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Dear Customers

Congratulations on purchasing A&D aneroid sphygmomanometer. This device is a common blood pressure measurement instrument by K-sound type. It's easy to use and has high accuracy of test result. It's mostly used in clinic and home.

We recommend that you read through this manual carefully before using the device for the first time.

Preliminary Remarks

- The device conforms to the European regulation in force for MDR 2017/745/EU for Medical Products. This is made evident by the CE mark of conformity. (CE0344: The reference number to the involved notified body)
- The device is designed for use on adults, not newborns or infants.
- Environment for use. The device is for use to operate by yourself in the home healthcare environment.
- This device is designed to measure blood pressure of people for diagnosis.

Precautions

- Precision components are used in the construction of this device. Extremes in temperature, humidity, direct sunlight, shock or dust should be avoided.
- Clean the device and cuff with a dry, soft cloth or a cloth dampened with water and a neutral detergent. Never use alcohol, benzene, thinner or other harsh chemicals to clean the device or cuff.
- Avoid tightly folding the cuff or storing the hose tightly twisted for long periods, as such treatment may shorten the life of the components.
- Take care to avoid accidental strangulation of babies or infants with the hose.
- Do not twist the air hose during measurement. This may cause injury due to continuous cuff pressure.
- The device and cuff are not water resistant. Prevent rain, sweat and water from soiling the device and cuff.
- When reusing the device, confirm that the device is clean.
- Used equipment, parts and batteries are not treated as ordinary household waste, and must be disposed of according to the applicable local regulations.
- Do not modify the device. It may cause accidents or damage to the device.
- To measure blood pressure, the arm must be squeezed by the cuff hard enough to temporarily stop blood flow through the artery. This may cause pain, numbness or a temporary red mark to the arm. This condition will appear

especially when measurement is repeated successively. Any pain, numbness, or red marks will disappear with time.

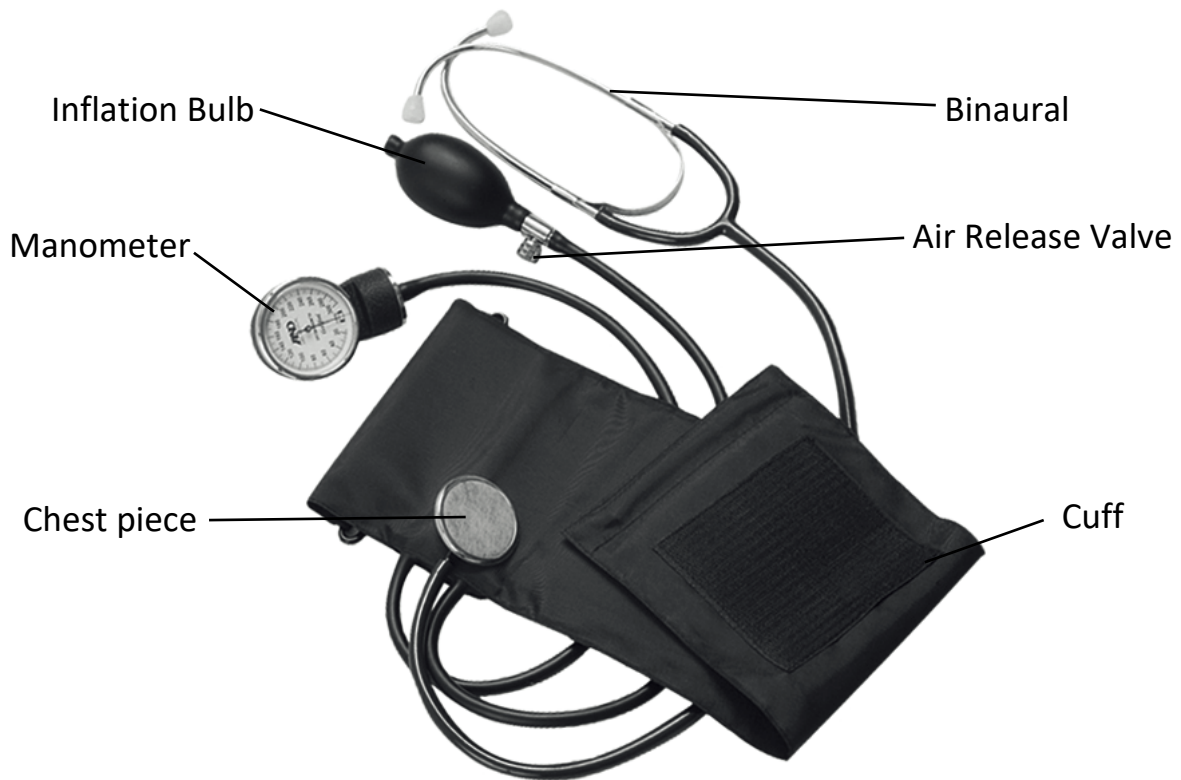
- Measuring blood pressure too frequently may cause harm due to blood flow interference. Check that the operation of the device does not result in prolonged impairment of blood circulation, when using the device repeatedly.
- If you have had a mastectomy, please consult a doctor before using the device.
- Do not let children use the device by themselves and do not use the device in a place within the reach of infants. It may cause accidents or damage.
- There are small parts that may cause a choking hazard if swallowed by mistake by infants.
- Use of accessories not detailed in this manual may compromise safety.
- Allow the device to adapt to the surrounding environment before use (about one hour).
- Do not inflate without wrapping the cuff around the upper arm.

Contraindications

The following are precautions for proper use of the device.









- Do not apply the cuff on an arm with another medical electrical equipment attached. The equipment may not function properly.
- People who have a severe circulatory deficit in the arm must consult a doctor before using the device, to avoid medical problems.
- Do not self-diagnose the measurement results and start treatment by yourself. Always consult your doctor for evaluation of the results and treatment.
- Do not apply the cuff on an arm with an unhealed wound.
- Do not apply the cuff on an arm receiving an intravenous drip or blood transfusion. It may cause injury or accidents.
- Do not use the device where flammable gases such as anesthetic gases are present. It may cause an explosion.
- Do not use the device in highly concentrated oxygen environments, such as a high-pressure oxygen chamber or an oxygen tent. It may cause a fire or explosion.

Parts Identification



Components: Manometer, Inflation Bulb with Air Release Valve, Cuff with Chest piece, Binaural, Instruction manual, Carrying Case

Symbol

	Medical device
	CE marking for medical device
	Legal manufacturer
	EU representative
	Not water resistant
	Caution
	Green dot recycle
	Recycle

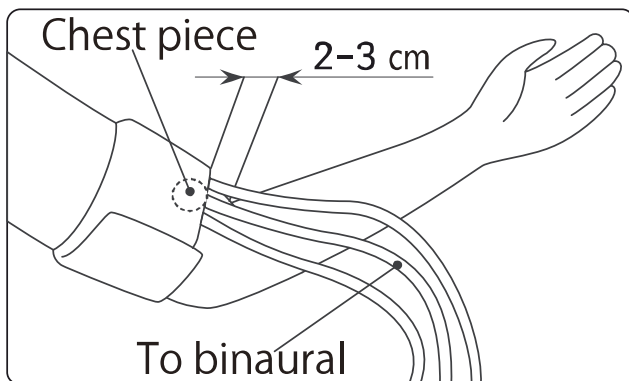
Using the Monitor

Blood pressure measurement

-Apply the cuff on the right or left Upper arm, making sure that its bottom edge is 2-3cm above the elbow.

- Ensure the artery mark is located on the artery and positioned at heart level and rests on the inside of the biceps.

Please check the stethoscope chest piece is inserted under the cuff and on the artery



-In order to obtain an accurate reading, the cuff must be positioned at heart level; the slightly flexed arm must be rested on a flat surface and the muscle must be totally relaxed.

-Check that the deflating valve on the bulb is tightly closed by rotating it anti-clockwise, then attach the ear-pieces of the binaural to the ears and start measuring by inflating the cuff to its maximum pressure which should not exceed the expected maximum by more than 20-30mmHg.

-Open the air release valve a little by rotating it clockwise and allow the air to escape as uniformly as possible at a rate of 2-3mmHg per second.

-When the pressure inside the cuff drops lower than the arterial peak, the typical tone of the artery will be heard at every beat through the stethoscope

-When you hear the first tone, read the value on the pressure gauge scale that corresponds to the maximum (or systolic) pressure. Listen carefully and when you hear the last tone, read the value on the pressure gauge scale; this is the minimum (or diastolic) pressure.

-After reading the pressure values, let all the air out of the cuff and, if the reading is doubtful, repeat the operation after 10-15 minutes.

Using the Monitor

Selecting the Correct Cuff Size

Using the correct cuff size is important for an accurate reading. If the cuff is not the proper size, the reading may yield an incorrect blood pressure value.

- The arm size is printed on each cuff.
- The index ▲ and proper fit range, on the cuff, tell you if you are applying the correct cuff. (Refer to Table "Symbols that are printed on the cuff" on the next page)
- If the index ▲ points outside of the range, contact your local dealer to purchase a replacement cuff.
- The arm cuff is a consumable. If it becomes worn, purchase a new one.

Arm Size	Recommended Cuff Size	Catalog Number
22 cm to 32 cm	Adult Cuff	UA-111-01EC
32 cm to 45 cm	Large Cuff	UA-111-02EC
23 cm to 37cm	Wide Range Cuff	UA-111-03EC
18 cm to 22cm	Small Cuff	UA-111-04EC

Arm size: The circumference at the biceps.

Troubleshooting

Problem	Possible Reason	Recommended Action
The cuff does not inflate.	The valve is not closed.	Close the air release valve
The device does not measure. Readings are too high or too low.	The cuff is not applied properly.	Apply the cuff correctly.
	You moved your arm or body during measurement.	Make sure you remain very still and quiet during measurement.
	The cuff position is not correct.	Sit comfortably and still. Place your arm on a table with your palm facing upward and the cuff at the same level as your heart.
Other	The value is different from that measured at a clinic or doctor's office.	Refer to the section "Why Measure Blood Pressure at Home?"

Note: If the actions described above do not solve the problem, contact the dealer. Do not attempt to open or repair this product, as any attempt to do so will make your warranty invalid.

Maintenance

Do not open the device. It uses delicate components and an intricate air unit that could be damaged. If you cannot fix the problem using the troubleshooting instructions, contact the authorized dealer in your area or our customer service department. The A&D customer service will provide technical information, spare parts and units to authorized dealers.

The device was designed and manufactured for a long service life. However, it is generally recommended to have the device inspected every 2 years, to ensure proper functioning and accuracy. Please contact the authorized dealer in your area or A&D for maintenance.

- To clean your sphygmomanometer use a clean soft cloth.
- Do not immerse the equipment in liquids to clean it.
- Do not hot sterilize.
- Do not drop the manometer.

Technical Data

Type	UA-100
Measurement method	Korotkoff sounds
Measurement range	Pressure: 0 – 300 mmHg
Resolution	2mmHg
Pressure measurement accuracy	Pressure: ± 3 mmHg
Operating conditions	+10 to +40 °C / 15 to 85 %RH / 800 to 1060 hPa
Transport / Storage conditions	-20 to +60 °C / 10 to 95%RH / 700 to 1060 hPa
Dimensions	Approx. 220 [W] x 110 [H] x 60 [D] mm (nylon bag size)
Weight	Approx. 409g (without box)
Useful life	Device: 3 years (when used six times a day)

*Built to EN ISO 81060-1 Standards

*the lowest value on the scale is “0”, the aneroid needle in the “0” position must be within a tolerance of +/-3mmHg

This device complies with the European regulation in force for MDR 2017/745/EU