

Digital Blood Pressure Monitor

Model UA-787

Instruction Manual

FRANÇAIS

ESPAÑOL I

TALIANO

Manuel dnstructions

Manual de Instrucciones

Manuale di Istruzioni

使用手册



Preliminary Remarks

This device conforms to the European Directive 93/42 EEC for Medical Products. This is evidenced by the CE mark of conformity accompanied by the reference number of a designated authority.

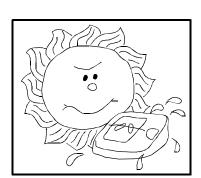
The device is only designed for adults, not newborns or infants.

Environment for use

The device is for use at home.

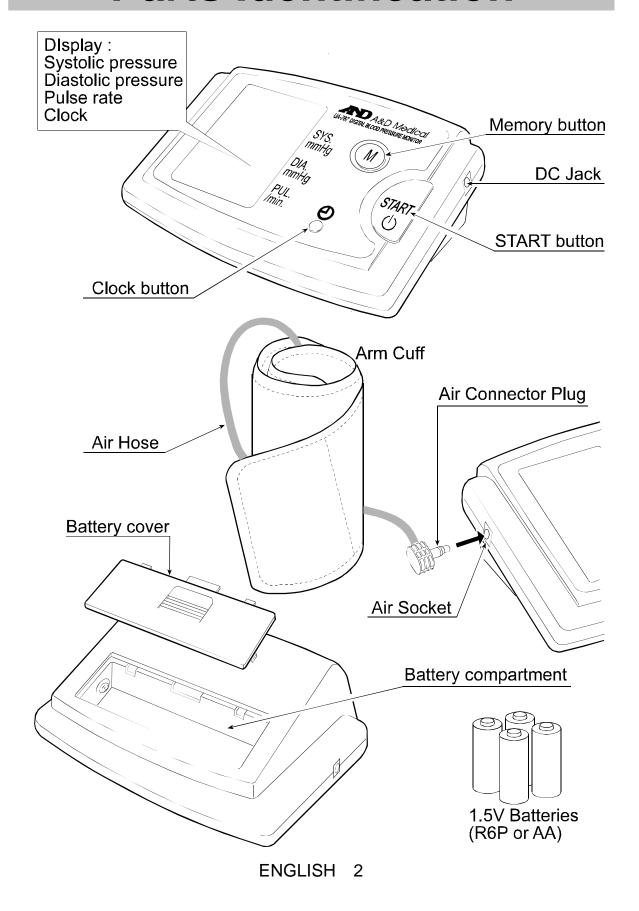
Precautions

- Precision components were used in the 1. construction of this device. Extremes in temperature, humidity, direct sunlight, shock or dust should be avoided.
- 2. Clean the device with a dry, soft cloth. Never use thinner, alcohol, benzine, or wet cloths.
- 3. Avoid tightly folding the cuff or storing the hose tightly twisted for long periods, as such treatment may shorten the life of the components.



- 4. The device and cuff are not water resistant. Prevent rain, sweat and water from wetting the device and cuff.
- Measurements may be impaired if the device is used close to televisions, 5. microwave ovens, cellular telephones, X-ray or other devices with strong electrical fields.
- 6. Used equipment, parts and batteries are not treated as ordinary household waste, and must be disposed of according to the applicable regulations.

Parts Identification



Symbols

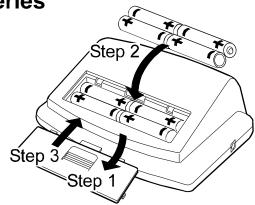
Symbols	Function / Meaning	Recommended Action	
Ů	Standby and Turn the device on.		
1+	Battery installation guide		
	Direct current		
SN	Serial number		
2001쎈	Date of manufacture		
*	Type BF: Device, cuff and tubing are designed to provide special protection against electrical shocks.		
•	The indicator while measurement is in progress. It blinks while detecting the pulse.	Measurement is in progress remain as still as possible.	
((\(\))	Irregular heart beat indicator. The indicator that detects irregular heart beats or any excessive body movement during the measurement.		
M	Previous measurements stored in MEMORY.		
Full Battery	The battery power indicator during measurement.		
Dattery low	The battery is low when it blinks.	Replace all batteries with new ones, when the indicator blinks.	
	Unstable blood pressure due to movement during the measurement.	Try measurement again. Remain very still during the measurement.	
Err	The systolic and diastolic values are within 10 mmHg of each other. The pressure value did not increase during inflation.	Fasten the cuff correctly, and try the measurement again.	
	The cuff is not fastened correctly.		
Err Pul. Display error	The pulse is not detected correctly.		
SYS	Systolic blood pressure in mmHg		
DIA	Diastolic blood pressure in mmHg.		
PUL./min	Pulse per minute		
<u> </u>	Clock button mark	If you want to stop the sound,	
P	Alarm ON/OFF mark of the reminder	press the START button.	
C € ₀₃₆₆	EC directive medical device label		
C N92	The certification trade mark registered to the Australian Communication		

Using the Monitor

1. Installing / Changing the batteries

- 1. Remove the battery cover.
- 2. Insert new batteries into the battery compartment as shown, taking care that the polarities (+) and (-) are correct.
- 3. Close the battery cover.

Use only R6P, AA batteries.

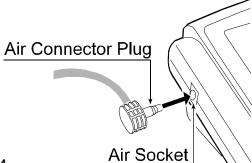


CAUTION

- Insert the batteries as shown in the battery compartment. If not, the device will not work.
- When (LOW BATTERY mark) blinks in the display, replace all batteries with new ones. Do not mix old and new batteries. It may shorten the battery life, or cause the device to malfunction.
- (LOW BATTERY mark) does not appear when the batteries are drained.
- Battery life varies with the ambient temperature and may be shorter at low temperatures.
- · Remove the batteries if the device is not to be used for a long time.
- The batteries may leak and cause a malfunction.
- Use the specified batteries only. The batteries provided with the device are for testing monitor performance and may have a shorter life.

2. Connecting the air hose

Insert the air connector plug into the air socket firmly.



Using the Monitor

3. Adjusting the Built-in Clock

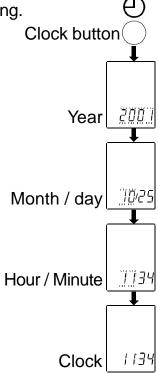
The monitor has a built-in clock. We recommend that you adjust the clock prior to use.

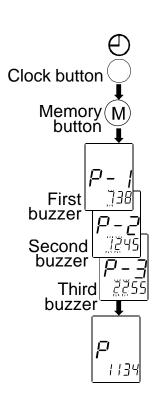
- 1. Press and hold the clock button until the digits start blinking.
- Select the year using the START button.
 Press the clock button to set the current year and move selection to month/day. The date can be set anywhere between the years 2000 and 2050.
- 3. Select the month using the START button. Press the clock button to set the current month and move to day selection.
- Select day using the START button.
 Press the clock button to set the current day and move to hour/minute selection.
- Select hour using the START button. Press the clock button to set the current hour and move to minute selection.
- Select minute using the START button. Press the clock button to set the current minute and activate the clock.

4. Setting Three Reminders

This monitor has 3 reminder alarms. You can set 3 different reminder alarms within a 24-hour period.

- 1. Press and hold the clock button until the digits start blinking. Then press the memory button. "P-1" is shown at the middle line of the display.
- Select hour using the START button and press the clock button to set the hour and move to minute selection. Press the memory button to complete the reminder setting after selecting minute.
- 3. Then the display shows "P-2" for the second reminder. Repeat the above process if you need a second reminder.





4. A third reminder can be set as well.

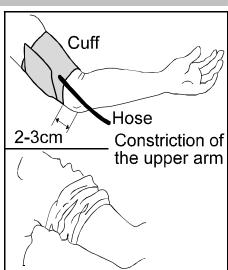
5. Alarm ON/OFF mark on the Display

When the alarm is on, a "p" appears on the LCD display. To turn the alarm off, simply press the clock button once. The alarm will sound for 1 minute. To turn off the alarm, press the START button once.

Using the Monitor

6. Attaching the arm cuff

- 1. Wrap the cuff around the upper arm, about 2-3 cm above the elbow, as shown. Place the cuff directly against the skin, as clothing may cause a faint pulse, and result in a measurement error.
- Constriction of the upper arm, caused by rolling up a shirtsleeve, may prevent accurate readings.



7. How to take proper measurements

For the most accurate blood pressure measurement:

- · Sit comfortably at a table. Rest your arm on the table.
- Relax for about five to ten minutes before measurement.
- Place the center of the cuff at the same height as your heart.
- Remain still and keep quiet during measurement.
- Do not measure right after physical exercise or a bath. Rest twenty or thirty minutes before taking the measurement.
- Try to measure your blood pressure at the same time every day.

8. Measurement

During measurement, it is normal for the cuff to feel very tight. (Do not be alarmed).

9. After measurement

After measurement, press the START button to turn off the power. Remove the cuff and record your data.

Note: The device has an automatic power shut-off function, which turns the power off automatically one minute after measurement.

Allow at least ten minutes between measurements on the same person.

Measurements

Model UA-787 is designed to detect the pulse and to inflate the cuff to systolic pressure level automatically.

If your systolic pressure is expected to exceed 230 mmHg or you use the optional small cuff, read "Measurement with the desired systolic pressure" on next page.

Normal Measurement

- 1. Place the cuff on the arm (preferably the left arm). Sit quietly during measurement.
- 2. Press the START button.

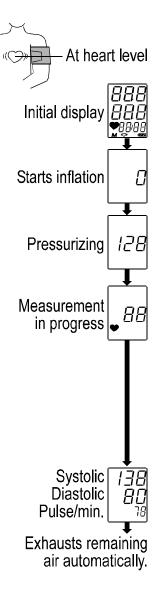
All display symbols appear briefly, then the display changes as indicated in the figure at the right as the measurement begins.

The cuff starts to inflate. It is normal for the cuff to feel very tight.

Note: If you wish to stop inflation at any time, press the START button again.

Note: If an appropriate pressure is not obtained, the device starts to inflate again automatically.

4. When the measurement is complete, the systolic and diastolic pressure readings and pulse rate are displayed. The cuff exhausts the remaining air and deflates completely.



5. Press the START button again to turn off the power.

Note: The device is provided with an automatic power shut-off function.

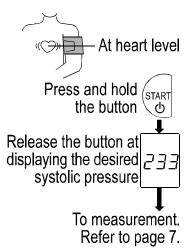
Allow at least ten minutes between measurements on the same person.

Measurements

Measurement with the desired systolic pressure

If your systolic pressure is expected to exceed 230 mmHg or you use the optional small cuff, use this procedure.

- 1. Place the cuff on the arm (preferably the left arm).
- 2. Press and hold the START button until a number about 30 to 40 mmHg higher than your expected systolic pressure appears.
- Release the START button, when the desired number is reached, measurement will begin.
 Then continue to measure your blood pressure as described on page 7.



Notes for proper measurement

- Sit down in a comfortable position. Place the arm to be used for the measurement on a table or other support so that the center of the cuff will be at the same height as your heart.
- Relax for about five or ten minutes before taking a measurement. If you are excited or depressed by emotional stress, the measurement will reflect this stress as a higher (or lower) than normal blood pressure reading and the pulse reading will usually be faster than normal.
- An individual's blood pressure varies constantly, depending on what you are doing and what you have eaten. What you drink can have a very strong and rapid effect on your blood pressure.
- This device bases its measurements on the heart beat. If you have a very weak or irregular heart beat, the device may have difficulty determining your blood pressure.

- Should the device detect a condition that is abnormal, it will stop the measurement and display an error symbol. See the section on the descriptions of display symbols for details.
- This blood pressure monitor is intended for use by adults only. Consult with your physician before using this device on a child. A child should not use this device unattended.

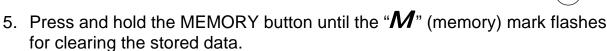
Recalling Memory Data

Note: This device stores the last thirty measurements in memory automatically. The data is retained as long as the batteries are in the device. When you remove the batteries or the batteries are drained, the data will be erased.

1. When nothing is displayed, press the MEMORY button.

Displaying nothing, press and hold the button

- 2. The date and the newest data are displayed.
- 3. When the MEMORY button is pressed while data is displayed, the previous data is displayed.
- Each time the MEMORY button is pressed, the memorized data is displayed. After the last data is displayed, the display goes blank.



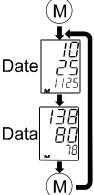
Note: Pressing the START button while the memory data is displayed initiates the UA-787 to start taking a measurement.



1. What is blood pressure?

Blood pressure is the force exerted by blood against the walls of the arteries. Systolic pressure occurs when the heart contracts. Diastolic pressure occurs when the heart expands.

Blood pressure is measured in millimeters of mercury (mmHg). One's natural blood pressure is represented by the fundamental pressure, which is measured first thing in the morning while one is still at rest and before eating.



2. What is hypertension and how is it controlled?

Hypertension, an abnormally high arterial blood pressure, if left unattended, can cause many health problems including stroke and heart attack.

Hypertension can be controlled by altering lifestyle, avoiding stress and with medication under a doctor's supervision.

To prevent hypertension or keep it under control:

- Do not smoke
- · Reduce salt and fat intake
- Maintain proper weight

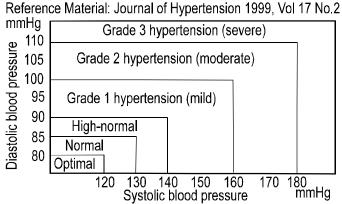
- Exercise regularly
- Have regular physical checkups

3. Why measure blood pressure at home?

Blood pressure measured at a clinic or doctor's office may cause apprehension and can produce an elevated reading, 25 to 30 mmHg higher than that measured at home. Home measurement reduces the effects of outside influences on blood pressure readings, supplements the doctor's readings and provides a more accurate, complete blood pressure history.

4. WHO blood pressure classification

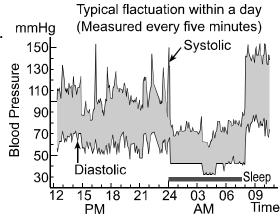
Standards for assessment of high blood pressure, without regard to age, have been established by the World Health Organization (WHO), as shown in the chart below.



5. Blood pressure variations

An individual's blood pressure varies greatly on a daily and seasonal basis. It may vary by 30 to 50 mmHg due to various conditions during the day. In hypertensive individuals, variations are even more pronounced.

Normally, the blood pressure rises while at work or play and falls to its lowest levels during sleep. So, do not be overly concerned by the results of one measurement.



Take measurements at the same time every day using the procedure described in this manual, and know your normal blood pressure. Many readings give a more comprehensive blood pressure history.

Be sure to note date and time when recording your blood pressure. Consult your doctor to interpret your blood pressure data.

Troubleshooting

Problem	Possible reason	Recommended Action
Nothing appears	Batteries are drained.	Replace all batteries with new ones.
in the display, even when the power is turned on.	Battery terminals are not in the correct position.	Reinstall the batteries with negative and positive terminals matching those indicated on the battery compartment.
The cuff does not inflate.	Battery voltage is too low. (LOW BATTERY mark) blinks.[If the batteries are drained completely, the mark does not appear.]	Replace all batteries with new ones.
	The cuff is not fastened properly.	Fasten the cuff correctly.
	You moved your arm or body during the measurement.	Make sure you remain very still and quiet during the measurement.
The unit does not measure. Readings are too high or too low.	The cuff position is not correct.	Sit comfortably and still. Raise your hand so that the cuff is at the same level as your heart.
		If you have a very weak or irregular heat beat, the device may have difficulty in deter-mining your blood pressure.
Other	The value is different from that measured at a clinic or doctor's office.	See "3. Why measure blood pressure at home".
Other		Remove the batteries. Place them back properly and try the measurement again.

Note: If the actions described above do not solve the problem, contact the dealer. Do not attempt to repair the device yourself.

Maintenance

Do not open the device. It uses delicate electrical components and an intricate air unit that could be damaged. If you can not fix the problem using the troubleshooting instructions, request service from your supplier or from the A&D service group. The A&D service group will provide technical information, spare parts and units to authorized suppliers.

The technical testing procedures, which should be done at least every 2 years, can be performed either by the manufacturer or by an authorized repair service in accordance with the regulations governing manufacturing of medical products.

Technical Data

Type UA-787

Measurement method Oscillometric measurement Measurement range Pressure : 20 - 280 mmHg

Pulse: 40 - 200 beats / minute

Measurement accuracy Pressure: ±3 mmHg or 2%, whichever is greater

Pulse : ±5%

Power supply 4 x 1.5V batteries (R6P or AA) or

AC adapter (TB-182)

Upper arm circumference 22 - 36 cm Classification Type BF

Clinical test According to ANSI / AAMI SP-10 1987

EMC IEC 60601-1-2: 1993

Operating condition +10°C to +40°C / 30%RH to 85 %RH
Storage condition -10°C to +60°C / 30%RH to 85 %RH
Dimensions Approx. 163 [W] x 62 [H] x 112 [D] mm
Weight Approx. 350 g, excluding batteries
Clock Digital clock with three reminders

C€0366

Accessory **AC adapter** The adapter is to connect the blood pressure monitor

to a power source at home.

TB-182 Please contact your local A&D dealer for purchasing.

Note: Specifications are subject to change without prior notice.



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