# OWNER'S MANUAL



- - · Safety design with soft curved line
  - · Simple one touch operation
  - · Instructions by voice messages
  - High speed printer with automatic paper cut (option)
  - Built in emergency safety button
  - Compare and analysis the result with Card-reader (option)
  - Convenience to see the result on the reverse monitor (option)





The device bears the CE label in accordance with the provisions of Medical Device Directive 93/42/EEC.

THE PERSONS RESPONSIBLE FOR PLACING DEVICES ON THE EC MARKET UNDER MDD 93/42/EEC



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## INTRODUCTION

We highly appreciate that you chose our company's product.

You are kindly requested to be familiar with these directions before using this product and always keep it together with the product. In case you are not sure about any directions or problems arising while using the product, please contact our service center.

We will provide you with detailed instructions.

#### 1. INTEDED USE

EASY X 800 (R/L) Automatic Blood Pressure Monitor is designed to measure systolic and diastolic blood pressure and pulse rate of Persons who are 18 years and older using the oscillometric method on a cuffed arm.

EASY X 800 L measure the Left arm.

EASY X 800 R measure the Right arm.

- Target user: Persons who are 18 years and older
- This medical device is not for home use

#### 2. WORD DEFINITIONS

To ensure safe operation and long term performance stability, it is essential that you fully understand the functions, operating and maintenance instructions by reading this manual before operating your unit. Particular attention must be paid to all warnings, cautions and notes incorporated herein.

The following conventions are used throughout the manual to denote information of special emphasis.

# Warning

Important information to indicate any possible hazard which can cause severe personal injury of death from substantial property damage when ignored.

# Caution

 $\triangle$ 

Important information to indicate any possible hazard which will or can cause minor personal injury or property damage when ignored.

# Note (!)

Important information to notify to the user about installation, operation, or maintenance information which is important but not hazardous. Warnings against hazard are not to be included under the NOTE signal word.

#### 3. CLASSIFICATION AND COMPLIANCE

- 1) This device is classified as;
  - Class 1 type-BF against electric shock
  - Ordinary equipment without protection against ingress of water
  - Equipment not suitable for use in presence of a flammable anesthetic mixture by standard of EN 60601-1: 2006(Basic safety and essential performance of Medical Electrical Equipment)
- This device is complied with Class A for Noise-Emission, Level B for Noise-immunity, by standard of IEC 60601-1-2:2007(Electromagnetic Compatibility Requirements).
- This device is complies with the EN 1060-1: 1995+A2:2009 Non-invasive Sphygmomanometers general requirements as well as EN 1060-3: 1997+A2:2009 supplementary requirements for electromechanical blood pressure measuring systems.

#### 4. SAFETY PRECAUTIONS

This device is designed and manufactured with consideration of safety of the operator and subject and also to the reliability of the unit.

The following precautions must be observed for additional safety;

- 1) The unit must be operated only by, or under supervision of a qualified person with our company or our distributors.
  - This device is specified as Class 1 type BF unit under the standard of IEC 60601-1:2005(Safety of Medical Electrical Equipment).
- O not touch or handle inner side of the system at any time.
- The INTERNAL ELECTRICAL POWER SOURCE is to be used if the integrity of the PROTECTIVE EARTH CONDUCTOR or the protective earthing system in the installation is in doubt.
- 3) Do not modify the unit. If any modification is needed, ask our company or its authorized dealer for service.

4) The unit has previously been adjusted in the factory for optimum performance.

- Do not attempt to adjust switches or any other things except those specified in this manual for operation.
- 5) If you have experienced any trouble with the unit, switch it off immediately, and contact our company or its authorized dealer for assistance.
  - 6) If you plan to connect any device of other manufacturers electrically or mechanically to the unit, contact our company or its authorized dealer for instructions before doing so.

When you connect computer or other system to the unit (RS-232C), the attached systems should be those certified by IEC 60950 or equivalent standards for data processing equipment.

Configurations shall comply with the system standard IEC 60601-1:2005.

Everybody who connects additional equipment to the signal input part or signal output part configures a medical system standard IEC 60601-1:2005.

If in doubt, consult the A/S department of local distributor.

#### 7) Avoid the following environments for storage;

- Where the ambient temperature falls -20°C or exceeds 60°C.
- Where the atmospheric pressure falls below 70kPa (700mbar) or exceeds 106kPa (1060mbar).
- Where the humidity is over 95% non-condensing.
- Where the unit is exposed to spray or splashing water.
- Where the unit is exposed to dust.
- Where the unit is exposed to water vapor.
- Where the unit is exposed to salty atmosphere.
- Where the unit is exposed to explosive gas.
- Where the unit is exposed to excessive shocks or vibrations.
- Where the angle of inclination of mounting surface exceeds 10 degrees.
- Where the unit is exposed to direct sunlight.
- A 8) This equipment has been tested and found to comply with the limits for medical devices to the IEC 60601-1-2:2007. These limits are designed to provide reasonable protection against harmful interference in a typical medical installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to other devices in the vicinity. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to other devices, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
  - Reorient or relocate the receiving device.
  - Increase the separation between the equipment.
  - Connect the equipment into an outlet on a circuit different from that to which the other device(s) are connected.
  - Consult the manufacturer or field service technician for help.
- 9) Do not to touch signal input, signal output or other connectors, and the patient simultaneously.
- 10) a statement that MEDICAL ELECTRICAL EQUIPMENT needs special precautions regarding EMC and needs to be installed and put into service according to the EMC information provided in the ACCOMPANYING DOCUMENTS;
- 11) a statement that portable and mobile RF communications equipment can affect MEDICAL ELECTRICAL EQUIPMENT.
- 12) Please consult a physician or a trained health professional for interpretation of measurement results.
- $\underline{13}$  No phthalates are used for this product and its container.
- 14) The cuff is not made with natural rubber latex

Caution	1. Measurements may be impaired if this device is used near televisions, microwave		
	ovens, X-ray equipment or other devices with strong electrical fields. To prevent		
	such interference, use the meter at a sufficient distance from such devices or turn		
	them off.		
	2. Incorrect operation or failure of user to maintain the unit spares the manufacturer		
	or his agent of the responsibility for system's non-compliance with specifications or		
	responsibility for any damage or injury.		
Caution	This manual is made for informational purpose and this manual and product are not		
	meant to be a substitute for the advice provided by your own physician or other		
	medical problem. You should not use the information contained in the product for		
	diagnosis or treatment of health problem or prescription of medication by yourself.		
	If you have or suspect that you have a medical problem, consult with your physicia		
promptly.			
	Defective unit or accessories must be packed in the replacement cartons to be		

Defective unit or accessories must be packed in the replacement cartons to be shipped off from you to our company.

Shipping and insurance costs for return of defective unit must be prepaid by the users.

#### 5. SAFETY SYMBOLS AND INFORMATION

The International Electrotechnical Commission (IEC) has established a set of symbols for medical electrical equipment which classifies a connection or warning of any potential hazard.

The classifications and symbols are shown below. Save these instructions for your safety.

Ŕ	Degree of protection against electric shock: TYPE BF
CES-	Please observe operating instructions
	General warning sign
	General prohibition sign
	General mandatory action sign
$\triangle$	Caution
	Waste Electrical and Electronic Equipment (WEEE) The device could be sent back to the manufacturer for recycling or proper disposal after their useful lives. Alternatively the device shall be disposed in accordance with national laws after their useful lives.
Ċ	"OFF" (only for a part of equipment)
$\odot$	"ON" (only for a part of equipment)

	This symbol is used inside system. Identifies the point where the safety ground of the system is fastened to the chassis. Do not open. This is for factory only.
$\sim$	Alternating current
	Direct current
	Date of manufacture
	Manufacturer
(((•)))	Non-ionizing radiation
<b>CE</b> 0197	CE mark
SN	Serial No.
EC REP	Authorized representative in the European community.
	Keep dry
RoHS2	RoHS2

#### 6. Guidance for Electromagnetic compatibility (EMC)

Details about the electromagnetic compatibility (EMC) of the EASY X 800 are given below. Before using the EASY X 800, be sure to read and understand the following information.

#### 1) Guidance and manufacturer's declaration – electromagnetic emissions

The EASY X 800 is intended for use in the electromagnetic environment specified below. The customer or the user of the EASY X 800 should assure that it is used in such an environment.

Emissions test	Compliance	Electromagnetic environment – guidance	
		The EASY X 800 uses RF energy only for its internal	
RF emissions	Crown 1	function. Therefore, its RF emissions are very low and	
CISPR 11	Group 1	are not likely to cause any interference in nearby	
		electronic equipment.	
RF emissions	Class B		
CISPR 11	Class B		
Harmonic		The EASY X 800 is suitable for use in all	
emissions	Class A	establishments, including domestic establishments and	
IEC 61000-3-2		those directly connected to the public low-voltage	
Voltage		power supply network that supplies buildings used for	
fluctuations/	Compliance	domestic purposes.	
flicker emissions	Compliance		
IEC 61000-3-3			

#### 2) Guidance and manufacturer's declaration – electromagnetic immunity

The EASY X 800 is intended for use in the electromagnetic environment specified below. The customer or the user of the EASY X 800 should assure that it is used in such an environment.

Immunity toot	IEC 60601 test	Compliance	Electromagnetic environment-
Immunity test	level	level	guidance
Electrostatic discharge(ESD) IEC 61000-4-2	±6kV: Contact ±8kV: Air	±6kV: Contact ±8kV: Air	Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30 %.
Electrical fast transition/burst IEC 61000-4-4	±2kV: Power supply lines ±1kV:	±2kV: Power supply lines ±1kV:	Mains power quality should be that of a typical commercial or hospital environment.

	Input/output lines	Input/output	
		lines	
Surge IEC 61000-4-5	±1 kV differential mode ±2 kV common mode	±1 kV differential mode ±2 kV common mode	Mains power quality should be that of a typical commercial or hospital environment.
Voltage drops, dips, and fluctuations of input power supply line IEC 61000-4-11	70 % <i>U</i> T	<5 % UT (>95 % dip in UT) for 0,5 cycle 40 % UT (60 % dip in UT) for 5 cycles 70 % UT (30 % dip in UT) for 25 cycles <5 % UT (>95 % dip in UT) for 5 sec	Mains power quality should be that of a typical commercial or hospital environment. If the user of the EASY X 800 requires continued operation during power mains interruptions, it is recommended that the EASY X 800 be powered from an uninterruptible power supply or a battery.
Magnetic field of commercial frequency (50/60Hz) IEC 61000-4-8	3 A/m	3 A/m	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment.

Note	
(!)	UT is the a.c. mains voltage prior to application of the test level.

#### 3) Guidance and manufacturer's declaration – electromagnetic immunity 2

The EASY X 800 is intended for use in the electromagnetic environment specified below. The customer or the user of the EASY X 800 should assure that it is used in such an environment.

Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment-guidance
			Portable and mobile RF communications equipment should be used no closer to any part of the EASY X 800, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter.
			Recommended separation distance
			$d = 1.2\sqrt{P}$
Conducted RF	3 Vrms	3 Vrms	$d = 1.2\sqrt{P}$ 80 MHz to 900 MHz
IEC 61000-4-6	IEC 61000-4-6 150 kHz to 80 MHz		$d = 2.3\sqrt{P}$ 900 MHz to 2,5 GHz
Radiated RF IEC 61000-4-3	3 V/m 80 MHz to 2,5 GHz	3 V/m	where $P$ is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and $d$ is the recommended separation distance in meters (m).
			Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey, <sup>a</sup> should be less than the compliance level in each frequency range. <sup>b</sup> Interference may occur in the vicinity of equipment marked with the following symbol:

	$(((\bullet)))$
Caution	1. At 80 MHz and 900 MHz, the higher frequency range applies.
Â	<ul> <li>2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.</li> <li><sup>a</sup> Field strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location in which the EASY X 800 is used exceeds the applicable RF compliance level above, the EASY X 800 should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as reorienting or relocating the EASY X 800.</li> <li><sup>b</sup> Over the frequency range 150 kHz to 80 MHz, field strengths should be less than 3 V/m.</li> </ul>

# 4) Recommended separation distances between portable and mobile RF communications equipment and the EASY X 800

The EASY X 800 is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the EASY X 800 can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the EASY X 800 as recommended below, according to the maximum output power of the communications equipment.

Rated maximum	Separation distance according to frequency of transmitter				
output power	m				
of transmitter	150 kHz to 80 MHz	150 kHz to 80 MHz 80 MHz to 900 MHz 900 MHz to 2,5 GHz			
W	$d = 1.2\sqrt{P}$	$d = 1.2\sqrt{P}$	$d = 1.2\sqrt{P}$		
0.01	0.12	0.12	0.23		
0.1	0.38	0.38	0.73		
1	1.2	1.2	2.3		
10	3.8	3.8	7.3		
100	12	12	23		
For transmitters rated at a maximum output power not listed above, the recommended					
separation distance d in meters (m) can be estimated using the equation applicable to the					

frequency of the transmitter, where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer.

Caution	1. At 80 MHz and 900 MHz, the separation distance for the higher frequency range
$\triangle$	<ul><li>applies.</li><li>2. These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.</li></ul>

# **TERMS OF EACH PART AND FUNCTIONS**

#### 1. FRONT PART

#### 1 START BUTTON

Press START button after being ready to measure, the cuff will be wrapped automatically and begins to pressurize.

**② STOP BUTTON** 

Press STOP button if you want to stop it during measurement. Pressurizing will stop and the air will exhaust from the cuff.

**③ SYSTOLIC DISPLAY** 

It indicates systolic blood pressure values.

④ DIASTOLIC DISPLAY

It indicates diastolic blood pressure values.

5 PULSE DISPLAY

It indicates pulse rate.

6 TIMER

It indicates time.

**⑦** EMERGENCY STOP BUTTON

When your arm is oppressed due to high pressurizing or irregular operation is done, press this button then the cuff will be exhausted rapidly.

**8 PRINTER COVER** 

It protects the printer.

AUTOMATIC CUTTER (printing paper let-out slot)

Printing paper is automatically cut off when it comes out through the slot.

10 CUFF

It wraps and releases the arm automatically for measurement.

1 ARM REST

When the arm is placed on the cuff, the arm supporter sustains the arm and makes the right position.

- 12 HUMAN SENSOR(option)
  - When a user approaches, power is automatically turned on and vice versa.
- 13 RFID CARD-READER(option)

When RFID card is applied, it reads information in it and stores the measured results.

MAGNETIC CARD-READER(option)

When magnetic card is swiped, it reads information in it and stores the measured results.

# Note

The cuff and the buttons (START and STOP button) of this device are located at reverse side by R and L type.

#### FRONT PART



Note	Printer, card reader and human sensor are optional.								
(!)	ID card can be issued either by the machine manager or by the manufacturer of the model. The card stores six previous measured results and can contain seven measured results with the current one altogether. When the model manager writes the card, please refer to the manual and specifications for operation and programs attached to the card writing device at purchase.								

#### 2. PRINTER

#### 1 PRINT button

- Use it when you print out the data.
- If you set [ON] at the rear (PRINT ON/OFF switch), the data is printed automatically even when you do not press PRINT button.
- Normally, when you press this button, one previous data will be printed. (If you turn it off, all memorized data would be deleted.)
- When you set the date and time, the number goes up with this button pressed.

#### 2 FEED button

- Use this button for setting the paper.
- When you set the date and time, the number goes down with this button pressed.

#### ③ SET button

- Set the date and time.
- The functions are as follows when pressing this before or after measurement.
- (It does not work during measurement)
- Sequence is HOUR  $\rightarrow$  MIN.  $\rightarrow$  MON.  $\rightarrow$  DAY  $\rightarrow$  YEAR
- If you do not press PRINT or FEED button within 5seconds, setting of the date and time finished.
- See the page '15' for detailed method.



#### 3. REAR PART

#### 1 POWER

It is used to turn the power on and off.

2 POWER INPUT

It is used to connect with the adapter.

3 CAL

This is only for inspection. Never open it.

④ EARTH (POTENTIAL EQUALIZATION TERMINAL)

Please make sure for safety.

5 COMMUNICATION PORTS (RS-232C)

Connect between the main body and a computer or other equipment with cable (RS-232C) to transfer the data collected or measured. Or connect between the main body and the coin slot with RS-232C cable to transfer the data.

6 BACK MONITOR PORT(option)

Connect the main body to the reverse monitor cable.

**⑦ USB PORT** 

Connect the main body and USB cable.

8 SENSOR ON/OFF

Human sensor is switched on and off.

9 SOUND ON/OFF

Music and voice output functions are activated with the switch [ON], and vice versa.

10 CARD ON/OFF

Card is usable when the switch [ON], and vice versa.

1 PRINT ON/OFF

Measured results are printed out when switched [ON], and vice versa.

VOLUME (ANNOUNCE ON/OFF)

It controls volume output when switch is on while all volume is [OFF].

③ REVERSE MONITOR(optional)

You can see the ID No, B.M.I., and Fatness as well as Blood Pressure on the reverse monitor.

**(4)** INFORMATION BOARD FIXER

Fix the information board here.

Note	1. While sound switch is activated on (so sound is functioning), place the VOLUME
(!)	<ul> <li>ON/OFF switch to [OFF] for deactivation of voice message and music play.</li> <li>2. Printer, card reader, human sensor and reverse monitor is optional.</li> <li>3. The operator should not touch both USB port and the patient's body</li> </ul>
	simultaneously.

Note	The operator shall not contact the parts (SIP/SOP) and the patient simultaneously and
	"SIP/SOP shall be available to operator only"

#### **REAR PART**



#### 4. ACCESSORIES





#### 5. OPTIONS







## INSTALLATION

#### 1. CONNECTION ADAPTER

Just connect the power cable to the adapter on the rear and turn the POWER ON/OFF switch on the lower part of the rear (See the picture).



### Caution



Caution

When connecting adaptor, place the arrow mark of adaptor connection part up and correctly stick it in the socket on the rear of the main body. Wrong connection could be a fire hazard.



#### 2. LOADING THE PRINT PAPER

- Check and see if power is turned on.
- Turn the nut (with a driver on the groove in the middle) on the lower printer cover clockwise to 90 degrees and open the cover.
- ③ Load the print paper as shown in the picture.
- <sup>®</sup> Insert the paper edge deep under the black roll, then it comes out above the CUTTER.
- Balance the paper in the right place.
- Out the paper by pressing the FEED button.
   Out the paper by pressing the paper by pressing the paper by pressing the paper by pa
- Close the cover and turn the nut counterclockwise back.



Note	Being thermal type, printing is photocopied on one side of the paper (slippery side),									
	without using printing ink.									
Please check remainder of the paper always and then replace it.										
Please use exclusive paper (58mm).										
Keep paper rolls in a dark and ventilated place.										
	Avoid any dust on the paper.									
Do not pull the paper during printing. It could cause jam. When printing paper is not loaded in correct place, it may cause the malfunction										
										printer or paper will be shoved out.
	After the exchange of paper to the printer cover does not close properly, the alarm									
	sounds, LED on the 'Err' is displayed. Please check the status of the printer cover.									

#### 3. CONNECTING PORT (RS-232C)

To transmit the data, connect a computer or other external options to the unit.

Connect the RS-232C cable both to port of the unit and to the computer jack or other external options. (See the picture)



#### 4. SETTING TIME AND DATE

- Turn on the unit.
- Open the printer cover.
- Sequence is HOUR  $\rightarrow$  MINUTE  $\rightarrow$  MONTH  $\rightarrow$  DAY  $\rightarrow$  YEAR

#### HOUR

- Press SET button, then indicator will blink. At that time, press PRINT button. Its counts that have been measured since keeping button ON will be printed.
- 2 Press SET button once again. First 2 figures will blink.
- ③ To set the current hour, press PRINT button to make the number goes up or press FEED button to make the number goes down.

#### MINUTE

- ① After setting the hour, press the SET button again.
- ② In this time, last 2 figures will blink.
- ③ As the same way as above, set the current minute with PRINT and FEED button.

#### MONTH

- ① After setting the minute, press SET button again.
- ② First 2 figures will blink.
- ③ Set the current month with PRINT and FEED button.

#### DAY

- ① After setting the month, press SET button again.
- 2 Last 2 figures will blink.
- 3 Set the current day with PRINT and FEED button.

#### YEAR

- ① After setting the day, press SET button again.
- 2 First 2 figures will blink.
- ③ Set the current year with PRINT and FEED button.









Note	If you want to measure blood pressure during setting the date and time, press STOP						
$(\underline{I})$	button. Then you can measure again immediately.						
Note	You should set all data at once (hour, minute, month, day and year).						
	In case of stopping setting, the values return to previous ones which you have done						
	before.						
	The calendar and time functions work without plugging power cord in.						
	Calendar program is inputted for 100 years, and it would be adjusted automatically						
	even at a leap year.						

#### 1. CAUTIONS FOR MEASUREMENT

















#### 2. MEASUREMENT

• Check the voltage and turn the power on.



With the switch-on, a music sound flows as the LED screen is activated.
 But, the SOUND ON/OFF switch in the rear of the unit should be set as 「ON」

1	

③ For the card users, proceed with checking after entering the card into the card-reader.

When the card is inserted, a voice message comes out to "Press the start button."



4 put either the right arm or left arm into the cuff.









 O Press the START button and then the cuff is automatically inflated
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 and the measurement is stated.



Caution <sup>W</sup>	/hen the measurement is started, the voice	
m m w m	nessage is announced as "Starting neasurement, don't move or speak please." /hen you feel painful and want to stop the neasurement, press EMERGENCY UTTON.	

- <sup>®</sup> When the measurement completed, the cuff is automatically deflated and it returns to normal condition. Simultaneously, the voice message is announced as "Measurement completed, pull your arm out please. Thank you."



When the measurement is not satisfactory, the voice message comes out as "Cannot measure, we will try again." At this time, let your arm stay into the cuff and start over again from the beginning.

 Blood pressure and pulse rate are displayed on LED and then the results are printed out. Also the results are informed by the voice message as "Your blood pressure is systolic 000, diastolic 000 and pulse 000."



 $\circledast\;$  Pull your arm out from the cuff.

Note	When the PRINT ON/OFF switch on the rear is set as <code>「OFF」</code> , the result will not be
$(\underline{I})$	printed even if the measurement is completed.

Note	For the card users, six previous results stored in the card can be recalled to compare	
(!)	with the current ones newly checked. Seven results altogether could be printed out.	
$\bigcirc$	Seven results allogether could be printed out.	

Caution	
$\triangle$	This device is only for adult.

#### 3. DATA ON MEASUREMENT BY PRINTER

#### ▼ Results on Printing Paper

	DA	TI										,		3	0	/	0	4	/	1	2(	)(	)8
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#### Classification of the blood pressure

: National High Blood Pressure Education Program, National Heart, Lung and Blood institute, NIH (JNC7, 2003)



Note	When pressure is high with the jammed air hose, message appears on the printer as							
	ERROR PRESSURE.							
	When the message is repeated, call for maintenance service.							
	- When pressure is low as air leaks, message appears on the printer as ERROR							
	CUFF.							
	When the message is repeated, call for maintenance service.							
	- When the subject moves or speaks while in testing, message appears on the printer							
	as ERROR MEASURE.							
	Try to retest after a while. If the message is repeated, call for maintenance service.							

# OPTION

#### 1. Reverse monitor

#### 1) Attachment of the reverse monitor



- ① Put support of reverse monitor in the direction of arrow.
- 2 Attach reverse monitor into reverse monitor support as above.
- 3 4 Put guide board in the direction of arrow and then complete it.
- 2) Connect



Connect reverse monitor and a blood pressure monitor to the rear 'BACK MONITOR PORT' in the body, using cable.

#### 3) Composition

1 LCD display

Shows information and proceedings.

Also marks result, such as B.M.I. and fatness after completing the measurement.

2 Indicating part of systolic blood pressure

Indicating the measured systolic blood pressure.

③ Indicating part of the diastolic blood pressure

Indicating the measured diastolic blood pressure.

④ Indicating part of pulse

Indicating the measured pulse.

(5) ID button

Used when putting user's ID number.

6 Weight button

Used when putting user's body weight.

1 Height button

Used when putting user's height.

8 Numbers and  $\bullet$  button

Used when putting numbers such as ID, body weight, height etc.

Use '•' button in order to put a decimal point in case of body weight, height.

For example, if body weight is 68.9kg, put 'weight button $\rightarrow$ 6 $\rightarrow$ 8 $\rightarrow$ • $\rightarrow$ 9' in order.

9 Print button

Press in the result screen, and the measured result is printed.

10 STOP button

When you push a button while putting some information, the information is all removed, and initialized.

When pushing a button while measuring, stop measuring, and therefore cuff is back to the original state.

1 START button

When pushing a button after putting ID, weight and height, automatically cuff is pressurized and it starts measuring.



#### Reverse monitor

#### 4) Measurement

1 Input data

ID: After pressing 'ID' button in the initial screen, put ID, using 0~9 numeric button. (go back to the initial screen unless you don't put for 40 seconds.)

- ID limitation you can put is 00000001~999999999.
- Weight: After putting ID, putting 'WEIGHT' button, you put body weight, using 0~9 numeric button. (go back to the initial screen unless you don't put for 40 seconds.)
  - Body weight limitation you can put is 10.0~248.0kg.
- Height: After putting body weight, putting 'HEIGHT' button, you put height, using 0~9 numeric button. (go back to the initial screen unless you don't put for 40 seconds.)
  - Height limitation you can put is 10.0~238.0cm.

Note	In case of cardholders, in putting card, private information(ID, weight, height) is
	displayed in reverse monitor.
	In case for you to want to modify weight or height, you push 'weight' button or 'height'
	button, and then modify it.
_	When putting card, it's impossible for you to modify ID.

2 Measurement

When you finish input data, press 'START' button, and then begin to measure. When measurement is begun, animation notifying 'measuring' is displayed.

Note	When putting reverse monitor, you must push 'START' button on reverse monitor,
	and then height, weight, body mass index, fatness is displayed in the screen of
	thermal paper and reverse monitor.
(!)	Since weight, height you put is reflected on the result body mass index(B.M.I.),
	fatness, you must put accurately.

<b>D</b> 000012345	<ul> <li>Information •</li> </ul>
	<b>D</b> 000012345
	Weight 000.0kg
000.001	Height 000.0cm

<ul> <li>Information •</li> </ul>
I D 000012345
Weight 74.8kg
Height 000.0cm

<ul> <li>Information •</li> </ul>	
I D 000012345	
Weight 74.8kg	
Height 176.0cm	1



3 Result

When measurement is complete, body mass index (B.M.I.), fatness is displayed based on ID, weight and height in LCD.

•••Result •••
I D 000012345
<u>в.м.і.</u> 24.1kg/m <sup>2</sup>
Fatness 109%

④ Standard for judging result

• Body Mass Index (B.M.I.): this is calculated by dividing body weight by the square of height in meter.

section	thin	normal	overweight	obese
Section	<18.5kg/m <sup>2</sup>	18.5~<25.0kg/m <sup>2</sup>	25.0~<30.0kg/m <sup>2</sup>	30kg/m <sup>2</sup> and over

• Fatness: value showing your current fatness of weight for standard weight(%)
[{(current weight-standard weight)/standard weight}X100]+100

standard weight=height(m)<sup>2</sup> X 22

section	Very thin	thin	normal	overweight	obese
Section	<80%	80%~90%	90%~110%	110%~120%	>120%

#### 2. MAGNETIC CARD

Machine manager can issue cards through supportive card issuer, in machine's delivery, you can issue it yourself.

When machine manager issues cards, please refer to card issuer or program manual.

#### 1) Setting



In card's using, you should set CARD ON/OFF in the rear part by 'ON'.

Note	
(!)	

CARD ON/OFF switch of the rear part of the machine must be set by  $\lceil ON \rfloor$  in order to use card. In using card, if the validation date has been expired, or the damaged card is inserted, the voice message "You cannot use ID card." appears. In this case, you purchase a new card, and insert, so you can measure.

#### 2) Measurement

#### ① Card recognition

You hold your card and then swipe it up and down from card reader.

If card is recognized normally, it sounds 'Ttiriring~', and it becomes in the state of being ready for measurement.

In connected reverse monitor, ID stored in a card is displayed in the reverse monitor.

(Then, you can put weight and height in the reverse monitor.)

2 Measurement

If you finish recognizing card, voice and message 'Please press the start button' comes out. Push the start button, and then begin to measure. When measurement started, cuff pressure begins.

③ Result

When the measurement is completed, systolic blood pressure, diastolic blood pressure, pulse is displayed on the LED.

- ④ Print-out the result of the measurement
  - ▼ using only magnetic card

ID-NO.		0000	00000
DATE		30/04	4/200
TIME.			15:2
SYSTOL			
DIASTO			
MEANPRI			
PULSEPRI			
PULSE.		082	2 bpm
to phys	sician.	and contractions of the second s	
to phys	sician.	ATTERN	
to phys	sician.		
to phys	sician.	ATTERN	
to phys PULSE 1 175 DATE/TIME 30.04.08 14:39	VAVE P	ATTERN 9mmH9 DIASTOLIC	PULSE
to phys PULSE 175 DATE/TIME 30.04.08 14:39 30.04.08 12:12	VAVE P Ø5 SYSTOLIC [rmmHe]	ATTERN 9mmH9 DIASTOLIC [mmH9]	PULSE
to phys PULSE 175 DATE/TIME 30.04.08 14:39 30.04.08 12:12 29.04.08 14:36	SYSTOLIC (mmHe) 112	ATTERN 9mmH9 DIASTOLIC [mmH9] 66	PULSE [bpm] 83
to phys PULSE 175 DATE/TIME 30.04.08 14:39 30.04.08 12:12 29.04.08 14:36 25.04.08 20:20	AVAVE P VAVE P Ø5 SYSTOLIC [mmHe] 112 111	ATTERN 9mmH9 DIASTOLIC [mmH9] 66 60	PULSE [bpm] 83 77
to phys PULSE 175 DATE/TIME 30.04.08 14:39 30.04.08 12:12 29.04.08 14:36 25.04.08	SYSTOLIC (mmHe) 112 111 119	ATTERN 9mmH9 DIASTOLIC [mmH9] 66 60 90	PULSE [bom] 83 77 63

▼ Magnetic Card + reverse monitor

ID-NO.		000	000005
DATE			4/2008
TIME			15:23
		12	
DIASTO			
MEANPRI			
PULSEPRI	E\$\$	05	6 mmHg
PULSE.		08	2 bpm
HEIGHT		158	8.0cm
WEIGH1	ſ	050	3.0 ka
FATNES			
B. M. I.		22.	
Heter	to the res	ehypertensi sults and c	on. onsult
to phys	to the res sician.	sults and c	onsult
to phys	to the res sician.	ATTERN	onsult
to phys	to the res sician.	sults and c	onsult
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Hefer to phys PULSE 175 DATE/TIME 30.04.08 14:39 30.04.08 12:12	WAVE P	ATTERN ATTERN 9mmH9 DIASTOLIC [mmH9]	PULSE
Hefer to phys PULSE 175 DATE/TIME 30.04.08 14:39 30.04.08 12:12 29.04.08 14:36	VAVE P VAVE P VSTOLIC ImmHeJ 112	ATTERN ATTERN 9mmH9 DIASTOLIC [mmH9] 66	PULSE [bpm] 83
Hefer to phys PULSE 175 DATE/TIME 30.04.08 14:39 30.04.08 12:12 29.04.08 14:38 25.04.08 20:20	VAVE P VAVE P Ø5 SYSTOLIC [mmHe] 112 111	ATTERN ATTERN 9mmH9 DIASTOLIC [mmH9] 66 60	PULSE [bpm] 83 77
Hefer to phys PULSE 175 DATE/TIME 30.04.08 14:39 30.04.08 12:12 29.04.08 14:36 25.04.08	VAVE P VAVE P SYSTOLIC [mmHe] 112 111 119	ATTERN ATTERN 9mmH9 DIASTOLIC [mmH9] 66 60 90	PULSE [bpm] 83 77 63

#### 3. RFID card

Machine manager can issue cards through supportive card issuer, in machine's delivery, you can issue it yourself.

When machine manager issues cards, please refer to card issuer or program manual.

#### 1) Setting



In card's using, you should set CARD ON/OFF in the rear part by 'ON'.

#### 2) Measurement

① card recognition

You hold your card and then touch on card reader.

If card is recognized normally, it sounds 'Ttiriring~', and it becomes in the state of being ready for measurement.

In connected reverse monitor, ID stored in a card is displayed in the rear monitor.

(Then, you can put weight and height in the reverse monitor.)

2 Measurement

If you finish recognizing card, voice and message 'Please press the start button' comes out. Push the start button, and then begin to measure.

When measurement started, cuff pressure begins.

#### ③ Result

When the measurement is completed, systolic blood pressure, diastolic blood pressure, pulse is shown in the LED.

Note	1. In using card(Magnetic&RFID card), previous measured result is stored by six				
	times, it shows the total seven times measured result including current measure result. When you push 'START' button in the result screen, the current measured				
	result and six times accumulated data is displayed in LCD. In Printing-out, the				
	current measured result and the accumulated data confirming change of blood				
	pressure are output.				
$\bigcirc$	2. In case of using card and reverse monitor(option), you put your weight and				
	height after putting card. Then both B.M.I. and fatness are output.				
	Weight and height in reverse monitor are stored, and in case of remeasuring it,				
	you don't need to repeat it.				
	(The method of putting for the reverse monitor, please refer to p. 24.)				

- 4 output the result of measurement
  - ▼ in using only RFID card

ID-NO.		000	00000
DATE			
TIME			
SYSTOL			
DIASTO			
MEANPRI	ESS	08	8 mmH
PULSEPRE	ESS	050	6 mmH
PULSE.			
to phys	sician.	ehypertensi sults and c ATTERN	
to phys	NAVE P		
to phys	sician.		
to phys	sician.	ATTERN	
to phys <b>PULSE 1</b> 175 DATE/TIME 30.04.08 14:39	AVE P	ATTERN 9mmHa	PULSE
to phys PULSE 1 175 DATE/TIME 30.04.08 14:39 30.04.08 12:12	AVAVE P Ø5 SYSTOLIC [mmHe]	ATTERN 9mmH9 DIASTOLIC [mmH9]	PULSE
to phys PULSE 1 175 DATE/TIME 30.04.08	AVAVE P VAVE P Ø5 SYSTOLIC [mmHe] 112	ATTERN 9mmH9 DIASTOLIC [mmH9] 66	PULSE [bpm] 83
to phys PULSE 1 175 DATE/TIME 30.04.08 14:39 30.04.08 12:12 29.04.08	AVAVE P Ø5 SYSTOLIC [mmHe] 112 111	ATTERN 9mmH9 DIASTOLIC [mmH9] 66 60	PULSE [bpm] 83 77
to phys PULSE 1 175 DATE/TIME 30.04.08 14:39 30.04.08 12:12 29.04.08 14:36 14:36 14:38 14:38	SYSTOLIC (mmHe) 112 111 119	ATTERN 9mmH9 DIASTOLIC [mmH9] 66 60 90	PULSE [bom] 83 77 63

▼ RFID card+ in putting the rear monitor

ID-NO.		000	000005
DATE			4/2008
TIME			15:23
		12	
DIASTO			
			-
MEANPR			
PULSEPR			6 mmHg
PULSE.		08	2 bpm
HEIGHT		158	8.0cm
WEIGHT	「	050	6.0 kg
FATNES			
B. M. I.			
The real Refer	sult is pro	ehypertensi sults and c	on.
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Refer to phys PULSE 175 DATE/TIME	sult is protocological sectors and the respective sectors and the respectiv	ehypertensi sults and c ATTERN	on. onsult
Refer to phys PULSE 175 DATE/TIME 30.04.08 14:39	sult is pro to the res sician. WAVE P	ehypertensi sults and c ATTERN 9mmH9	on. onsult
Refer to phys PULSE 175 DATE/TIME 30.04.08 14:39 30.04.08 12:12	WAVE P	ehypertensi Sults and c ATTERN 9mmH9 DIASTOLIC [mmH9]	PULSE tbpm] 83 77
Refer to phys PULSE 175 DATE/TIME 30.04.08 14:39 30.04.08 14:36	SYSTOLIC (mmHe) 112 111 119	ATTERN ATTERN 9mmH9 DIASTOLIC [mmH9] 66 60 90	PULSE [bpm] 83 77 63
Refer to phys PULSE 175 DATE/TIME 30.04.08 14:39 30.04.08 12:12 29.04.08 14:36 25.04.08 20:20	Sult is pro- to the resistion.	ATTERN ATTERN 9mmH9 DIASTOLIC [mmH9] 66 60 90 72	PULSE [bpm] 83 77 63 81
Refer to phys PULSE 175 DATE/TIME 30.04.08 14:39 30.04.08 12:12 29.04.08 14:36 14:36 25.04.08	SYSTOLIC (mmHe) 112 111 119	ATTERN ATTERN 9mmH9 DIASTOLIC [mmH9] 66 60 90	PULSE [bpm] 83 77 63

## MAINTENANCE





When grounded, do not mount it close to the gas pipe, water pipe, lightening rod and connection of telephone.





















Wipe the unit with a damp cloth. Do not use benzine, alcohol or liquid similar to solvents and wet cloth.





# **ERROR & REPAIR**

Error	Cause	Repair
ERROR PRESSURE	pressure is high with the	When the message is
	jammed air hose	repeated, call for
		maintenance service.
ERROR CUFF	pressure is low as air leaks	When the message is
		repeated, call for
		maintenance service.
ERROR MEASURE	subject moves or speaks	- Don't move or speak.
	while in testing	- When the message is
		repeated, call for
		maintenance service.

### **AFTER SERVICE**

#### **1. AFTER SERVICE**

U If there is any problem with the unit, please follow the steps below;

- \* Contact our company's Overseas Service Department immediately. After gathering the model name, Serial Number, date of purchase and description of the problem, contact our company with information shown below.
- Try to solve the problem over the phone with the personnel of local service department.
   If the problem cannot be solved over the phone, just return to service department directly.
- \* Our company or local distributor will make available on-request circuit diagrams, component part list, descriptions, calibration or other information which will assist your appropriately qualified technical personnel to repair those parts of unit which are designated by our company as repairable.

How to contact our company Write us at:

#### JAWON MEDICAL CO., LTD

29, Gongdan 4-ro, Jillyang-eup, Gyeongsan-si, Gyeongsangbuk-do, Korea TEL: 82-53-856-0993 FAX: 82-53-856-0995 (You can also contact the following representative or your local distributor)

#### 2. PACKING AND TRANSPORT

Our company follows his packing ways to protect any impact during transporting etc. So please do not transport or move the unit without our company's packing condition as your wishes.

The normal storage environment; -20°C~  $60^{\circ}$ C of temperature, Humidity is less than 95% non-condensing.

# SPECIFICATION

Model	EASY X 800(R) EASY X 800(L)				
Measuring method	Oscillometric				
Display mode	High Brightness LED (197X145mm) display				
	Systolic/Diastolic/Mean blood pressure, Pulse pressure, Pulse,				
Result Contents	Blood pressure assessment, Pu	Ilse wave pattern			
Result Contents	Reverse Monitor(Option): Systo	lic/Diastolic blood pressure,			
	Pulse, ID No, B.M.I., and Fatnes	SS			
Measuring range	Pressure 30~300mmHg, Pulse	30~200beats/minute			
Accuracy	Pressure ±3mmHg or ±3%, Puls	se ±3%			
Resolving Power	1mmHg				
Pressurizing method	DC Motor				
Cuff type	Belt type				
Pressurizing time	Approx. 10 seconds				
Measuring time	Approx. 33 seconds				
Printer	Thermal printer				
Power supply	Input-AC 230V, 50Hz				
	Output-DC 12V, 5A ADAPTER				
Power consumption	60VA				
Ambience for operation	Temperature 10~40℃, Humidity	/ 30~75%			
Ambience for storage	Temperature -20~60 ℃, Humidity Less than 95%				
Data transmission	RS-232C				
Dimension	463(W) × 461(D) × 276(H) mm				
Weight	Approx. 11kg				
Measuring parts	EASY X 800(R): Right arm EASY X 800(L): Left arm				

#### WARRANTY

Item	Automatic Blood Pressure Monitor	Warranty period	
Model	EASY X 800(R/L)	1year (main unit only)	
Serial NO.		1year (main unit only)	

Date of purchase	Month	Day	Year	
Customer	Name:		TEL:	
Cusiomer	Address:			
Dealer	Name:		TEL:	
Dealer	Address:			

Date	Defection	Confirmation

Note	- When you receive this warranty, make sure that the name of the dealer and the
(!)	month, day and year of purchase are all completed. - This warranty will not be reissued, please keep it in a safe place.

### Periodic Check List

Management No.

Item		Inspection Sul	piect Requir	ements		Judgment	Remarks
Visual Check							
Mainframe 1		Enclosure	No scr	No scratch, crack,		Pass/Fail	
			deform	ation and rust			
	2	Labels and pa	nels No pee	eling and dust		Pass/Fail	
	3	Keys	No dar	nage		Pass/Fail	
	4	Cuffs	No scr	atch and damag	e	Pass/Fail	
Accessories	1	Power cord	No scr	atch and damag	e	Pass/Fail	
	2	User manual	Kept in	proper place		Pass/Fail	
Mechanical C	heo	ck 🛛					
Mainframe	Mainframe 1 Keys		Smoot	h operation		Pass/Fail	
	2	Recorder	Smoot	h operation with	no	Pass/Fail	
			abnorr	abnormal sound			
	3	Cuffs	Smoot	Smooth operation		Pass/Fail	
Accessories	1 Power cord Smooth operation and		Pass/Fail				
			remova	removal			
Electrical Ch	eck						
Performance	1	Power supply	Screer	Screen display upon		Pass/Fail	
			power-	on			
	2	Display	No abr	No abnormality and       flickering         printing possible       Proper measurement		Pass/Fail	
			flickeri				
	3	Printing	printing			Pass/Fail	
	4	Measurement	Proper			Pass/Fail	
General Judg	mer	it 🛛				Pass/Fail	
Model		EASY X 800				Serial No.	
Installation pla	ace				Date	of purchase	
Check date			Checked by	necked by Approved by			

Copy this sheet for use

If repair is required, write down so in the Remarks column.

## Daily Check List

Management No.

Item		Inspection Sub	ection Subject Requirements				Remarks
Visual Check							
	1	Enclosure	No deforma	No scratch, crack, deformation and rust		Pass/Fail	
Mainframe	2	Labels and pan	els No peel	ing and dust		Pass/Fail	
	3	Keys	No dam	age		Pass/Fail	
	4	Cuffs	No scra	tch and dama	age	Pass/Fail	
Accession	1	Power cord	No scra	tch and dama	age	Pass/Fail	
Accessories	2	User manual	Kept in	proper place		Pass/Fail	
Mechanical C	heo	:k					
	1	Keys	Smooth	operation		Pass/Fail	
Mainframe	2	Recorder		Smooth operation with no abnormal sound		Pass/Fail	
Accessories	1	Power cord	Smooth removal	•	and	Pass/Fail	
<b>Electrical Ch</b>	eck						
	1	Power supply	Screen power-c	display on	upon	Pass/Fail	
Performance	2	Display		No abnormality and lickering		Pass/Fail	
	3	Printing	Wavefo	Vaveform printing possible		Pass/Fail	
	4	Measurement	Proper ı	Proper measurement		Pass/Fail	
Other	1	Clock				Pass/Fail	
General Judg	men	t				Pass/Fail	
Model		EASY X 800				Serial No.	
Installation pla	ace				Date	e of purchase	
Check date		(	Checked by	(ed by App		roved by	

Copy this sheet for use If repair is required, write down so in the Remarks column.



If the problems continue, call the service center. When you ask for service, the manufacturer's label, serial number, date of original purchase and explanation of malfunction will be required.

\* For purpose of improvement, specifications and subject to change without notice.



\* Our company name will be changed to JANEX MEDICAL.

HEAD OFFICE: 29, Gongdan 4-ro, Jillyang-eup, Gyeongsan-si, Gyeongsangbuk-do, Korea TEL: 82-53-856-0993, FAX: 82-53-856-0995

EUROPEAN REPRESENTATIVE: VITAKO Sp. z o.o. UL. MALEJ SYRENKI 2 71-790 SZCZECIN, POLAND TEL: 91 8522900 / 901 FAX: 91 8522910

JW-EX800E-20150930 Rev 4.0