

# Avante Waveline VS

## Veterinary Monitor

Portable multi-parameter monitor suitable for feline, canine, and other animals

### FEATURES

- High-Resolution Color TFT-LCD Screen
- Defibrillation and Electrosurgical Interference Protection
- Pitch Tone (Pulse-Tone Modulation)
- VGA Output (optional)
- Suitable for feline, canine, and other animals
- Standard Parameters: 3/5 lead ECG, RESP, SpO2, NIBP, PR, 2-Temp
- Optional: 2-IBP, Respironics CO2, Thermal Recorder
- NIBP, SPO2, ECG, TEMP, RESP, and Printer

### DISPLAY MODES

- 3/5 Lead ECG Analysis
- Large Font
- Trend Screen



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### SPECIFICATIONS



**Weight:**  
11 lbs (5 kg)



**Length:**  
12.6" (320 mm)

**Width:**  
5.9" (150 mm)

**Height:**  
10.4" (265 mm)



**AC Power:**  
100-240 V AC, 50/60 Hz

**Battery:**  
14.8 V Rechargeable  
Li-Ion Battery



**Display:**  
Color TFT-LCD: 10.1",  
Resolution: 800 x 480

**Traces Displayed:**  
Up to 8

**Waveforms Displayed:**  
Up to 11

**Sweep Speed:**  
6.25, 12.5, 25, 50 mm/s

## ECG

<b>Lead Type:</b> 5-lead and 3-lead selectable	<b>Resolution:</b> 1 bpm
<b>Gain:</b> Auto, x 0.125, x 0.25, x 0.5, x 1, x 2, x 4	<b>Filter:</b> Diagnostic Mode: 0.05~150 Hz Monitoring Mode: 0.5 ~40 Hz Surgical Mode: 1~20 Hz
<b>Sweep Speed:</b> 6.25, 12.5, 25, 50 mm/s	<b>ST-Segment Detection:</b> Measurement Range: -2.0 mV-2.0mV Alarm Range: -2.0 mV -2.0 mV
<b>ECG HR Range:</b> 15~350 bpm	
<b>Accuracy:</b> 1 bpm or 1% (whichever is greater)	

## RESP

<b>Method:</b> Trans-thoracic impedance	<b>Resolution:</b> 1 rpm
<b>Operation Mode:</b> Auto/Manual	<b>Apnea Alarm Threshold:</b> 10, 15, 20, 25, 30, 35, 40s
<b>RR Measurement Range:</b> 6~150 rpm	<b>Band Width:</b> 0.2~2.5 Hz (-3 dB)

## SPO2

<b>Measurement &amp; Alarm Range:</b> 0-100%	<b>PR Measurement:</b> 25~350 bpm
<b>Resolution:</b> 1%	<b>Resolution:</b> 1 bpm
<b>Accuracy:</b> 2% (70~100%)	<b>Accuracy:</b> 2 bpm

## NIBP

<b>Method:</b> Automatic Oscillometric	<b>Auto Measurement Time Interval:</b> 1, 2, 3, 4, 5, 10, 15, 30, 60, 90, 120, 240, 480 minutes
<b>Operation Modes:</b> Manual/Automatic/Continuous	<b>Measurement Unit:</b> mmHg/kPa
<b>Pressure Range:</b>	<b>Measurement Types:</b> Systolic, Diastolic, Mean, PR
<b>Big Cuff:</b> Systolic: 40~270 mmHg Diastolic: 10~215 mmHg Mean: 20~235 mmHg	<b>Resolution:</b> 1 mmHg
<b>Medium Cuff:</b> Systolic: 40~200 mmHg Diastolic: 10~150 mmHg Mean: 20~165 mmHg	<b>Accuracy:</b> 3 bpm or 3.5%, whichever is greater
<b>Small Cuff:</b> Systolic: 40~135 mmHg Diastolic: 10~100 mmHg Mean: 20~110 mmHg	<b>PR NIBP Measurement Range:</b> 40~240 bpm
	<b>Resolution:</b> 1 bpm

## IBP (2 Channels, Optional)

<b>Measurement Range:</b> -50~300 mmHg	<b>Accuracy:</b> 2% or 1 mmHg (whichever is greater)
<b>Resolution:</b> 1 mmHg	<b>Impedance Range:</b> 300-3000 $\Omega$
<b>Sensitivity:</b> 5 V/V/mmHg	

## Philips Respironics CO2 (Optional)

<b>Type:</b> Sidestream/Mainstream	<b>Accuracy:</b> 2 mmHG 0-140 mmHg 5% 41-70 mmHg 8% 71-100 mmHg 10% 101-150 mmHg
<b>Range:</b> 0-150 mmHg	
<b>AwRR Accuracy:</b> 1 rpm	

## CO2 Sidestream (Optional)

<b>Range:</b> 0-13% (0-100 mmHg)	<b>AwRR Accuracy:</b> 1% or 1 rpm (whichever is greater)
<b>Accuracy:</b> 2 mmHg<5.0% CO2 <6% of the reading>5.0% CO2	<b>Sample Flow Rate:</b> 50-250 ml/min. adjustable

## Temperature (2 Channels, 1 probe by default)

<b>Measurement/Alarm Range:</b> 0-50 C (32-122 F)	<b>Accuracy:</b> 0.1 C (without probe)
<b>Resolution:</b> 0.1 C	<b>Channel:</b> Dual-channel. Provide T1; T2; T

## Thermal Recorder (Optional)

**Print Speed:** 25, 50 mm/s