# Avante Waveline Pro

## Anesthesia Monitor

## Superior Performance with a High-Resolution Touchscreen

The Waveline Pro is a dependable, affordable touchscreen monitor that can accommodate a full range of acuity levels for all areas of patient care. It displays as many as eight colorful waveforms on a crisp 15" high resolution screen.

#### **FEATURES**

- EtCO2 (mainstream or sidestream)
- (Respironics)
- Multi-lead simultaneous ECG monitoring Automatically set alarm limits
- Masimo SET<sup>®</sup> Pulse Oximetry ask your Avante representative for details
- Graphical and tabular trending
- Color-coded alarms
- Patient data entry
- Battery backup
- (two removable batteries)
- Built-in thermal recorder

- Networking capability
- Large (15"), high resolution flat panel display
- Available with a built-in
- thermal printer
- Standard Parameters: ECG, Masimo Pulse Oximetry, 2 x Temperature, NIBP, Respiration, and Printer
- Optional Parameters: Invasive Blood Pressures, CO2 (Mainstream or Sidestream) and Drager Built-in Anesthetic Agent Module
- Comes with standard veterinary accessories





## Specifications



Weight: 17.6 lbs (8 kg) (including anesthetic agents module and batteries)

Height: 12.1" (309 mm)

Width: 14.4" (365 mm)

Depth: 6.3" (159 mm)

Touchscreen Display: 15"

## 4

Source: External AC power or internal battery

AC Power: 100 - 240VAC, 50/60Hz, 150VA

Battery: Built-in and rechargeable lithium ion

> Operating Time: 3+ hours

> > Web ID: 2012



## Avante Waveline Pro

## Anesthesia Monitor

## Performance

Trace: 8 waveforms

Indicator: Alarm Indicator Power Indicator QRS beep and alarm sound

## ECG

Input: 5-lead ECG cable and standard AAMI line for connection

Lead Choice: I, II, III, aVR, aVF, aVL, V, V1-V6, TEST

Gain Choice: x0.5, x1, x2, x4

**Frequency Characteristic:** 0.05 ~ 35 HZ (+3dB)

ECG Waveforms: 7 channels

Penetration Voltage: 4000VAC 50/60Hz

## NIBP

Measuring Technology: automatic oscillating measurement

Cuff Inflating: <30s (0 ~ 300 mmHg, standard adult cuff)

Measuring Period: AVE<40s

Mode: Manual, Auto

Measuring Interval in AUTO Mode:  $2 \min \sim 4 hrs$ 

Pulse Rate Range: 30 ~ 250 (bpm)

## TEMP

Range: 25 ~ 50 (°C)

#### Accuracy:

± 0.2°C (25.0 ~ 34.9°C) ± 0.1°C (35.0 ~ 39.9°C) ± 0.2°C (40.0 ~ 44.9°C) ± 0.3°C (45.0 ~ 50.0°C) Trend Time: 1 - 72 hours Recorder:

Built-in, thermal array, 3 channels Record width: 48mm Recorder paper: 50mm Record speed: 25mm/s 50mm/s

Sweep Speed: 12.5, 25, 50 and 100 mm/sec (left to right or right to left) HR Display Range: 30 ~ 300bpm

Accuracy: ±1bpm or ±1%, whichever is greater

Alarm Limit Range Setting:

Upper limit 100 ~ 200bpm, Lower limit 30 ~ 100bpm

### Measuring Range:

Adult/Pediatric Mode: SYS: 40 ~ 250 (mmHg) DIA:15 ~ 200 (mmHg) Neonatal Mode: SYS: 40 ~ 135 (mmHg) DIA: 15 ~ 100 (mmHg)

#### Accuracy:

Maximum Mean error: ±5mmHg Maximum Standard deviation: 8mmHg

Display Resolution: 0.1°C

Alarm Limit Setting: Upper limit 0 ~ 50°C, Lower limit 0 ~ 50°C

Channel: 2 channels

## Masimo SET SpO<sub>2</sub>

SpO<sub>2</sub> Accuracy (non-motion):

Adult Pediatric: 70~100%: ±2%, 0~69%: unspecified Neonate: 70~100%: ± 3%, 0~69%: unspecified

#### SpO<sub>2</sub> Accuracy (motion):

Adult Pediatric: 70~100%: ±3%, 0~69%: unspecified Neonate: 70~100%: ± 3%, 0~69% : unspecified

SpO<sub>2</sub>: ±2 %

PR: ±3 bpm

#### Modes:

Averaging mode: 2,4,8,10,12, 14 and 16s Sensitivity: Normal, APOD and Maximum

## RESP

Measure Method: RA-LL impedance

Range: 0 ~ 120 rpm

Sweep Speed: 12.5, 25, 50 and 100 mm/sec (left to right or right to left)

## Networking

Industry standard 802.11b/g wireless network

### **IBP**

Measurement Range: -50 ~ 300mmHg	Unit: mmHg/kPa selectable
	Resolution: 1mmHg
Channel: 2 channels	Accurancy: ±1mmHg or
Pressure Transducer: sensitivity,	±2%,whichever is greater
5µV/V/mmHg	Alarm Range: -10 ~ 300mmHg
Transducer Sites: ART, PA,CVP, RAP, LAP, ICP	Impedance Range: 300 ~ 3000w

## Optional

EtCO<sub>2</sub>, Cardiac Output, and Anesthetic Agents

#### PR Accuracy (non-motion):

Neonate: 70~100%: ± 3%, 0~69% : unspecified Adult Pediatric Neonate: 25~240 bpm: ±3 bpm

#### PR Accuracy (motion):

Adult Pediatric Neonate: 25~240 bpm: ±5 bpm

Measuring Range: SpO2: 1~100% PR: 25~240 bpm Perfusion: 0.02~20%

Low Perfusion Performance: > 0.02 % Pulse Amplitud and % Transmission > 5

Alarm Limit Setting: Upper limit 6 ~ 120 rpm, Lower limit 3 ~ 120 rpm

Accuracy: ±3 rpm

