LIFE SOURCE®



Blood Pressure Monitor





Bilingual Instruction Guide - MODEL UB-521CN

English • Français

IMPORTANT INFORMATION

Please read this important information before using your monitor.

- Please remember that only a medical practitioner is qualified to interpret your blood pressure measurements. Use of this device should not replace regular medical examinations.
- Have your physician review your procedure for using this device. He or she will want to verify blood pressure measurements before prescribing or adjusting medications.
- Consult your physician if you have any doubt about your readings. Should a mechanical problem occur, contact A&D Medical.
- Make sure to use the correct cuff size when measuring your blood pressure.
- Make sure to follow instructions when measuring your blood pressure to ensure accurate results.
- Do not attempt to service, calibrate, or repair this monitor.
- Because your UB-521CN monitor contains delicate, high-precision parts, avoid exposing it to extremes in temperature or humidity or to direct sunlight, shock and dust. A&D Medical guarantees the accuracy of this monitor only when it is stored and used within the temperature and humidity ranges noted on page E-16.
- Clean the monitor and cuff with a dry, soft cloth or a cloth dampened with water and a mild detergent. Never use alcohol, benzene, thinner or other harsh chemicals to clean monitor or cuff.
- Remove and replace batteries if monitor is not used for more than **six months**. Alkaline batteries recommended.

PRECAUTIONS

The UB-521CN is designed to be used at home, by those who are eighteen (18) years and older, to monitor blood pressure (systolic and diastolic) and pulse rate.

LIFE SOURCE®

Fast. Easy. Accurate.

Congratulations on purchasing a state-of-the-art LifeSource® blood pressure monitor – one of the most technologically advanced monitors available today. Designed for ease of use and accuracy, this monitor will facilitate your daily blood pressure regimen.

Physicians agree that daily self-monitoring of blood pressure is an important step individuals can take to maintain cardiovascular health and prevent the serious consequences associated with undetected and untreated hypertension.

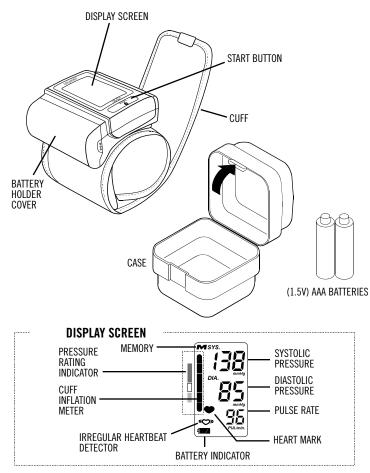
A&D Medical has been manufacturing high quality healthcare products for over 20 years. We are committed to providing you and your family with monitoring devices that provide the utmost in accuracy and convenience.

LifeSource - Designed for Life.

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WHAT DISPLAY SYMBOLS MEAN MONITOR COMPONENTS

Display Symbol	Condition/Cause	Recommended Action
•	The symbol shown while measurement is in progress. It blinks while detecting the pulse.	Measurement is in progress, remain as still as possible.
((<u>\(\(\)))</u>	An irregular heartbeat or body movement may have occurred. Refer to page E-7 for more information on irregular heartbeats.	Take measurement again and consult with your physician.
M	Previous measurement stored in MEMORY.	
t Battery Full	The battery power indicator during measurement. Replace all batteries with new ones when the symblinks. Alkaline batteries recommended.	
E Battery Low	The batteries are low when it blinks.	recommended.
_	Unstable blood pressure due to excessive body movement.	Try the measurement again. Remain very still during the measurement.
Err	The systolic and diastolic values are within 10 mmHg of each other.	Fasten the cuff correctly, and try the measurement again.
	The pressure value did not increase during inflation.	Check for air leaks along the tube and around the air socket.
E C C	The cuff is not fastened correctly.	Refasten the cuff and retake measurement.
LUF	There is an air leak in the cuff or monitor.	Make sure tube is properly connected to cuff and monitor.
Err	The pulse is not detected correctly. The symbol will appear on the pulse display area.	
	Cuff Inflation Meter	Measurement is in progress, remain as still as possible
	Pressure Rating Indicator™	Refer to the section "About Pressure Rating Indicator" for further explanation.



LifeSource® Blood Pressure Monitors are easy to use, accurate and display clear digital measurements. Our technology is based on the "oscillometric method". The term "oscillation" refers to the measure of vibrations caused by the arterial pulse and is a non-invasive method to determine blood pressure.

Our monitors examine the pulsatile pressure generated by the arterial wall as it expands and contracts with each heartbeat against the monitor's cuff. This monitor measures your blood pressure while the cuff is inflating.

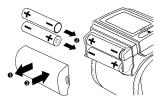
BEFORE YOU START

The UB-521CN provides accurate readings on wrists with a circumference between 5.3" and 8.5" (13.5 cm and 21.5 cm).

The unit requires two "AAA" (1.5 volt) batteries to operate (alkaline batteries recommended). To install batteries (or to replace when "Low Battery" symbol appears), proceed as follows:

- 1. Slide the battery cover as shown to remove from the device.
- Insert batteries into designated areas ensuring a correct match with positive (+) and negative (-) terminals.
- 3. Return battery cover by sliding back on to monitoring device.

NOTE: Rechargeable batteries will not work with this monitor.

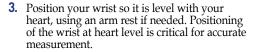


Tips for Blood Pressure Monitoring:

- Relax for about 5 minutes before measurement.
- Do not smoke or ingest caffeine at least 30 minutes prior to measurement.
- Remove constricting clothing and place cuff on bare wrist.
- Unless your physician recommends otherwise, use left arm to measure pressure.
- Do not talk during measurement.
- Do not cross legs. Keep your feet flat on floor during measurement.

Now you are ready. Follow these simple steps:

- 1. Sit comfortably in a chair near a flat surface.
- With palm facing upward, attach monitor to the inside of your left wrist and fasten securely. The top edge of the cuff should align with the crease of your wrist.



4. Press the START button. Your average blood pressure reading will appear with the number of measurements stored in memory (i.e. A25 = total of 25 measurements stored in memory). As the cuff pressurizes, measurement will begin and the Cuff Inflation Meter will show on the display screen. It is normal for the cuff to feel very tight.

NOTE: To stop inflation at any time, press START

5. Remain still and refrain from talking or moving during reading. In Canada–Auto Control Medical (Toll-Free): 1-800-461-0991

- 6. As the cuff is inflating, the ♥ will appear to indicate that the measurement is in progress. The monitor measures your blood pressure while the cuff is inflating, so remain still. Once the pulse is detected, the symbol will flash with each pulse beat.
- When measurement is complete, the systolic and diastolic pressure and pulse rate readings are displayed. The cuff will automatically deflate completely, releasing any remaining air.



 Press either START button once to turn off power. The device has an automatic power-down feature which turns off power automatically one minute after measurement is obtained.

For the most useful blood pressure history, we recommend that you record the date and time after each measurement. The most accurate history relies not on a single or sporadic readings, but on a consistent monitoring pattern over time.

NOTE: If you wish to take your blood pressure measurement again, relax and wait 5-10 minutes to enable the flow of blood in the arm to return to normal.

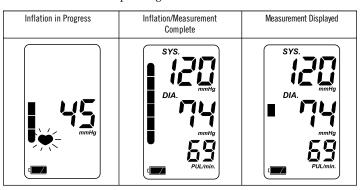
NOTE: If you have poor blood circulation in winter (especially when your hands and wrists are cold), you may not get a blood pressure measurement.

The UB-521CN Blood Pressure Monitor provides a blood pressure and pulse rate measurement even when an irregular heartbeat occurs. The Irregular Heartbeat symbol (C) will appear in the display window in the event an Irregular Heartbeat has occurred during measurement. An irregular heartbeat is defined as a heartbeat that varies by 25% from the average of all heartbeat intervals during the blood pressure measurement. It is important that you relax, remain still and refrain from talking during measurements.

NOTE: We recommend contacting your physician if you see this ((C)) symbol frequently.

ABOUT CUFF INFLATION METER

The Cuff Inflation Meter is located on the left side of the display screen to tell you when the blood pressure monitor is inflating the cuff. The Cuff Inflation Meter moves up during inflation.



 $\mbox{\bf NOTE:}$ The motor will inflate the cuff at a slow speed starting at 20mmHg to begin the blood pressure measurement process.

ABOUT AVERAGE READING ABOUT MEMORY

The UB-521CN provides an average blood pressure reading based on the total measurements stored in memory. When taking a measurement, the average blood pressure reading will appear and the number of measurements stored in memory will flash several times before the cuff begins to inflate. The average blood pressure reading will also appear briefly when you recall the measurements stored in memory.

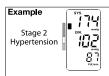


NUMBER OF MEASUREMENTS STORED IN MEMORY -

ABOUT PRESSURE RATING INDICATOR™

The Pressure Rating Indicator™ is a feature which provides a snapshot of your blood pressure classification based on your measurements. This will let you quickly know what your blood pressure readings mean. Each segment of the bar indicator corresponds to the Seventh Report of the Joint National Committee (JNC7) on Prevention, Evaluation and Treatment of High Blood Pressure from the National Heart, Lung and Blood Institute - May 2003. For a more detailed look at this blood pressure classification, please refer to "Assessing High Blood Pressure" on page E-11.





The indicator displays a segment, based on the current measurement, corresponding to the JNC7 Classification.

NOTE: Due to other risk factors (e.g. diabetes, obesity, smoking, etc.) in addition to your blood pressure measurement, the Pressure Rating Indicator is approximate. Please consult with your physician for interpretation and diagnosis of your blood pressure measurements.

NOTE: Residents outside of the United States (e.g., Canada and Mexico) should refer to the WHO Classification Table on page E-11 for assessment of their blood pressure measurement.

The UB-521CN automatically stores up to (90) blood pressure and pulse measurements in its memory. Measurements stored in memory are assigned an index number in the order of the newest to the oldest. The oldest reading displays as "n01".

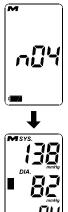
To retrieve readings, follow these simple steps:

- When the display screen is blank, press and hold the START button. While holding down the START button, you will see the average reading displayed first. You will then see the memory index number (e.g. n04) of the most recent reading followed by the measurement. Release the START button when you see the memory index number.
- The display will shut off automatically a few seconds after all of the readings are displayed. To turn off the monitor at any time, press the START button.
- **3.** The display will shut off automatically a few seconds after the readings are displayed.

If there are no measurements stored in memory, two 0s displayed vertically followed by a blinking "A00"

To *clear* the measurement history from memory, remove the battery from the unit and then place the battery back into the battery holder.

NOTE: Memory will be lost if batteries become low or are removed.



ABOUT BLOOD PRESSURE ABOUT BLOOD PRESSURE

■ What Is Blood Pressure?

Blood pressure is the force exerted by blood against the walls of the arteries. Systolic pressure occurs when the heart contracts; diastolic pressure occurs when the heart expands. Blood pressure is measured in millimeters of mercury (mmHg).

■ What Affects Blood Pressure?

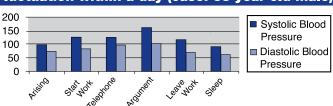
Blood pressure is affected by many factors: age, weight, time of day, activity level, climate, altitude and season. Certain activities can significantly alter one's blood pressure. Walking can raise systolic pressure by 12 mmHg and diastolic pressure by 5.5 mmHg. Sleeping can decrease systolic blood pressure by as much as 10 mmHg. Taking your blood pressure repeatedly without waiting an interval of 5 minutes between readings, or without raising your arm to allow blood to flow back to the heart, can also affect it.

In addition to these factors, beverages containing caffeine or alcohol, certain medications, emotional stress and even tight-fitting clothes can make a difference in the readings.

■ What Causes Variations In Blood Pressure?

An individual's blood pressure varies greatly from day to day and season to season. For hypersensitive individuals, these variations are even more pronounced. Normally, blood pressure rises during work or play and falls to its lowest levels during sleep.

Fluctuation within a day (case: 35 year old male)



Assessing High Blood Pressure for Adults

The following standards for assessing high blood pressure (without regard to age or gender) have been established as a guideline. Please note that other risk factors (e.g. diabetes, obesity, smoking, etc.) need to be taken into consideration and may affect these figures. Consult with your physician for an accurate assessment.

JNC7 Classification Table – for adults within the U.S

BP Classification	Systolic (mmHg)	Diastolic (mmHg)
Normal	less than 120	and less than 80
Prehypertension	120-139	or 80-89
Stage 1 Hypertension	140-159	or 90-99
Stage 2 Hypertension	greater than 160	or greater than 100

SOURCE: The Seventh Report of the Joint National Committee on Prevention, Evaluation and Treatment of High Blood Pressure for adults. National Heart, Lung and Blood Institute - May 2003.

WHO Classification Table – for adults outside of the U.S.

(e.g. Canada, Mexico)

BP Classification	Systolic (mmHg)		Diastolic (mmHg)	
Optimal	less than 120	and	less than 80	
Normal	less than 130	or	less than 85	
High-Normal	130-139	or	85-89	
Stage 1 Hypertension	140-159	or	90-99	
Stage 2 Hypertension	160-179	or	100-109	
Stage 3 Hypertension	greater than 180	or	greater than or equal to 110	

SOURCE: Standards to assess high blood pressure, without regard to age or gender, have been established by the World Health Organization (WHO).

ABOUT BLOOD PRESSURE

■ What Is Hypertension?

Hypertension (high blood pressure) is the diagnosis given when readings consistently rise above normal. It is well known that hypertension can lead to stroke, heart attack or other illness if left untreated. Referred to as a "silent killer" because it does not always produce symptoms that alert you to the problem, hypertension is treatable when diagnosed early.

■ Can Hypertension Be Controlled?

In many individuals, hypertension can be controlled by altering lifestyle and minimizing stress, and by appropriate medication prescribed and monitored by your doctor. The American Heart Association recommends the following lifestyle suggestions to prevent or control hypertension:

- Don't smoke.
- Reduce salt and fat intake.
- Maintain proper weight.
- Exercise routinely.

- Have regular
 - physical checkups.
- Monitor your blood pressure at periodic intervals.

■ Why Measure Blood Pressure at Home?

It is now well known that, for many individuals, blood pressure readings taken in a doctor's office or hospital setting might be elevated as a result of apprehension and anxiety. This response is commonly called "white coat hypertension."

In any case, self-measurement at home supplements your doctor's readings and provides a more accurate, complete blood pressure history. In addition, clinical studies have shown that the detection and treatment of hypertension is improved when patients both consult their physicians and monitor their own blood pressure at home.

Answers to Why Your Readings are Different Between Home and at the Doctor's Office

Why are my readings different between home and at a doctor's office?

Your blood pressure readings taken in a doctor's office or hospital setting may be elevated as a result of apprehension and anxiety. This response is known as white coat hypertension.

When I bring my monitor to a doctor's office, why do I get a different measurement from my monitor to that taken by a doctor or nurse?

The healthcare professional may be using a different sized cuff. The size of the bladder inside the cuff is critical for the accuracy of the measurement. This may give you a different reading. A cuff too large will produce a reading that is lower than the correct blood pressure; a cuff that is too small will produce a reading that is higher than the correct blood pressure. There may also be other factors that can cause the difference in measurements.

Keys to Successful Monitoring:

Blood pressure fluctuates throughout the day. We recommend that you are consistent in your daily measurement routine:

- Measure at the same time every day.
- Sit in the same chair/position.
- Do not cross legs and keep your feet flat on the floor.
- Relax for 5 minutes before measurement.
- Use the correct cuff size to get an accurate reading.
- Sit still during measurement no talking, eating or sudden movements.
- Record your measurement in a logbook.

ABOUT BLOOD PRESSURE TROUBLESHOOTING

■ Establishing Baseline Measurements

The most important method to get an accurate blood pressure measurement is consistency. To get the most benefit out of your monitor, it is important to establish a "baseline measurement." This helps build a foundation of measurements that you can use to compare against future readings. To build this baseline measurement, devote two weeks for consistent blood pressure monitoring. This involves doing everything the same way when you measure (e.g. measuring during the same time of day, in the same location, sitting in the same chair, using the same cuff, etc.). Once you establish your baseline measurement, you can start evaluating if your measurement has been affected based on things like lifestyle changes or medication treatment.

■ How Do I Record My Blood Pressure?

Blood pressure readings are typically recorded with the systolic pressure written first, followed by a slash mark and the diastolic pressure. For example, 120 mmHg systolic and 80 mmHg diastolic measurements are written as 120/80. Pulse is simply written with the letter "P" followed by the pulse rate – P 72, for example. Please see the back of the manual for the blood pressure tracking record.

■ Customer Support Tools Online

Additional tools are available on www.LifeSourceOnline.com to help you get the most out of your blood pressure monitoring. These include:

- Large Print Instruction Manuals
- Animated Operating Instructions for select models
- Additional Logbook Sheets

Problem	Probable cause	Corrective action
Nothing appears in the display, even when the	Batteries are drained.	Replace all batteries with new ones. Alkaline batteries recommended.
power is turned on.	Battery terminals are not in the correct position.	Reinstall the batteries with negative and positive terminals matching those indicated in the battery compartment.
The cuff does not inflate. Battery voltage is too low. Low battery symbol blinks. [If the batteries are drained completely, the mark does not appear.]		Replace all batteries with new ones. Alkaline batteries recommended.
The unit does not measure. Readings are too	The cuff is not fastened properly.	Fasten the cuff correctly.
high or too low.	You moved your arm or body during the measurement.	Make sure you remain very still and quiet during the measurement.
	The cuff position is not correct.	Sit comfortably and still. Make sure the cuff is at the same level as your heart.
The value is different from that measured at a clinic or	The healthcare professional may be using a different sized cuff.	See Pg. E-13 "Answers to Why Your Readings are Different Between Home and at the Doctor's Office."
doctor's office.	Your measurements may be elevated by white coat hypertension.	See Pg. E-12 "Why Measure Blood Pressure at Home?"

NOTE: If the actions described above do not solve the problem, call 1-888-726-9966. Do not attempt to repair the device yourself.

SPECIFICATIONS CONTACT INFORMATION

Model	.UB-521CN
Туре	.Oscillometric
Display	.Digital, 9/7-mm character height, Pressure/Pulse displayed simultaneously
Memory	.90 readings
Measurement range	.Pressure: 20 mmHg to 280 mmHg Pulse: 40 pulses to 180 pulses/ minute
Accuracy	Pressure: \pm 3 mmHg or \pm 2%, whichever is greater, Pulse: \pm 5%
Pressurization	.Automatic, using micropump
Deflation	.Automatically by solenoid valve
Power source	.2 type AAA (1.5 volt) alkaline batteries (included)
Battery life	.Approximately 400 measurements
Operating environment	.50°F to 104°F (10°C to 40°C) Less than 95% relative humidity
Storage environment	.14°F to 140°F (-10°C to 60°C) Less than 95% relative humidity
Wrist Circumference Range	.5.3 – 8.5" (13.5 – 21.5 cm)
Dimensions	.Length: 1.2" (30 mm) Width: 2.4" (60 mm) Height: 2.6" (65 mm)
Weight	.3.2 oz. (89 g) without batteries

Blood pressure measurements determined by the UB-521CN are equivalent to those obtained by a trained observer using the cuff/stethoscope auscultation method within the limits prescribed by the American National Standards Institute for electronic or automated sphygmomanometers.

Our products are designed and manufactured using the latest scientific and technological methods, and offer accurate, easy to use, home monitoring and treatment options. Our full product line includes:

- Digital Blood Pressure Monitors
- Manual Blood Pressure Kits
- Blood Pressure Cuffs
- Stethoscopes
- Personal Health Scales
- Digital Thermometers

This LifeSource blood pressure product is covered by a Lifetime Warranty.

Visit our web site at www.LifeSourceOnline.com for more information.

For more information regarding use, care or servicing of your blood pressure monitor, contact:

A&D Medical A division of A&D Engineering, Inc. 1756 Automation Parkway San Jose, CA 95131 LifeSource Health Line (Toll-Free): 1-888-726-9966 www.LifeSourceOnline.com

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BLOOD PRESSURE RECORD JOURNAL DE LA TENSION ARTÉRIELLE

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IMPORTANT!

If You Need Assistance with the Set-Up or Operation

We Can Help!

Please call us FIRST before contacting your retailer at

LifeSource Health Line

1-888-726-9966 - Toll Free

In Canada-Auto Control Medical

1-800-461-0991 -Toll Free

A specially trained representative will assist you

A&D Medical A division of A&D Engineering, Inc. 1756 Automation Parkway San Jose, CA 95131 1-888-726-9966 www.LifeSourceOnline.com

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