

## Digital Automatic Blood Pressure Monitor Model MIT Elite Plus

- Instruction Manual
- Mode d'emploi
- Gebrauchsanweisung
- Manuale di istruzioni
- Manual de instrucciones
- Gebruiksaanwijzing
- РУКОВОДСТВО ПО ЭКСПЛУАТАЦИИ



A Good Sense of Health

• كتيب الإرشادات

EN

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## Introduction

Thank you for purchasing the OMRON MIT Elite Plus Upper Arm Blood Pressure Monitor.

The OMRON MIT Elite Plus is a fully automatic blood pressure monitor, operating on the oscillometric principle. It measures your blood pressure and pulse rate simply and quickly. For comfortable controlled inflation without the need for pressure pre-setting or re-inflation the device uses its advanced “IntelliSense” technology.

The unit also stores up to 90 measurements in memory and calculates an average reading based on the three most recent measurements taken within 10 minutes of the last reading.

Omron’s blood pressure management software included with this unit allows you to view, manage and print data about blood pressure measured by the OMRON MIT Elite Plus. Included software is in English only.



**Please read this instruction manual thoroughly before using the unit. For specific information about your own blood pressure, CONSULT YOUR DOCTOR.**

EN

## Important Safety Information

Consult your doctor during pregnancy, arrhythmia and arteriosclerosis. Please read this section carefully before using the unit.

### **Warning:**

Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

#### **(General Usage)**

- Always consult your doctor. Self-diagnosis of measurement results and self-treatment are dangerous.
- People with severe blood flow problems, or blood disorders, should consult a doctor before using the unit. Cuff inflation can cause internal bleeding.

#### **(Battery Usage)**

- If battery fluid should get in your eyes, immediately rinse with plenty of clean water. Consult a doctor immediately.

#### **(Optional AC Adapter Usage)**

- Never plug in or unplug the power cord from the electric outlet with wet hands.

### **Caution:**

Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury to the user or patient or damage to the equipment or other property.

#### **(General Usage)**

- Do not leave the unit unattended with infants or persons who cannot express their consent.
- Do not use the unit for any purpose other than measuring blood pressure.
- Do not disassemble the unit or arm cuff.
- Do not inflate the arm cuff over 299 mmHg.
- Do not use a mobile phone, or other devices that emit electromagnetic fields, near the unit. This may result in incorrect operation of the unit.
- Do not operate unit in a moving vehicle (car, airplane).
- Do not play the CD-ROM disc included with this monitor on general audio players, DVD players or personal game devices. It may damage the speaker of the device and may harm your hearing ability.

**(Optional AC Adapter Usage)**

- Use only the original AC adapter designed for this unit. Use of unsupported adapters may damage and/or may be hazardous to the unit.
- Plug the AC adapter into the appropriate voltage outlet.
- Do not use the AC adapter if the unit or the power cord is damaged. Turn off the power and unplug the power cord immediately.

**(Battery Usage)**

- If battery fluid should get on your skin or clothing, immediately rinse with plenty of clean water.
- Use only four “AAA” alkaline batteries with this unit. Do not use other types of batteries.
- Do not insert the batteries with their polarities incorrectly aligned.
- Replace old batteries with new ones immediately. Replace all four batteries at the same time.
- Remove the batteries if the unit will not be used for three months or more.
- When the batteries are replaced, you may need to reset the date and time. If the year is flashing on the display screen, refer to “2.2 Setting the Date and Time”.
- Do not use new and used batteries together.

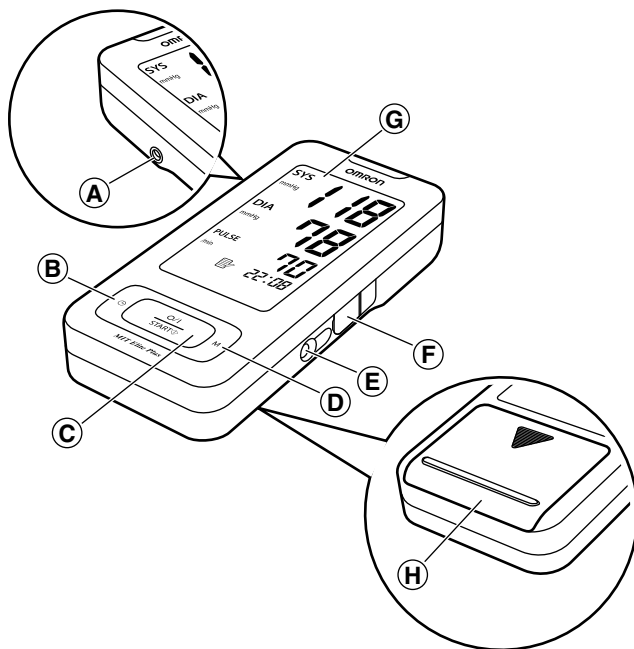
**General Safety Precautions**

- Do not inflate the arm cuff when it is not wrapped around your arm.
- Do not apply strong shocks and vibrations to or drop the unit.
- Do not take measurements after bathing, drinking alcohol, smoking, exercising or eating.
- Do not wash the arm cuff or immerse it in water.
- Read and follow the “Important information regarding Electro Magnetic Compatibility (EMC)” in the Technical Data Section.
- Read and follow the “Correct Disposal of This Product” in the Technical Data Section when disposing of the device and any used accessories or optional parts.

**Save these instructions for future reference.**

# 1. Overview

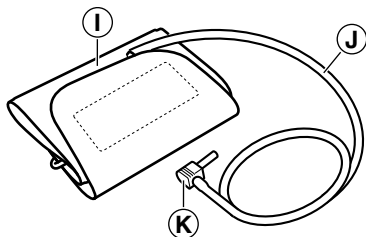
## Main unit



- A. Air jack
- B. Date/time setting button (🕒)
- C. O/I START button
- D. Memory button (M)
- E. AC adapter jack (for optional AC adapter)

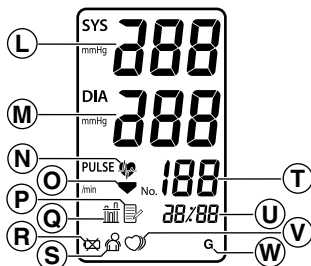
- F. USB port
- G. Display
- H. Battery compartment

## Arm Cuff



- I. Arm cuff  
(Medium cuff: arm circumference 22-32 cm)
- J. Air tube
- K. Air plug

## Display

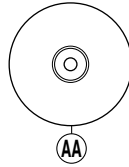
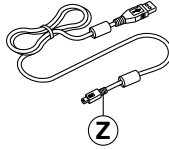
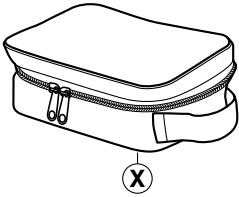


- |  |  |
|--|--|
| <ul style="list-style-type: none"> <li>L. Systolic blood pressure</li> <li>M. Diastolic blood pressure</li> <li>N. Heartbeat symbol               <ol style="list-style-type: none"> <li>1. Flashes during measurement</li> <li>2. If flashing after measurement complete indicates blood pressure out of recommended range</li> </ol> </li> <li>O. Deflation symbol</li> <li>P. Memory symbol<br/>Displayed when viewing values stored in memory</li> <li>Q. Average value symbol<br/>Displayed when viewing value for the last three measurements</li> <li>R. Battery low symbol</li> <li>S. Movement error symbol<br/>Displayed if you move your body during the measurement</li> </ul> | <ul style="list-style-type: none"> <li>T. Pulse display</li> <li>U. Date/Time display</li> <li>V. Irregular heartbeat symbol</li> <li>W. Guest symbol</li> </ul> |
|--|--|

**Note:** The backlight turns on when setting the date and time, when taking measurement, and displaying measurement values.



## Package contents



- X. Storage case
- Y. Four “AAA” alkaline (LR03) batteries
- Z. USB cable
- AA. CD-ROM

- Instruction manual
- Guarantee card
- Blood pressure pass
- Software Installation Guide

## 2. Preparation

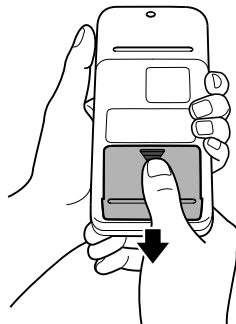
### 2.1 Installing/Replacing the Batteries

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1. Turn the main unit upside down.

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2. Slide the battery cover in the direction of the arrow while pressing the ribbed part of the cover.



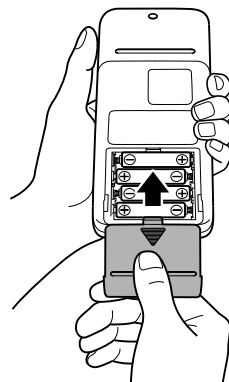
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3. Install or replace four “AAA” size batteries so that the + (positive) and - (negative) polarities match the polarities indicated on the battery compartment.

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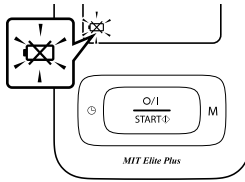
4. Put the battery cover back in place.


Slide the battery cover as indicated, until it clicks into place.





**Note:** The measurement values continue to be stored in memory even after the batteries are replaced.

## Battery Life & Replacement



If the battery low symbol (  ) appears on the display, replace all four batteries at the same time.

- When the battery low symbol (  ) starts to blink, you will still be able to use the unit for a short while. You should replace the batteries with new ones ahead of time.
- When the symbol (  ) remains lit, the batteries are exhausted. You should replace the batteries with new ones at once. Turn the unit off before replacing the batteries.
- Remove the batteries if the unit will not be used for three months or more.
- If the batteries have been removed for more than 30 seconds, the Date/Time setting will need to be reset. See “2.2 Setting the Date and Time” for details.
- Dispose of batteries according to applicable local regulations.

Four new “AAA” alkaline batteries will last for approximately 300 measurements, when used to take three measurements a day.

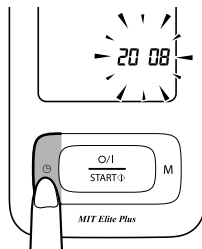
Since the supplied batteries are for monitoring use only, they may have a shorter life and not last for 300 measurements.

## 2.2 Setting the Date and Time

Your blood pressure monitor automatically stores up to 90 measurements values with the date and time. To make use of the memory and average values functions:

- Set the unit to the correct date and time before taking a measurement for the first time.
- If the batteries have been removed for more than 30 seconds, the Date/Time setting will need to be set.

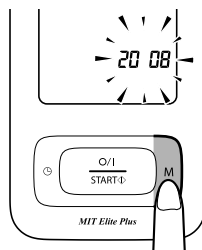
1. Press and hold the Date/time setting button (⊖) to adjust the date and time. The year digits (2008) will flash on the display.



2. Press the Memory button ( M ) to advance the digits one at a time.

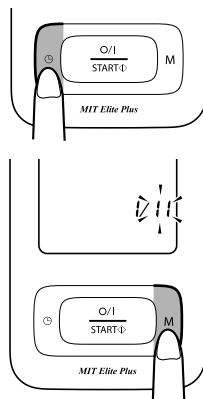
### Notes:

- The range for the year setting is 2008 to 2030. If the year reaches 2030, it will return to 2008.
- If you hold down the Memory button ( M ), the digits will advance rapidly.



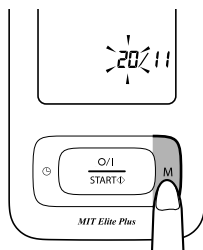
- 3.** Press the Date/time setting button (⌚) to confirm the setting when the desired number appears on the display.

The year is set and the month digits flash on the display.



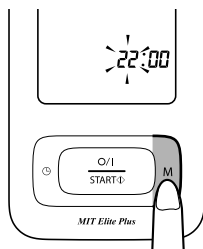
- 4.** Repeat steps 2 and 3 to set the month.

The month is set and the day digits flash on the display.



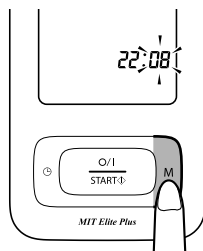
- 5.** Repeat steps 2 and 3 to set the day.

The day is set and the hour digits flash on the display.



- 6.** Repeat steps 2 and 3 to set the hour.

The hour is set and the minutes digits flash on the display.

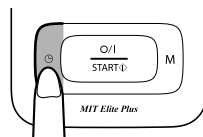


- 7.** Repeat steps 2 and 3 to set the minutes.

The minutes settings is set.

Press the Date/time setting button (⌚) to turn the monitor off.

When adjusting the date and time, press the Date/time setting button (⌚) to turn the monitor on, follow the steps above, and press the O/I START button to turn the monitor off.



### 3. Using the Unit

#### 3.1 How to Sit Correctly When Taking a Measurement

You can take a measurement on either your left or right arm.

##### Notes:

- Measurements should be taken in a quiet place and you should be in a relaxed, seated position. Make sure that the room is not too hot or cold.
- Avoid eating, drinking alcohol, smoking, or exercising for at least 30 minutes before taking a measurement.
- Do not move or talk during measurement.

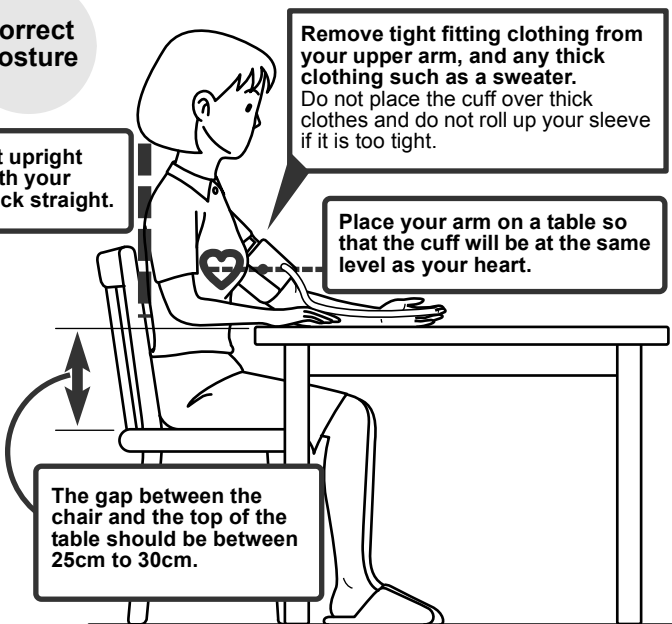
##### Correct Posture

Sit upright with your back straight.

Remove tight fitting clothing from your upper arm, and any thick clothing such as a sweater. Do not place the cuff over thick clothes and do not roll up your sleeve if it is too tight.

Place your arm on a table so that the cuff will be at the same level as your heart.

The gap between the chair and the top of the table should be between 25cm to 30cm.



## Notes:

- Correct posture during measurement is necessary to get accurate results.
- You should also try to measure your blood pressure at the same time each day. (Within 1 hour after waking up is recommended.)

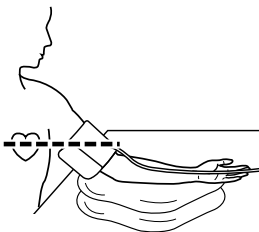
### Incorrect Posture

- **Arched back (leaning forwards)**
- **Sitting cross-legged**
- **Sitting on a sofa or at a low table so that you tend to lean forward**



These situations could lead to higher blood pressure values due to strain or the arm cuff being lower than the heart.

If the arm cuff is at a lower position than your heart use cushions etc., to adjust the height of your arm.





## 3.2 Applying the Arm Cuff

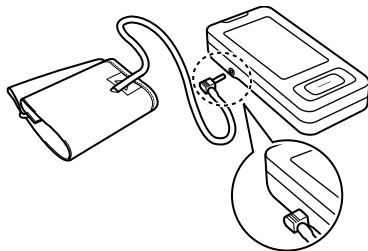
### Notes:

- Be sure to wrap the arm cuff correctly so that you get accurate results.
- Measurements can be taken in light clothing. However, please remove thick clothes, such as sweaters, before taking a reading.
- You can take a measurement on either your left or right arm. The blood pressure can differ between the right arm and the left arm and therefore also the measured blood pressure values can be different. Omron recommends to always use the same arm for measurement. If the values between the two arms differ substantially, please check with your doctor which arm to use for your measurement.

### Taking measurements on the left arm

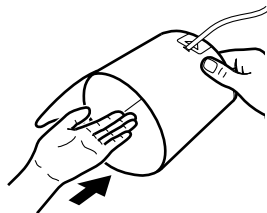
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1. Insert the air plug into the air jack on the left side of the main unit.

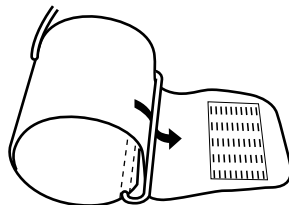


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2. Put your left arm through the cuff loop.

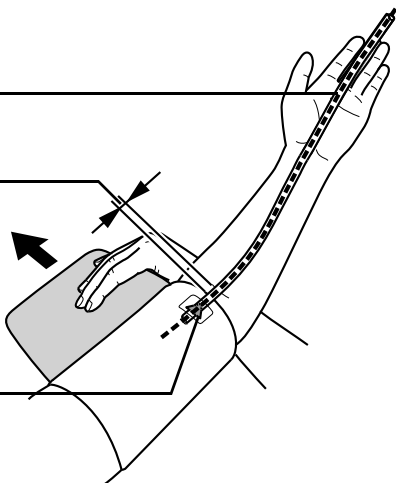


**Note:** If the cuff is not assembled, pass the end of the cuff furthest from the tubing through the metal D-ring to form a loop. The smooth cloth should be on the inside of the cuff loop.



### 3. Position the arm correctly.

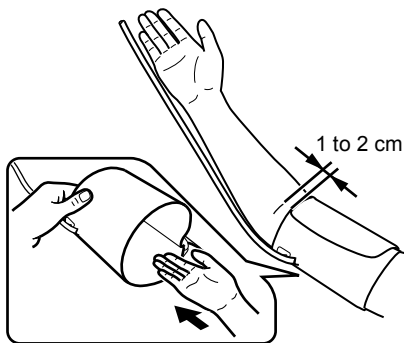
- 1) The air tube should run down the inside of your forearm and be in line with your middle finger.
- 2) The bottom of the cuff should be approximately 1 to 2 cm above your elbow.
- 3) Apply the cuff to your upper arm so that the coloured marker (blue arrow under tube) is centred on the middle of your inner arm and points down the inside of the arm.



### Taking measurements on the right arm

Apply the cuff so that the air tube is at the side of your elbow.

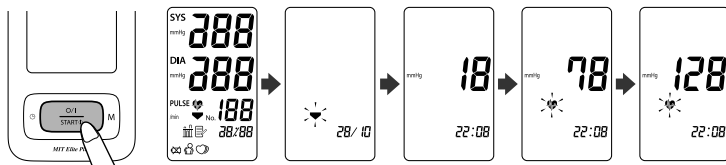
- Be careful not to rest your arm on the air tube, or otherwise restrict the flow of air to the cuff.
- The cuff should be 1 to 2 cm above the elbow.



4. When the cuff is positioned correctly, close the fabric fastener **FIRMLY**.

### 3.3 Taking a Reading

1. Press the O/I START button to turn on the unit.



All symbols appear on the display.

The cuff starts to inflate automatically. As the cuff inflates, the unit automatically determines your ideal inflation level. This unit detects the pulse during inflation. Do not move your arm and remain still until the entire measurement process is completed.

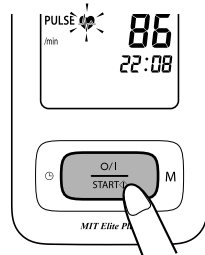
**Note:** To stop the inflation or measurement, press and release the O/I START button. The unit will stop inflating, start deflation and will turn off.

2. When the measurement is complete, the arm cuff completely deflates. Your blood pressure and pulse rate are displayed.



3. Press the O/I START button to turn the unit off.

**Note:** If you forget to turn the monitor off, it will automatically turn off after two minutes.



**Notes:**

- Self-diagnosis of measured results and treatment are dangerous. Please follow the instructions of your doctor.
- Wait 2-3 minutes before taking another blood pressure measurement. Waiting between readings allows the arteries to return to the condition prior to taking the blood pressure measurement.

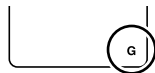
## Using the Guest Mode

The monitor stores measurement values for one user in the memory. The guest mode can be used to take a single measurement for another user.

No measurement values are stored in the memory when the guest mode is selected.

- 
1. Press and hold the O/I START button for 3 seconds.

The Guest symbol ( **G** ) appears on the display.



- 
2. Release the O/I START button.

The cuff starts to inflate automatically.

**Note:** To stop the inflation, press the O/I START button. The monitor will stop inflating, start deflating and turn off.

- 
3. Inflation stops and the measurement is started. When the measurement is completed, your blood pressure and pulse rate appear on the display.

**Important:**

- If your systolic or diastolic pressure is outside the standard range, the heartbeat symbol will blink when the measurement result is displayed.


Recent research suggests that the following values can be used as a guide to high blood pressure for measurements taken at home.

Systolic Blood Pressure	Above 135 mmHg
Diastolic Blood Pressure	Above 85 mmHg

This criteria is for home blood pressure measurement.

For professional office blood pressure measurement criteria, please refer to Chapter 10 “Some Useful Information about Blood Pressure”.


- Your blood pressure monitor includes an irregular heartbeat feature. Irregular heartbeats can influence the results of the measurement. The irregular heartbeat algorithm automatically determines if the measurement is usable or needs to be repeated. If the measurement results are affected by irregular heartbeats but the result is valid, the result is shown together with the irregular heartbeat symbol.

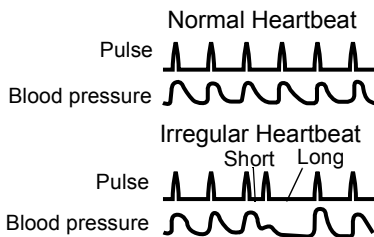
If the irregular heartbeat cause the measurement to be invalid, no result is shown. If the irregular heartbeat symbol (  ) is shown after you have taken a measurement, repeat the measurement. If the irregular heartbeat symbol is shown frequently, please make your doctor aware of it.



## What is Irregular Heartbeat?

An irregular heartbeat is a heartbeat rhythm that varies by more than 25% from the average heartbeat rhythm detected while the unit is measuring the systolic and diastolic blood pressure.


If such an irregular rhythm is detected more than twice during measurement, the irregular heartbeat symbol (  ) appears on the symbol when the measurement results are displayed.




## What is Arrhythmia?

A heartbeat is stimulated by electrical signals that cause the heart to contract.

Arrhythmia is a condition where the heartbeat rhythm is abnormal due to flaws in the bio-electrical system that drives the heartbeat. Typical symptoms are skipped heartbeats, premature contraction, an abnormally rapid (tachycardia) or slow (bradycardia) pulse. This can be caused by heart disease, aging, physical predisposition, stress, lack of sleep, fatigue etc. Arrhythmia can only be diagnosed by a doctor through a special examination.

Whether the appearance of the irregular heartbeat symbol (  ) in the results indicates arrhythmia or not can only be determined by an examination and diagnosis by your doctor.

### Warning:

**If the Irregular heartbeat symbol (  ) is shown frequently, please make your doctor aware of it. Conducting self-diagnosis and treatment based on measurement results are dangerous. Be sure to follow the instructions of your doctor.**



## 3.4 Using the Memory Function

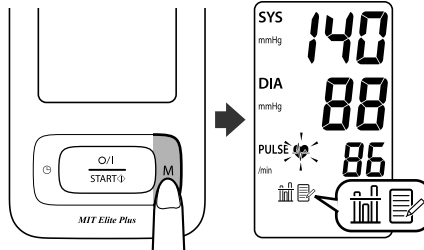
This unit has a memory capable of storing 90 sets of readings. Every time you complete the measurement, the unit automatically stores the blood pressure and pulse rate.

If there are three readings within 10 minutes of the last reading, the average of the three readings is displayed.

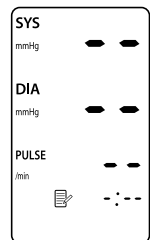
**Note:** When 90 sets of readings are stored in memory, the oldest set will be deleted to store a new set.

### 1. Press the Memory button ( M ).

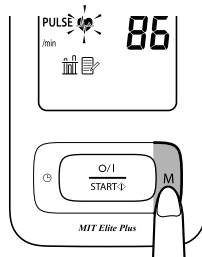
If there are three readings stored in memory that were taken within 10 minutes of the last reading, an average value for those readings is displayed. (If there are only two readings in memory for that period, the average will be based on two readings. If there is only one reading in memory for that period, that reading will be displayed as the average value.)



**Note:** If there are no measurements results stored in memory, the screen to the right is displayed.

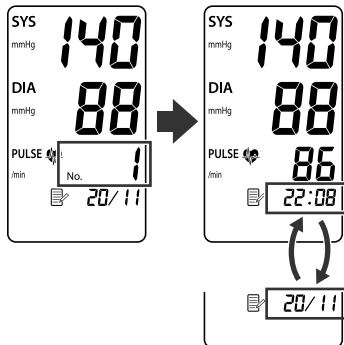


- While the average value is displayed, press the Memory button ( M ) again.



The result from the most recent measurement is displayed.

The date and time are alternately displayed.



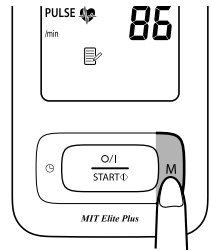
**Note:** If your systolic or diastolic pressure is outside the standard range, the heartbeat symbol will blink when the measurement result is displayed. Refer to section 3.3.



3. Press the Memory button ( M ) repeatedly to cycle through the previous measurement results.

Keep the button pressed down to cycle rapidly through the previous results.

If the irregular heartbeat symbol was displayed at the time of a measurement, this is displayed when that result is displayed.



4. Press the O/I START button to turn the unit off.

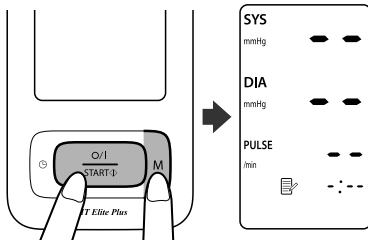
If you forget to turn the unit off, it will automatically shut itself off after two minutes.

## To Delete All the Values Stored in Memory

You cannot delete individual stored readings, all the readings in the unit will be deleted.

1. Press the Memory button ( M ) to turn the monitor on.

2. Press the Memory button ( M ) again. While holding the Memory button ( M ), press the O/I Start button down for approximately 5 seconds until the digital display appears as it does in the illustration to the right.



3. Press the O/I START button to turn the unit off.

If you forget to turn the unit off, it will automatically shut itself off after two minutes.

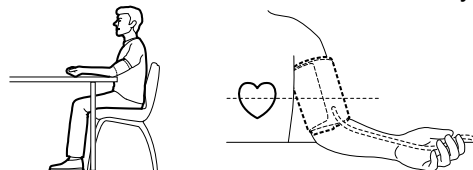
**Note:** If the date and time are reset to a time before the most recent measurement, the average value will be based on any measurements taken after the date and time were reset. However, you can still view the readings stored in memory.

## 4. Quick Reference Guide

If you are using this device for the first time, please read carefully chapter 3 of this instruction manual. To help ensure a reliable reading, avoid eating, drinking alcohol, smoking, or exercising for at least 30 minutes before taking a measurement.

**Note:** Remove any tight-fitting clothing from your upper arm.

1. Sit on a chair with your feet flat on the floor and place your arm on a table so that the arm cuff will be at the same level as your heart.

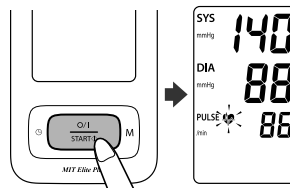


2. Apply the arm cuff to your upper arm. The coloured marker should be centred on the inside of your arm and point down the inside of the arm, so that the air tube runs down the inside of your forearm and is in line with your middle finger.

3. Secure the cuff around your arm using the fabric fastener strip.

4. Press the O/I START button.

When measurement is complete, the monitor displays your blood pressure and pulse rate, and automatically deflates the cuff.



### Notes:

- Always wait at least 2-3 minutes before taking another blood pressure measurement.
- Please note that all measurements are stored in the memory. If different people measure with the same device make sure that you are aware of this fact.

## 5. Using the Software

### OMRON HEALTH MANAGEMENT SOFTWARE

Omron Health Management Software allows you to view, track and print data about blood pressure measured by Omron blood pressure monitors and steps measured by OMRON step counters with a PC download.

**⚠ Caution:**

This is a CD-ROM disc. Do not play this disc on general audio players, DVD players or personal game devices. It may damage the speaker of the device and may harm your hearing ability.

Refer to the enclosed Software Installation Guide for details on installing and using the software.

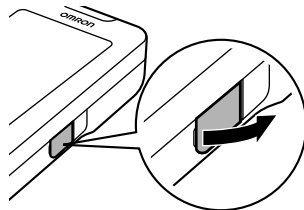
Use only the authorized Omron USB cable included with this unit.

**⚠ Caution:**

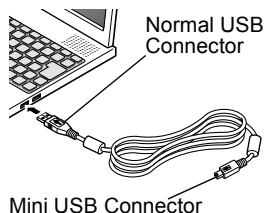
Use only Omron authorized parts and accessories. Parts and accessories not approved for use with the device may damage the unit.

- 
1. Open the USB Port cover.

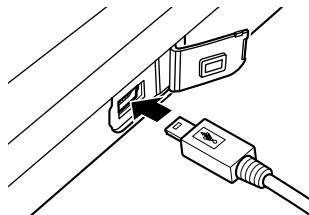
**Note:** Do not allow objects to come into contact with the USB Port.



2. Plug the normal USB Connector (Large Connector) into the personal computer.




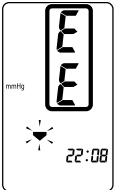
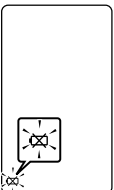
3. Plug the mini USB connector (Small Connector) into the USB Port.

**Notes:**


- You cannot transfer the data while taking a blood pressure reading.
- Do not turn the PC off or unplug the USB cable while the data is being transferred.

## 6. Handling Errors and Problems

### 6.1 Error Messages

Error Display	Cause	Remedy
	Movement during measurement	Repeat measurement. Remain still and do not talk during measurement. Refer to section 3.3.
	Air plug disconnected.	Insert the air plug securely. Refer to section 3.2.
	Arm cuff not applied correctly.	Apply the arm cuff correctly. Refer to section 3.2.
	Clothing is interfering with the arm cuff.	Remove any clothing interfering with the arm cuff. Refer to section 3.2.
	Air is leaking from the arm cuff.	Replace cuff with new one. Refer to Chapter 8.
	The arm cuff was inflated above 299 mmHg when inflating the cuff manually.	Remove the arm cuff and take another measurement. Refer to section 3.3.
 <p data-bbox="108 1105 269 1151">Blinks or appears continuously</p>	Battery power is low.	Replace all four “AAA” batteries with new ones. Refer to section 2.1.



Error Display	Cause	Remedy
 The image shows a rectangular display area containing the characters 'Er' in a stylized, irregular font that resembles a heartbeat or a jagged signal.	Device error.	Contact your OMRON retail outlet or distributor. Refer to Chapter 9.

**Note:** The irregular heartbeat symbol may also be displayed with error messages.

## 6.2 Troubleshooting

<b>Problem</b>	<b>Cause</b>	<b>Remedy</b>
The reading is extremely low (or high).	Arm cuff not applied correctly.	Apply the arm cuff correctly. Refer to section 3.2.
	Movement or talking during measurement.	Remain still and do not talk during measurement. Refer to section 3.3.
	Clothing is interfering with the arm cuff.	Remove any clothing interfering with the arm cuff. Refer to section 3.1.
Arm cuff pressure does not rise.	Is the air jack securely inserted into the main unit?	Make sure that the air jack is connected securely. Refer to section 3.2.
	Air is leaking from the arm cuff.	Replace the arm cuff with a new one. Refer to Chapter 8.
Arm cuff deflates too soon.	The arm cuff is loose.	Apply the cuff correctly so that it is firmly wrapped around the arm. Refer to section 3.2.
Cannot measure or readings are too high.	Is the cuff wrapped correctly around the arm?	Attach the arm cuff correctly.
	The cuff pressure does not rise although the pump motor can be heard.	Check that the air plug is properly connected to the unit. Push the air plug firmly into the air jack.
The unit loses power during measurement.	The batteries are empty.	Replace the batteries with new ones.

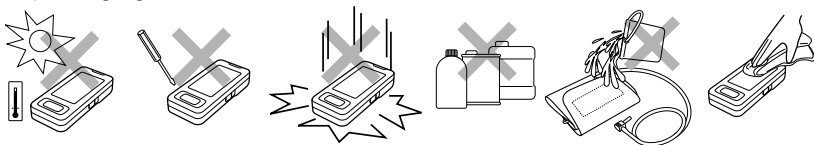
<b>Problem</b>	<b>Cause</b>	<b>Remedy</b>
Nothing happens when you press the buttons.	The batteries are empty.	Replace the batteries with new ones.
	The batteries have been inserted incorrectly.	Insert the batteries with the correct (+/ -) polarity.
Other problems.	Press the O/I START button and repeat measurement. If the problem continues, try replacing the batteries with new ones. If this still does not solve the problem, contact your OMRON retail outlet or distributor.	

## 7. Maintenance and Storage

### Maintenance

To protect your unit from damage, please observe the following:

- Do not subject the main unit and cuff to extreme temperatures, humidity, moisture or direct sunlight.
- Do not fold the cuff or tubing tightly.
- Do not inflate the arm cuff over 299 mmHg.
- Do not disassemble the unit.
- Do not subject the unit to strong shocks or vibrations (for example, dropping the unit on the floor).
- Do not use volatile liquids to clean the main unit.
- Do not wash the arm cuff or immerse it in water.
- Do not use petrol, thinners or similar solvents to clean the arm cuff.
- Do not carry out repairs of any kind by yourself. If a defect occurs, consult your OMRON retail outlet or distributor as mentioned on the packaging.



- The unit should be cleaned with a soft, dry cloth.
- Use a soft, moistened cloth and soap to clean the arm cuff.

### Calibration and Service

- The accuracy of this blood pressure monitor has been carefully tested and is designed for a long service life.
- It is generally recommended to have the unit inspected every two years to ensure correct functioning and accuracy. Please consult your authorised OMRON dealer or the OMRON Customer Service at the address given on the packaging or attached literature.

**Note:** Inspections are normally not covered by guarantee, please check the included guarantee card.

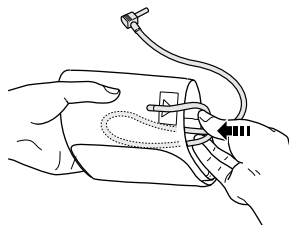
- Do not carry out any repairs yourself. If a defect occurs or you have doubts about the correct functioning of the device, consult your authorised OMRON dealer or the OMRON Customer Service.

## Storage

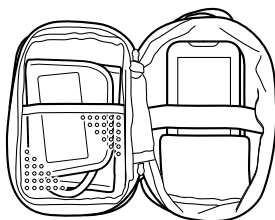
Keep the unit in its storage case when not in use.

1. Unplug the air tube from the air jack.
2. Gently fold the air tube into the arm cuff.

**Note:** Do not bend the air tube excessively.



3. Place the arm cuff and main unit in the storage case.



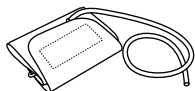
Do not store the unit in the following situations:

- If the unit is wet.
- Locations exposed to extreme temperatures, humidity, direct sunlight, dust or corrosive vapours.
- Locations exposed to vibrations, shocks or where it will be at an angle.

## 8. Optional Parts

### Medium Arm Cuff

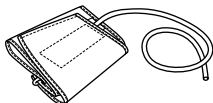
Arm circumference 22 - 32 cm



CM1-9997578-9

### Large Arm Cuff

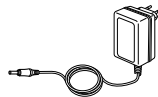
Arm circumference 32 - 42 cm



CL-MIT Elite  
9999358-2

**Note:** CL1 cuff cannot be used for this device.

### AC Adapter



Adapter-3094298-6  
(Model: AC Adapter-E1600)

**Note:** Q Adapter-1098336-8 and R Adapter-9997605-0 and S Adapter-9515336-9 cannot be used for this device.

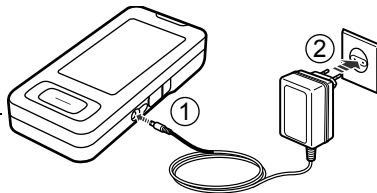
## Using the Optional AC Adapter

Insert batteries into the battery compartment even when using the AC adapter.

### Notes:

- Never unplug the power cord with wet hands.
- Use only the original AC adapter designed for this unit. Use of unsupported adapters may damage the unit.
- When storing the optional AC adapter with the main unit, be careful not to damage the main unit or cuff.

1. Insert the AC adapter plug into the AC adapter jack on the right side of the main unit.
2. Plug the AC adapter into an electrical outlet.



To disconnect the AC adapter, unplug the AC adapter from the electrical outlet first and then immediately remove the AC adapter plug from the main unit.

## 9. Technical Data

<b>Product Description</b>	Digital Automatic Blood Pressure Monitor
<b>Model</b>	OMRON MIT Elite Plus (HEM-7301-ITKE7)
<b>Display</b>	LCD Digital Display
<b>Measurement Method</b>	Oscillometric method
<b>Measurement Range</b>	Pressure: 0 mmHg to 299 mmHg Pulse: 40 to 180/min.
<b>Accuracy</b>	Pressure: $\pm 3$ mmHg Pulse: $\pm 5\%$ of display reading
<b>Inflation</b>	Fuzzy-logic controlled by electric pump
<b>Deflation</b>	Automatic pressure release valve
<b>Memory</b>	90 Measurements with date and time
<b>Power Source</b>	4 "AAA" alkaline batteries 1.5V or AC/ DC adapter (optional, 6V $\approx$ 4W)
<b>Battery life</b>	Approximately 300 uses when used 3 times a day with new alkaline batteries when inflated to 170mmHg at 23°C
<b>Operating temperature/ Humidity</b>	+10°C to +40°C Maximum: 30 to 85% RH
<b>Storage temperature/ Humidity/Air Pressure</b>	-20°C to +60°C Maximum: 10 to 95% RH 700 - 1060hPa
<b>Console Weight</b>	Approximately 270g without batteries
<b>Cuff Weight</b>	Approximately 130g
<b>Outer Dimensions</b>	Approximately 74 (w) mm $\times$ 34 (h) mm $\times$ 157 (l) mm
<b>Cuff Dimensions</b>	Approximately 146 mm $\times$ 446 mm (Medium cuff: arm circumference 22 to 32 cm)
<b>Package Content</b>	Medium cuff, instruction manual, storage case, battery set, USB cable, CD-ROM, guarantee card, blood pressure pass

EN

**Note:** Subject to technical modification without prior notice.



= Type B

CE 0197

- This device fulfils the provisions of EC directive 93/42/EEC (Medical Device Directive).
- This blood pressure monitor is designed according to the European Standard EN1060, Non-invasive sphygmomanometers Part 1: General Requirements and Part 3: Supplementary requirements for electromechanical blood pressure measuring systems.
- This OMRON product is produced under the strict quality system of OMRON HEALTHCARE Co. Ltd., Japan. The Core component for OMRON blood pressure monitors, which is the Pressure Sensor, is produced in Japan.

### **Important information regarding Electro Magnetic Compatibility (EMC)**

With the increased number of electronic devices such as PC's and mobile (cellular) telephones, medical devices in use may be susceptible to electromagnetic interference from other devices. Electromagnetic interference may result in incorrect operation of the medical device and create a potentially unsafe situation.

Medical devices should also not interfere with other devices.

In order to regulate the requirements for EMC (Electro Magnetic Compatibility) with the aim to prevent unsafe product situations, the EN60601-1-2:2007 standard has been implemented. This standard defines the levels of immunity to electromagnetic interferences as well as maximum levels of electromagnetic emissions for medical devices.

This medical device manufactured by OMRON HEALTHCARE conforms to this EN60601-1-2:2007 standard for both immunity and emissions.

Nevertheless, special precautions need to be observed:

Do not use mobile (cellular) telephones and other devices, which generate strong electrical or electromagnetic fields, near the medical device. This may result in incorrect operation of the unit and create a potentially unsafe situation. Recommendation is to keep a minimum distance of 7 m. Verify correct operation of the device in case the distance is shorter.

Further documentation in accordance with EN60601-1-2:2007 is available at OMRON HEALTHCARE EUROPE at the address mentioned in this instruction manual.

Documentation is also available at [www.omron-healthcare.com](http://www.omron-healthcare.com).

### **Correct Disposal of This Product (Waste Electrical & Electronic Equipment)**

This marking shown on the product or its literature, indicates that it should not be disposed of, with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.



Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.

This product does not contain any hazardous substances.

Disposal of used batteries should be carried out in accordance with the national regulations for the disposal of batteries.



## 10. Some Useful Information about Blood Pressure

### ***What is Blood Pressure?***

Blood pressure is a measure of the force of blood flowing against the walls of the arteries. Arterial blood pressure is constantly changing during the course of the heart's cycle.

The highest pressure in the cycle is called the *Systolic Blood Pressure*; the lowest is the *Diastolic Blood Pressure*.

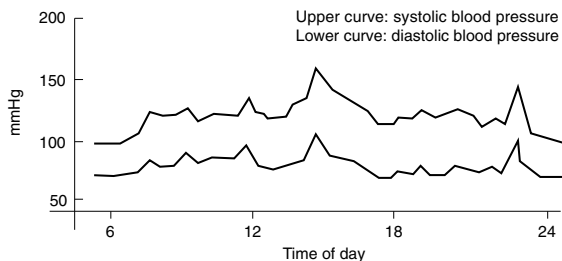
Both pressure readings, the *Systolic* and *Diastolic*, are necessary to enable a doctor to evaluate the status of a patient's blood pressure.

### ***Why is it a Good Thing to measure Blood Pressure at Home?***

Having your blood pressure measured by a doctor can cause anxiety which is itself a cause of high blood pressure. As a variety of conditions affect blood pressure, a single measurement may not be sufficient for an accurate diagnosis.

Many factors such as physical activity, anxiety, or the time of day, can influence your blood pressure. Thus it is best to try and measure your blood pressure at the same time each day, to get an accurate indication of any changes in blood pressure. Blood pressure is typically low in the morning and increases from afternoon to evening. It is lower in the summer and higher in the winter.

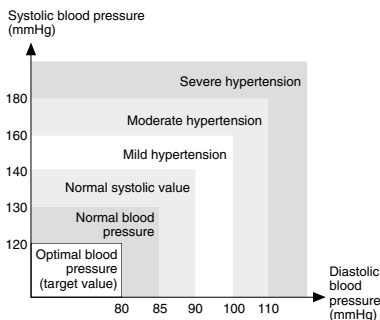
Blood pressure is measured in millimetres of mercury (mmHg) and measurements are written with the systolic pressure before the diastolic e.g. A blood pressure written as 135/85, is referred to as 135 over 85 mmHg.



Example: fluctuation within a day (male, 35 years old)

### Classification of Blood Pressure by the World Health Organization



The World Health Organization (WHO) and the International Society of Hypertension (ISH) developed the Blood Pressure Classification shown in this figure.



This classification is based on the blood pressure values measured on people in a sitting position in outpatient departments of hospitals.

\* There is no universally accepted definition of hypotension. However, those having the systolic pressure below 100 mmHg are assumed as hypotensive.



<b>Manufacturer</b> 	<b>OMRON HEALTHCARE Co., Ltd.</b> 24, Yamanouchi Yamanoshita-cho, Ukyo-ku, Kyoto, 615-0084 JAPAN
<b>EU-representative</b> 	<b>OMRON HEALTHCARE EUROPE B.V.</b> Kruisweg 577, 2132 NA Hoofddorp, THE NETHERLANDS www.omron-healthcare.com
<b>Production Facility</b>	<b>OMRON (DALIAN) CO., LTD.</b> Economic & Technical Development Zone Dalian 116600 CHINA
<b>Subsidiary</b>	<b>OMRON HEALTHCARE UK LIMITED</b> Opal Drive, Fox Milne Milton Keynes, MK15 0DG U.K.
	<b>OMRON MEDIZINTECHNIK HANDELSGESELLSCHAFT mbH</b> John-Deere-Str. 81a 68163 Mannheim, GERMANY www.omron-medizintechnik.de
	<b>OMRON Santé France SAS</b> 14, rue de Lisbonne 93561 Rosny-sous-Bois Cedex, FRANCE

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