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12 VET

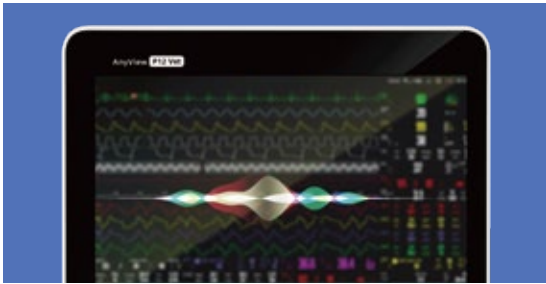
Modular Veterinary Monitor

- Monitoring parameters of all vital organs
- 12.1" TFT LCD capacitive touch screen
- Adjust brightness automatically based on ambient light
- Nellcor/Masimo SpO2 technology can ensure perfect motion resistance and low perfusion resistance performance
- Suntech Vet NIBP technology provides faster, safer and more accurate measurement
- LAN/ Wireless connections



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Modular Veterinary Monitor



Intelligent voice assistant

- It assists healthcare workers to command the device to do things just with their voice.
- It reduces the risk of cross contamination as it is easier to maintain aseptic technique.
- It reduces the time to operate the machine. Enabling quick diagnosis and quick treatment.



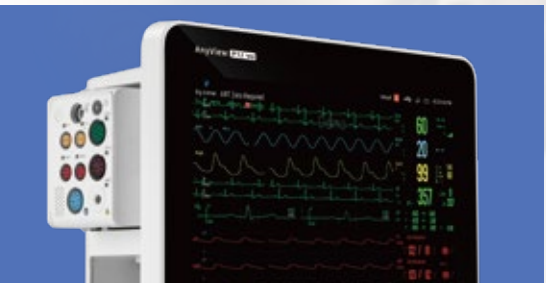
Intuitive multi-finger gestures

- Swipe up or down to adjust the brightness or volume.
- Swipe left or right to change the different screen display.



Works with gloves even when wet

- It reduces the risk of cross contamination.
- Time-saving and user-friendly to healthcare workers as they don't need to take off the gloves.



Modular design

- All modules can be used whatever function is needed.
- Flexible and economical.



BioVet Central Monitoring System

- It supports in better monitoring of patient safety
- It keeps track of sites' performances to help plan on-site monitoring visits
- It optimizes on-site monitoring visits, thereby reducing related costs
- It creates overall efficiencies in clinical trial operations

Size & Weight

Dimension: 323×281×157mm
Weight: <5 kg
Modular slot: 4

Display

Size: 12.1-inch color TFT LCD
Resolution: 1280×800 pixels
External display
Type: DVI Display
Resolution: above 1920×1080 pixels

Power Supply

Input voltage: AC (100-240) V (±10%)
Frequency: 50Hz/60Hz
Input power: 1.7A -0.8A

Battery

Type: Rechargeable lithium-ion battery, 11.1 VDC,5000mAh
Operating time: ≥4h
Charge time: Less than 4 hours to 100% (Turn off)
Less than 6 hours to 100% (Turn on)

Recorder

Type: BTR50S thermal dot array
Paper width: 50 mm±1mm
Recording speed: 12.5 mm/s, 25 mm/s, 50 mm/s
Recording waveform: Maximum 3 tracks

Data storage

Trend data:
Long trend: 1800h, minimum resolution: 10 min
Medium trend: 180h, minimum resolution: 1 min Short trend: 6h, minimum resolution: 5 second
Parameter alarm event: At least 3000 parameter alarm events and associated parameter waveform at the moment
ARR events: 3000 ARR events
NIBP result: At least 2400 groups
Holographic waveform: At least 72 hours

C.O.

Measurement range

C.O.: 0.1 L/min to 20 L/min
TB: 23.00°C ~ 43.00°C
TI: -1.0°C ~ 27.0°C

Resolution

C.O.: 0.1 L/min
TB: 0.01°C
TI: 0.1°C

Accuracy

C.O.: ±5% or ±0.1L/min, whichever is greater
TB: ±0.1°C
TI: ±0.1°C

IBP

Static pressure measurement:

Measurement range: -6.7kPa ~ +48.0kPa (-50mmHg ~ +360mmHg)

Resolution: 1mmHg

Accuracy: ±0.3kPa (±2mmHg) or ±2%, whichever is greater (without sensor)

Dynamic pressure measurement:

Measurement range: -6.7kPa ~ +48.0kPa (-50mmHg ~ +360mmHg)

Accuracy: ±0.3kPa (±2mmHg) or ±2%, whichever is greater (without sensor)

IBP zero range: -200mmHg ~ +200mmHg

Measuring range : -50~300 mmHg

Resolution : 1 mmHg

PR measurement range: 30 bpm ~300 bpm

PR resolution: 1 bpm

PR accuracy: ±1% or ±1bpm whichever is greater

ECG

Lead: 3-lead: I, II, III

5-lead: I, II, III, aVR, aVL, aVF, V-

6-lead: I, II, III, aVR, aVL, aVF, Va, Vb

12-lead: I, II, III, aVR, aVL, aVF, V1~V6

Auto: identify leads automatically

Indication of lead-off: Every electrode

Support ST, QT and ARR functions

Bandwidth (-3dB): Diagnostic mode: 0.05~150Hz

Monitor mode: 0.5~40Hz

Operation mode: 1~25Hz

ST mode: 0.05~40Hz

Signal quality display: Expression way: numerical display and waveform color.

HR measurement range: 10~400 bpm

HR resolution: 1 bpm

HR accuracy: ±1% or ±1 bpm, whichever is greater

RESP

Measurement parameter: Respiration Rate and respiration waveform

Source: RA-LA, RA-LL (default)

Measurement range: 0~150 rpm

Resolution: 1 rpm

Accuracy: ±2 rpm or ±2%, whichever is greater.

Respiration Apnea Alarm: Fixed high priority alarm

BLT NIBP

Measurement parameters: SYS, DIA, MAP,PR

Mode of operation: Manual, Auto, STAT, Sequence

Measurement range of cuff pressure: 0~300 mmHg

Initial inflation pressure:

Big animal: 120~280mmHg, default 160mmHg

Small animal: 60~280mmHg, default 160mmHg

Technique: Automatic Oscillometry

Dynamic pressure measurement range:

SYS 30~270 mmHg (4.0 ~ 36.0 kPa)

DIA 10~220 mmHg (1.3 ~ 29.3 kPa)

MEAN 20~235 mmHg (2.7 ~ 31.3 kPa)

Dynamic Pressure Measurement Error of Simulator: ±8 mmHg (±1.1kPa)

Static pressure accuracy: ±3 mmHg (±0.4kPa)

Pressure resolution: 1 mmHg or 0.1kPa

PR Measurement range: 40 ~ 240 bpm

PR accuracy: ±3bpm or ±3%, whichever is greater

Suntech NIBP

Method of Measurement: Oscillometry

Measuring range:

SYS 40~265 mmHg (5.3 ~ 35.3 kPa)

DIA 20~200 mmHg (2.7 ~ 26.7 kPa)

MEAN 27~222 mmHg (3.6 ~ 29.6 kPa)

Pressure accuracy: ±3 mmHg (±0.4kPa)

Unit: mmHg. kPa

PR range: 25 ~ 300 bpm

PR accuracy: ±2bpm or ±3%, whichever is greater

Initial inflation pressure:

Big animal: 120~280mmHg, default 160mmHg

Small animal: 60~280mmHg, default 160mmHg

TEMP

Parameter: T1,T2,TD

Measurement site: Surface and coelom

Measuring range: 0.0~50.0°C (32°F~122°F)

Resolution: 0.1°C or 0.1°F

Accuracy of circuit : ±0.1°C (±0.2°F) (without sensor)

BLT Provett SpO2

Measuring range: 0-99%

Resolution: 1%

Accuracy:

At 70~100%, ±2%

At 0~69%, unspecified

PR measurement range: 18 bpm ~400 bpm

PR resolution: 1 bpm

PR accuracy: ±2% or 2bpm, whichever is greater

BLT SpO2

Measuring range: 0~100%

Sensitivity: High, Medium, Low

Accuracy:

At 70~100%, ±2%

At 0~69%, unspecified

PR measurement range: 25 bpm ~400 bpm

PR resolution: 1 bpm

PR accuracy: ± 3bpm (non-motion conditions)

PI measurement range: At least 0.05~20.00%

PI resolution: 0.01%

PI accuracy: ±0.1% or ±10% of reading, whichever is greater

Masimo SpO2

Measuring range: 0% to 100%

Resolution: 1%

Accuracy:

70% to 100%: ±2% (non-motion conditions) 0% to 69%: unspecified

PR measurement range: 25 bpm ~240 bpm

PR accuracy: ± 3bpm (non-motion conditions)

PI measurement range: At least 0.05~20.00%

PI accuracy: ±0.1% or ±10% of reading, whichever is greater

Nellcor SpO2

Measuring range: 0-100%

Resolution: 1%

Accuracy:

At 70~100%, ±2% (non-motion)

At 0~69%, unspecified

PR measurement range: 20 bpm ~300 bpm

PR resolution: 1 bpm

PR accuracy:

20-250 bpm: ±3 bpm (non-motion conditions)

251 bpm ~ 300 bpm: unspecified

PI measurement range: At least 0.05~20.00%

PI accuracy: ±0.1% or ±10% of reading, whichever is greater

CO2

Measurement parameter: EtCO2, FiCO2, a CO2 waveform and awRR

Measurement method: Mainstream,

Sidestream/Microflow

Unit: mmHg, kPa and %

EtCO2/FiCO2 measurement range: 0% ~ 19.7%

(0mmHg ~ 150mmHg)

EtCO2/FiCO2 measurement accuracy: ± (0.43% + 8% of reading)

EtCO2/FiCO2 display resolution: 0.1% or 1mmHg

awRR measurement range: 0 ~ 150 bpm

awRR measurement accuracy: ±1 bpm

AG

Measurement way: Infrared spectrum

Measurement mode: Mainstream

Resolution:

Hal, Enf, Iso, Sev, Des, CO2: 0.1%

N2O, O2: 1%

CO2 range: 0.0% ~ 15.0%

CO2 accuracy: ± (0.43%+8% of reading)

N2O range: 0% ~ 100%

N2O accuracy: ± (2%+8% of reading)

O2 range: 0% ~ 100%

O2 accuracy: ± (2.5%+2.5% of reading)

Hal, Iso, Enf range: 0.0% ~ 8.0%

Hal, Iso, Enf accuracy: ± (0.2%+15% of reading)

Sev range: 0.0% ~ 10.0%

Sev accuracy: ± (0.2%+15% of reading)

Des range: 0.0% ~ 22.0%

Des accuracy: ± (0.2%+15% of reading)

awRR measurement range: 0 bpm ~ 150 bpm

awRR measurement accuracy: ±1bpm

Option Module:

2-IBP module, 2-Temp module, Nellcor SpO2 module,, Masimo SpO2 Module, Sidestream CO2 module, MicroFlow CO2 module, Mainstream CO2 module, Mainstream AG module, Suntech NIBP module, Voice assistant module, BLT Provett SpO2, C.O., Drip monitor(DM)

Other option:

Thermal Printer, Rolling stand, Wall mount, External Display, Wireless Lan (Wifi), Analog Output (ECG or IBP)



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Modular Veterinary Monitor

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