

8.5\*12.5cm



# A-CHECK

Blood Glucose Monitoring System

## DS-A

Owner's Booklet  
Easy Use



## **Dear A-CHECK System owner,**

Thank you for choosing the A-CHECK, DS-A Glucose Monitoring system, to control your blood glucose level. A-CHECK, DS-A Glucose Monitoring System is easy, comfortable, and convenient to operate it helps you monitoring the diabetes earlier.

This User's Manual will help you get to know your A-CHECK, DS-A Glucose Monitoring System, step by step, and provides you with all the information you need to operate and care for your meter and to deal with any errors that may occur. Also, we invite you to visit our website at [www.alliance-intl.com.tw](http://www.alliance-intl.com.tw) for additional services, tools, or information that can help you manage your diabetes.

To start testing quickly, you can also refer to the First Time Guide or Quick Reference Guide.

If you have any questions or concerns, call Alliance International Co., Ltd. customer service line at 1-866-400-8704. We offer 24/7 assistance in English. Again, thanks for choosing A-CHECK, DS-A Glucose Monitoring System.

## INTRODUCTION

Welcome to use **Alliance International Co., Ltd. A-CHECK Blood Glucose Meter** as your personal Blood Glucose Monitoring System.

A-CHECK Blood Glucose Meter is a highly accurate and easy device to operate. The meter measures blood glucose level accurately and displays the result either in mmol/L or mg/dL, and the range of accuracy is in milli-moles [1.1 to 33.3 mmol/L] or [mg 20 to 600 mg/dL].

**Please consult your physician or your Alliance International Co.,Ltd. distributors whether it displays in mmol/L or md/dL.**

The A-CHECK Blood Glucose Meter utilizes the latest amperometric biosensor technology to measure blood glucose level by recording a current between two electrodes. This highly accurate method is different from the old glucose meter design by using color reaction. **In order to keep your meter in good working condition, please follow the correct operating procedures and also observe certain other instructions.**

Read this User's Manual carefully and completely before testing your blood glucose. To verify the accuracy of any glucose meter or test strip, the control solution can be purchased from your local retailer or Alliance International Co., Ltd distributor.

The A-CHECK Blood Glucose Meter is intended to use outside the body (In-vitro diagnostic use). **It should be used only with fresh whole blood samples for self testing purpose but not for diagnosing whether the user has diabetes or not.**

# WARRANTY

## 5-Year Warranty

**Alliance International Co., Ltd.** warrants that your **A-CHECK** Blood Glucose Meter will be free from defects in material and workmanship for five years from the date of purchase. If the meter does not work properly because of the defect in material or workmanship during this five-year period, **Alliance International Co., Ltd.** will repair it or replace it with a new one.

The warranty of the repair or replacement meter will expire on the date of the original warranty expiration or 90 days after the shipment of a replacement meter, whichever period is longer.

This warranty applies only to the original purchaser of the meter. This warranty does not apply to the performance of a Glucose Meter that has been damaged by accident or has been altered, misused, tampered with, or abused in any way.

**Alliance International Co., Ltd.** will handle meters that show damage or abuse according to its Non-Warranty Service Policy, described below.

In no event shall **Alliance International Co., Ltd.** Be liable to the purchaser or any other person for any incidental, consequential, or punitive damages arising from or in any ways connect with the purchase, the operation of the glucose meter, or its parts.

## **Non-Warranty Service Policy**

The A-CHECK Blood Glucose Meter Non-Warranty Service Policy applies to meter where the above warranty has not become effective, has become intolerable, or has expired.

**Alliance International Co., Ltd.** will repair or replace at its option meters returned to it for a service charge. Replacement will be the same series or similar product. Replacement (or repaired) meter will be warranted for a period of 90 days after the shipment under a limited warranty providing for replacement of parts and labor without any charge.

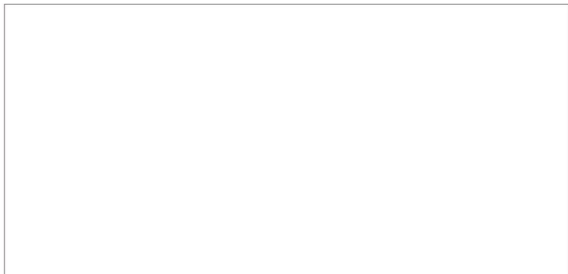
## **Warranty and Service Instructions**

Requesting for returning the A-CHECK Blood Glucose Meter under the above Warranty or Non-Warranty Service Policy must be made by phoning **Alliance International Co., Ltd.** or the national exclusive distributor.

Customer who has experienced difficulties should review Error Message which can be found in this manual. Further information or inquires should contact **Alliance International Co.,Ltd.** or the national exclusive distributor. Be sure to fill out your warranty form and return it with your A-CHECK Blood Glucose Meterto **Alliance International Co., Ltd.** or the national exclusive distributor.

**Alliance International Co., Ltd. Customer Service:**  
**No.54 Ying Tao Rd. Ying Ge Town,**  
**Taipei County, Taiwan R.O.C.**  
**Tel: +886-8678-1007**  
**Fax: +886-8678-1006**  
**E-mail: [service@alliance-intl.com.tw](mailto:service@alliance-intl.com.tw)**

## National Exclusive Distributor Customer Service:




### SIGN and SYMBOL

**LOT** *Lot Number*

 *Manufacturer*

**IVD** *For in vitro diagnostic use*

 *Keep away from sunlight*

**REF** *Catalogue number*


 *Keep dry*


 *Consult instructions for use*

 *Temperature limitation*

 *Use by*

 *Caution*


 *Do not re-use*

 *Type B applied part  
(IEC 60417-5840)*

**CE** *This product fulfils the requirements of Directive 98/79/EC  
on in vitro diagnostic medical devices.*  
0123

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## Simple Instruction and Notes of Meter Operation

1. Ensure that your **A-CHECK** Blood Glucose Meter is properly calibrated for the glucose test strip when you are about to use. Please be sure that the **CODE CARD** in the package has the **same identical number** as the test strip vial. Enter the **CODE CARD** into the strip slot, you will hear a beep tone and the monitor will display the code for the vial of the strips you are about to use. You are now ready to check your blood glucose. It is recommended that you use the **CODE CARD** prior to testing, as this will indicate if the battery is normal or full and the temperature range for testing is within acceptable limits.
2. Place the **A-CHECK** Blood Glucose Meter on a stable surface or hold it securely in your hand.
3. Keep the test strip vial ready. Take out a test strip and then cover the vial cap immediately and tightly. Insert the test strip into the glucose meter and it will turn on automatically.



**If the test strip number and the number of CODE CARD does not match, A-CHECK Blood Glucose Meter will not have any reaction or indicate any information on the screen.**

4. Do not allow children and others to tamper with the device or the strips. Ensure that both device and test strips are **stored** in a clean, safe, and dry environment between 4°C - 32°C (39.2°F - 89.6°F).
5. Use the glucose meter and test strips within the recommended temperature range from 14°C - 40°C (57.2°F - 104°F). Do not leave the test strips in a hot environment, **e.g. inside the cabin of car when the car parks at the parking lot during the sunny day; consequently, it will destroy the test strips.** Never insert any other articles except the CODE CARD or test strips into the test strip slot.



When checking the blood glucose level from different users, remember to disinfect the lancet device and the entire surface that have contacted with blood after being used. Dispose of the test strips and the lancets safely and properly.

## **Standard Kit Contents, Supplies, and Accessories**

### **Standard Contents of A-CHECK Blood Glucose Meter Kit**

1. A-CHECK Blood Glucose Meter x 1
2. CR2032 3V Battery x 1
3. Lancet Device x 1
4. Wallet x 1
5. User's Manual x 1
6. First Time or Quick Reference Guide x 1

### **Supplies and Accessories**

1. Draw-In Glucose Test Strips
2. Lancet Device
3. Lancets
4. Battery for Device
5. Interface Cable For Data Transfer
6. Control Solution



**The above supplies and accessories are available in Alliance International Co., Ltd, your diabetes association, and pharmacies.**

## **Specification of A-CHECK Blood Glucose Meter**

1. Dimension: 94.5mm x 56mm x 27.5mm
2. Weight: 56g
3. Power Source: CR2032 3V lithium coin battery x 1
4. Battery Life: 1000 results
5. Display: Large LCD
6. External Output: RS232 PC interface
7. Memory: 360 results with time and date
8. Auto electrode inserting detection
9. Auto sample loading detection
10. Auto reaction time count-down
11. Sleep Mode: Power consumption less than 20uA
12. Auto turn-off after one minute without action
13. Temperature warning
14. Operation Condition: 14°C - 40°C (57.2°F - 104°F)
15. Storage/Transportation Condition: 4°C - 32°C (39.2°F - 89.6°F), < 95%R.H.
16. Measurement Units: in mg/dL or mmol/L

### **Applied Standards**

This product conforms to the provisions of the EC directive IVDD (98/79/EC). The following standards apply to the design and/or manufacturing of the product:

#### **IEC 60601-1**

Medical electrical equipment

Part 1: General requirement for safety

#### **IEC 61010-1**

Safety requirements for electrical equipment for measurement, control and laboratory use

Part 1: General requirement

#### **IEC60601-1-2**

Medical electrical equipment

Part 2: Collateral standard:

Electromagnetic compatibility-requirements and test

## Specification of Draw-In Glucose Test Strip

1. Strip Size: 35mm x 7mm x 0.35mm
2. Required Blood Sample: 1 $\mu$ l
3. Test Result Time: 6 seconds
4. Hematocrit: 30% - 55%
5. Sample Type: Fresh capillary whole blood
6. Test Range: 20 - 600 mg/dL or 1.1 - 33.3 mmol/L
7. Operation Condition: 14°C - 40°C (57.2°F - 104°F)
8. Validity: Can be used within 90 days after opening or within 18 months after the production date
9. Unit of Packaging: 25 strips x 2 vials/box
10. Storage/Transportation Condition: 4°C - 32°C (39.2°F - 89.6°F), <95%R.H. **DO NOT REFRIGERATE**



1. Do not use any expired strips.
2. These strips are only used with this glucose meter.
3. Do not use any blood that has been preserved (e.g. by fluoride).
4. It is not recommended to use this test to newborn baby.
5. Taking high-dose vitamin C or having high level of uric acid may influence the blood glucose level, which may cause inaccurate test results.
6. Hematocrit above 55% may cause lower blood glucose level.
7. To protect the environment, dispose of the used lancets and strips in appropriate collection sites according to national or local regulations. Avoid other people touching the used lancets or test strip, which may cause cross infection via one's wounds.
8. Keep the test strip vial away from children; the cap is a choking hazard. In addition, the cap may contain drying agent which can harm the body if swallow or inhale it or may cause skin or eye irritation.

# Chapter 1: Understanding Your New System

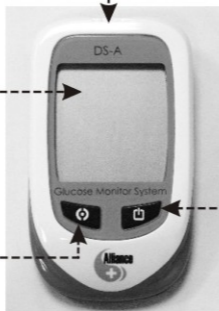
## Items are sold separately

**Display-**  
Shows blood glucose  
Results, messages,  
and the results stored  
in the memory.

**Power Button-**  
Press this button to  
enter or exit memory  
mode or change the  
values in setting mode.

**Test Strip Slot-**  
Insert test strip here.

**Function Button-**  
Press this button to  
enter to the setting  
Menu, adjusting the  
settings (such as time,  
date, etc.)



**FRONT VIEW**



**SIDE VIEW**

**Data Slot-**  
Transfer data from the meter  
to computer.



Battery Cover-  
slide cover off to  
replace battery

Strap Hole-  
For strap hanger use

**BACK VIEW**

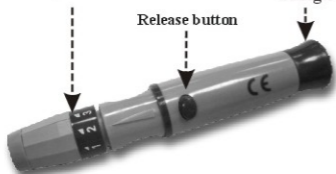


**Test Strip Vial**

Cap with comfort  
dial depth Selection

Release button

Plunger



**Lancet Device**



**CODE CARD**

Reaction  
zone



**TEST STRIP**

Protective cover



**LANCET**

## Introduction of Draw-In Glucose Test Strip



### 1. Reaction Zone

This is located at the top of the test strip. This area must be completely filled with the blood sample.

### 2. Application zone

This is located on the side of the reaction zone. When a drop of blood is applied to the reaction zone, it will be rapidly drawn in.

### 3. Introduction Zone

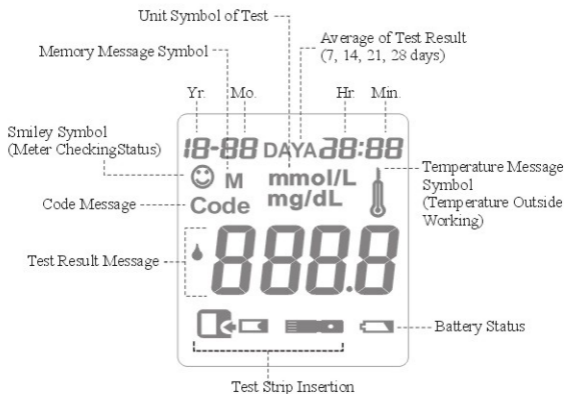
On the test strip, black bars are located in the bottom area, and it must be inserted into the strip slot with the black bars facing the glucose meter.



1. Blood should NOT be applied to the Introduction Zone.
2. Avoid touching the strip surface for long time, the moisture may affect the reaction and reading



## Symbols Introduction of the LCD Screen



### Display Symbols

The blood glucose meter makes use of symbols to guide you through the test and to help you determine whether the test strip and display function are ready or not. To check that all the display symbols are working, press the power button or insert the test electrode into the meter. When a test strip or CODE CARD is inserted, the display will turn on automatically. Each time the meter is turned on, all the symbols should appear briefly.

## Connecting (or changing) the battery

1. Press lightly on the battery cover and slide it in the direction of the arrow.
2. Use the long and thin tool Insert to the pointed hole to release the battery.




3. Replace a new battery under the copper hinge.
4. Push the top of the battery until it is firmly positioned.




The battery symbol shown on the screen means the battery is low, and needed to be changed as soon as possible.

## Setting the Measurement Unit, Year, Time, and Date


Setting the time and date is important if you use meter memory or connect to your computer.


1. With meter off press  (setting button). The year will flash.



2. Press  (power button) to change the year, until the desired year displayed.




3. Press again  the date will flash.

4. Press  to change the month, until the desired month displayed

5. Repeat steps 3 and 4 to change day, hour, minute and measuring unit.



6. After finishing setting up the measurement unit, press  to finish set-up and turn off the meter.

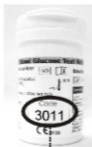
## Coding the Meter



1. With the meter off, insert the code card into the test strip slot. Please check the code card number whether it matches the number shown on the screen.



SAME



2. When you insert a test strip (see Running a Blood Glucose test on page 26), make sure the code on the meter screen displayed, and match the code on the test strip vial.



3. Throw away the old code card.



1. Each box of test strip contains one CODE CARD designed specially with one code number. Please do not use the test strips from different code number.
2. When using the test strips from the same code number, the CODE CARD only need to be used before the first strip box being used.
3. If you use the test strip from different code number or other brands, it will cause any wrong result or the meter can not function properly.
4. The test strip can automatically turn on the meter, when the test strip is removed, the meter will automatically turn off.

## Chapter 2 Control Testing

### Control Solution

To ensure that the glucose meter is operating correctly and obtaining accurate results, it is recommended to test with a control solution. Use of control is also recommended in the following conditions:

1. For practice purpose: To the first-time users when using new glucose meter or when using a new vial of test strips.
2. Whenever the test strips are exposed to the temperatures above  $40^{\circ}\text{C}$  or below  $14^{\circ}\text{C}$ .
3. After inappropriate operating the equipment. (See Page 38 ).
4. Whenever your blood glucose result appears doubtful.
5. Whenever your diabetic therapy is changed.



**Do not use expired control solution. The expiration date is printed on each container. Upon opening the control solution, the date of opening should be noted. The control solution is durable for 3 months after initial opening, and can be stored at room temp.**

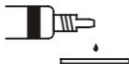
## Verifying strip accuracy using control solution

Before measuring your blood glucose level, you must have the following materials available:

- A. Your A-CHECK Blood Glucose Meter.
- B. Fresh A-CHECK Blood Glucose Test Strips.
- C. Fresh Control Solution.
- D. CODE CARD
- E. Lancet device and Lancets.

1. Take a test strip from the test strip vial and close the cap quickly.

2. Insert the test strip into the slot, and open the Control Solution.



3. Apply a drop of control solution onto a plain plastic surface, and apply the drop to the application zone of the test strip.



4. The solution is automatically drawn in and an audible signal is heard for confirming that the test strip took in a sufficient quantity of control solution.



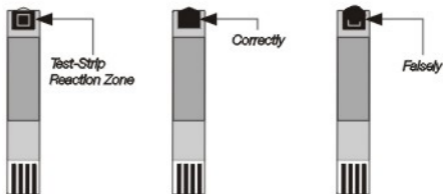
5. Close the control solution vial.

6. The measurement appears within 6 seconds. Compare it with the range which is printed on the strips vial.



If the result of your measurement lies within the range on the control solution container, an accurate blood glucose reading is ensured. If the test result lies outside this range, the following may apply:

- The control solution is no longer fresh or the test strips are defective.
- Ensure the glucose meter is used in the recommended temperature range, and the test strips and the control solution are stored within the correct temperature.
- Ensure the blood sample is fully filled in the reaction zone of the test strip, see below:



If the above situations occur, repeat the measurement at the correct temperature, utilizing a fresh control solution or new vial of test strips (See Warranty Policy).



## Chapter 3 Testing Your Blood Glucose

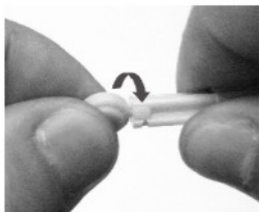
### Preparing the Lancet Device to get blood sample



1. Turn and pull off the cap.



2. Insert a lancet firmly into the carrier.



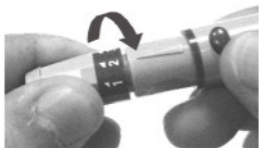
3. Twist off the lancet's protective cover.



4. Turn and push back the cap to the device.



You can refer to the First Time Guide or Quick Reference Guide for a simple testing summary.



5. Twist the cap to set the lancet depth. (start from 2 to 3). For tougher skin, dial to a higher number.



6. Pull the plunger until it clicks. Device is ready when you hear the clicks sound. Set aside for the test.



1. The lightest depth setting is the lowest number on the setting. Try different settings to find out which is right for you.
2. Always use a new lancet to maximize your comfort and safety.
3. To reduce the risk of infection, NEVER share your lancet device with others.

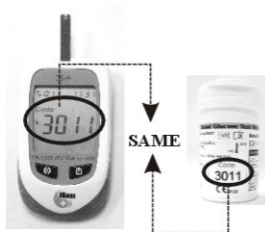
## Running a Blood Glucose Test



1. Use warm water to wash your hands and dry them. Then, massage your fingertips gently. It will be easier to get blood sample with less pain.



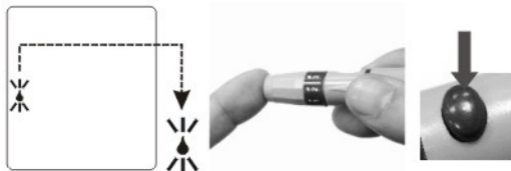
2. Take one test strip from the vial, close the vial cap rapidly and tightly.



3. When you insert a test strip, make sure the code shown on the meter screen that matches the code on the test strip vial.



1. After taking out the test strip from the vial, close the cover of the vial rapidly.
2. If the temperature is lower than  $14^{\circ}\text{C}$  or higher than  $40^{\circ}\text{C}$ , the LCD screen will display "ET" message.
3. If the LCD screen displays "CODE---" message, which means "CODE CARD." If the chip is damaged, please contact the National Exclusive Distributor.



4. When you see the flashing blood drop, hold the lancet device against the side of your fingertip and press the release button.



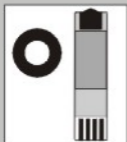
5. Gently squeeze your fingertip to get a drop of blood.



6. Gently squeeze your finger to assist the flow of blood. This helps you get a blood drop. Touch the drop to the tip of the yellow application zone of the test strip. Do not put blood on top of the test strip.

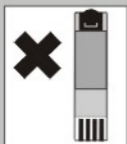


1.



**Correct Blood Application**

This strip has the correct amount of blood on it.



**Incorrect Blood Application**

Notice that the application zone is not completely filled with blood on it, and may produce an error message or inaccurate result.

2. If the blood sample is insufficient to fully filled the blood application zone of the test strip after an audible signal, please discard the strip and insert a new test strip to measure again.
3. Ensure the blood application zone is fully filled, and then the fingertip can leave the test strip.

## Normal Blood Glucose Value

Time of a day	Glucose range for normal individuals (mg/dL · mmol/L)	Your Glucose result (mg/dL · mmol/L)
Before breakfast	(70 ~ 105) 3.9-5.8	_____ mg/dL _____ mmol/L
Before lunch or dinner	(70 ~ 110) 3.9-6.1	_____ mg/dL _____ mmol/L
1 hour after a meal	Less than (160) 8.9	_____ mg/dL _____ mmol/L
2 hours after a meal	Less than (120) 6.7	_____ mg/dL _____ mmol/L
Between 2pm and 4pm	Greater than (70) 3.9	_____ mg/dL _____ mmol/L

### Source

Krall, L. P., and Beaser, R. S. Joslin Diabetes Manual Philadelphia: Lea and Febiger (1989), 138.



1. If your blood glucose result is unusually high, over 300mg/dL (16.6mmol/L) or lower under 50mg/dL (2.8mmol/L), you should utilize a fresh control solution to check if the test strip is defective.
2. If your blood result appears doubtful, repeat the test procedure by using a news test strip or test strip from new **any change to your vial. Please consult with your physician before making diabetic therapy.**

## **Understanding your Test Result**

The Blood Glucose Value is changing any time and will be affected by different elements. For example:

1. Measuring Blood Glucose level in different timing of a day.
2. The types of food you ate.
3. Vitality of body.
4. Insulin and medicines, etc.

### **High Blood Glucose Value**

If the Blood Glucose Value is too high or you have the symptoms (thirsty, pyuria, regurgitation, vomiting, dysopia, somnolence, bellyache) of High Blood Glucose; please consult with your physician.



### **Low Blood Glucose Value**

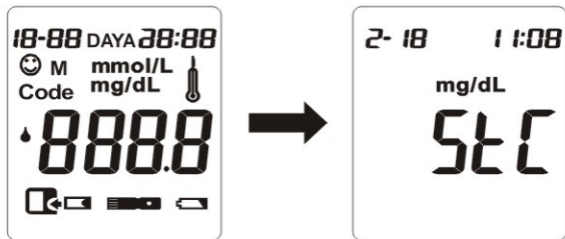
If the Blood Glucose Value is too low or you have the symptoms (night sweat, cold to shake, palpitating, headache, dysopia, dizzy, tachycardia, tinnitus, paralysis of fingertip) of Low Blood Glucose, please consult with your physician.

## Chapter 4: Using Your Meter Memory

### Storing Test Result


Your meter will automatically store up to 360-test results, and you can review them anytime. If you have set the time and date on the meter (see page 18), these information will also store and display with your test results. Moreover, the A-CHECK can also check the average value of blood glucose results for the past 7, 14, 21, and 28 days.

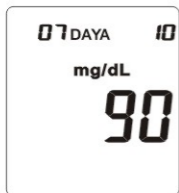
1. With the meter off, press and hold the  key for 3 seconds to turn on the Glucose Meter. Press and release  key once again in order to enter the Record Mode.







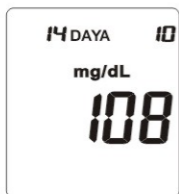
## Average Value of Blood Glucose Result Memory Recall


After entering the Record Mode, press  key to see the average value of blood glucose results for the past 7, 14, 21, and 28 days sequentially.



1. With the meter off, press and hold  key until it turns on.
2. Press  again to display the 7-day average.


 Example

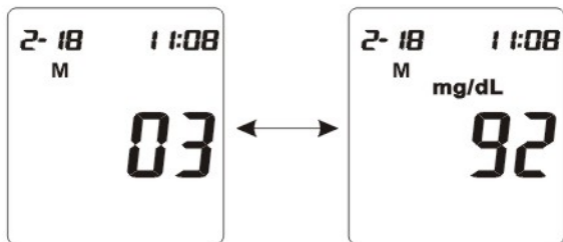


3. Press  again to display the 14-day average. by repeating this step, you can switch back and forth between 7, 14, 21, and 28 days average.

 Example


## Blood Glucose Result Memory Recall

Press  key in order to recall saved Blood Glucose Results with date and time. The LCD screen will display the record number, Blood Glucose Result, Measuring Date, and Time. The record Number and Blood Glucose Result will display alternately.



The memory can record the latest 360 Blood Glucose Results. When the memory is full, it will delete the oldest Blood Glucose result in order to update the latest record in the memory.



To quit the memory recall, press  key will still turn off the Glucose Meter and leave the record mode.

## Data Transfer to Your PC

The A-CHECK Blood Glucose Meter allows you to transfer all the data that you have stored in the memory to a separate Diabetic Management Software Program at PC, so this information can be printed.

**Step 1:** Install the software to your PC following the Software Operational Manual.

**Step 2:** Connect the glucose meter and you PC by using Interface Cable.

**Step 3:** Transfer data directly to your PC following the software Operational Manual, guidance.



1. Use only the Interface Cable to connect to the data port of Glucose Meter.
2. DO NOT run a glucose test when the Glucose Meter is connected to accessory equipment.
3. The Diabetic Management Software and Interface Cable are not included in the Kit of A-CHECK Blood Glucose Meter. Please contact the National Exclusive Distributor for the accessory.
4. The use of accessory equipment (such as computer or modem) that does not comply with the equivalent safety requirements of this glucose meter may lead to a reduced level of safety of the resulting system.

## **Chapter 5: Care and Cleaning and Maintenance**

### **Blood Glucose Meter**


Care and Cleaning of Blood Glucose Meter is very easy. Follow the instruction below, it can make sure that your Blood Glucose Meter will work properly.

1. DO NOT disassemble the Blood Glucose Meter. If you have any problems or questions, please contact the National exclusive Distributor for further assistance.
2. Please carefully carry or hold the Blood Glucose Meter to avoid extreme shock or accidental drop-down.
3. The Blood Glucose meter should work or be used under the temperature environment between 14°C - 40°C (57.2°F-104°F).
4. DO NOT expose the Blood Glucose Meter and Test Trip to extremely hot temperature , very high humidity (Kitchen or bathroom), and direct sunlight.
5. DO NOT use abrasive cleaners and never submerge the body of the blood Glucose Meter in water or other liquids. For proper cleaning, use a soft, dry lint-free cloth to clean the body of the Blood Glucose Meter and the Lancet Device.

## Lancet Device

1. To disinfect the Lancet device Device, use disinfectant liquid that mixes with water and bleaching powder (10:1) to clean the lancet device.
2. ONLY the cap of Lancet Device can be soaked in the disinfectant liquid for 30 minutes. DO NOT soak the whole lancet device (cap + body) in the disinfectant liquid.
3. Use clean water to clean the Lancet Device in the final step and let the Lancet Device dry completely.

## Battery

1. 3V Lithium coin battery can support approximately 1000 times of blood glucose test. When the battery needs to be changed, please use ONLY the CR2032 model of 3V Lithium coin battery.
2. When the LCD screen display the  symbol, please change the battery immediately in order to avoid the wrong test results.
3. Steps to change the battery
  - Step 1: Slide off the battery cover from the backside of the blood glucose meter and remove the used battery.
  - Step 2: Insert the 3V Lithium coin battery. The new Battery must be used with plus sign upward.
  - Step 3: Push the battery cover back to the cover position.
  - Step 4: Before use, please ensure that battery cover is always close



1. Changing the battery will not affect the test results in the memory.
2. After changing the battery, you will have to reset the time and date. Please refer to Page 18.

## Meter Operational Status Checking

1. Insert CODE CARD (in arrow direction) firmly into the test strip slot.
2. After removing the CODE CARD, the upper-left side of LCD screen will display the 😊 symbol. This symbol means the function of the meter is fully operated.
3. If the LCD screen DID NOT display the 😊 symbol, it means the blood glucose meter is breakdown. It may cause the wrong test results. Please contact the National Exclusive Distributor.

## Suggestion

1. Please carefully read this User's Manual of Blood Glucose Meter and Test Strip.
2. Without consulting your physician, DO NOT change the diabetic therapy.
3. If the test result is extremely different from your usual test results, please contact your physician.
4. Please DO NOT expose the un-use test strips to the air too long. Only store the test strip in the vial.
5. The test strips and the control solution should be used before the expired date and should be stored in the normal room temperature. Please DO NOT refrigerate it.
6. If the fresh blood sample has very high density of reducing substrate (Vitamins C, Uric Acid, etc...), it will affect the value of test result.
7. The hematocrit of the blood sample is higher than 55%, it will cause the value of test result lower than normal value of test result. For example, the blood from new-born baby.
8. During the blood glucose test, please ensure that the blood sample is fully filled all over the Blood Application Zone (yellow square area) of the test strip. If insufficient blood sample or the blood sample flows over the test strip rather than drawing, this will cause incorrect test results.

## Chapter 6 Safety and Disposal:

### Glucose meter

1. Please avoid operating Glucose Meter in the neighborhood of devices of generating potential electromagnetic interferences.
2. Do not dispose as household waste and dispose according to local regulations.
3. Take out battery before dispose.
4. Please recycle when possible.

### Used strip, lancet and pads

1. Used strips, lancets, and alcohol pads may be infectious if users have been infected with contagious diseases.
2. Therefore it is important to treat the used materials as infectious or biologically hazardous wastes.
3. Do not dispose as household waste and dispose according to local regulations.

### Battery

1. Before use, please ensure that battery cover is always closed.
2. Use only approved battery type, non-approved battery may cause to damage.
3. Do not dispose as household waste and dispose according to local regulations.
4. Do not dispose battery into fire!
5. Please recycle when possible.





**If taking blood from multiple users, disinfect the lancing device and all surfaces in contact with blood after each use. Dispose of the test strips and lancets safely.**

## Chapter 7 Screen Message and Troubleshooting


### Message Description and Proceeding Solution

All the messages will be displayed by symbols or images on the LCD screen. However, when the incorrect operation cause the incorrect test results, the glucose meter will not display any message or symbol for the incorrectness. If you still have any questions, please contact the National Exclusive Distributor.

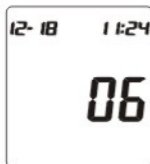
Message	Description	Proceeding Solution
	Every time after starting the glucose meter, please ensure all the symbols display on the LCD screen briefly. Please compare it with the image on Page 16.	If there are any symbols that do not display properly, it could cause the incorrect test result. Please contact the National Exclusive distributor.
	After inserting the "Code Card" Chip, the LCD screen shall display the Code Number and Measuring Unit in the memory.	Ensure the code number on the LCD screen and the CODE CARD are the same. Also, ensure the Measuring Unit is the standard unit suggested by your physician.



**Message****Description****Proceeding Solution**

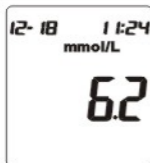
After pressing the  key, the LCD Screen shall display the Code Number and the symbol of waiting for test strip to be inserted.

Ensure the Code Number on the LCD screen and on the label of test strip vial are the same. Insert the test strip and draw in the blood sample into test strip to start the test.



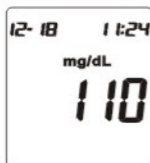
After drawing the blood sample into the test strip, the 6-seconds countdown shall start. After the countdown is finished, the Test Result will display on the LCD Screen.

NONE



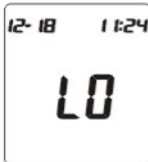
The Measuring Unit of the test Result is in mmol/L.

If the Measuring Unit is correct for you, then it does not need to be adjusted. If not, you need to re-adjust the Measuring Unit. Please refer to page 18.



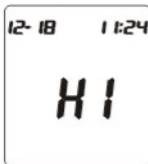
The Measuring Unit of the test result is in mg/dL.

If the Measuring Unit is correct for you, then it does not need to be adjusted. If not, you need to re-adjust the Measuring Unit. Please refer to page 18.

**Message****Description****Proceeding Solution**

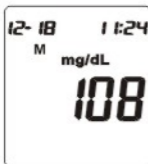
Your Blood Glucose may be extremely low. It's lower than 1.1 mmol/L (20mg/dL).

Ensure the test Strip has drawn in sufficient blood sample into the Blood application zone and make new test with new test strip again. If it is still displaying the LO symbol, please consult with your physician




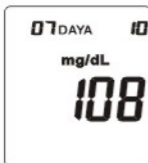
Your Blood Glucose may be extremely high. It's higher than 33.3mmol/L (600mg/dL).

Make new test with new test strip again. If it is still displaying the HI symbol, please consult with you physician




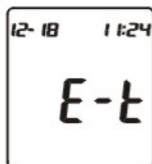
The test result will store in the memory.

After entering the record Mode, press  key in order to recall saved Blood Glucose Results with date and time. the memory can record the latest 360 Blood Glucose Results.



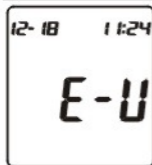
The average vale of Test Result for the past 7, 14, 21, and 28 days.

After entering the Record Mode, press  Key to see the average value of blood glucose result for the past 7, 14, 21, and 28 days sequentially.

**Message****Description****Proceeding Solution**

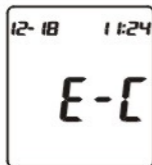
During the operation of Glucose Meter, the Temperature is extreme high or low.

Move the Glucose Meter into the temperature Environment between 14°C - 40°C (57.2°F-104°F) and re-operate again.



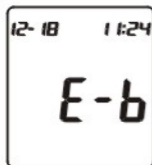
The test strip is used or damaged

Please DO NOT re-use the test strip. Please use a new strip to test again.



The Glucose Meter does not insert the CODE CARD or insert the incorrect CODE CARD

Please refer to page 22 for Blood Glucose Test Preparation and the use of correct CODE CARD



The battery is finished.

Please change the battery to avoid the incorrect test results or the Glucose Meter cannot be operated.

After inserting the Test Strip, if the Glucose Meter does not display any message or start the test, please check the following possible reasons and solutions.

## Reasons

## Solutions

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The battery is finished or do not install a battery.

Change a new battery or install a battery.

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The battery is installed in the wrong direction.

Ensure to put the plus sign of the battery upward.

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The test strip is inserted in the wrong direction or is not inserted completely.

Ensure to push the Introduction zone of the test strip (in arrow direction) firmly into the strip slot which is located on the top of the meter, then push the test strip to the end of strip slot.

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The Glucose Meter or the test strip is broken or damaged.

The battery is finished or do not install a battery.

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After inserting the test strip and turn on the Glucose Meter, the Glucose Meter will turn off automatically due to not operate the Glucose Meter over 1 minute.

Remove the test strip and push the test strip in the strip port again. Wait until the Blood Application Symbols shown on the LCD Screen, and draw in the blood sample for testing.

# NOTES

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# NOTES



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