SurgiVet™ Advisor™ Tech

Vital Signs Monitor

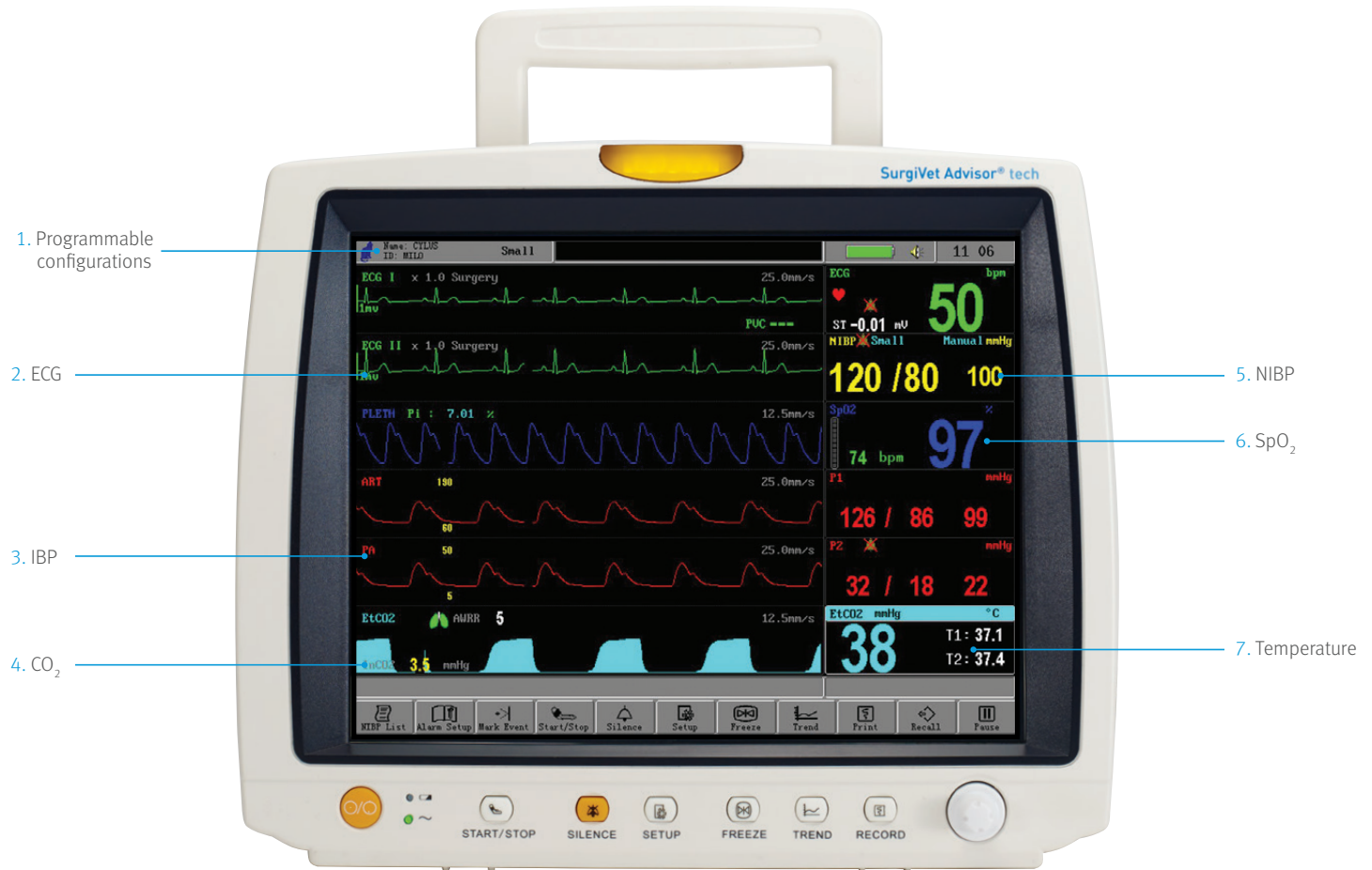Intuitive. Adaptable. Reliable.

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human connections

SurgiVet Advisor Tech Vital Signs Monitor

Elevate your patient care with consistent control for patient management.

SurgiVet Advisor Tech vital signs monitor features innovative at-a-glance technology, easy-to-view 12-inch monitors, intuitive controls, and the ability to download patient vital signs data via Wi-Fi or Ethernet.

1. Programmable configurations
2. ECG
3. IBP
4. CO_2
5. NIBP
6. SpO_2
7. Temperature

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 (CO_2)

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)

Noninvasive 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 (SpO_2)

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

ICU Medical offers multiple SurgiVet Advisor Tech Vital Signs 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
› 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 downloaded 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 Vital Signs monitor in your practice.

Options and Additional Accessories

Mainstream & Accessories		
Product Code	**Description**	**Units per Case**
V2710	Mainstream Capnostat 5 Sensor	1/ea
V8080	Medium Mainstream Adapter - Disposable	10/bx
V8081	Small Mainstream Adapter - Disposable	10/bx
V8082	Large Mainstream Adapter - Reusable	1/ea
V8083	Small Mainstream Adapter - Reusable	1/ea
Gas Analyzer & Accessories		
V2711	Masimo ISA OR+ Gas Analyzer	1/ea
V4305	Masimo ISA OR+ Extension Cable	1/ea
V3308	Masimo ISA OR+ Mounting Bracket	1/ea
V5112	Masimo ISA OR+ Clamp Adapter	1/ea
V5113	Masimo ISA OR+ Modura Clamp	1/ea
300.003.0004	Airway Adapter Set, Large, 3 m	1/ea

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 CO₂ module	V1002
V2710	Mainstream CO₂ module	V1002
V2711	Anesthetic agent analyzer	V1005
N/A*	Invasive blood pressure	V1003

* No additional product required

Surgivet Advisor Tech Vital Signs Monitors

Product Code	Description	Units per Case
V9218US	Monitor with 3 lead ECG, SpO₂, heart rate (HR), NIBP, 2-channel temperature	1
V9218PUS	Monitor with 3 lead ECG, SpO₂, HR, NIBP, 2-channel temperature, with printer	1
V9219US	Monitor with 3 lead ECG, SpO₂, HR, NIBP, 2-channel temperature, 2-ch IBP, ETCO₂, respiration	1
V9219PUS	Monitor with 3 lead ECG, SpO₂, HR, NIBP, 2-channel temperature, 2-ch IBP, ETCO₂, respiration with printer	1
V9214US	Monitor with 3 lead ECG, Masimo® SpO₂, HR, NIBP, 2-channel temperature	1
V9215PUS	Monitor with 3 lead ECG, Masimo® SpO₂, HR, NIBP, 2-channel temperature, with printer	1
V9216US	Monitor with 3 lead ECG, Masimo® SpO₂, HR, NIBP, 2-channel temperature, 2-ch IBP, ETCO₂, respiration	1
V9217PUS	Monitor with 3 lead ECG, Masimo® SpO₂, HR, NIBP, 2-channel temperature, 2-ch IBP, ETCO₂, respiration, with printer	1

Surgivet Advisor Tech Accessories Included Within Monitor Code

Product Code	Description	V9218US	V9218PUS	V9219US	V9219PUS	V9214US	V9215PUS	V9216US	V9217PUS
V1700	Reflectance sensor	●	●	●	●				
V1703	Universal "Y" sensor	●	●	●	●				
V1707	Universal "C" sensor	●	●	●	●				
V3078	Mini clip	●	●	●	●				
V8079	Cuff washing cap, 1/each	●	●	●	●				
V2708	Crocodile clips (pack of 3)	●	●	●	●	●	●	●	●
WWV3418	Reusable temperature cable	●	●	●	●	●	●	●	●
21-0460-51	Lead ECG cable	●	●	●	●	●	●	●	●
21-0461-51	3 lead ECG snap wire	●	●	●	●	●	●	●	●
V8075	Small NIBP cuff, 3-9 cm, 1/each	●	●	●	●	●	●	●	●
V8076	Medium NIBP cuff, 5-15 cm, 1/each	●	●	●	●	●	●	●	●
V8077	Large NIBP cuff, 9-25 cm, 1/each	●	●	●	●	●	●	●	●
V8078	Extra large NIBP cuff, 17-45 cm, 1/each	●	●	●	●	●	●	●	●
V8071	6 foot hose	●	●	●	●	●	●	●	●
N/A	Masimo transflectance probe					●	●	●	●
N/A	Masimo "Y" sensor					●	●	●	●
N/A	Masimo tip clip					●	●	●	●
N/A	Masimo extension cable					●	●	●	●
N/A	Masimo animal clip set					●	●	●	●
V8074	Straight sample line with humidifier, 10/bx			◊	◊			◊	◊
WW1100	Airway adapter			●	●			●	●
MX95114	TranStar™ pressure cable			●	●			●	●
MX9501	TranStar transducer			●	●			●	●
MX800	TranStar mounting plate			●	●			●	●
MX240	TranStar pole clamp			●	●			●	●
V4300	Power cord, 3 prong, 1/each	□	□	□	□	□	□	□	□
V6150	Printer paper, 10/bx		○		○		○		○
□	Appropriate power cord (type: B, F,G, I) included with each monitor								
◊	(1) straight sample line with humidifier included with each monitor								
○	(1) roll of printer paper included with monitor that includes printer option								

SurgiVet Advisor Tech Vital Signs Monitor Technical Specifications

Performance Specifications

Display:	12.1 inch color TFT
Trace:	8 waveforms
Waveforms:	ECG (I, II, II, 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-leadL 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

SpO2 measurement range:	1~100%
SpO2 perfusion:	0.02~20%
Pulse rate measurement range:	25~240 bpm
SpO2 accuracy: (non-motion)	Horse 70~100%: +/-2% Dog 0~69%: unspecified Cat 70~100%: +/-3% 0~69%: unspecified
SpO2 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
SpO2 PR alarm limit:	Upper limit: 70-239 bpm Lower limit: 20-150 bpm

Standard SpO2

ASpO2:	Anti-motion SpO2
SpO2 measurement range:	1~100%
SpO2 accuracy:	70~100%: +/-2% 0~69%: undefined
Pulse rate measurement range:	25~300 bpm
Pulse rate accuracy:	+/-2 bpm (non-motion) +/-3 bpm (motion)
SpO2 alarm limit:	Upper limit: 50~99% Lower limit: 50~99%
SpO2 PR alarm limit:	Upper limit: 70-320 bpm Lower limit: 20-150 bpm
SpO2 probe:	Red light LED wavelength: 660 +/-5 nm Infrared light LED wavelength: 940 +/- 10 nm

Non-Invasive Blood Pressure (NIBP)

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 130~80 mmHg DIA 90~60 mmHg Dog mode SYS 180~70 mmHg DIA 90~35 mmHg Cat mode SYS 200~90 mmHg DIA 105~40 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/32°F~41.9°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

CO_2

Mode of sampling:	Sidestream or mainstream
ETCO2 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 CO_2 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 41~70 mmHg: +/- 5% of reading 71~100 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 CO_2 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 41~70 mmHg: +/- 5% of reading 71~100 mmHg: +/- 8% of reading 101~150 mmHg: +/- 10% of reading Above 80 breath per minute +/- 12% of reading [NOTE: Gas temperature at 35°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 (41~104°F) Storage: -20~65°C (-4~149°F) per the IFU
Humidity Range:	Operating : ≤80% Storage : <95% per IFU

Contact Us

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1-888-745-6562, option 2

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 Vital Signs 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 US 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 Vital Signs Monitor is 2 years with comprehensive customer support from ICU Medical.

Extended Warranty Available

Learn more by visiting www.icumed.com/products/veterinary

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