

smiths medical surgivet®



SurgiVet Advisor® tech Vital Signs Monitor

Intuitive. Adaptable. Reliable.



Smiths Medical offers multiple SurgiVet Advisor® tech Monitor configurations to meet your clinical needs

STANDARD FEATURES

- SpO₂ (Masimo SpO₂ available)
- 3-lead electrocardiogram (ECG)
- 3 modes of ECG: monitor, surgical, diagnostic
- 13 ventricular arrhythmia detection
- ST elevation and depression
- Heart rate
- SunTech® non-invasive blood pressure (NIBP)
- Apnea detection (ETCO₂ module)
- 2-channel temperature
- Drug calculator
- Impedance respiration
- Hemodynamic calculator
- Titration table
- Wi-Fi or Ethernet data download



The 12-inch screen allows for easy-to-view vital signs monitoring at a glance. For your convenience, the intuitive monitors can be controlled via touchscreen, knob or hard keys, and patient vital signs data download via Wi-Fi or Ethernet for each case. Integrated printers are available on monitors including basic and advanced parameters. As your needs change, you can easily upgrade your SurgiVet® Advisor® tech monitor in your practice.

Options and Additional Accessories

Mainstream & Accessories		
Product Code	Description	Units per case
V2710	Sensor, mainstream, capnostat 5	1/ea
V8080	Adapter, airway, mainstream, disposable, medium	10/bx
V8081	Adapter, airway, mainstream, disposable, small	10/bx
V8082	Adapter, airway, mainstream, reusable, large	1/ea
V8083	Adapter, airway, mainstream, reusable, extra small	1/ea
Gas Analyzer & Accessories		
V2711	Analyzer, gas, Masimo ISA OR+	1/ea
V4305	Cable, extension, Masimo ISA OR+	1/ea
V3308	Bracket, mounting, Masimo ISA OR+	1/ea
V5112	Adapter, clamp, Masimo ISA OR+	1/ea
V5113	Clamp, modura, Masimo ISA OR+	1/ea
V7052	Sample line for ISA OR+, NomoLine®	25/bx
V8084	Adapter for ISA OR+, NomoLine®	25/bx

Upgrade Options

Upgrade options are mainstream CO₂, sidestream CO₂, agent analysis and Invasive blood pressure (IBP). To upgrade, you will need to order both the product code and the activation code. The activation code is unique to the serial number of your patient monitor.

Upgradable Parameters

Product Code	Description	Activation Order Code
V2712	Sidestream CO ₂ module	V1002
V2710	Mainstream CO ₂ module	V1002
V2711	Anesthetic agent analyzer	V1005
N/A*	Invasive blood pressure	V1003

* No additional product required

SUPPORT OPTIONS

Clinical Support

The veterinary clinical support team is dedicated to assisting customers with expert information pertaining to the technical and clinical aspects of the SurgiVet Advisor® tech monitor and our complete line of products. Each clinical support representative is a Certified Veterinary Technician with extensive experience and product knowledge.

Product Sales Support

Our USA sales team and global distribution network are committed to customer satisfaction by providing in-service and product training.

Warranty Service

Warranty period for the SurgiVet Advisor® tech monitor is 2 years with comprehensive customer support from Smiths Medical.

Extended Warranty Available

CONTACT US

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SurgiVet Advisor[®] tech Vital Signs Monitor Technical Specifications

Performance Specifications

Display:	12.1 inch color TFT
Trace:	8 waveforms
Waveforms:	ECG (I, II, III, aVR, aVL, aVF, V1-V6), PLETH, RESP, IBP1, IBP2, ETCO2, AG
Indicator:	Alarm indicator Power indicator QRS beep and alarm sound
Trend time:	From 30 minutes to 72 hours

Electrocardiogram (ECG)

Input:	5/3-lead ECG cable and standard AAMI line for connection
Lead choice:	3-Lead: I, II, III 5-Lead: I, II, III, aVR, aVL, aVF, V
Gain choice:	x0.25, x0.5, x1.0, x2.2
ECG Waveforms:	12 channels
Frequency characteristic:	0.67~40 Hz (+3 dB attenuation)
Sweep speed:	12.5, 25, 50, and 100 mm/s
HGR display range:	0~300 bpm
QRS detection range:	High sensitivity -5 mV to 5 mV
Accuracy:	+/-1 bpm or +/-1%, whichever is greater
Alarm limit:	Upper limit: 80~400 bpm Lower limit: 20~150 bpm

Respiration

Measure method:	RA-LL impedance
Range:	0~120 rpm
Accuracy:	+/-3 rpm
Alarm limit:	Upper limit: 8~120 rpm Lower limit: 6~100 rpm
Sweep speed:	6.25, 12.5 and 25 mm/s

Masimo SpO₂

SpO ₂ measurement range:	1~100%
SpO ₂ Perfusion:	0.02~20%
Pulse rate measurement range:	25~240 bpm
SpO ₂ accuracy: (non-motion)	Horse 70~100%: +/-2% Dog 0~69%: unspecified Cat 70~100%: +/-3% 0~69%: unspecified
SpO ₂ accuracy: (motion)	Horse 70~100%: +/-3% Dog 0~69%: unspecified Cat 70~100%: +/-3% 0~69%: unspecified
Pulse rate accuracy: (non-motion)	25~240 bpm: +/-3 bpm
Pulse rate accuracy: (motion)	25~240 bpm: +/-5 bpm
SpO ₂ PR alarm limit:	Upper limit: 70~239 bpm Lower limit: 20~150 bpm

Standard SpO₂

ASpO ₂ :	Anti-motion SpO ₂
SpO ₂ measurement range:	1~100%
SpO ₂ accuracy:	70~100%: +/-2% 0~69%: undefined
Pulse rate measurement range:	25~300 bpm
Pulse rate accuracy:	+/-2 bpm (non-motion) +/-3 bpm (motion)
SpO ₂ alarm limit:	Upper limit: 50~99% Lower limit: 50~99%
SpO ₂ PR alarm limit:	Upper limit: 70~320 bpm Lower limit: 20~150 bpm
SpO ₂ probe:	Red light LED wavelength: 660 +/-5 nm Infrared light LED wavelength: 940 +/- 10 nm

Non-Invasive Blood Pressure (NIBP)

Measuring technology:	SunTech
Measuring methodology:	Automatic oscillating measurement and deflation
Cuff inflating:	<30 s (0~300 mmHg, standard large cuff)
Measuring period:	AVE <40 seconds
Mode:	Manual, auto, STAT
Measuring interval in AUTO mode:	2 minutes~4 hours
Blood pressure measuring range:	SYS 40~265 mmHg DIA 20~200 mmHg MAP 27~222 mmHg
Resolution:	1 mmHg
Alarm limit:	Horse mode SYS 110~160 mmHg DIA 90~110 mmHg Dog mode SYS 130~160 mmHg DUA 60~95 mmHg Cat mode SYS 120~180 mmHg DIA 55~100 mmHg
NIBP pulse rate range:	25~300 bpm
NIBP pulse rate accuracy:	+/-2% or +/-3 bpm, whichever is greater

Temperature

Scale:	Selectable °C or °F
Channel:	2 channels
Range:	T1 and T2: 25°C~50°C/77°F~122°F Delta T: 0°C~5.5°C/0°F~9.9°F
Accuracy:	+/-0.2°C (25.0°C~34.9°C)/(77°F~94.8°F) +/-0.1°C (35.0°C~39.9°C)/(95°F~103.8°F) +/-0.2°C (40.0°C~44.9°C)/(104°F~112.8°F) +/-0.3°C (45.0°C~50.0°C)/(113°F~122°F)
Display resolution:	0.1°C/0.2°F
Alarm limit:	Upper limit: 10°C~50°C/50°F~122°F Lower limit: 10°C~50°C/50°F~122°F

Invasive Blood Pressure

Measurement range:	-50~300 mmHg		
Resolution:	1 mmHg		
Accuracy:	+/-1 mmHg or +/-1%, whichever is greater		
Pulse rate measurement range:	30-300 bpm		
IBP pulse rate accuracy:	+/-1 mmHg or +/-2%, whichever is greater		
Channel:	2 channels		
Alarm limit:	LABEL	HI (mmHg)	LO (mmHg)
	ART (SYS, DIA)	0~300	0~300
	PA (SYS, DIA)	-10~120	-10~120
	CVP, LAP, RAP, ICP (MAP)	-10~140	-10~40

CO₂

Mode of sampling:	Sidestream or mainstream		
ETCO ₂ alarm limit:	Upper limit: 20~100 mmHg Lower limit: 10~95 mmHg		
awRR alarm limit:	Upper limit: 10~150 mmHg Lower limit: 5~100 mmHg		

Sidestream CO₂ Module

Initialization time:	Capnogram displayed in less than 20 seconds, at an ambient temperature 25°C, full specifications within 2 minutes		
CO ₂ measurement range:	0~150 mmHg (0~19.7%, 0~20 kPa)		
CO ₂ calculation method:	Body Temperature Pressure Saturated (BTPS)		
CO ₂ resolution:	0~69 mmHg: 0.1 mmHg 70~150 mmHg: 0.25 mmHg		
CO ₂ accuracy:	0~40 mmHg: +/- 2 mmHg 47~70 mmHg: +/- 5% of reading 70~100 mmHg: +/- 8% of reading 101~150 mmHg: +/- 10% of reading Above 80 breath per minute +/- 12% of reading [NOTE: Gas temperature at 25°C]		
Inspired CO ₂ measurement:	Range: 3~50 mmHg Method: lowest reading of the CO ₂ waveform in the previous 20 seconds Selection: 20 seconds (not user-selectable)		
awRR measurement range:	0-150 rpm		

Mainstream CO₂ Module

CO ₂ measurement method:	0~150 mmHg (0~19.7%, 0~20 kPa) (Barometric pressure supplied by host)		
CO ₂ calculation range:	BTPS (Body Temperature Pressure Saturated)		
CO ₂ resolution:	0~69 mmHg: 0.1 mmHg 70~150 mmHg: 0.25 mmHg		
CO ₂ accuracy:	0~40 mmHg: +/- 2 mmHg 47~70 mmHg: +/- 5% of reading 70~100 mmHg: +/- 8% of reading 101~150 mmHg: +/- 10% of reading Above 80 breath per minute +/- 12% of reading [NOTE: Gas temperature at 25°C]		
Inspired CO ₂ measurement:	Range: 3~50 mmHg Method: lowest reading of the CO ₂ waveform in the previous 20 seconds Selection: 20 seconds (not user-selectable)		
awRR measurement range:	0-150 rpm		

Networking

Wired networking:	Industry Standard: IEEE 802.3 wired network RJ45 Interface or RS232 Serial Port		
Wireless networking:	Industry Standard: 802.11b/g wireless network Transmission Distance : ≥ 50 m (Visual Distance) Frequency Range: 2.400 ~ 2.4835 GHz Supports TCP/IP and Wi-Fi Protocols		

Power

Source:	External AC power and internal battery		
AC Power:	100 ~ 240 VAC, 50/60 Hz, 150 VA		
Battery:	Rechargeable lithium ion battery		
	Operating time under the normal condition (one battery) 3 hours		

Environmental Specifications

Temperature:	Operating : 5 ~ 40°C Storage: -10 ~ 45°C		
Humidity Range:	Operating : ≤80% Storage : ≤80%		



SurgiVet Advisor® tech Vital Signs Monitor



1. Programmable Configurations

The SurgiVet Advisor® tech monitor is pre-loaded with seven species and other programmable options.

2. Electrocardiogram (ECG)

Three and five lead monitoring capabilities with options to select lead-specific viewing of event marking, arrhythmia, ST analysis and amplification of lead signal and (x0.25, x0.5, x1.0, x2.0) display.

3. Invasive Blood Pressure (IBP)

Two invasive pressure channels for measuring direct arterial pressure, central venous pressure and various other hemodynamic parameters.

4. Respironics Mainstream and Sidestream Capnography (CO₂)

Capnography provides a means to assess ventilation, integrity of the airway and breathing circuit and cardiopulmonary function. End Tidal CO₂ is the single most important value to assess if an anesthetized patient is breathing correctly and maintaining proper circulation.

5. Non-Invasive Blood Pressure (NIBP)

SunTech® non-invasive blood pressure technology is for veterinary use on both large and small animals. Provides blood pressure readings to include difficult patients such as cats.

6. Digital Pulse Oximetry (SpO₂)

Pulse oximetry determines arterial oxygen saturation levels. Masimo technology available on select models.

7. Temperature

Two temperature channels, adjustable for both Fahrenheit and Celsius, can be used for various measuring sites, such as esophageal or rectal.

Wi-Fi capable and Gas analyzer option

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SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

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

PRODUCT(S) DESCRIBED MAY NOT BE LICENSED OR AVAILABLE FOR SALE IN CANADA AND OTHER COUNTRIES

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