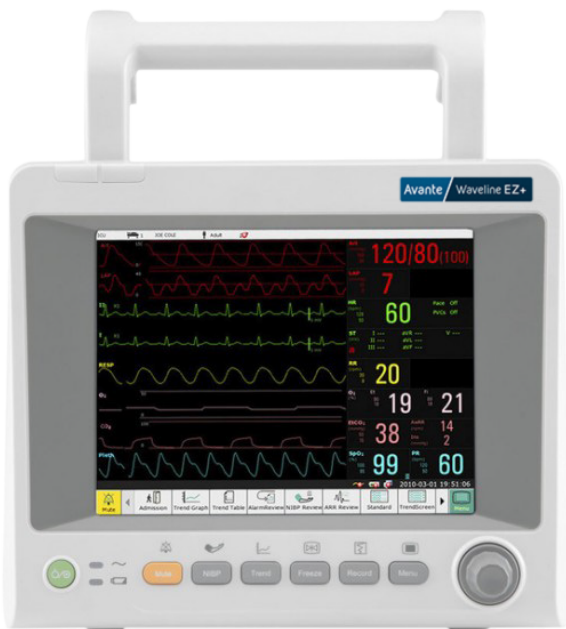# Avante Waveline EZ Plus

Patient Monitor

Specially optimized for in-hospital transportation and emergency care

The Avante Waveline EZ Plus patient monitor provides the perfect transportation solution. The multifunctional all-in-one parameter module and new application platform greatly enhance the efficiency of full clinical parameter monitoring for patient transfer.

FEATURES

› 8.4" color TFT display with maximum 11 waveforms

› Pacemaker detection, electrosurgical interference proof

› Defibrillation protection and defibrillation synchronization

› Optional, full touchscreen enables intuitive operation by clicking on the specific parameters or the waveform in real time, standard configuration includes the navigation knob

› OxyCRG available to judge the respiration and circulation function for neonates

› Large font display

› Arrhythmia and S-T segment analysis

› Built-in rechargeable Li-ion battery

› Nurse Call function and bi-directional communication with MFM-CMS central station

› SD card slot enables memory extension for large data storage

› USB and serial ports enables abundant future upgrades

› VGA output and analog output

› Complete and flexible mounting solution for different scenarios

SPECIFICATIONS

Weight:
7.94 lbs (3.6 kg) without battery

Length:
10.28" (261 mm)

Width:
7.8" (198 mm)

Height:
8.46" (215 mm)

Standard Parameters:
3/5-lead ECG, Standard SpO2, RESP, NIBP, 2-Temp, PR

Optional:
Touchscreen, Thermal Recorder, Nellcor-SpO2, CO2 (sidestream & mainstream), 2-IBP, WLAN accessory, 12V DC input

97-2022-01-27

Display

Color TFT LCD 8.4
Touchscreen Optional

Resolution: 800 X 600 dpi

Traces Displayed: Up to 8

Waveforms Displayed: Up to 11

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

**Various Working
Interfaces Selectable:**
Standard Monitoring Display
Large Font Intensive
Care Display
Trend Graph/ Monitoring
Co-Display
Bed to Bed view Display
(Optional)
OxyCRG Dynamic
View Display
Drug Dose Calculation
Interface

RESP

Method:
Trans-thoracic impedance

Operation Mode: Auto/ Manual

RR Measurement Range, Adult:
0 - 120 rPM

**RR Measurement Range,
Neonate/Pediatric:**
0 - 150 rPM

Resolution: 1 rPM

Apnea Alarm Threshold:
10s, 15s, 20s (default), 25s,
30s, 35s, 40s

Alarm:
3 levels of audible and visual
alarm, alarm events recallable

Bandwidth: 0.2-2.5Hz (-3dB)

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

SpO2

Measurement & Alarm Range:
0 - 100%

Resolution: 1%

Accuracy:
±2% (70-100%,
Adult/Pediatric),
±3% (70-100%, Neonate)

**PR Measurement and
Alarm Range:**
30 - 300bpm

Resolution: 1 bpm

Accuracy: 3 bpm

Refresh Rate: 2s

Temperature (2 Channels, 1 probe by default)

Measurement & Alarm Range:
0 - 50 (32-122 F)

Probe Type:
YSI (B Series) and CF-FI

Resolution: 0.1

Accuracy:
±0.1°C (without probe)

Channel:
Dual-channel.
Provide T1; T2; T

ECG

Lead Type:
5-lead and 3-lead selectable

3 Leadwire Cable:
RA, LA, LL or R, L, F

5 Leadwire Cable:
RA, LA, RL, LL, V
or R, L, N, F, C

Lead Selection, 3-lead: I, II, III

Gain Selection:
x0.125, x0.25, x0.5,
x1, x2, auto

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

ECG HR Range, Adult/Pediatric:
15-300bpm

ECG HR Range, Neonate:
15-350bpm

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

Filter:
Diagnostic mode:
0.05 - 150Hz
Monitoring mode: 0.5 - 40 Hz
Surgical mode: 1 - 20Hz

Protection:
Withstand 5000VAC/50Hz
voltage in isolation against
defibrillation and
electrosurgical interference

ST-Segment Detection:
Measurement range:
-2.0 mV - 2.0mV
Alarm range: -2.0 mV - 2.0mV

**ST-Segment Arrhythmia
Analysis and Categorization:**
Yes

ARR Alarm:
3 levels of audible and visual
alarm, alarm events recallable

Pacemaker Detection:
Yes, and 5 types abnormal
status detectable

NIBP

Method: Automatic Oscillometric

Operation Modes:
Manual/Automatic/Continuous

**Auto Measurement
Time Interval:**
Adjustable 1/2/3/4/5/10/15/30/
60/90/120/240/480 Minutes

Measurement Unit:
mmHg/kPa selectable

Measurement Types:
Systolic, Diastolic, Mean

Pressure Range for Adults:
Systolic: 40 - 270 mmHg
Diastolic: 10 - 215 mmHg
Mean: 20 - 235 mmHg

Pressure Range for Pediatrics:
Systolic: 40 - 200 mmHg
Diastolic: 10 - 150 mmHg
Mean: 20-165 mmHg

Pressure Range for Neonates:
Systolic: 40 - 135 mmHg
Diastolic: 10 - 100 mmHg
Mean: 20 - 110 mmHg

**Leak Test and Pressure
Auto Calibration:**
Yes

Over-pressure Protection:
Dual Safety protection

Resolution: 1mmHg

Accuracy:
Max mean error ±5 mmHg,
max standard deviation
±8 mmHg

PR from NIBP:
Measurement 40 - 240 bpm

Resolution: 1 bpm

Accuracy:
±3bpm or ±3%,
whichever is greater