

Avante Waveline Pro

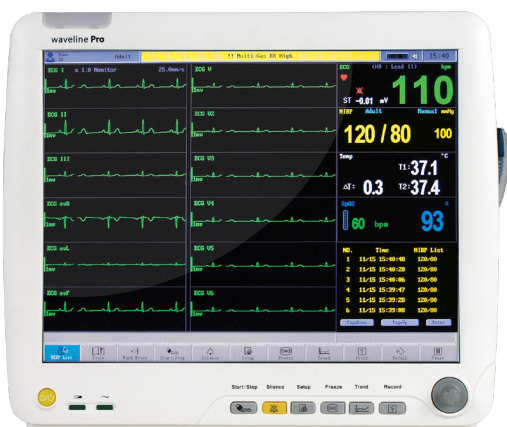
Anesthesia Monitor

Superior performance with a high-resolution touch screen

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® 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 Dräger 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"



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

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Performance

Trace: 8 waveforms

Trend Time: 1 - 72 hours

Indicator:

Alarm indicator
Power indicator
QRS beep and alarm sound

Recorder:

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

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

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

HR Display Range: 30 ~ 300bpm

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

Alarm Limit Range Setting:
Upper limit 100 ~ 200bpm,
Lower limit 30 ~ 100bpm

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 ~ 4 hrs

Pulse Rate Range: 30 ~ 250 (bpm)

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: ± 5 mmHg
Maximum Standard deviation:
8mmHg

TEMP

Range: 25 ~ 50 (°C)

Display Resolution: 0.1°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)

Alarm Limit Setting:

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

Channel: 2 channels

Masimo SET SpO₂

SpO₂ Accuracy (non-motion):

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

SpO₂ Accuracy (motion):

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

SpO₂: $\pm 2\%$

PR: ± 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: ± 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 Amplitude
and % Transmission > 5

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)

Alarm Limit Setting:

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

Accuracy: ± 3 rpm

Networking

Industry standard 802.11b/g wireless network

IBP

Measurement Range:
-50 ~ 300mmHg

Channel: 2 channels

Pressure Transducer: sensitivity,
5 μ V/V/mmHg

Transducer Sites: ART, PA,CVP,
RAP, LAP, ICP

Unit: mmHg/kPa selectable

Resolution: 1mmHg

Accuracy: ± 1 mmHg or
 $\pm 2\%$, whichever is greater

Alarm Range: -10 ~ 300mmHg

Impedance Range: 300 ~ 3000 ω

Optional

EtCO₂, Cardiac Output, and Anesthetic Agents