Comprehensive Data Capture

With the standard integrated SpO2 memory, the Avant 2120 can be used for extended monitoring situations. When used with Nonin's proprietary software, nVISION™, a clear picture of the trended SpO2 and heart rate data can be reviewed instantly — including the ability to edit trended data.

Powerful Options

The Avant 2120 includes the option of dual voltage adaptability or battery operation (universal power pack) — providing a reliable power source for any application — anywhere. Its impressive battery life and quick recharge make it a rugged workhorse.

You can be confident that the user-friendly Avant 2120 will make patient monitoring convenient wherever NIBP and/or pulse oximetry is needed. Ideal for pediatric through adult patients, the Avant 2120 can be customized to fit any application:

- Assorted Cuff Sizes - Fits a wide range of patients
- Rolling Stand - Standard or deluxe stand increases portability
- Sensors - Complete line of sensors
- NiMH Battery Pack - Flexible power source for mobility
- Carrying Case - Convenient for transport and storage
- nVISION™ Data Management Software - For oximetry screening

Your Partner of Choice

With over 15 years of experience and dedication to the design and support of oximetry and NIBP devices, Nonin has helped many medical professionals achieve clinical and economic objectives. Trusted by clinicians worldwide, countless tests are performed every day on thousands of Nonin pulse oximeters in more than 125 countries. Nonin's dedication to technological leadership, precision manufacturing and uncompromised customer support ensures quality products and service you expect.

Please contact your authorized distributor for more information.

Specifications

NIBP
Method of Measurement Oscillometric
Range
- Systolic: 40 mmHg to 260 mmHg
- Diastolic: 25 mmHg to 200 mmHg
- Mean: 25 mmHg to 200 mmHg

Pressure Transducer Accuracy ±3 mmHg between 0 mmHg and 300 mmHg for operating conditions between 0°C and 50°C. (S.D. of 8 mmHg)

Recommence Frequency of Pressure Transducer Calibration
The Pressure Transducer calibration should be verified yearly or every 10,000 readings, whichever comes first.

Pulse Rate Range
70 - 250 pulses per minute

Blood Pressure Altitude <7500 ft.

Display
- Systolic Blood Pressure (SBP) %
- Diastolic Blood Pressure (DBP) %
- Mean Arterial Pressure (MAP) %

Accuracy
- Blood Pressure ±5 mmHg
- Pulse Rate ±3% ±1 digit

Oximeter
- Infrared: 910 nanometers @ 3 mw nominal
- Red: 660 nanometers @ 3 mw nominal

Accuracy
- Blood Oxygen Saturation (SpO2) (±1 S.D.)< 0% to 100%
- Pulse Rate Range 18 to 300 pulses per minute

System
- Temperature Operating / Storage +32° to +122°F (+0° to +50°C) / -4° to +113°F (-20° to +50°C)
- Humidity Operating / Storage 10% to 90% noncondensing / 10% to 95% noncondensing
- Altitude Operating Altitude Up to 40,000 feet
- Altitude Noninvasive Blood Pressure -170 to 1700 m
- Hyperbaric Pressure Up to 4 atmospheres

Warranty
- Pulse Oximeter 3 yrs
- NIBP Monitor 2 yrs
- Battery Pack 1 yr

Power Requirements
- 7.2 volt battery pack (6 cells) or 12 VDC AC adapter
- Battery Life Operating / Storage 10% to 90% noncondensing / 10% to 95% noncondensing

Battery Life
- 10% to 90% noncondensing / 10% to 95% noncondensing

Dimensions
- 4.5 x 7.5 x 5.4 in.
- 114 x 190 x 138 mm

Weight
- 45.3 oz with batteries (1.3 kg)

Carrying Case
- Convenient for transport and storage

Multi-Function
Noninvasive Blood Pressure Monitor & Digital Pulse Oximeter

Product Highlights

- Dual Functionality - NIBP & SpO2 monitoring
- Flexible - automated and on-demand NIBP measurements
- Adjustable Pressure - User or system defined dynamic inflation pressure
- Cost Effective - Quick on-site user calibration
- Efficient - Dual voltage adaptability or battery operation; quick recharge
- Comprehensive Data Capture - Ideal for extended monitoring

Where People Make the Difference
High Performance NIBP & SpO₂ Monitoring

The Avant 2120 is a multi-purpose device offering both noninvasive blood pressure (NIBP) and proven pulse oximetry monitoring - all in one compact, lightweight and easy-to-use portable unit. Offering maximum versatility in patient monitoring, the Avant 2120 is designed for effortless mobility - by easily attaching the unit to a rolling stand or simply carrying it with its integrated handle. Ideal for pediatrics through adults, the 2120 offers an assortment of Nonin sensor and blood pressure cuff sizes to adapt to each patient application.

Proven Technology

The NIBP module features an oscillometric blood pressure method providing fast, motion-tolerant readings. Oscillation pulsations in the arterial wall are filtered and amplified to create an oscillometric waveform. The Avant 2120 also incorporates Nonin’s proven digital pulse oximetry trusted by clinicians worldwide. The SpO₂ module provides an accurate assessment of the patient’s blood oxygen saturation and pulse rate. You can rely on a dependable, quality reading even with the most challenging of patients.

Data Integrity

The Avant 2120 provides a variety of display indicators to ensure reliable readings for easy patient evaluation.

Qualitative Pulse Strength Indicator - The new tricolor pulse strength indicator provides up-to-the-second assessment of each patient pulse detected. The ten-segment bar graph categorizes the pulse strength measured as good (green), marginal (amber) or low (red).

Pulse Quality Indicator - Nonin’s pulse quality indicator appears with changes in the patient’s pulse signals. It is designed to alert you to inconsistencies in the patient’s SpO₂ perfusion.

Sensor Indicator - And for added assurance, a sensor icon indicates sensor presence or if the sensor needs readjustment.

Cost-Effective Maintenance

When dealing with quantitative measurement devices, it’s important to keep their calibration up-to-date. The Avant 2120 can be calibrated on-site using simple equipment and a flip of the switch located on the back of the unit. There is no need to send the unit in for routine calibration – users can cost-effectively calibrate the NIBP module on their own. As an added convenience, the Avant 2120 only requires calibration of the NIBP module once a year or every 10,000 cycles, whichever comes first.

Measurement Versatility

The Avant 2120 offers a variety of options to ensure you get the data needed to monitor the patient effectively – even in the most challenging situations.

Automatic Mode - Set the time interval between the readings and the monitor does the rest.

On-Demand Readings - Conveniently measure with a simple press of a button.

History Review - Provides up to 300 NIBP readings for your review, with readings numbered sequentially from earliest to the most recent.

Inflation Pressure - Easily adjust pressure to meet patient’s specific needs.

Universal Date Format - An internal clock and calendar can be set in International or US date format.

Dynamic Pressure Management - After the first blood pressure reading the Avant 2120 will determine correct inflation pressure for subsequent readings and dynamically adjusts the inflation pressure.

Dependable NIBP & SpO₂ Alarms

Individual alarm parameters may be easily modified to meet the dynamics of your patient population.

Customize NIBP Alarms - Easily adjust the high and low systolic and diastolic pressure values.

Reliable MAP Values - Select the high and low mean arterial pressure (MAP) alarm values to provide a simple indicator of the patient’s current blood pressure status.

Customize SpO₂ Alarms - Use standard high and low oximetry alarm values or change the alarm parameters to meet your specific needs.

Recall Settings - Conveniently recall your customized alarm settings the next time you use the Avant 2120.

*The Avant 2120 comes standard with the W4000A adult articulated reusable sensor and the standard adult blood pressure cuff.
Comprehensive Data Capture

With the standard integrated SpO2, memory, the Avant 2120 can be used for extended monitoring situations. When used with Nonin’s proprietary software, nVISION™, a clear picture of the trended SpO2 and heart rate data can be reviewed instantly — including the ability to edit trended data.

Powerful Options

The Avant 2120 includes the option of dual voltage adaptability or battery operation (universal power pack) — providing a reliable power source for any application — anywhere. Its impressive battery life and quick recharge time make it a rugged workhorse.

You can be confident that the user-friendly Avant 2120 will make patient monitoring convenient wherever NIBP and/or pulse oximetry is needed. Ideal for pediatric through adult patients, the Avant 2120 can be customized to fit any application:

- Assorted Cuff Sizes - Fits a wide range of patients
- Rolling Stand - Standard or deluxe stand increases portability
- Sensors - Complete line of sensors
- NMH Battery Pack - Flexible power source for mobility
- Carrying Case - Convenient for transport and storage
- nVISION™ Data Management Software - For vascular screening

Your Partner of Choice

With over 15 years of experience and dedication to the design and support of Nonin’s noninvasive monitoring devices, Nonin has helped many medical professionals create clinical and economic efficiencies. Trusted by clinicians worldwide, you are protected every day on more than 125 countries. Nonin’s dedication to technological leadership, precision manufacturing, and uncompromised customer support ensure quality products and service you expect.

Please contact your authorized distributor for more information.

Specifications

- **Noninvasive Blood Pressure**
  - **Method of Measurement**: Oscillometric
  - **Arm Pressure Range**: Systolic: 40 mmHg to 260 mmHg
    - Diastolic: 25 mmHg to 200 mmHg
  - **Pressure Transducer Accuracy**: ±3 mmHg between 0 mmHg and 300 mmHg for operating conditions between 0°C and 50°C. (S.D. of ±8 mmHg)
  - **Recommended Frequency of Pressure Transducer Calibration**: The Pressure Transducer calibration should be verified yearly or every 10,000 readings, whichever comes first.
  - **Pulse Rate Range**: 18 to 200 pulses per minute
  - **Diastolic**: ≤20% of systolic
  - **Systolic - Diastolic**: ≤50 mmHg
  - **MAP = 1/3 Systolic + 2/3 Diastolic**
  - **Blood Pressure Altitude**: ≤7.5 to 7,600 m

- **Oximeter**
  - **Dissolved Oxygen Saturation**: 100% to 95%
  - **SpO2 Range**: 0% to 100%
  - **Pulse Rate**: ±3% ±1 digit (%SpO2) (±1 S.D.)

- **Display**
  - **Numeric Displays**: 3-digit LEDs, Tricolor (red, green, amber)
  - **Pressure Indicator**: Tricolor (red, green, amber)
  - **Material Handling**: Red Light
  - **Accuracy**: ±2% of reading
  - **Excitation Extinction**: 470 ± 10 nm, 660 ± 10 nm
  - **Operating Altitude**: Up to 40,000 feet
  - **Temperature**: +32° to +122°F (+0° to +50°C) / -4° to +113°F (-20° to +50°C)
  - **Humidity**: 10% to 90% noncondensing / 10% to 95% noncondensing
  - **Altitude**: Up to 4 atmospheres
  - **Operating / Storage**: 10% to 90% noncondensing / 10% to 95% noncondensing
  - **Temperature**: +32° to +122°F (+0° to +50°C) / -4° to +113°F (-20° to +50°C)
  - **Humidity**: 10% to 90% noncondensing / 10% to 95% noncondensing

- **System**
  - **Mode of Operation**: Continuous
  - **Power Requirements**: 5.4 volt battery pack (6 cells) or 12 VDC AC adapter
  - **Battery Life**: Minimum 5 hours of continuous operation / 18 days
  - **Battery Capacity**: 4.5 x 7.5 x 5.4 in.
  - **Weight**: 45.3 oz with batteries (1.3 kg)
  - **Dimensions**: (11.4 x 19.0 x 13.8 cm)

- **Sensors**
  - **Infrared**: 910 nanometers @ 3 mw nominal
  - **Red**: 660 nanometers @ 3 mw nominal

- **Rolling Stand**
  - **Type**: Standard or Deluxe
  - **Height**: 200 mm pulse rate

- **Closing**
  - **Commercial Grade**
  - **Class**: I (when on AC power with 300PS-UNIV battery charger)
  - **Class**: II (when on AC power with all other specified battery chargers)
  - **Degree of Protection**: Type BF-Applied Part (Pulse Oximeter & NIBP)
  - **Defibrillator Proof**: (NIBP ONLY)
  - **Enclosure Degree of Ingress Protection**: IPX0

- **NIBP Monitor**
  - **Blood Pressure Range**:
    - **Systolic**: 40 mmHg to 260 mmHg
    - **Diastolic**: 25 mmHg to 200 mmHg
  - **Mode of Operation**: Continuous
  - **Accuracy**: ±3% ±1 digit
  - **Degrees of Pressure**:
    - **Systolic**: 18 to 300 pulses per minute
    - **Diastolic**: ≤20% of systolic
    - **Systolic - Diastolic**: ≤50 mmHg
  - **MAP = 1/3 Systolic + 2/3 Diastolic**
  - **Pulse Rate**: ±3% ±1 digit (%SpO2) (±1 S.D.)

- **Battery Pack**
  - **NiMH Battery Pack**: Flexible power source for mobility
  - **Power Requirements**: 5.4 volt battery pack (6 cells) or 12 VDC AC adapter
  - **Battery Life**: Minimum 5 hours of continuous operation / 18 days
  - **Battery Capacity**: 4.5 x 7.5 x 5.4 in.
  - **Weight**: 200 mm pulse rate

- **System**
  - **Mode of Operation**: Continuous
  - **Power Requirements**: 5.4 volt battery pack (6 cells) or 12 VDC AC adapter
  - **Battery Life**: Minimum 5 hours of continuous operation / 18 days
  - **Battery Capacity**: 4.5 x 7.5 x 5.4 in.
  - **Weight**: 200 mm pulse rate

- **Electronic Enclosure**
  - **Degree of Protection**: Type BF (Pulse Oximeter & NIBP)
  - **Degree of Protection**: Defibrillator Proof (NIBP ONLY)

- **Warranty**: 3 yrs for Pulse Oximeter, 2 yr for NIBP Monitor, 1 yr for Battery Pack

- **Data Management Software**: nVISION™, a clear picture of the trended SpO2 and heart rate data can be reviewed instantly — including the ability to edit trended data.

Product Highlights

- **Dual Functionality**: NIBP & SpO2 monitoring
- **Flexible**: Automated and on-demand NIBP measurements
- **Adjustable Pressure**: User or system-defined dynamic inflation pressure
- **Cost Effective**: Quick on-site user calibration
- **Efficient**: Dual voltage adaptability or battery operation, quick recharge
- **Comprehensive Data Capture**: Ideal for extended monitoring

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