

BPBIO750

User's Manual



BPBIO750

User's Manual



Intended Use

The BPBIO750 is a digital monitor intended for use in measuring blood pressure and pulse rate in user population with left and right upper arm circumference ranging from 17cm to 42cm (7-inch to 17-inch). The systolic blood pressure and diastolic blood pressure are measured by non-invasive blood pressure ("NIBP") measuring method. The BPBIO750 may provide useful clinical information about the current health status of not only the users who are diagnosed with hypertension but also those who are not diagnosed with hypertension. Warnings and cautions described in the user's manual should be observed at all times.

* This device is not designed for use in home environment

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Safety Symbols used in the User's Manual



Failure to comply with safety warnings and regulations can cause serious injury or death.



Failure to comply with safety precautions can damage the equipment.

Note

Reading the notes can help you get the most out of your device.

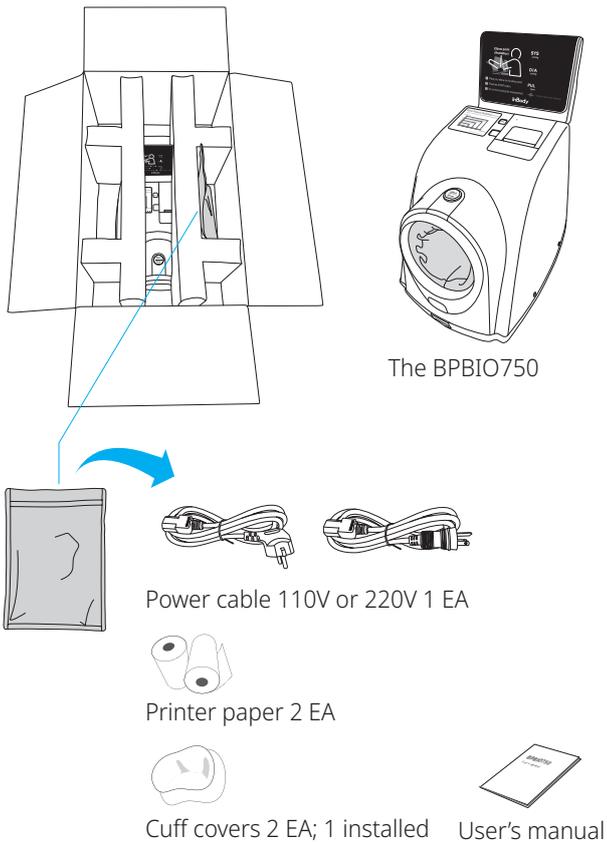
I BPBIO750 Installation

A. Product Components

The BPBIO750 consists of the following components. Make sure all of the components are present.

* Please check each component for damage prior to installation.

Standard Components



Optional Components



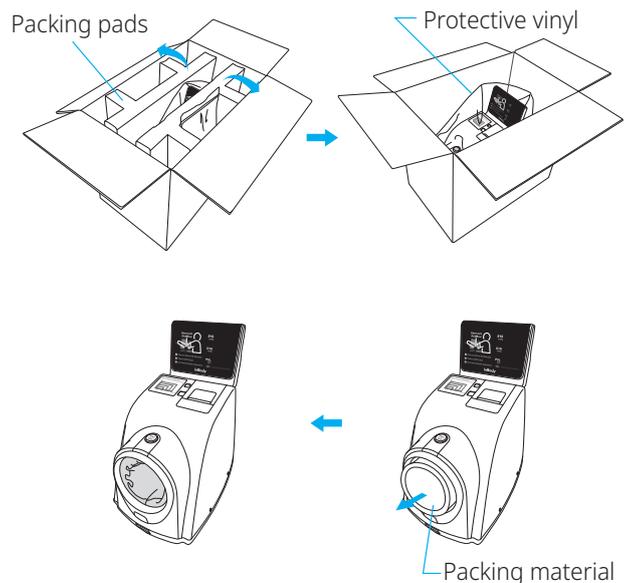
B. Operating Environment

Please make sure the environment is appropriate for the BPBIO750 installation. This equipment is designed for indoor use. If installing the equipment outdoors, the following requirements must be fulfilled.

Temperature range	5 - 40 °C
Relative humidity	15 to 90% RH
Atmospheric pressure	70 to 106 kPa

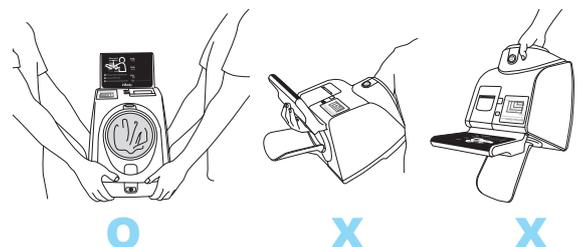
C. Installation Instructions

- 1 Open the BPBIO750 box and remove the packing pads. Remove the protective vinyl on the BPBIO750 and take it out of the box. Remove the packing material.



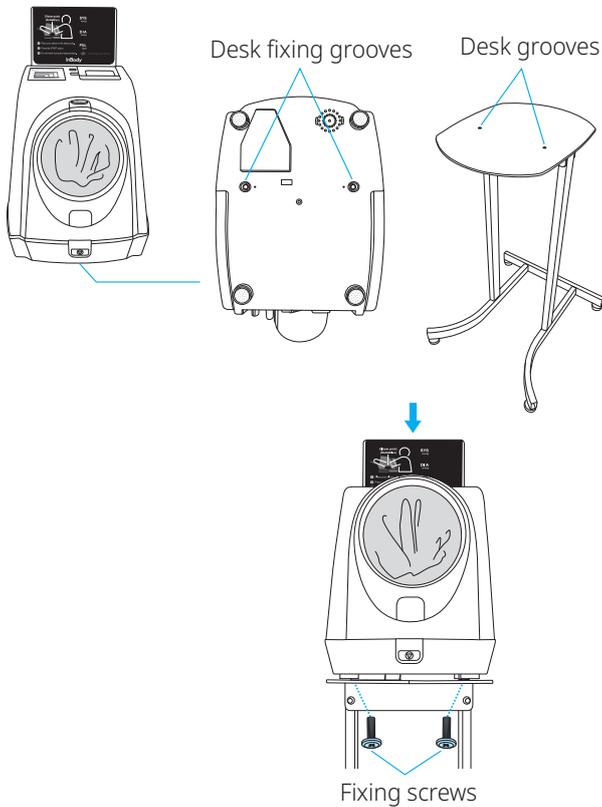
Caution

- Do not carry the equipment by the cuff.
- Keep packing material to store the BPBIO750. Dispose of trash according to local laws and regulations.
- Refer to the figure below when transporting the BPBIO750.



BPBIO750 Installation

- 2** Place the equipment on a solid table that can withstand the weight of the BPBIO750 (approx. 7.1 kg). If using the optional BPBIO750 desk, align the desk fixing grooves on the bottom of the BPBIO750 with the grooves on the desk and secure them with the two fixing screws.

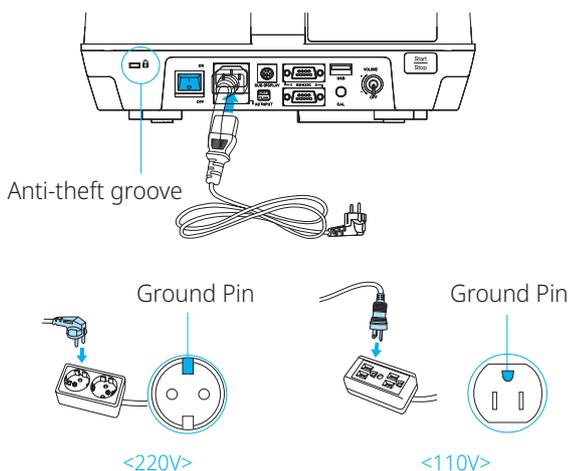


Caution

- Install the BPBIO750 on a flat, vibration-free surface. If the device is installed on a surface that is not flat, it may topple during testing or the results may be inaccurate.

- 3** Connect the provided power cable.

* Plug the power cable into a grounded 3-prong outlet.



Warning

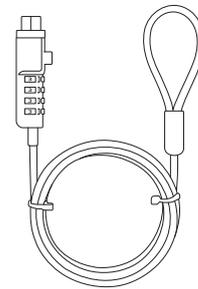
- Do not install the equipment where the power cable is difficult to disconnect.
- Always use an outlet designed for the correct power supply (AC100-240 V). An incorrect power supply may cause fire or equipment malfunction.
- If using a multiple tab, ensure it has a sufficient power capacity or use an extension cable.
- Do not disassemble the equipment arbitrarily. This may cause electric shock or injury, product malfunction, and/or inaccurate results. Unauthorized disassembly will void the manufacturer's warranty.
- Do not let the BPBIO750 touch other electronic devices when turned on. This may cause electric shock.

Caution

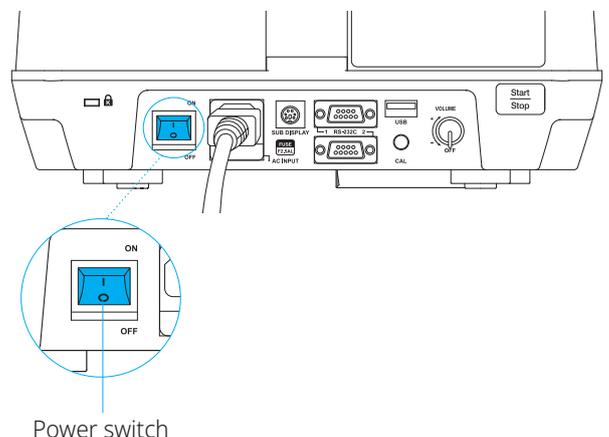
- Plugging the device into an ungrounded outlet may cause malfunction or electric shock and/or inaccurate results.

- 4** Use the anti-theft groove to prevent theft.

* Theft protection cable is sold separately.



- 5** Turn the BPBIO750 on by pressing the power switch located on the back of the device



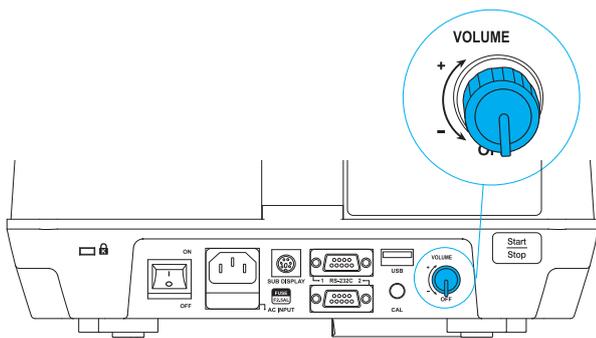
- 6 When powered on, the BPBIO750 will automatically calibrate and display the following screen.



Caution

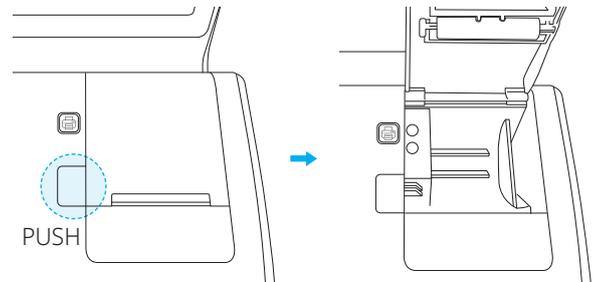
- Do not operate or touch the device while it is calibrating. It may cause errors to future tests.

- 7 Adjust the volume by turning the volume knob on the rear of the BPBIO750.

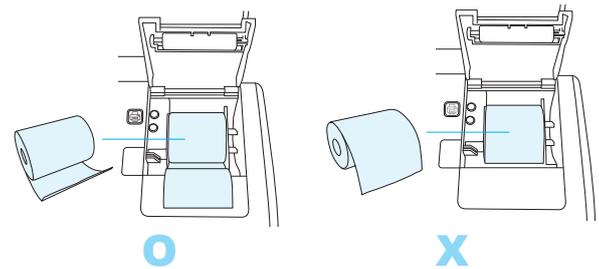


D. Loading and Reloading Printer Paper

- 1 Press the button shown below to open the cover while the BPBIO750 is turned off.



- 2 Insert the printer paper in the direction as shown below. After inserting the printer paper, let a certain amount of paper come out of the cover, then close it to complete the installation.



Caution

- The printer will not work if the paper is inserted in the wrong direction.
- Remove all trash from previous printer paper rolls when replacing with the new printer paper.

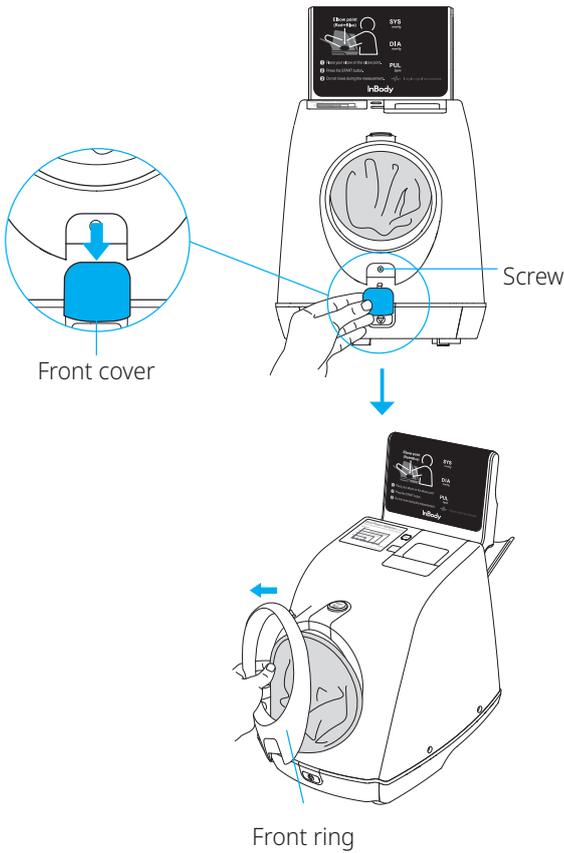
Note

- Two rolls of printer paper are provided with the BPBIO750.
- If an additional printer paper roll is needed, it may be purchased separately.

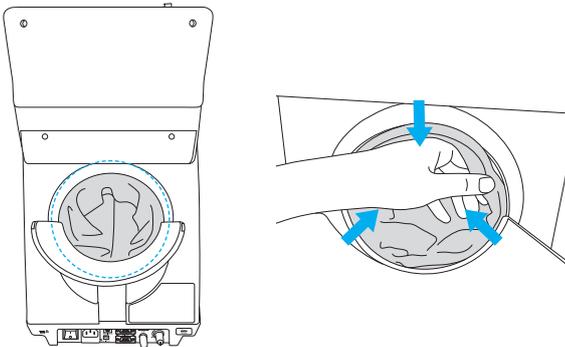
E. Replacing Cuff Cover

The cuff cover of the BPBIO750 should be replaced periodically for sanitary purposes. Follow the guide below to replace the cuff cover.

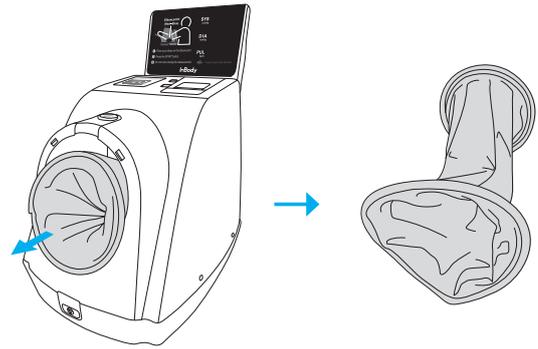
- 1 Remove the front cover of the BPBIO750 by pushing downward, and loosen the screw with a screwdriver. Remove the ring on the front of the BPBIO750 by pulling it forward.



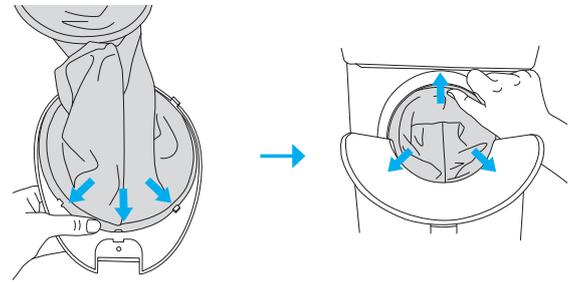
- 2 Push in the seam of the cuff cover as shown below to separate the cuff cover.



- 3 Pull the cuff cover as shown below to remove it from the device.



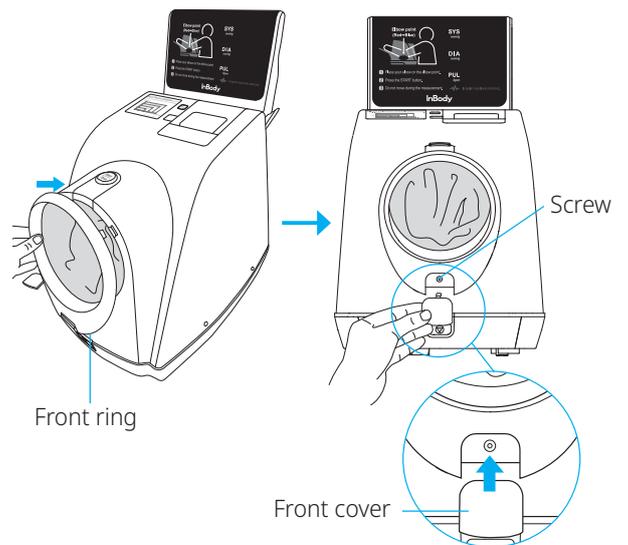
- 4 Place the seam of the new cuff cover down as shown below, and align it with front and rear ring.



⚠ Caution

- The blood pressure reading may be inaccurate if the seam does not face down.

- 5 Reattach the front and rear rings to the BPBIO750 and secure them with the screws. Close the front cover of the BPBIO750.



Note

- Two cuff covers are included with the BPBIO750. (One is already installed in the equipment.)
- You may purchase additional cuff covers separately.

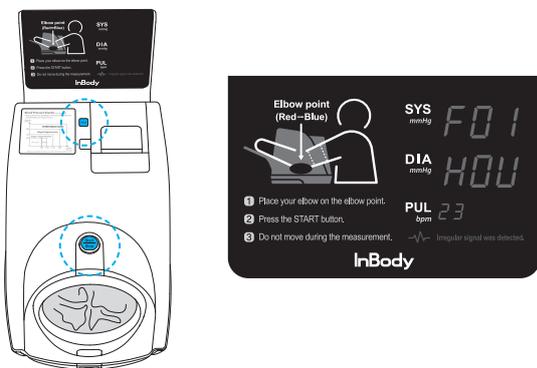
F. Setup

Setup consists of time settings, sound settings, Result Sheet printing, pressure unit setting, and communication settings.

1 Configuring Setup

- 1) When the 'Start/Stop' and 'Print' buttons are pressed and held simultaneously for 2 seconds while on the home screen, 'F01' (Time setting) will blink.

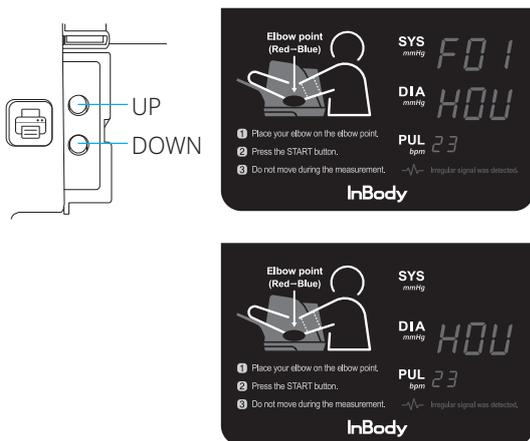
The current setting status will be shown in the Diastolic (HOU) column and Pulse (Hour value) column.



- 2) When the Systolic column is blinking, you can go to the desired setting item.

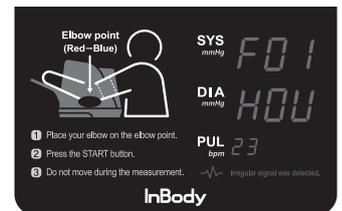
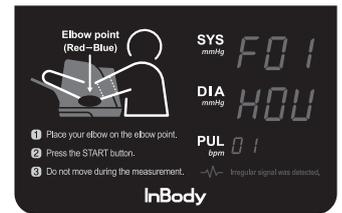
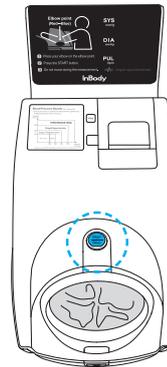
Press UP / DOWN buttons to move to the other setting items.

* UP/DOWN buttons are located beneath the printer cover of the device.



- 3) To adjust the setting value, press the 'Start/Stop' button.

The set value can be changed with the UP / DOWN buttons, and the set value of the corresponding item is displayed in the Pulse column.

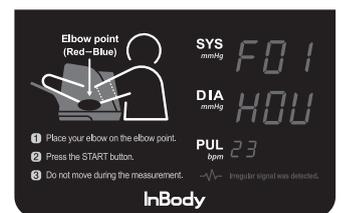
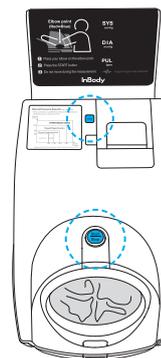


- 4) Press the 'Start/Stop' button to save the setting value. Then, you can go back to the desired setting item.
- 5) Once you are finished adjusting all settings, press and hold the Print button for 2 seconds to return to the home screen.

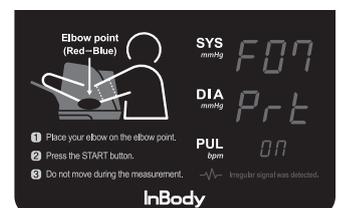
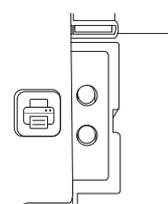
2 Setup Example

The following is an example showing how to change the automatic Result Sheet printing option to manual printing option.

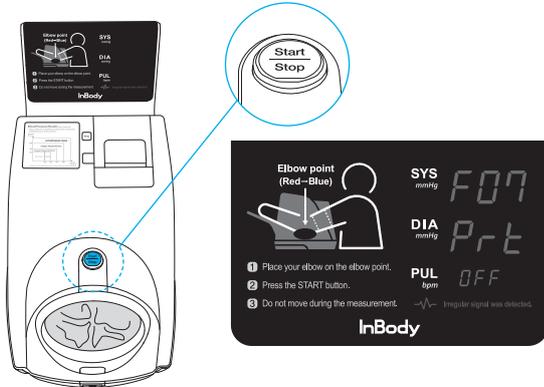
- 1) While on the home screen, press and hold the 'Start/Stop' and 'Print' buttons simultaneously time for more than 2 seconds. The current setting is shown on the 'F01' screen, the first screen of Setup.



- 2) Press the 'UP/DOWN' buttons to go to 'F07 Prt' screen. In the Pulse column, the current setting value is displayed as '0R'.



- 3) Press the **Start/Stop** button to enter the corresponding item, and then use the UP / DOWN buttons to change the current setting value from 'ON' to 'OFF'.



- 4) Press the **Start/Stop** button to save the setting value, and the display will return to the Setup screen.
- 5) Check the setting value of the Pulse column to confirm your desired setting, then press and hold the **Print** button for 2 seconds to return back to the home screen.

3 Detailed description of Setup

When configuring Setup, the following messages will be displayed in the Systolic, Diastolic, and Pulse screen.

Function	Screen		
	Systolic	Diastolic	Pulse
Hour setting	F01	HOU	14
	Setting hour (0-23)		
Minute setting	F02	MIN	15
	Setting minute (0-59)		
Year setting	F03	YER	2017
	Setting year (2000-2099)		
Month setting	F04	MTN	10
	Setting month (1-12)		
Day setting	F05	DAY	22
	Setting day (1-31)		
Sound	F06	Snd	1.U01
			2.U02
			3.U03
			4.bEP
	Read test instructions and measurement results		
Read test instructions only			
Read measurement results only			
Beep guide			
Printing options	F07	Prt	ON
			OFF
	Automatic printing of Result Sheet		
Manual printing of Result Sheet			
Screen timeout duration	F08	LCD	05
			10
			20
			30
			60
			120
	Display the test result value for 5 seconds		
Display the test result value for 10 seconds			
Display the test result value for 20 seconds			
Display the test result value for 30 seconds			
Display the test result value for 60 seconds			
Display the test result value for 120 seconds			
Date output format	F09	dAt	1.Ynd
			2.ndY
			3.dnY
	YY / MM / DD		
MM / DD / YY			
DD / MM / YY			
Pressure unit	F10	Un1	1.H9
	mmHg		

Communication	F 11	232	1.1nb
			2PC
			3N 1d
	InBody		
			PC
			MID
Result Sheet item Type of Result Sheet	F 12	Fot	1.5nL
			2b 19
			3-line automatic output (vertical) * F13-F18 function not available
			3-line automatic output (horizontal)
Result Sheet item Additional result values	F 13	6oP	ON
			OFF
			Output of Mean arterial pressure / Pulse pressure / Pressure rate product
			Not used
Result Sheet item Blood pressure graph	F 14	9rP	ON
			OFF
			Print blood pressure graph
			Not used
Result Sheet item Test posture check	F 15	Arn	ON
			OFF
			Guide output about the elbow placement
			Not used
Result Sheet item Blood Pressure Knowledge	F 16	not	ON
			OFF
			Output of additional blood pressure information on the Result Sheet
			Not used
Result Sheet item Pulse Envelope	F 17	PUL	ON
			OFF
			Pulse Envelope output on the Result Sheet
			Not used
Result Sheet item Logo	F 18	Lo9	ON
			OFF
			Customized logo on the Result Sheet
			Not used
Setting up the Elbow Sensor	F 19	SEn	ON
			OFF
			Elbow sensor is functional
			Elbow sensor is disabled
Result Sheet item QR Code	F 20	9r	ON
			OFF
			QR code output
			Not used

Measurement mode setting 3 consecutive measurements	F 21	Au9	On 1
			On 2
			OFF
			The arithmetic mean of the second and the third measurements
			One-time measurement mode

* "QR Code" is registered trademark of DENSO WAVE INCORPORATED.

G. Precautions for Maintenance

Caution

- If Never move the equipment while the power is on.
- Do not let foreign objects like dust and liquid enter the device, as they can cause damage to electrical components.
- Clean the exterior of the equipment gently with a lint-free cloth once a week. Do not scratch the LED screen while cleaning the equipment.
- Replace the cuff cover when it becomes dirty or worn out.
- Packing material and other waste should be disposed of according to the relevant laws and regulations.
- It may be necessary for a specialist to inspect the device once every two years to maintain its performance and safety.
- In the event of an incident related to cybersecurity, side effect or accident, contact InBody Customer Service. It should be reported to the manufacturer and competent authority.

Check the environment before installing the device.

- Make sure the equipment was not damaged from impact.
- Make sure the equipment is not contaminated.
- Make sure the equipment is not wet.
- Make sure the power cord is completely plugged in.
- Make sure the power cord is not damaged.
- Make sure the power cord is not a tripping hazard.

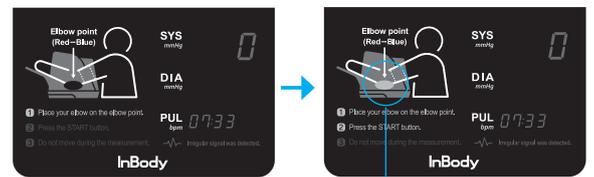
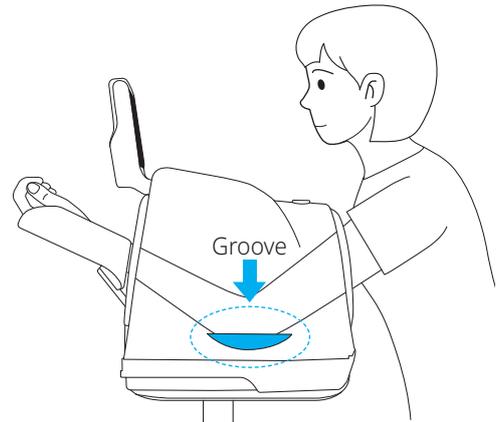
The BPBIO750 calibrates automatically when it is turned on, If an error message appears during calibration, please contact product support.

II Blood Pressure Test

A. Preparatory Steps

⚠ Caution

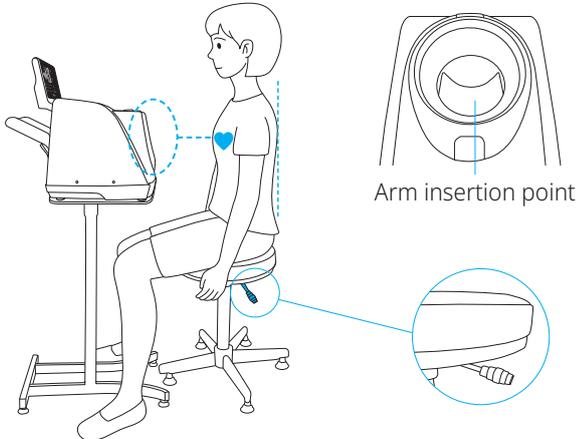
- Examinee should rest at least 5 to 10 minutes before the test.
- Do not roll up the examinee's sleeve; instead, remove thick clothing
- Examinee should sit up straight in the chair.
- Insert the examinee's arm until the elbow is positioned in the elbow groove.
- Adjust the height of the chair so that the inserted upper arm and heart are horizontal.
- Test in a relaxed state.
- Examinee should not talk or move during the test.



Blue LED light

B. Test Instructions

- 1 Adjust the height of the chair so that the inserted upper arm and heart are horizontal.



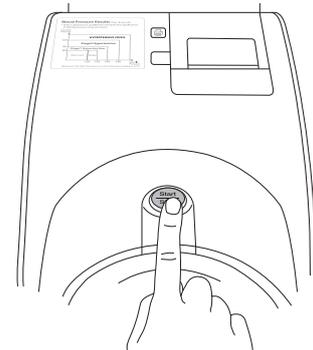
- 2 Rest for at least 5 minutes prior to taking the test.

* If examinee tests in an agitated state, the results may be inaccurate and read higher than normal.

- 3 Insert the arm until the elbow is positioned in the elbow groove, as shown below.

* When the elbow is placed in the right position, the blue LED light will light up on the display.

- 4 Press the Start/Stop button to start the test.



- 5 The cuff automatically pressurizes, and blood pressure is measured.

- * Do not talk or move during the test.
- * Relax while sitting up straight.

⚠ Caution

- If an emergency occurs during the test, press the **Start/Stop** or **Emergency stop** buttons on the bottom (toward the front) of the BPBIO750 - the cuff will quickly release.



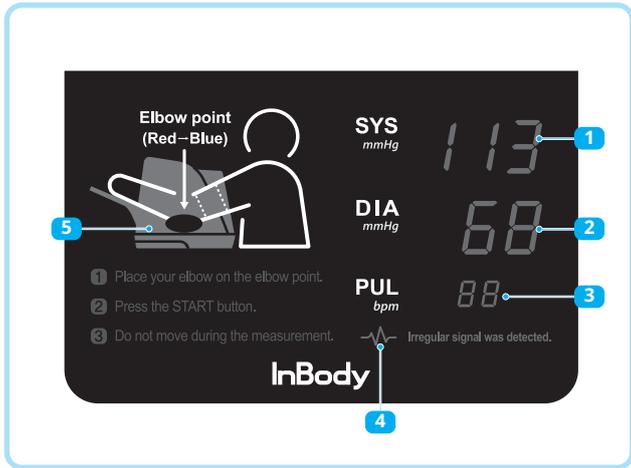
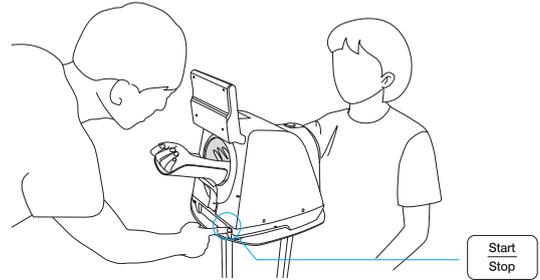
Emergency stop button

Blood Pressure Test

- 6 The cuff automatically releases once the test has completed. Wait for the cuff to fully loosen before pulling out your arm.
- 7 Check the results on the screen.
 - * The voice guidance will activate and the Result Sheet will print according to your settings.

8 Others

The Start/Stop button on the rear of the BPBIO750 also allows you to initiate the test, which can be useful for the administrator to conduct the test from the back of the device.



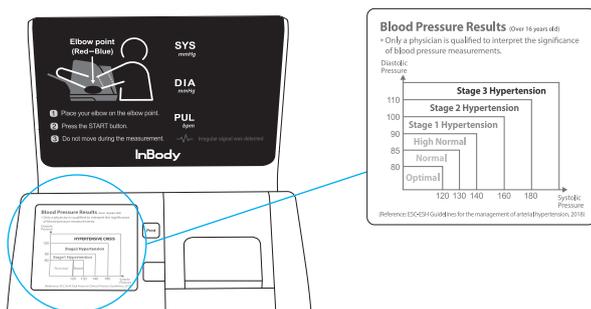
Note

- If the examinee wants to test their blood pressure again, please instruct them to rest for at least 5 minutes.
- Blood pressure can vary depending on the testing conditions. Please consult your physician for accurate diagnosis.

- 1 Systolic blood pressure
- 2 Diastolic blood pressure
- 3 Pulse rate
- 4 • When the test is not completed due to movement or other factors
 - When irregular pulse is detected
- 5 Elbow position LED:
 - Blue: Elbow is placed in the right position
 - Red: Elbow is not placed in the right position.

* Users may refer to the 'Blood Pressure Results' at the bottom left side of the device to check their blood pressure status.

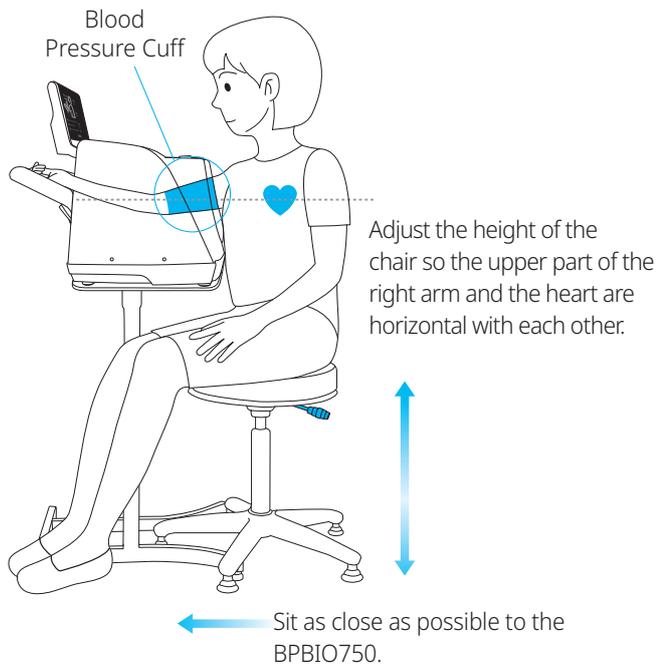
* Please consult with your physician for accurate diagnosis.



C. Test Posture

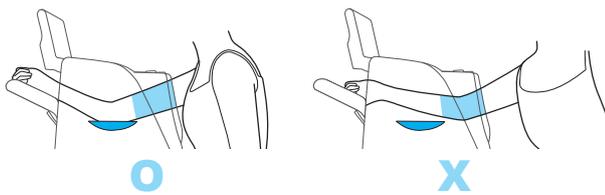
For the most accurate results, get into the proper posture for testing.

* The BPBIO750 allows examinees to measure with either arm.

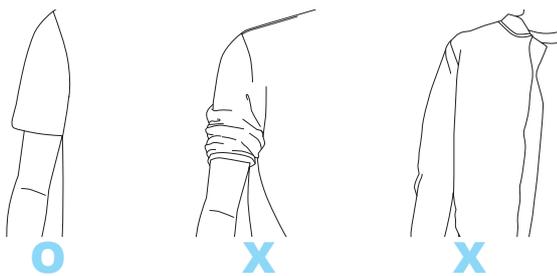


SYS	Systolic Blood Pressure [mmHg]
DIA	Diastolic Blood Pressure [mmHg]
PUL	Pulse rate per minute [bpm]
PP	Pulse pressure [mmHg] [SYS - DIA]
MAP	Mean Arterial Pressure [mmHg] [1/3 X SYS + 2/3 X DIA]
RPP	Rate Pressure Product [PR X SYS]

* Be sure to place the elbow in the elbow groove before starting the test.



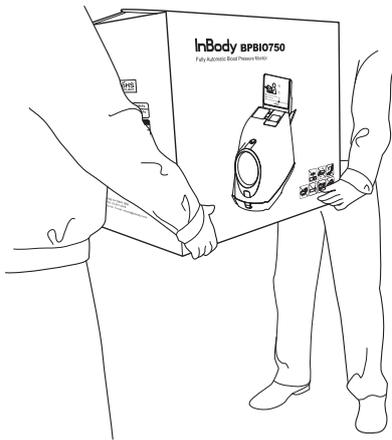
* Remove thick clothing. Do not roll up sleeves.



III Transportation and Storage

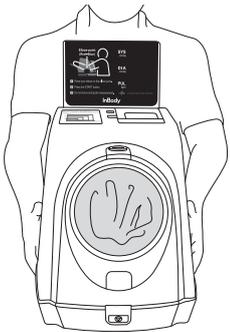
A. Cautions during Transportation

To transport the BPBIO750 securely, two people should keep the equipment parallel to the ground.

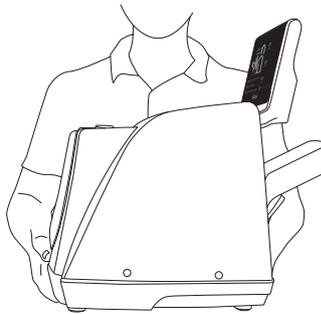


⚠ Caution

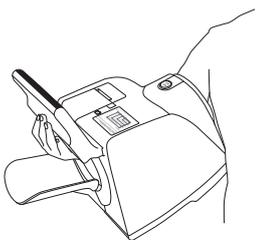
- When transporting the equipment alone, keep the device horizontal.



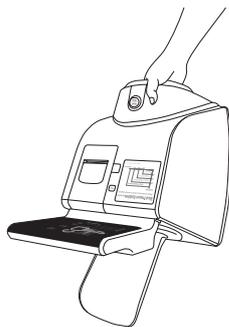
O



X



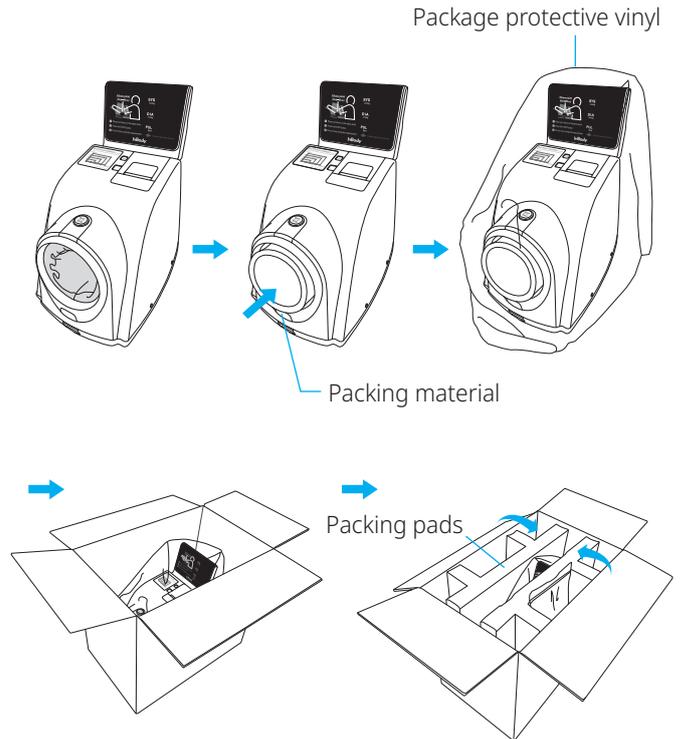
O



X

B. Repacking Instructions

- 1 Turn off the BPBIO750.
- 2 Remove all connected cables and put the packing material into the BPBIO750. Wrap package in protective vinyl and insert the packing pads into the box.



⚠ Caution

- When transporting the equipment alone, keep the device horizontal.

C. Transportation and Storage Environment

The BPBIO750 should be transported or stored under the following conditions.

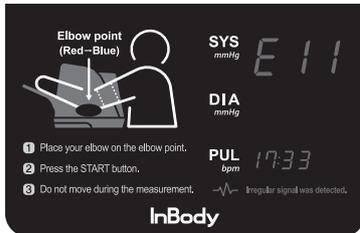
Temperatures range	-20 to 70°C
Relative humidity	10 to 95% RH(No Condensation)
Atmospheric pressure range	50 to 106 kPa

IV FAQ

If a problem persists, please contact Product Support.

A. Error Code

The error messages will display on the screen if they occur during the test.



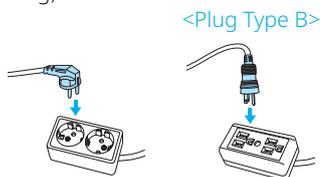
Please provide the error code to Product Support.

B. Regarding the Equipment

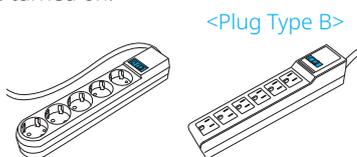
If your technical issues cannot be resolved with the information below, please contact Product Support.

Issue: Power does not turn on.

Potential Solution: Plug the power cable into a properly grounded (3-prong) outlet.



• When using a power strip, make sure the switch is turned on.

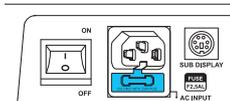


• Make sure you are using the power cable (AC 250V 10A) provided by InBody.

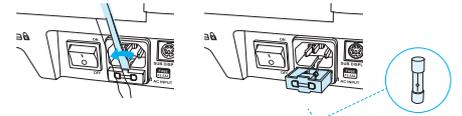


• Issue may occur when the fuse is blown. Replace the fuse by following the instructions below:

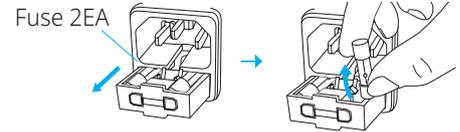
1 The fuse socket is located on the back of the device beneath the power plug.



2 Pull the fuse out by using a flathead screwdriver. Replace the fuse with the provided spare fuse. Additional fuses can be purchased if necessary.



TYPE: Fast-Acting Rated current: 2.5AL Rated voltage: 250V

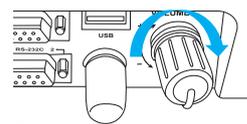


Warning

- Be sure to turn off the power when replacing the fuse.
- The correct fuse must be used. (250V, 2.5AL)

Issue: Voice guidance does not work.

Potential Solution: This may occur when the volume knob on the rear of the BPBIO750 is turned off. Adjust the volume knob to your desired level.



- This may occur when the Sound is set to Beep sound output. 'FBG'. When the Sound is set to '4bEP', only the beep sound occurs. If you want the Voice sound output, change the Sound to '1.UB1'.
- * Refer to the 'Setup' on page 12.

Issue: The Result Sheet is not printing.

Potential Solution: This may occur when the Result Sheet setting has not been set to print the Result Sheet. When Automatic Printing Option 'FBF' is set to 'OFF', the Result Sheet will be printed manually. If you want automatic printing, change the setting to 'ON'.

- * Refer to the 'Setup' on page 12.
- This may occur when the printer is out of paper. Open the printer cover and check if the printer paper needs to be replaced.
- This may occur when the printer paper is installed incorrectly. Open the printer cover and check the positioning of the printer paper.
- This may occur when the printer cover is not closed completely. Make sure that the printer cover is closed properly.
- * Refer to 'Loading and Reloading Printer Paper' on page 9.

Caution

- The company is not liable for any issues that occur when parties outside of InBody employees repair and inspect the equipment.

Note

- Error messages and collateral like Result Sheets containing errors can be used to assist with A/S request; please record or keep these items.

C. Regarding the Test

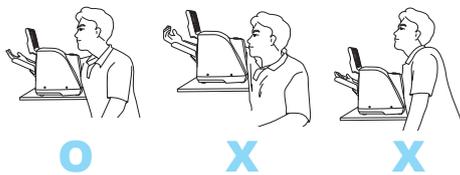
If your technical issues cannot be resolved with the information below, please contact Product Support.

Issue: The test results are incorrect.

Potential Solution:

- The arm and heart may not be aligned during the test. Adjust the height of the chair to align the arm and heart.

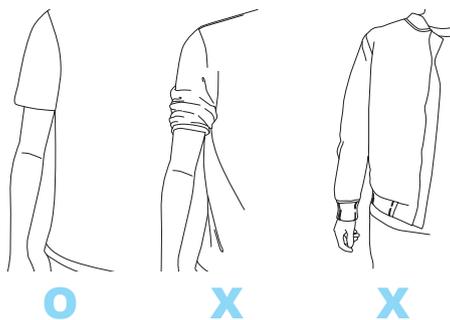
- InCorrect testing posture. The height of the arm and the heart is aligned.
- Incorrect testing posture. The arm is higher than the heart. Blood pressure value will be measured lower.



- Inserting the arm too far or not far enough may produce incorrect results. Place elbow in elbow groove for accurate results.



- Thick clothing or rolled up sleeves may produce incorrect results.
 - * The blood pressure value will be measured higher. Remove thick clothing. Do not roll up sleeves.

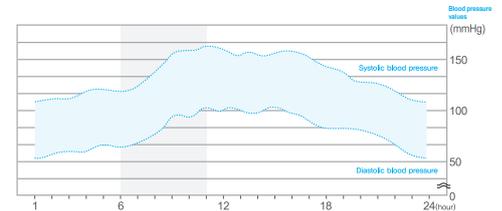


- The examinee may have tested without resting beforehand. Take the test after resting at least 5 minutes.
 - * The first reading may be high even after taking a sufficient rest.
- Do not talk or move during the test.

Issue: When should blood pressure be measured?

Potential Solution:

- Blood pressure may vary throughout the day, as shown below.



Therefore, the best time to test is when examinees can measure regularly on a daily basis. It is recommended to test at the same time each day under the same conditions. age 9.

Issue: How frequently can tests be done?

Potential Solution:

- The automatic monitor applies pressure to the arm to measure blood pressure. Consecutive testing may put a strain on blood vessel. Rest for about 5 minutes between tests.

Issue: Is there any case that I should not test?

Potential Solution:

- If you had blood drawn or had an injection given in either arm, it is recommended to wait at least 1 hour before testing, or measure with another arm.

Issue: Can results vary depending on the testing environment and temperature?

Potential Solution:

- The BPBIO750 can operate at 5 ~ 40°C. However, if the examinee feels that the temperature is too low or high, the blood vessels expand or contract, which will affect the blood pressure results. It is recommended to test in a stable condition in an environment where the temperature is at a comfortable level.
- The examinee will not be able to perform a natural and stable test if they are testing in a loud or disruptive environment. It is recommended to test in an environment free from noise and disturbances.

Issue: What are some factors that can change blood pressure?

Potential Solution:

- The blood pressure reading may change:
 - Within 1 hour after meals
 - After having alcohol or caffeine
 - After smoking
 - After taking a bath
 - After exercise
 - After using the restroom
 - When testing in an unfamiliar location

Issue: The blood pressure values are different when taken at home compared to the hospital.

Potential Solution:

- Blood pressure can change depending on the environment. Test in the same environment for consistent results.
- Psychologically, people tend to feel more relaxed at home than the hospital. Blood pressure tends to be higher when measured at the hospital than at home.

V Others

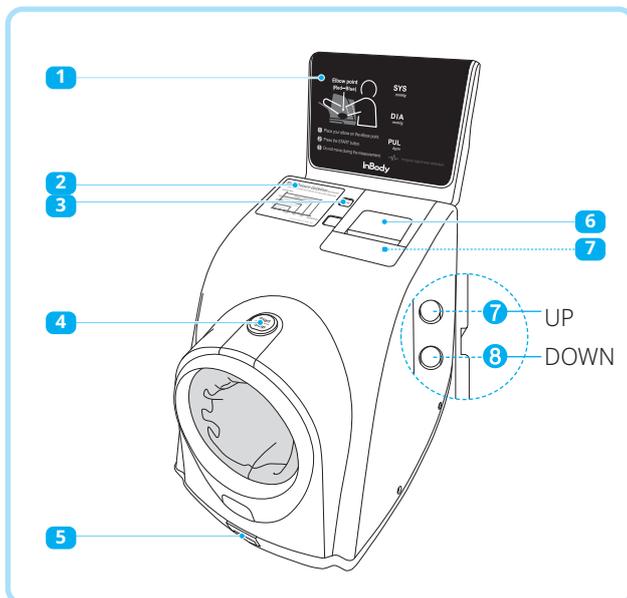
* The BPBIO750 was manufactured according to the quality control procedure of InBody Co., Ltd. InBody complies with ISO9001 and ISO13485, which are international quality management systems.

* This equipment satisfies the common standard for electrical and mechanical safety of medical devices and the common standard for the safety of medical devices.

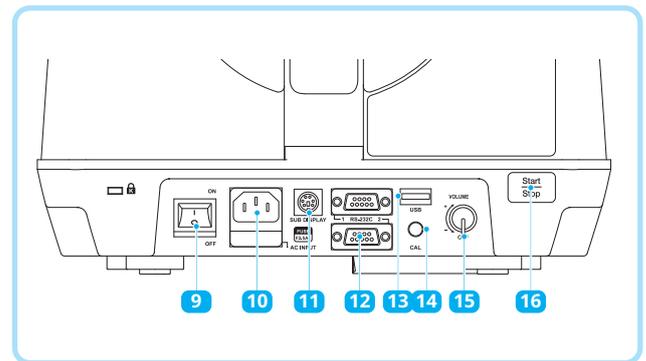
A. Exterior and Functions

Below is a list of BPBIO750 components and its function.

* Please check each component of the system for damage prior to installation.



- 1 A display screen showing results, time, and test instructions
- 2 A blood pressure guideline.
- 3 A button to print Result Sheets
- 4 A button to start or stop a test
- 5 Emergency stop button
- 6 Printer paper cover
- 7 UP/DOWN buttons to adjust settings



- 9 A switch to turn the equipment on/off
- 10 Input for external power source (200-240V, 50/60Hz), Fuse (F2.5AL, 250V).
- 11 A terminal to communicate with the multi-display device
- 12 RS232C (9-pin serial) connection terminal
- 13 USB Port
- 14 A port to connect a mercury monitor to adjust the pressure value
- 15 Volume control knob
- 16 Rear Start/Stop button

B. Safety Information

Warning

- If this equipment has been altered, it must be inspected to ensure that it can be used safely.
- Results can only be interpreted by experienced healthcare professionals. It cannot be used for diagnosis, medication, or other treatments performed at the consumer's discretion without a doctor's prescription.

Caution

- Excessively high or low temperatures, humidity, and pressure may affect the operation of the equipment and cause malfunction. Use the blood pressure monitor within the range specified in the product specifications.
- Do not touch the external device connections such as RS232C (9-pin serial) connection terminal on the back of the equipment.
- Packing material and other waste should be disposed of according to the relevant laws and regulations.
- Do not connect the unauthorized devices.

Safety Symbols

	Danger: high voltage
	Warning / Caution
	Note
	BF-type equipment
	Power on
○	Power off
	Refer to the User's Manual
	Emergency Stop

Etc. Symbols

	European Conformity
	Manufacturer
	Authorized representative in the EUROPEAN COMMUNITY
	Unique Device Identifier
	Serial number
	Alternating current

C. Product Classification

Oscillometric multi-functional electronic blood pressure monitor

- Type of protection against electric shock: Class 1 device
- Level of protection against electric shock: BF-type
- Class of protection against electromagnetic radiation intensity: Class A
- Level of protection against flooding: General Equipment (No special protection against external water infiltration)

D. Product Specifications

Test Instructions	Oscillometric
Test range	Pressure: 0 to 300 mmHg Pulse: 30 to 240 bpm
Degree of precision	Pressure: ± 2 mmHg Pulse: Within $\pm 1.5\%$
Test result	Systolic blood pressure, diastolic blood pressure, pulse rate, pulse pressure, mean arterial pressure, rate pressure product
Test Time	Approx. 30 seconds on average (20-50 seconds depending on the pulse and blood pressure value)
Pressurization Time	Approx. 10 seconds
Minimum scale unit	1mmHg
Screen Type	7-Segment LED
Results Sheet outputs	Systolic and Diastolic blood pressure, Mean arterial pressure, Pulse pressure, pulse, Rate pressure product, Pulse envelope, Blood pressure graph, Check posture, and Blood pressure knowledge
Storage function	Can store the total results for up to 1 million tests
Energy saving	Automatically enters the energy saving mode after 2 minutes of the idle time
Dual safety mechanism	The air will be released when the Start/Stop button is pressed. The air will be released automatically when the air pressure exceeds 300 mmHg. The air will be released when the Emergency Stop button is pressed. (The dual safety mechanism enables the cuff to release the air regardless of the central controller when the Emergency Stop button is pressed.)
Voice guidance	Guides user through blood pressure measurement and results
Printer	High-speed thermal printer with a built-in automatic cutter (width: 5.7 cm)

Rated voltage and Power consumption	AC 100-120 / 200-240V, 50/60Hz, 48VA
Dimensions	Approx. 299 (W) × 547 (D) × 485 (H) mm
Weight	Approx. 7.1 kg
Operating environment	Temperature 5 ~ 40°C , Humidity 15 ~ 90% RH, Atmospheric pressure 70 ~ 106 kPa
Storage environment	Temperature -20 ~ 70°C , Humidity 10 ~ 95% RH, Atmospheric pressure 50 ~ 106 kPa (No Condensation)

* Specifications are subject to change without notice for purposes of product improvement.

* This product is a 'medical equipment'. Please read the guide and cautions before using this blood pressure monitor.

E. EMC Declaration

Phenomenon	Basic EMC standard or test method	Operating mode	Port tested	Test Voltage	Test level/requirement
Mains terminal disturbance voltage	CISPR 11:2015 +A1:2016+A2:2019 EN 55011:2016 +A1:2017	Continuous operation mode	AC Mains	100 V, 50 Hz 100 V, 60 Hz 120 V, 60 Hz 220 V, 60 Hz 230 V, 50 Hz	Group 1, Class B
Radiated disturbance	CISPR 11:2015 +A1:2016+A2:2019 EN 55011:2016 +A1:2017	Continuous operation mode	Enclosure	100 V, 50 Hz 100 V, 60 Hz 120 V, 60 Hz 220 V, 60 Hz 230 V, 50 Hz	Group 1, Class B
Harmonic Current Emission	IEC 61000-3-2:2018 +A1:2020 EN 61000-3-2:2014	Continuous operation mode	AC Mains	230 V, 50 Hz	Class A
Voltage change, Voltage fluctuations and Flicker Emission	IEC 61000-3-3:2013 +A1:2017 EN 61000-3-3:2013 +A1:2019	Continuous operation mode	AC Mains	230 V, 50 Hz	Pst: 1 Plt: 0.65 dmax: 4% dc: 3.3%
Electrostatic Discharge Immunity	IEC 61000-4-2:2008 EN 61000-4-2:2009	Continuous operation mode	Enclosure	100 V, 50 Hz 100 V, 60 Hz 120 V, 60 Hz 220 V, 60 Hz 230 V, 50 Hz	± 8 kV/Contact ± 2, ± 4, ± 8, ± 15 kV/Air
Radiated RF Electromagnetic Field Immunity	IEC 61000-4-3:2020 EN 61000-4-3:2006 +A2:2010	Continuous operation mode	Enclosure	100 V, 50 Hz 100 V, 60 Hz 120 V, 60 Hz 220 V, 60 Hz 230 V, 50 Hz	3 V/m 80 MHz-2.7 GHz 80% AM at 1 kHz
Immunity to Proximity Fields from RF wireless Communications Equipment	IEC 61000-4-3:2020 EN 61000-4-3:2006 +A2:2010	Continuous operation mode	Enclosure	100 V, 50 Hz 100 V, 60 Hz 120 V, 60 Hz 220 V, 60 Hz 230 V, 50 Hz	Table 9 in IEC 60601-1-2: 2014
Electrical Fast Transient/ Burst Immunity	IEC 61000-4-4:2012 EN 61000-4-4:2012	Continuous operation mode	AC Mains	100 V, 50 Hz 100 V, 60 Hz 120 V, 60 Hz	± 2 kV, 100 kHz repetition frequency
			SIP/SOP	220 V, 60 Hz 230 V, 50 Hz	± 1 kV, 100 kHz repetition frequency
Surge Immunity	IEC 61000-4-5:2014 EN 61000-4-5:2014 +A1:2017	Continuous operation mode	AC Mains	100 V, 50 Hz 100 V, 60 Hz 120 V, 60 Hz 220 V, 60 Hz 230 V, 50 Hz	Line to Line ± 0.5 kV, ± 1 kV Line to Ground ± 0.5 kV, ± 1 kV, ± 2 kV
Immunity to Conducted Disturbances Induced by RF fields	IEC 61000-4-6:2013 EN 61000-4-6:2014	Continuous operation mode	AC Mains	100 V, 50 Hz 100 V, 60 Hz 120 V, 60 Hz	3 V 0.15-80 MHz
			SIP/SOP	220 V, 60 Hz 230 V, 50 Hz	6 V in ISM bands Between 0.15 MHz and 80 MHz 80% AM at 1 kHz
Power Frequency Magnetic Field Immunity	IEC 61000-4-8:2009 EN 61000-4-8:2010	Continuous operation mode	Enclosure	100 V, 50 Hz 100 V, 60 Hz 120 V, 60 Hz 220 V, 60 Hz 230 V, 50 Hz	30 A/m 50 Hz & 60 Hz
Voltage dips	IEC 61000-4-11: 2020 EN 61000-4-11:2004 +A1:2017	Continuous operation mode	AC Mains	100 V, 50 Hz 100 V, 60 Hz 240 V, 50 Hz 240 V, 60 Hz 220 V, 60 Hz	0 % UT: 0.5 cycle At 0°, 45°, 90°, 135°, 180°, 225°, 270° and 315° 0 % UT; 1 cycle and 70 % UT; 25/30 cycles Single phase: at 0°
Voltage interruptions	IEC 61000-4-11: 2020 EN 61000-4-11:2004 +A1:2017	Continuous operation mode	AC Mains	100 V, 50 Hz 100 V, 60 Hz 240 V, 50 Hz 240 V, 60 Hz 220 V, 60 Hz	0 % UT; 250/300 cycle

Electromagnetic immunity

The BPBIO750 is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. Portable RF communications equipment should be used no closer than 30 cm (12 inches) to any part of the BPBIO750. Otherwise, degradation of the performance of this equipment could result.

Immunity test	Band a)	Service a)	Modulation b)	IEC60601 test level	Compliance level
Proximity fields from RF wireless Communications IEC61000-4-3	380 - 390 MHz	TETRA 400	Pulse modulation b) 18Hz	27 V/m	27 V/m
	430 - 470 MHz	GMRS 460 FRS 460	FM c) ±5 kHz deviation 1 kHz sine	28 V/m	28V/m
	704 - 787 MHz	LTE Band13, 17	Pulse modulation b) 217 Hz	9 V/m	9 V/m
	800 - 960 MHz	GSM800:900 TETRA 800 iDEN 820 CDMA 850 LTE Band 5	Pulse modulation b) 18 Hz	28 V/m	28 V/m
	1700 - 1990 MHz	GSM 1800 CDMA 1900 GSM 1900 DECT LTE Band 1,2,4,25 UMTS	Pulse modulation b) 217 Hz	28 V/m	28 V/m
	2400 - 2570 MHz	Bluetooth WLAN 802.11b/g/n RFID 2450 LTE Band 7	Pulse modulation b) 217 Hz	28V/m	28 V/m
	5100 - 5800 MHz	WLAN 802.11a/n	Pulse modulation b) 217 Hz	9 V/m	9 V/m

NOTE : If necessary to achieve the IMMUNITY TEST LEVEL, the distance between the transmitting antenna and the ME EQUIPMENT or ME SYSTEM may be reduced to 1m. The 1m test distance is permitted by IEC 61000-4-3.

- a) For some services, only the uplink frequencies are included.
- b) The carrier shall be modulated using a 50% duty cycle square wave signal.
- c) As an alternative to FM modulation, 50% pulse modulation at 18 Hz may be used because while it does not represent actual modulation, it would be worst case.

CE 1639

InBody