



CE 0123



Alliance

DS-3

Owner's Booklet Easy Use



Blood Glucose Monitoring System

Gluco-Alarm DS-3
Blood Glucose Monitoring System

USER GUIDE

INTRODUCTION

Welcome to choose **Alliance International Co., Ltd's Gluco-Alarm Blood Glucose Meter** as your personal Blood Glucose Monitoring System.

Gluco-Alarm Blood Glucose Meter is a highly accurate and easy to use device. The meter accurately measures blood glucose levels in either mmol/L or mg/dL. The range of accuracy is either in millimoles [1.1 to 33.3 mmol/L] or mg [20 to 600 mg/dL].

Please ask your physician or your Alliance International Co., Ltd distributor whether to obtain readings in mmol /L or mg/dL.

The **Gluco-Alarm** Blood Glucose Meter utilizes the latest biosensor amperometric technology to measure blood glucose. It does this by recording a current between two electrodes. This highly accurate method distinguishes it from the older design of glucose meter that use color reaction. **In order that accuracy is achieved, the User Manual must be carefully read and simple rules adhered to.** First time users should practice handling the equipment and applying blood. To verify the accuracy of any glucose meter or test strip, a control solution may be purchased from your local retailer or STC distributor.

The **Gluco-Alarm** Blood Glucose Meter is intended to use outside the body (In-Vitro diagnostic use). It should be used only for testing purposes and only with fresh whole blood samples. It should not be used for diagnosis of diabetes.

WARRANTY

5 Years Warranty

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

The warranty of the repaired or replacement meter will expire on the date of the original warranty expiration or ninety days after 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 meters that show damage or abuse according to its Non-Warranty Service Policy, described below.

The purchaser's exclusive remedy with respect to the Glucose Meter shall be repair or replacement, at **Alliance International Co., Ltd** option.

In no event shall **Alliance International** be liable to the purchaser or any other person for any incidental, consequential, or punitive damages arising from or in any way connected with the purchase or Operation of the Glucose Meter or its parts.

Non-Warranty Service Policy

Gluco-Alarm Blood Glucose Meter Non-Warranty Service Policy applies to meters 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 with like or similar product.

Replacement (or repaired) meter will be warranted for a period of 90 days from shipment under a limited warranty providing for replacement of parts and labor at no charge.

Warranty and Service Instructions

All requests for return of **Gluco-Alarm** Blood Glucose Meters under the above Warranty or Non-Warranty Service Policy must be made by phoning **Alliance International Co., Ltd** or the national exclusive distributor.

Customer experiencing difficulties should review Error Message found in this manual. Further inquiries should be directed to **Alliance International Co., Ltd** or the national exclusive distributor. Be sure to fill out your warranty form that came with your **Gluco-Alarm** Blood Glucose Meter and return to **Alliance International Co., Ltd** or the national exclusive distributor.

Alliance International Co., Ltd

No. 54 Ying Tao RD Ying Ge Town,

Taipei County, Taiwan R.O.C.

TEL: +886-2-86781007

FAX: +886-2-86781006

EMAIL: lee_larry@alliance-intl.com.tw

National Exclusive Distributor Customer Service:

SIGN and SYMBOL


LOT Lot Number

IVD For in vitro diagnostic use

REF Catalogue number


 Consult instructions for use

 Use by

 Do not re-use

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

 Manufacturer

 Keep away from sunlight

 Keep dry

 Temperature limitation

 Caution

CONTENTS

Simple Introduction and note of meter operation.....	1
Standard Kit Content, Supplies, and Accessories.....	3
Specification of Gluco-Alarm Blood Glucose Meter.....	4
Specification of Draw-In Glucose Test Strip.....	5
Introduction of Gluco-Alarm Blood Glucose Meter.....	6
Introduction of Draw-In Glucose Test Strip.....	8
Symbols Introduction of the LCD Screen.....	9
Getting Blood Sample by Lancing Device and Lancet.....	10
Measuring your Blood Glucose Level.....	11
Memory Recall of Blood Glucose Result.....	19
Data Transfer to your PC.....	21
Gluco-Alarm Blood Glucose Meter Setting.....	22
Care and Cleaning and Maintenance.....	26
Suggestion.....	29
Message Description and Proceeding Solution.....	30

Simple Introduction and Notes of Meter Operation

1. Ensure that your **Gluco-Alarm** Blood Glucose Meter is properly calibrated for the glucose test strip you are about to use. Please be sure the "Check&Code" chip in the package has the identical number as that on the test strip vial. Enter the "Check &Code" chip into the strip port, you will hear an audible signal and the monitor will display the code for the vial of strips you are about to use. You are now ready to check your blood glucose. It is recommended that you use the "Check&Code" chip prior to testing, as this will indicate if the battery is charged and temperature range for testing is within acceptable limits.
2. Place the **Gluco-Alarm** Blood Glucose Meter on a stable surface or hold it securely in your hand.
3. Keep the test strip vial ready. Remove the test strip quickly, then immediately cover the vial tightly. Insert the test strip into the glucose meter. It will turn on automatically.

Note

If the test strip is not suitable for the meter or the test strip is not from the test strip vial that has the same code as code of "Check&Code" chip, Gluco-Alarm 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 the device and strips are stored in a clean, safe, dry environment and within 4°C and 32°C.
5. Use the glucose meter and test strips within the recommended temperature range (14°C to 40°C). Do not leave the test strips in a hot environment, e.g., in a car parked in the sun, as this will destroy the test strips. Never insert any other article except the "Check&Code" chip or test strips into the strip port.

Note

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.

Standard Kit Content, Supplies, and Accessories

Standard Content of Gluco-Alarm Blood Glucose Meter Kit

1. Gluco-Alarm Blood Glucose Meter x 1
2. CR2032 3V Battery x 1
3. Lancet Device x 1
4. Wallet x 1
5. User Manual 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

Note

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

Specification of Gluco-Alarm Blood Glucose Meter

1. Dimension: 86mm x 65mm x 18mm
2. Weight: 60g
3. Power source: CR2032 3V Lithium coin battery x 1
4. Battery life: Over 1,000 determinants
5. Display: Large LCD
6. External output: RS232 PC interface
7. Memory: 480 measurement results with date and time.
8. Auto electrode inserting detection
9. Auto sample loading detection
10. Auto reaction time count-down
11. Sleeping 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
15. Storage/Transportation condition: 4°C~32°C, <95% R.H.
16. Measurement Units: Either 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 design and/or manufacturing of the products:

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 requirements

IEC 60601-1-2

Medical electrical equipment

Part 2: Collateral standard:

Electromagnetic compatibility - Requirements and tests

Specification of Draw-In Glucose Test Strip

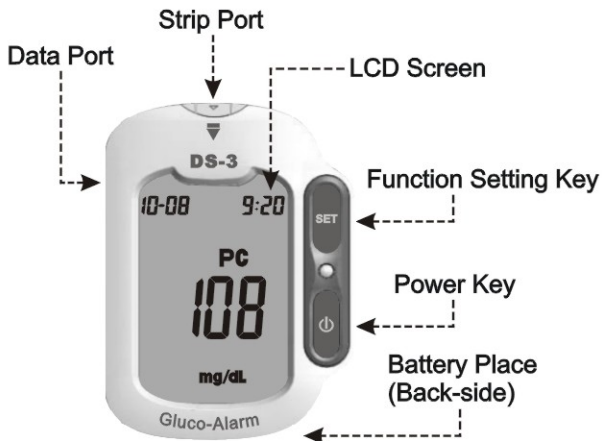
1. Strip size: 35mm × 6mm × 0.6mm
2. Required blood sample: 1µl
3. Test result time: 5 seconds
4. Hematocrit: 30% ~ 55%
5. Sample type: fresh capillary whole blood
6. Test range: 20~600mg/dL or 1.1~33.3mmol/L
7. Operation condition: 14°C ~ 40°C, <85% R.H.
8. Validity: to be used within 90 days after first opening or within 18 months from production date.
9. Unit of Packaging: 25 strips × 2 vials / box

Note

1. Do not use any expired strips.
2. These strips are only to be used with this glucose meter.
3. Do not use any blood which has been preserved (e.g. By fluoride).
4. It is not recommended to use this test with new-born.
5. High density of vitamin C and uric acid may influence the blood glucose level, which may cause inaccurate test results.
6. Hematocrit above 55% may cause a lower blood glucose level.
7. To protect the environment, dispose of used lancets and strips at appropriate collection sites according to national or local regulations. Avoid other people touching the used lancets or strips which may cause cross infection via one's wounds.
8. Keep the test strip vial away from children; the cap is a choking hazard. Also, the cap may contain drying agents that are harmful if swallowed or inhaled and may cause skin or eye irritation.

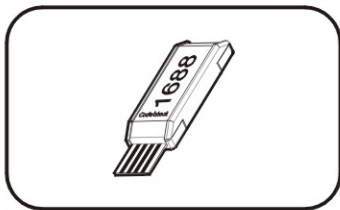
Introduction of Gluco-Alarm Blood Glucose Meter

Meter Appearance



1. **Power Key:** Press to control the meter on and off.
2. **Function Setting Key:** Press to adjust the functions.
3. **LCD Screen:** Display detail data of the blood glucose results.
4. **Strip Port:** Insert test strip or "Check&Code" chip.
5. **Data Port:** Transfer the information stored in the meter's memory to a computer to view, analyze and print.
6. **Battery Place:** Place for changing battery.

"Check&Code" Chip

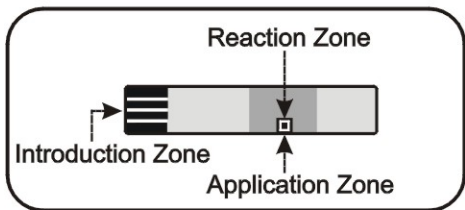


1. To calibrate meter.
2. To check the function of the glucose meter.
3. Please see glucose meter function checking on page 28.
4. When use the strip from new strip box, "Check&Code" Chip need to be used again.

Note

You will find the "Check&Code" Chip in each Kit of Glucose Meter or new box of Test Strip.

Introduction of Draw-In Glucose Test Strip



1. Reaction Zone

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

2. Application Zone

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

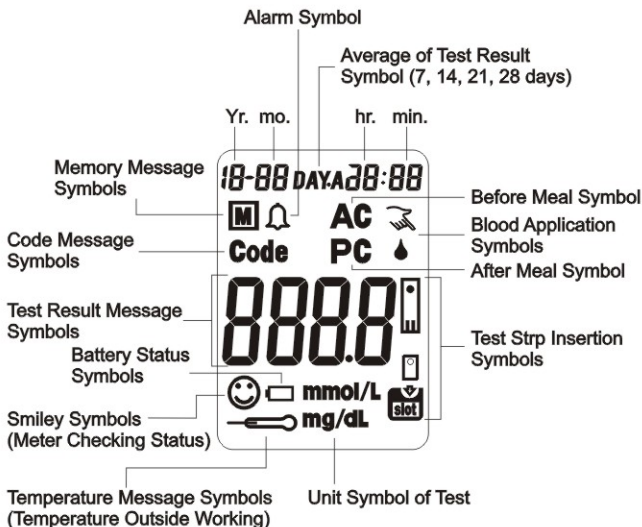
3. Introduction Zone

This is the area on the test strip with the black bars and must be inserted into the strip port with the black bars facing and towards the glucose meter.

Note

- 1. Blood should not be applied to the black bars at the tip or to the top of the strip.**
- 2. Any area of the strip can be touched. The glucose reading will not be affected.**

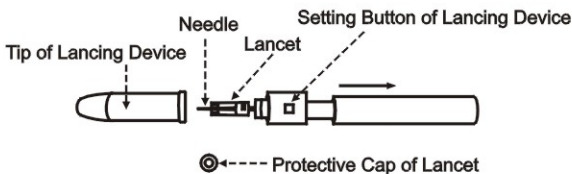
Symbols Introduction of the LCD Screen



Display Symbols

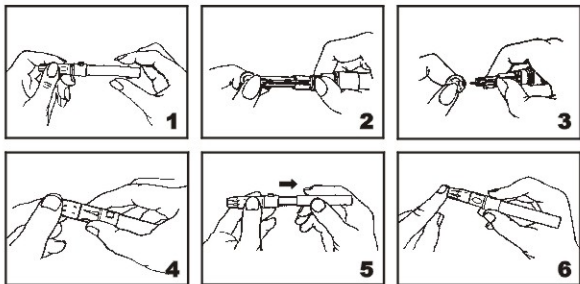
The blood glucose meter makes use of symbols to guide you through the test and to help you determine if test strip and display function properly. To check that all display symbols are working, just Press Power Key or insert the test electrode into the meter. When a test strip or "Check&Code" chip is inserted, the display will turn on automatically. Each time the meter is turned on all symbols should appear briefly.

Getting Blood Sample by Lancing Device and Lancet



Getting Blood Sample Operational Procedures

1. Unscrew the tip of lancing device.
2. Insert the lancet firmly into the carrier.
3. Remove the protective cap of the lancet and replace the tip of lancing device.
4. There are 5 different setting options with regard to penetration depth on the lancing device. This may be set according to your individual skin structure by turning the tip.
5. Draw the lancet by carefully pulling the springs apart.
6. Place the lancing device against the tip of your finger and press the setting button of lancing device.



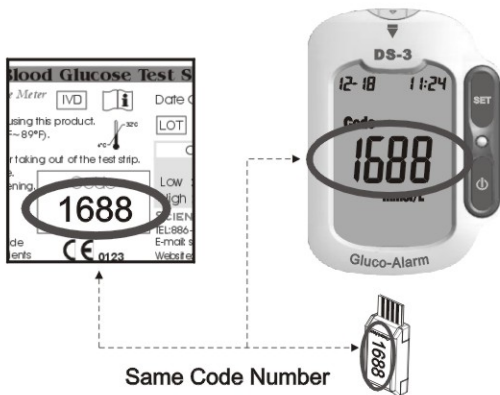
Note

Please clean your hands with warm water and dry them, then massage your finger tip gently to get a blood sample easily.

Measuring your Blood Glucose Level

Preparation before Measuring

1. All the symbols should display on the LCD Screen briefly when the meter is turned on. Please make sure all the symbols appear correctly in order to avoid the misreading. (Please refer to page 9 for correct symbols displaying)
2. Pull "Check&Code" Chip (in arrow direction) firmly into the Strip Port. LCD Screen should display Code Number, please make sure the Code Number on the LCD Screen, the "Check&Code" Chip, and the label of Test Strip Vial are the same. If the Code Numbers are different, it will cause the wrong test result.



3. After remove the "Check&Code" Chip, the left-bottom of LCD Screen should display "☺" symbol, this means the functions of the meter is fully operational. Now the meter can measure the glucose level.

Note

1. Each box of strip should have one "Check&Code" Chip designed specially with one Code Number. Please do not use the test strip from different Code Number.
2. When use the test strip from the same Code Number, the "Check&Code" Chip only need to be used before the first strip box is being used.
3. If you use the test strip from different Code Number or other brands, it will cause the wrong result or the meter cannot function properly.
4. The test strip can automatically turn on the meter, when the test strip is removed, the meter will automatically turn off.

Blood Glucose Level Measuring Procedures

Step1: Please clean your hands with warm water and dry them, the massage your finger tip gently to could get blood sample easily.

Step2: Please refer to Page 10 for Lancing Device Operational Procedures Steps(1~5).

Note

For Prevent of Blood Contamination

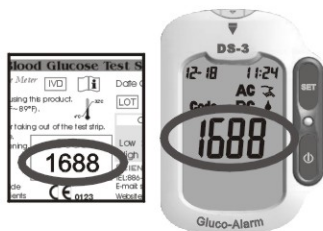
- 1. Please do not share the lancing device or lancet with other persons.**
- 2. Please use a whole new test strip for each measuring, do not repeat the same test strip.**
- 3. Please keep clean of lancing device.**

Step3: After pull the Introduction Zone of test strip (in arrow direction) firmly into the Strip Port that is located on the top of the meter, the LCD Screen should display the same Code Number on the "Check&Code" Chip.

Note

- 1. After remove the test strip from the vial, you should close the cover of the vial rapidly.**
- 2. If the Temperature is lower than 14°C or higher than 40°C, the LCD Screen will display " E-Ł " message.**
- 3. If the LCD Screen displays "Code—" message, it means the "Check&Code" Chip is damaged. Please contact the National Exclusive Distributor.**

Step4: To compare the Code Number on the LCD Screen and on the label of test strip vial.

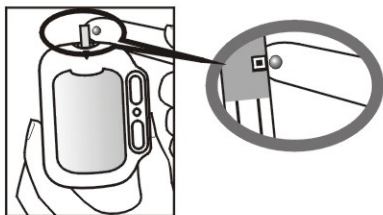


Note


When you use the test strip from different test strip box, please insert the new "Check&Code" Chip from the new test strip box.


Step5: Place the Glucose Meter on a stable surface or hold it securely in your hand. Refer to Page 10 Lancing Device Operational Procedures step6 for getting blood sample from finger tip or earlobe). If the blood sample is collected from finger tip, please put down your hand vertically for 10 to 15 seconds before you start getting the blood sample. And please use the new lancet.

Step6: To wipe up the initial blood sample, press your finger tip gently for the fresh blood sample. The blood sample will automatically apply it to the application zone of the test strip and start measuring the blood glucose level.



Note

1.  **Correct Blood Application**
This strip has the correct amount of blood on it.

-  **Incorrect Blood Application**
Notice that the application windows is not completely filled with blood. This strip has too little blood on it and may produce an error message or an inaccurate result.

2. If the blood sample is insufficient to fulfill the blood application zone of test strip after an audible signal, please discard the strip and make it again with new test strip.
3. Ensure the blood application zone is fulfilled, then the finger tip can leave the test strip.

Step7: During the measuring period, the LCD Screen should display 5 seconds count-down. When the count-down is finished, the LCD Screen should display the Blood Glucose Measuring Result.

Note

When the blood sample is insufficiency in the blood application zone or the meter is started measuring before the blood application zone is complete fulfilled, it will cause the wrong result. Please press "SET" Key within 10 seconds after test result is displayed; the record of incorrect result will be deleted. This can avoid the incorrect result to be stored in the memory and affect or incorrect the average result.

Step8: Please record the Blood Glucose Measuring Result in the Blood Glucose Result Manual. The Glucose Meter will also store the latest 480 records of blood glucose results in the memory. Please refer to Page 19 for Memory Recall of Blood Glucose Result.

Step9: To remove the test strip from the Meter, it will automatically turn off the meter. And carefully handle the used lancet and contaminated test strip.

Normal Blood Glucose Value

Time of 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 meals	Less than 160 Less than 8.9	_____ mg/dL _____ mmol/L
2 hours after meals	Less than 120 Less than 6.7	_____ mg/dL _____ mmol/L
Between 2pm and 4pm	Greater than 70 Greater than 3.9	_____ mg/dL _____ mmol/L

Source

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

Note

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

Understanding your Test Result

The Blood Glucose Value is changing in any time and affecting by different elements. For example:

1. Measuring Blood Glucose Level in different timing of a day.
2. The type of food that is eaten.
3. Vitality of Body.
4. Insulin and Medicines.

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 finger tip) of Low Blood Glucose; please consult with your physician.

Memory Recall of Blood Glucose Result

The Gluco-Alarm Blood Glucose Meter can record the latest 480 blood glucose results in the memory. Each record should include the blood glucose measuring date and time. More, the Gluco-Alarm Blood Glucose Meter can also check the average value of blood glucose result of past 7 days, 14 days, 21 days, and 28 days. Press the Power "⏻" Key to turn on the Glucose Meter and press the "⏻" Key once again in order to enter the Record Mode.

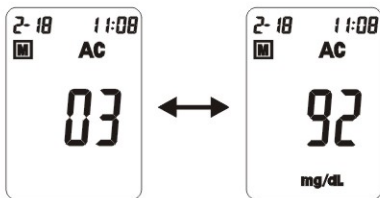
Average Value of Blood Glucose Result Memory Recall

After enter the Record Mode, press "⏻" Key to see the average value of blood glucose result of past 7 days, 14 days, 21 days, and 28 days sequentially. Meanwhile, press "SET" Key to switch the record of (AC) before meal and the record of (PC) after meal.



Blood Glucose Result Memory Recall

1. To press " Ⓟ " Key in order to recall saved Blood Glucose Results with date and time. The LCD Screen should display the Record Number, Blood Glucose Result, Measuring Date and Time, and AC or PC symbol. And the Record Number and Blood Glucose Result should display alternately.



2. The memory can record the latest 480 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.

Note

During the Memory Recall, press " Ⓟ " Key still will turn off the Glucose Meter and leave the Record Mode.

Data Transfer to your PC

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

Step1: Install the software to your PC following the Software Operational Manual.

Step2: Connect the Glucose Meter and your PC by using Interface Cable.

Step3: Transfer data directly to your PC following the Software Operational Manual.

Note

- 1. Use only an Interface Cable to connect to the data port of the 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 Gluco-Alarm Blood Glucose Meter. Please contact the National Exclusive Distributor for the accessory equipment.**
- 4. The use of accessory equipment (such as a 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**

Gluco-Alarm Blood Glucose Meter Setting

When you change battery or need to reset the Date and Time, Measuring Unit, or Alarm, you have to enter the Setting Mode. Before enter the Setting Mode, you need to turn off the Meter first. Then press "SET" Key to enter the Setting Mode.

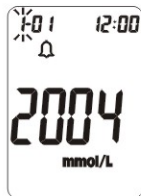
Year Setting

When the Year Number is flashing, if press "⏏" Key each time, the Year Number will increase one year; if press "⏏" Key still, the Year Number will increase continually until the "⏏" Key is released. When the Year Number is correct, press "SET" Key to enter the Month Setting.



Month Setting

When the Month Number is flashing, if press "⏏" Key each time, the Month Number will increase one month; if press "⏏" Key still, the Month Number will increase continually until the "⏏" Key is released. When the Month Number is correct, press "SET" Key to enter the Date Setting.



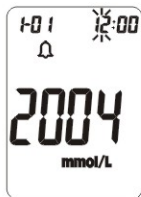
Date Setting

When the Date Number is flashing, if press "⏏" Key each time, the Date Number will increase one day; if press "⏏" Key still, the Date Number will increase continually until the "⏏" Key is released. When the Date Number is correct, press "SET" Key to enter the Hour Setting.



Hour Setting

When the Hour Number is flashing, if press "⏏" Key each time, the Hour Number will increase one hour; if press "⏏" Key still, the Hour Number will increase continually until the "⏏" Key is released. When the Hour Number is correct, press "SET" Key to enter the Minute Setting.



Minute Setting

When the Minute Number is flashing, if press "⏏" Key each time, the Minute Number will increase one minute; if press "⏏" Key still, the Minute Number will increase continually until the "⏏" Key is released. When the Minute Number is correct, press "SET" Key to enter the Measuring Unit Setting.



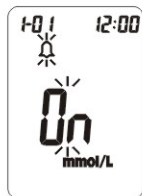
Measuring Unit Setting

When the Measuring Unit is flashing, press "⏏" Key and release it. The Measuring Unit will switch between mmol/L and mg/dL. When the Measuring Unit is correct, press "SET" Key to enter the Alarm Setting.



Alarm ON/OFF Status Setting

When the Alarm Symbol is flashing, press "⏏" Key and release it. The Alarm Status will switch between ON and OFF. When the Alarm ON/OFF Status is correct, press "SET" Key to leave the Setting Mode.



Testing Alarm Setting

When finishes the Glucose Test before the meal (the AC/PC Status must be switched to AC while making the Glucose Test before the meals), the Blood Glucose Meter will make 2 hours count-down automatically. While the 2 hours count-down is finished, the Testing Alarm shall ring for reminding the user to make a Glucose Test after the meal (after 2 hours of eating).

Note

- 1. When changing the date, the average value of blood glucose result of past 7 days, 14 days, 21 days, and 28 days in the memory will also be changed.**
- 2. The setting steps have to follow Year, Month, Date, Hour, Minute, Measuring Unit, and Alarm ON/OFF Status, then turn off the Glucose Meter and Leave the Setting Mode.**

Care and Cleaning and Maintenance

Blood Glucose Meter

Care and Cleaning of Blood Glucose Meter is very easy. Just follow the instruction below, it can make sure the Blood Glucose Meter working properly.

1. Do NOT disassemble the Blood Glucose Meter. If you have any problem or question, please contact the National Exclusive Distributor for further assistant.
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 use in the temperature environment between 14°C ~ 40°C.
4. Do NOT expose the Blood Glucose Meter and Test Strip to extreme temperature, very high humidity (Kitchen or Bathroom), and direct sunlight.
5. Do NOT use abrasive cleansers and never submerge the body of the Blood Glucose Meter in water or other liquids. For proper cleaning, to use a soft, dry cloth to clean the body of the Blood Glucose Meter and the lancet device.

Lancing Device

1. To disinfect the Lancing Device, can use the disinfectant liquid that is mixed with water and bleaching power (10:1) to clean the Lancet Device.
2. The Tip of Lancing Device can soak in the disinfectant liquid for 30 minutes. But do NOT soak the Lancing Device in the disinfectant liquid.
3. To use clean water to clean the Lancing Device in the final step and let the Lancing Device dry completely.

Battery

1. 3V Lithium coin Battery can support approximately 1000 Blood Glucose Tests. When the battery needs to be changed, please use ONLY the CR2032 model of 3V Lithium coin Battery or the same kind of 3V Lithium coin Battery.
2. When the LCD Screen displays the "□" symbol, please change the battery immediately in order to avoid the wrong test result.
3. Steps to change Battery
Step1: Slide off the Battery Cover from the backside of the Blood Glucose Meter, carefully push the brass clip to take out used Battery.
Step2: Insert the 3V Lithium coin Battery. The new Battery must be used with plus sign upward.
Step3: Push the Battery Cover back to the cover position.

Note

1. Changing Battery will not affect the Test Results in the memory.
2. After changing the battery, if the Glucose Meter is in the Setting Mode, please make sure the year, the month, the date, the time, the measuring unit, and alarm status are correct. If it is not correct, please re-set the functions before starting the new test. For the Blood Glucose Meter Setting, please refer to page 22.

Meter Operational Status Checking




1. Pull "Check&Code" Chip (in arrow direction) firmly into the Strip Port.
2. After remove the "Check&Code" Chip, the left-bottom of LCD Screen should display " 😊 " symbol, this means the functions of the meter is fully operational.
3. If the LCD screen displays " 😞 " symbol, it means the Blood Glucose Meter is breakdown. It may cause the wrong test result. Please contact the National Exclusive Distributor.

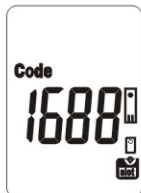
Suggestion

1. Please carefully read the User 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 differ than your usual Test Result, please consult with 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 expired date and should be stored in the normal room temperature. Please do NOT refrigerate.
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 test of Blood Glucose, please ensure the blood sample is fulfilled all over the Blood Application Zone (yellow square area) of test strip. The insufficient blood sample or the blood sample is swearing over the test trip instead of draw in the blood sample, all will cause the incorrect test result.

Message Description and Proceeding Solution

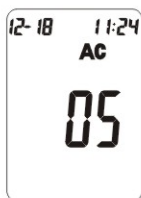
All the messages will be displayed by symbols or images on the LCD Screen. However, when the incorrect operation causes the incorrect test result, the Glucose Meter will not display any message or symbol for the incorrectness. If you still have question, please contact the National Exclusive Distributor.

Message	Description	Proceeding Solution
	Every time after starting the Glucose Meter, please ensure all the symbols display on the LCD Screen. Please compare it with the image on Page 9.	If there are symbols does not display properly, it could cause the incorrect test result. Please contact the National Exclusive Distributor.
	After insert the test strip to the strip port and start the Glucose Meter, the LCD Screen shall display the Code Number and also the symbol of blood application. AC and PC can be switched and chosen by press "SET" Key.	Ensure the Code Number on the LCD Screen and on the label of Test Strip Vial are the same number. Also, choose the testing time is before meals (AC) or after meals (PC). Then draw in the blood sample to start the Test.
	After insert the "Check&Code" Chip, the LCD Screen shall display the Code Number and Measuring Unit in the memory.	Ensure the Code Number on the LCD Screen and on the "Check & Code" Chip are the same. Also, ensure the Measuring Unit is the standard unit suggested by your physician.

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

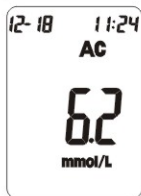
After press the " \odot " Key, the LCD Screen shall display the Code Number and the symbol of waiting for test strip to be inserted.

Ensure the Code Number on the LCD Screen and on the label of Test Strip Vial are the same number. Insert the test strip and draw in the blood sample into test strip to start the test.



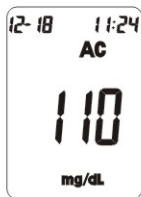
After draw in the blood sample into the test strip, the 5 seconds count-down shall start. After the count-down is finished, the Test Result shall display on the LCD Screen.

NONE



The Test Result, Measuring Unit 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 24.



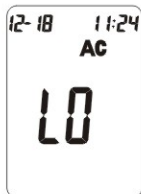
The Test Result, Measuring Unit is in mg/dL.

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 24.

Message

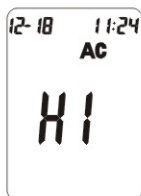
Description

Proceeding Solution



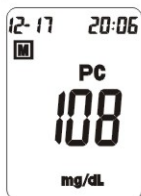
Your Blood Glucose may be extremely low. It's lower than 1.1 mmol/L (20mg/dL).

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 still display LO symbol, please consult with your physician.



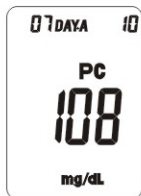
Your Blood Glucose may be extremely high. It's higher than 33.3 mmol/L (600mg/dL).

Make new test with new test strip again. If still display HI symbol, please consult with your physician.



The Test Result that stores in the memory.

After enter the Record Mode, press "Φ" Key in order to recall saved Blood Glucose Results with date and time. The memory can record the latest 480 Blood Glucose Results.



The average value of Test Result of past 7 days, 14 days, 21 days, and 28 days.

After enter the Record Mode, press "Φ" Key to see the average value of blood glucose result of past 7 days, 14 days, 21 days, and 28 days sequentially. Meanwhile, press "SET" Key to switch the record of (AC) before meal and the record of (PC) after meal.

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

12-18 11:24

E-L

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 and reoperate again.

12-18 11:24

E-U

The Test Strip is used or damaged.

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

12-18 11:24

E-C

The Glucose Meter does not insert the "Check&Code" Chip or insert the incorrect "Check&Code" Chip.

Please refer to page 11 for Blood Glucose Test Preparation and use the correct "Check&Code" Chip.

12-18 11:24

E-b

The Battery is finished.

Please change the battery to avoid the incorrect test result 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 reason and solution.

Reason	Solution
The battery is finished or do not install the battery.	Change the new battery or install the battery.
The battery is installed in the wrong direction.	Ensure to put the plus sign of battery upward.
The Test Strip is inserted in the wrong direction or is not inserted completely.	Ensure to pull the Introduction Zone of test strip (in arrow direction) firmly into the Strip Port that is located on the top of the meter. Then pull the test strip to the end of Strip Port.
The Glucose Meter or the Test Strip is broken or damaged.	Please contact the National Exclusive Distributor.
After insert the test strip and turn on the Glucose Meter, due to not operate the Glucose Meter over 1 minute, the Glucose Meter turns off automatically.	Remove the Test Strip and Pull the Test Strip in the Strip Port again. Wait to have Blood Application Symbol on the LCD Screen, then draw in the blood sample for testing.