 DB9 interface
- Ethernet Port

#### НМІ

- Five buttons: Power switch, alarm stop, alarm pause, up and down buttons, menu
- Display: 5" Color TFT LCD, 800 x 480pixels
- Audio/Visual Indicators: alarm limit reached, alarm tone, alarm mute, pulse strength, patient ID, patient type, time, battery status.
- LEDs: Adult, neonate, pressure unit or SpO2/PR (according to model), battery in use, battery charging, silenced alarm.
- User Interface language: English, Italian, Hungarian (additional language upon request).



# Performances-

### Oximetry (All models):

- O SP02: Measurement Range: 0 100%, Accuracy Range: 70 100 %, ±2% < 70%, Undefined, Resolution: 1%
- O Pulse Rate: Measurement Range: 25-250 bpm, Accuracy Range: ±2%, Resolution: 1 bpm
- o Pl: Measurement Range: 0-20%, Resolution: 0.001%
- o PIV: Measurement Range: 0-100%, Accuracy Range: Undefined, Resolution: 1%

### Capnography (SPLFV-MC and SPLFV-SE models)

- O METHOD: Infrared radiation absorption technology
- O CO<sub>2</sub> MEASUREMENT RANGE: 0 ~ 20 Vol%
- O Accuracy: 0 ~ 12 %: ± (0.2 Vol% + 2% of reading), 12 ~ 20 %: ± (0.2 Vol% + 6% of reading)
- O MEASUREMENT ACCURACY DRIFT: accuracy requirements within 6 hours
- O RESOLUTION: 0.1 Vol%
- O Accuracy: Mean error: <±5mmHg, Standard deviation: <8mmHg
- O APNEA ALARM DELAY TIME: 20s, 25s, 30s, 35s, 40s, 45s, 50s, 55s, 60s
- O ALARM RANGE: EtCO<sub>2</sub>: 0 ~ 150mmHg, FiCO<sub>2</sub>: 0 ~ 150mmHg, awRR: 0 ~ 150rpm
- O Sampling volume: 50ml/min (applied to SPLFV-SE side-stream model only)

# **O**RDERING

Models	Descriptions
♦SPLFV-OX	➤ SpotLife Oximeter Only, with Adult SpO2 reusable probe
♦SPLFV-MC	SpotLife Oximeter and Mainstream CO2 sensor, with tongue/ear clip SpO2 reusable probe, one set of large/small animal reusable airway adapters
♦ SPLFV-SE	SpotLife Oximeter and External Sidestream CO2 sensor, with tongue/ear clip SpO2 reusable probe, one CO2 microstream disposable canula.

