

# Avante Waveline Touch

## Patient Monitor

### User-friendly, touchscreen monitor

The fully-functional Waveline Touch features a 12.1" color TFT display with a touch-screen interface. It features multi-lead ECG monitoring, ST segment monitoring and 72 hours trend data analysis.

#### FEATURES

- › Masimo SET® Pulse Oximetry — ask your Avante representative for details
- › EtCO2 Option allows compliance with ASA
- › 12.1" color TFT display with a touch-screen interface
- › Multi-lead ECG monitoring
- › NIBP list display
- › OxyCRG dynamic view display
- › Compact design convenient for mobile monitoring
- › Multi-lingual settings
- › Built-in thermal recorder
- › Networkable with a central monitoring system via a wireless or wired network
- › S-T Segment and 72 hours trend data analysis
- › Drug dose calculations
- › Optional Plug-In Anesthesia Gas Module expands measurement capabilities
- › Built-in battery (optional)



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#### SPECIFICATIONS



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



**Height:**  
~11"

**Width:**  
~12.6"

**Depth:**  
~6.2"

**TFT Touchscreen Display:**  
12.1"



**Source:**  
External AC power  
or internal battery

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

**Battery:**  
Rechargeable Lead-Acid

**Operating Time:**  
1 hour

## Performance

**Trace:** 4, 6 or 8 waveforms ECG (I, II, III, aVR, aVL, aVF, V1-V6), PLETH, RESP, IBP $\times$ 2, ETCO<sub>2</sub>

**Indicator:**

- Alarm indicator
- Power indicator
- QRS beep and alarm sound

**Trend Time:** 72 hours

**Recorder:**

- Built-in, thermal array, 2 channels
- Record width: 48mm
- Recorder paper: 50mm
- Record speed: 25mm/s, 50mm/s

## ECG

**Input:** 3-lead ECG cable and standard AAMI line for connection

**Lead Choice:** I, II, III, aVR, aVF, aVL, V

**Gain Choice:** x0.5, x1.0, x2.0

**Frequency Characteristic:** 0.05-40 Hz

**ECG Waveforms:** 7 channels

**Penetration Voltage:** 4000VAC 50/60Hz

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

**HR Display Range:** 30 - 300bpm

**Accuracy:**  $\pm$ 1bpm or  $\pm$ 1%, whichever is greater

**Alarm Limit Range Setting:**

- Upper limit 80 - 400bpm,
- Lower limit 20 - 150bpm

**Input - (Optional):** 5-lead ECG cable and standard AAMI line for connection

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

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

- Adult Pediatric: 70~100%: $\pm$  2%, 0~69%: unspecified
- Neonate: 70~100%:  $\pm$  3%, 0~69%: unspecified

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

- Adult Pediatric: 70~100%:  $\pm$ 3%, 0~69%: unspecified
- Neonate: 70~100%:  $\pm$  3%, 0~69% : unspecified

**SpO<sub>2</sub>:**  $\pm$ 2 %

**PR:**  $\pm$ 3 bpm

**Modes:**

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

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

- Neonate: 70~100%:  $\pm$  3%, 0~69% : unspecified
- Adult Pediatric Neonate: 25~240 bpm:  $\pm$ 3 bpm

**PR Accuracy (motion):**

- Adult Pediatric Neonate: 25~240 bpm:  $\pm$ 5 bpm

**Measuring Range:**

- SpO<sub>2</sub>: 1~100 %
- PR: 25~240 bpm
- Perfusion: 0.02~20 %

**Low Perfusion Performance:**

- >0.02 % Pulse Amplitude and % Transmission >5

## NIBP (Suntech)

**Measuring Technology:** automatic oscillating measurement

**Cuff Inflating:** < 30s-0-300 mmHg, standard adult cuff

**Measuring Period:** AVE < 40s

**Mode:** Manual, Auto, STAT

**Measuring Interval in AUTO**

**Mode:** 2 min ~ 4 hrs

**Pulse Rate Range:** 30 ~ 250 (bpm)

**Resolution:** 1mmHg

**Overpressure Protection:**

- Adult Mode: 280 (mmHg)
- Neonatal Mode: 150 (mmHg)

**Measuring Range:**

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

**Accuracy - Pressure:**

- Maximum Mean error:  $\pm$ 5mmHg
- Maximum Standard deviation: 8mmHg

**Alarm Limit Setting:**

- SYS 50-240 mmHg,
- DIA 15-180 mmHg

## RESP

**Measure Method:** RA-LL impedance

**Range:** 0 ~ 120 rpm

**Sweep Speed:** 12.5 and 25 mm/s

**Alarm Limit Setting:**

- Upper limit 6 ~ 120 rpm,
- Lower limit 3 ~ 120 rpm

**Accuracy:**  $\pm$ 3 rpm

## TEMP

**Range:** 25° - 50° C

**Accuracy:**

- $\pm$  0.2°C (25.0 ~ 34.9°C)
- $\pm$  0.1°C (35.0 ~ 39.9°C)
- $\pm$  0.2°C (40.0 ~ 44.9°C)
- $\pm$  0.3°C (45.0 ~ 50.0°C)

**Display Resolution:** 0.1°C

**Alarm Limit Setting:**

- Upper limit 0 ~ 50°C,
- Lower limit 0 ~ 50°C

**Channel:** 2 channels

## Optional

EtCO<sub>2</sub> and IBP