

# 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)



#### 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

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## Performance

Trace: 4, 6 or 8 waveforms ECG (I, II, III, aVR, aVL, aVF, V1-V6), PLETH, RESP, IBPx2, 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:  $\pm 1$ bpm 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:  $\pm 5$ mmHg  
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:

$\pm 0.2^\circ\text{C}$  (25.0 ~ 34.9°C)  
 $\pm 0.1^\circ\text{C}$  (35.0 ~ 39.9°C)  
 $\pm 0.2^\circ\text{C}$  (40.0 ~ 44.9°C)  
 $\pm 0.3^\circ\text{C}$  (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