

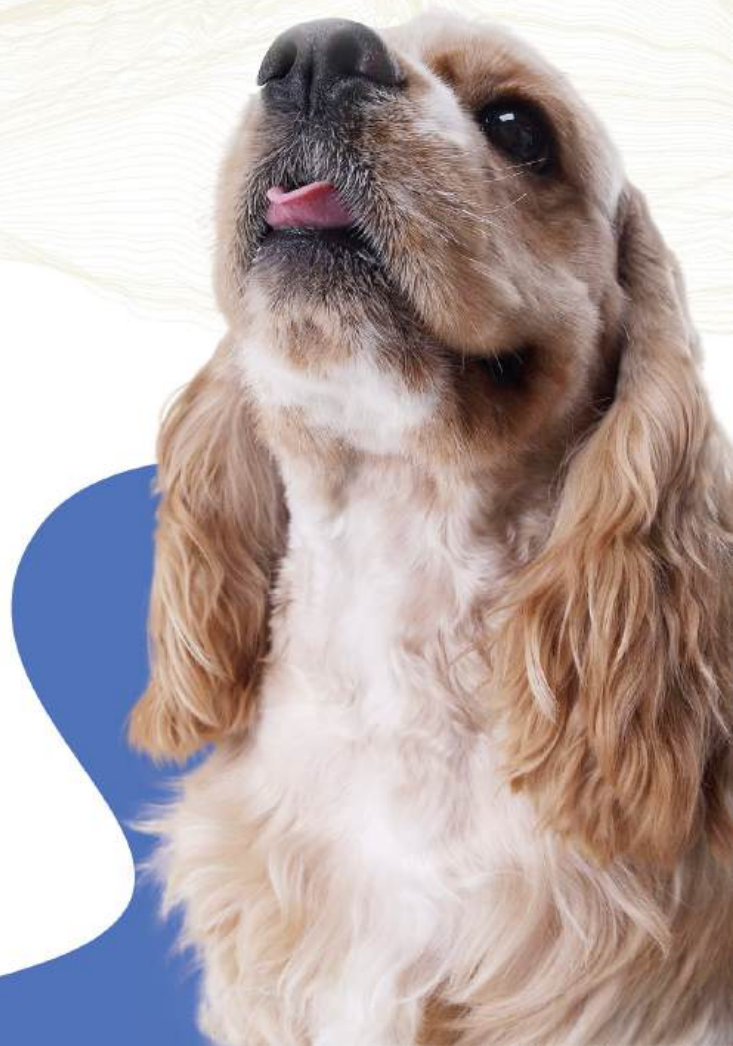
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12 VET

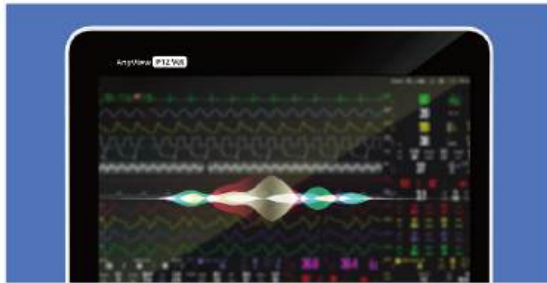
Modular Veterinary Monitor

- 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



P12 VET

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, V_a, V_b

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, T_D

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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