

# Avante Waveline EZ

## Portable Patient Monitor

### Extremely Portable, Feature Rich, Touchscreen Monitor

Featuring cutting-edge innovations and impeccable craftsmanship, the Avante Waveline EZ patient monitor is the perfect choice for health care professionals who demand precision, performance and affordability. It features an intuitive touchscreen that helps you quickly and accurately evaluate patient conditions, resulting in better patient care. Utilize the Waveline EZ to monitor ECG, respiration, SpO2, NIBP and temperature; it's also available with EtCO2 monitoring and a printer

#### FEATURES

- Lightweight and Mobile Multi Parameter Monitor on the Market
- Touchscreen Provides Immediate Operation
- 8" High Resolution Color Display
- Simultaneous Multi-Lead ECG Monitoring
- Advanced ST and Arrhythmia Detection
- Graphical and Tabular Trending
- Audible and Visual Alarms
- Quick BP Readings Recall
- Masimo SET® Pulse Oximetry
- Standby button
- Volume and Sounds are adjustable and now can be turned off completely
- Battery backup  
Option to print Numerical Data Only Displays five waveforms
- Color of the waveforms can be changed



## Specifications



**Weight:**  
6 lbs



**Height:**  
~ 8.2"

**Width:**  
9"

**Depth:**  
4.7"

**TFT Display:**  
8"



**Power Supply:**  
AC 90-264V/47-63Hz

**Input Power:**  
≤55VA

**Battery:**  
12V/4.0AH  
sealed lead-acid

**Charge Time:**  
≥4 hours

**Operating Time:**  
≥2 hours (full recharge)

Web ID: 9765

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## Portable Patient Monitor

### ECG

Input -3-lead ECG cable and standard AAMI line for connection	Gain Selection: 4mV, 2mV, 1mV, 0.5mV, 0.25mV, Auto
Input - (Optional) 5-lead ECG cable and standard AAMI line for connection	Trends: 2 hours -> 4 hours -> 8 hours -> 24 hours -> 48 hours
Patient Safety Standard IEC60601-1-1988	Patient Isolation Breakdown Voltage: 4000VAC 50Hz 60 seconds Leakage current <10µA
CMRR: ≥60dB (Common Mode Rejection Ratio)	Frequency Width: Monitoring mode 0.5 ~ 40Hz (+0.4dB,-3.0dB) Surgery mode 0.5 ~ 20Hz (+0.4dB, -3.0dB) not calibration significant
Heart Rate Range: 20 ~ 254bpm ± 1bpm	Patient Drive Current: <10µA
Heart Rate Averaging: 8 second average	Enclosure Leakage Current: <0.1mA
ST Segment Range: -0.8 ~ + 0.8mV	Maximum T Wave Rejection Capability: 1.2mV
Interface: AAMI 6-pin	Heart Rate Alarm Response Time: < 7 seconds
Lead Selection: I, II, III (3 lead mode) I, II, III, aVR, aVL, aVF, V (5 lead mode) (ST and Arrhythmia analysis)	Aspect Ratio: 0.24 ~ 0.6 sec/mV
Lead Fault Alarm: Audible, Visual Input 5-lead ECG patient cable	Alarm Frequency: Low alarm - 2-2.4kHz; High alarm - 3-3.4kHz
QRS Indicator: Audible and Visual Alert	Defibrillator Protected & ESIS Protected Tested with 5kV
Waveform Storage: 6 minutes	Recovery Time Following Defibrillation: <5 seconds
Sweep Speed: 12.5/25/50 mm/sec	

### CO2

<b>Type:</b> Side stream, non-dispersive IR	<b>CO<sub>2</sub> Range:</b> 0-99mmHg
<b>Calibration:</b> Automatic	<b>Scale:</b> mmHg/kPa
<b>Accuracy:</b> ± 2mmHg (0-40mmHg) ± 5mmHg (41-76mmHg) ± 10mmHg (77-99mmHg)	<b>Respiration Range:</b> 0-150rpm, ± 2rpm

### Temperature (Dual Channel)

<b>Range:</b> 0 ~ 50°C	<b>Accuracy:</b> ±0.1°C
<b>Probe:</b> YSI ® 400 Skin surface or rectal /esophageal	<b>Resolution:</b> 0.1°C
<b>Scale:</b> Celsius	

### Respiration

<b>Measurement Method:</b> Thoracic Impedance	<b>Respiration Rate Range:</b> 0 ~ 100±1rpm
<b>Accuracy:</b> ±2 rpm	

### Masimo SET SpO2

<b>SpO<sub>2</sub> Accuracy (non-motion):</b> Adult Pediatric: 70~100%: ±2%, 0~69%: unspecified Neonate: 70~100%: ± 3%, 0~69%: unspecified	<b>PR Accuracy (non-motion):</b> 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
<b>SpO<sub>2</sub> Accuracy (motion):</b> Adult Pediatric: 70~100%: ±3%, 0~69%: unspecified Neonate: 70~100%: ± 3%, 0~69% : unspecified	<b>Measuring Range:</b> SpO <sub>2</sub> : 1~100 % PR: 25~240 bpm
<b>SpO<sub>2</sub>: ±2 %</b> <b>PR: ±3 bpm</b>	<b>Perfusion: 0.02~20 %</b> <b>Low Perfusion Performance:</b> >0.02 % Pulse Amplitude and % Transmission >5
<b>Modes:</b> Averaging mode: 2,4,8,10,12,14 16 s	
<b>Sensitivity:</b> Normal, APOD and Maximum	

### Non-Invasive Blood Pressure (NIBP)

<b>Method:</b> Automatic oscillometric	<b>Initial Cuff Inflation:</b> Adult/pediatric 170±10mmHg (22.7±1.3kPa) Neonate 100±10mmHg (16.0±1.3kPa)
<b>Parameters:</b> Systolic, diastolic, mean arterial pressure, pulse	<b>Deflation Pressure:</b> 30mmHg(4.0kPa) higher than the last systolic pressure
<b>Scale:</b> mmHg or kPa	<b>Cuff Inflation Rate:</b> No greater than 50mmHg/sec
<b>Operating Modes:</b> Manual, Automatic, Continuous	<b>Measurement Time:</b> Typical 25 seconds, Maximum 40 seconds, Typical Stat 20 seconds
<b>Repeat Cycles:</b> 1 ~ 10, 15, 30, 60, 90, 120 minutes	<b>Pressure Display Accuracy:</b> ±3mmHg
<b>Determination:</b> Systolic, Adult/pediatric 40 ~ 250mmHg (5.3 ~ 33.3kPa) Systolic, Neonate 20 ~ 160mmHg (2.7 ~ 21.3kPa) Diastolic, Adult/pediatric 10 ~ 180mmHg (1.3 ~ 24.0kPa) Diastolic, Neonate 10 ~ 140mmHg (1.3 ~ 18.7kPa)	<b>BP Pulse Rate Accuracy:</b> ±2% @ 40 ~240bpm
<b>Cuff Pressure Range:</b> Adult/pediatric 0 ~ 300mmHg (0 ~ 40.0kPa) Neonate 0 ~ 140mmHg (0 ~ 18.7kPa)	<b>Cuff:</b> Neonate, infant, pediatric, standard adult

### Safety Approval & Quality System

Designed to meet IEC60601-1-1988, EN60601-1-1, EN60601-2 Class II Equipment, double insulated  
Type BF applied parts  
ISO9001 & EN46001 Certified

# Avante Waveline Touch

## Anesthesia Monitor

