

# **This operating manual can be used with the GlucoPro Innova**

**Dear GlucoPro Innova System Owner :**

Thank you for purchasing the GlucoPro Innova Blood Glucose Monitoring System.

This manual provides important information to help you to use the system properly. Before using this product, please read the following contents thoroughly and carefully.

Regular monitoring of your blood glucose levels can help you and your doctor gain better control of your diabetes. Due to its compact size and easy operation, you can use the GlucoPro Innova Blood Glucose Monitoring System to easily monitor your blood glucose levels by yourself anywhere, any time. If you have other questions regarding this product, please contact the local customer service or place of purchase.

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*OPTIONAL FUNCTION	

## INTENDED USE

### The GlucoPro Innova Blood Glucose Monitoring System.

The GlucoPro Innova blood glucose meter is intended to be used for quantitative blood glucose tests in fresh capillary blood. The meter can only be used together with GlucoPro Innova blood glucose test strips. The blood glucose monitoring system comprises the meter and test strips and is suitable for self-testing and for professional use. People with diabetes can use this system to self-test their blood glucose. The system must not be used to diagnose or rule out diabetes. The system is only suitable for use outside the body (*in vitro* diagnostic use). **It should not be used for the diagnosis of diabetes.** The meter must only be used for its intended purpose; if used otherwise preventive measures could be ineffective.

# **IMPORTANT SAFETY PRECAUTIONS**

## **READ BEFORE USE**

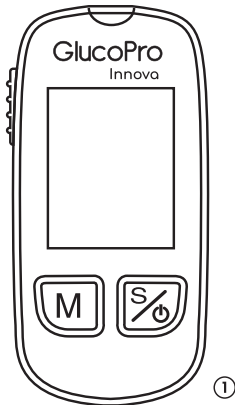
1. Use this device **ONLY** for the intended use described in this manual.
2. This device does **NOT** serve as a cure for any symptoms or diseases. The data measured is for reference only. Always consult your doctor to have the results interpreted.
3. Keep the device and testing equipment away from young children. Small items such as the battery cover, batteries, test strips, lancets and vial caps are choking hazards.
4. Before using this device to test blood glucose, read **all** instructions thoroughly and practice the test. Carry out **all** the quality control checks as directed.
5. Do **NOT** use the device if it is not working properly or if it is damaged.
6. Do **NOT** use accessories which are not specified by the manufacturer.
7. **All** parts of the kit are considered biohazardous and can potentially transmit infectious diseases, even after you have performed cleaning and disinfection.

## **KEEP THESE INSTRUCTIONS IN A SAFE PLACE**

## SYSTEM CONTENTS

Your GlucoPro Innova system kit includes:

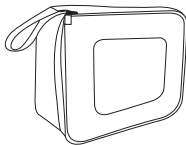
- ① Blood glucose meter
- ② User manual
- ③ Carrying bag
- ④ Warranty card (last page of the user's manual)
- ⑤ Lancing Device (optional)
- ⑥ Lancets (optional)



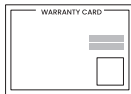
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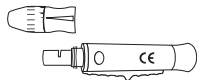
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④



⑤

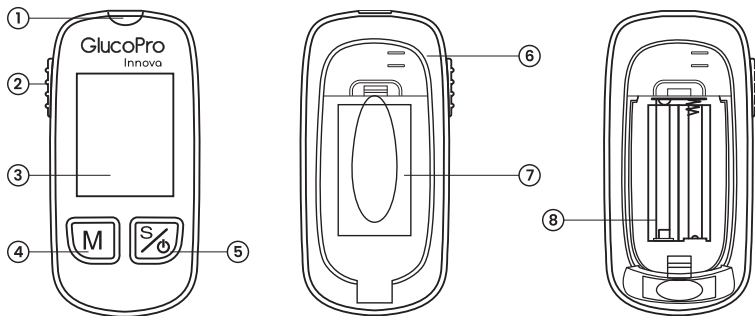


⑥

**NOTE:**

Either multiple-use auto-disabling lancing devices or single-use, disposable lancing devices can be used with this system. If any items are missing from your kit or opened, prior to use, please contact local customer services or place of purchase for assistance.

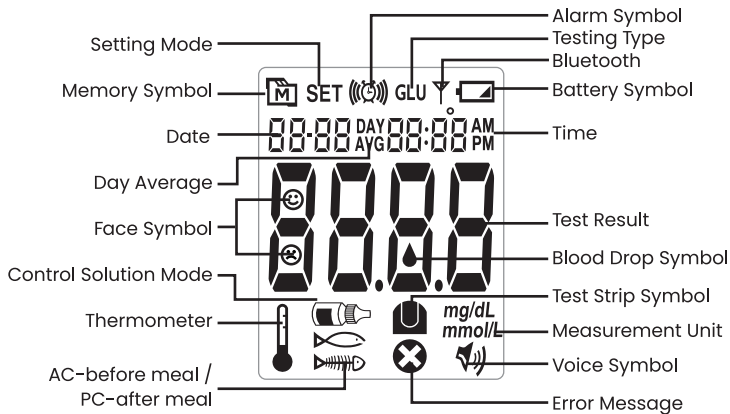
## METER OVERVIEW



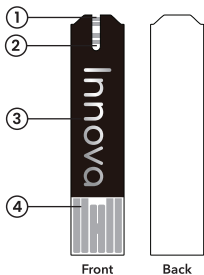


- ① Test strips slot: Insert test strip here to turn the meter on for testing
- ② Ejection Button: Eject test strip from the meter
- ③ Display Screen
- ④ M Button: Review the meter memory, switch AC/PC & Control solution mode, enter settings, and alarm settings
- ⑤ ON&OFF /S Button: Adjust settings
- ⑥ Speaker
- ⑦ Meter Label (Serial Number)
- ⑧ Battery compartment: Holds TWO 1.5V AAA batteries

# DISPLAY SCREEN



## TEST STRIP



- (1) Absorbent Hole  
Apply a drop of blood here and the blood will be drawn in automatically.
- (2) Confirmation Window  
Confirm if enough blood has been applied to the absorbent hole of the test strip.
- (3) Test Strip Handle  
Hold this part to insert the test strip into the slot.
- (4) Contact Bars  
Insert this end of the test strip into the test slot.

### ATTENTION :

1. The front side of test strip should face up when inserting test strip.
2. Test results will be wrong if the contact bar is not fully inserted into the test slot.

### Remark:

The GlucoPro Innova meter should only be used with GlucoPro Innova Test Strips. Using the wrong test strips with this meter will produce inaccurate results.

## CHANGING THE BATTERY

When the battery symbol appears on the display for the first time, the battery is almost empty. Change the battery as soon as possible. The battery has already lost a lot of power and changeable conditions (e.g. a cold environment) can affect its performance even further.

You need TWO batteries of the type 1.5V AAA Battery.

With new batteries, you can perform approx. 1000 tests or test for approx. 1 year with a basic meter; you can also perform approx. 500 tests or test for approx. half a year with an advanced meter. When you change the battery, your saved test results always remain saved. Remove the used battery right before inserting the new battery into the meter so that the time and date settings are not lost.

### CAUTION

- ✓ Do not use rechargeable or poor batteries.
- ✓ Do not remove the batteries during the testing.
- ✓ Do not mix the batteries or use the old and new batteries at the same time.
- ✓ Please follow the local laws when discarding used batteries.

## CHANGING THE SETTINGS

Before using your meter for the first time or if you change the meter battery, you should check and update these settings.

To enter the setting mode, start the meter without test strips inserted. Press ON&OFF / S Button for 3 seconds. Then you may set up your blood glucose meter in the below sequence.

Date & Time Settings

Reminder Alarm Settings

**\* Optional function**

**Remark:**

Please note if your meter does not have \*optional function, then you do not need to see related instruction.

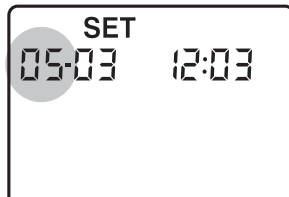
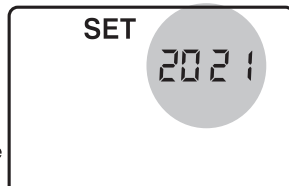
## Date & Time Settings

1. If your blood glucose meter has \*Bluetooth function, please long press the S button and select No to set the date.
- 2.If your blood glucose meter does not have \*Bluetooth function, please long press the S button to set the date directly.

### -Date Settings

The sequence of the date setting is:

YEAR → MONTH → DAY

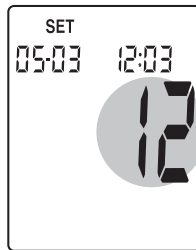
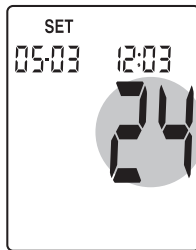


With Year/Month/Day flashing in sequence, press S until the correct year/month/day appears. Press the M button to confirm.

## -TIME format Settings

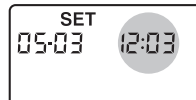
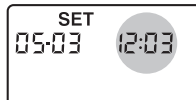
Press S to select the desired time format

--- 12h or 24h. Press M.



## -TIME Settings

With the HOUR/MINUTE flashing in sequence, press the S button until the correct hour / minute appears. Press the M button to confirm.



## - Reminder Alarm Settings

There are four reminder alarms.

Press S button to switch "ON" or "OFF" for the alarms and press M button to confirm.

-If you want the alarm is ON, with the hour/minute flashing in sequence, press S to select the correct hour/ minute. Press M to confirm and go to the next alarm setting.

- If you want the alarm is OFF, press M to confirm. You will be able set the next alarm or the meter will shut down automatically once every alarms are set.

SET 

## - Fast Alarm Setting

Press M button for 3 seconds, then you may follow above setting instructions.

### **Remark:**

These parameters can ONLY be changed in the setting mode.  
If the meter is not in use for 3 minutes during the setting mode, it will switch off automatically.



## CODING YOUR METER

A new code card is inside each new box of test strips. Code your meter every time when you open a new box of test strips.

1. Insert the code card into the slot. The display will show:



2. The code number will be show on the display. Make sure the code number on the display matches the code number on the test strip vial.



### **WARNING**

Do not discard the code card until you use all test strips in the same vial.

\* Optional function: Apply to every test strip box that comes with code card inside.

## **BEFORE TESTING**

### **Checking your test results**

Control Solution contains a known amount of glucose that reacts with test strips and is used to ensure your meter and test strips are working together correctly.

Test strips, control solutions, lancing device or sterile lancets may not be included in the kit (please check the contents on your product box). They can be purchased separately. Please make sure you have those items needed for a blood glucose test beforehand.

### **Do a control solution test when...**

- You first receive the meter, at least once a week to routinely check the meter and test strips, and when you begin using a new vial of test strips.
- You suspect the meter or test strips are not working properly.
- Your blood glucose test results are not consistent with how you feel, or if you think the results are not accurate.
- Practicing the testing process, or if you have dropped or think you may have damaged the meter.

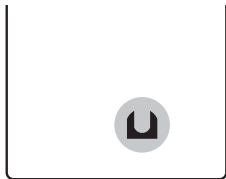
## PERFORMING A CONTROL SOLUTION TEST

To perform a control solution test, you will need: GlucoPro Innova blood glucose meter, GlucoPro Innova test strip, control solution.



1. Insert the test strip into the meter to turn on meter.  
Wait for the meter to display the "🩸" and "📄".



Drop blood



Strip

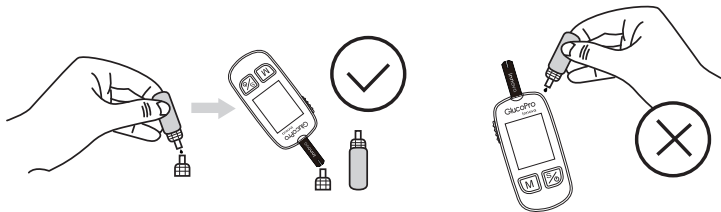
2. Press the M button until the icon [mark this test as a control solution] appears. With "  " displayed, the meter will not store your test result in memory. If you press M button again, the "  " will disappear and this test is no longer a control solution test.

**WARNING**

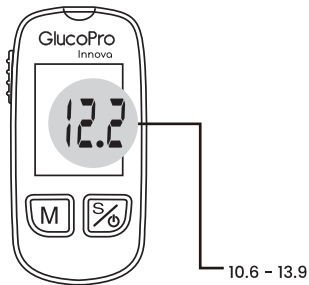
When doing the control solution test, you must mark it so that the test result will NOT be stored in the memory. Failure to do so will mix up the blood glucose test results with the control solution test results in memory.

## APPLY CONTROL SOLUTION

1. Shake the control solution vial thoroughly before use. Squeeze out a drop and wipe it off, then squeeze out another drop and place it on the tip of the vial cap.
2. Hold the meter to move the absorbent hole of the test strip to touch the drop. Once the confirmation window fills completely, the meter will begin counting down.
3. To avoid contaminating the control solution, do not directly apply control solution onto a strip.

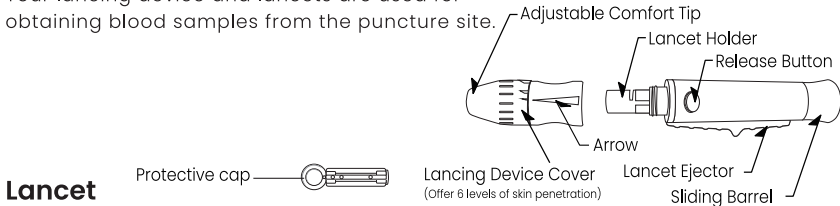


4. Read and compare the results after counting down, the control solution test result will appear on the display. Compare this result with the range printed on the control solution and it should fall within this range. If not, please read the instructions again and repeat the control solution test.
5. Out of range results: If you continue to have test results fall outside of the range printed on the control solution bottle, the meter or strips may not be working properly. Therefore, do NOT test with your blood. Please contact the local customer service or place of purchase to get help.



## ADJUSTABLE LANCING DEVICE

Your lancing device and lancets are used for obtaining blood samples from the puncture site.



### Lancet

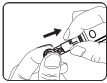
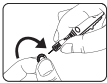
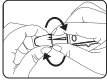



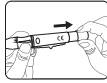
#### **⚠ Important Lancing Device and Lancets Information**

1. ⓧ Lancet is for single use only.
2. Keep lancing device and lancets clean.
3. Use caution when removing the used lancet from the device and when disposing the used lancet.

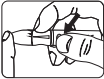
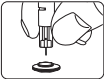
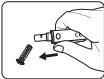
#### **⚠ IMPORTANT :**

The meter and lancing device are for single patient use.  
Do NOT share them with anyone including other family members !  
Do NOT use on multiple patients !

## Setting your Lancing Device

	<p>1. Screw off the cap of lancing device. Insert a lancet into the lancet holder and push down until it is fully seated.</p>
	<p>2. Twist off the protective cap until it separates from the lancet.</p>
	<p>3. Replace the lancing device cap and set the puncture depth to the desired number. To select the best depth:</p> <ul style="list-style-type: none"><li> For delicate skin</li><li> For normal skin</li><li> For thick or callused skin</li></ul>
	<p>4. Pull back the Sliding Barrel until it makes a click, and then release. If it does not click, the device may have been cocked when the lancet was inserted.</p>



	<p>5. Place the end of the lancing device against the arm from which the blood sample is to be obtained. Apply pressure and the skin inside the target area will rise slightly. Push the Release Button to puncture the skin.</p>
	<p>6. Remove the Adjustable comfort Tip when finished. Put the Protective Cap back onto the exposed needle of the lancet.</p>
	<p>7. Direct the lancing device away from you and slide the Lancet Ejector lever in a forward motion, disposing the lancet in an approved container.</p>



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China

# TESTING BLOOD GLUCOSE

## Preparing the Lancing Device for Blood Testing

Please refer to the manufacturer's instructions for the lancing device to collect a blood sample.

### Warning:

To reduce the chance of infection:

- Never share a lancet or the lancing device.
- Always use a new, sterile lancet. Lancets are for single use only.
- Avoid getting hand lotion, oil, dirt, or debris in or on the lancets and the lancing device.
- Wash and dry your hands thoroughly after handling the meter, lancing device and test strips to prevent infection.
- If the meter is being operated by a second person who is providing testing assistance to the user, the meter and lancing device should be decontaminated prior to use by the second person.

Sharing the lancing device and lancets may increase the risk of contracting infectious diseases. Lancing device must not be used by more than one person.

## Preparing the Puncture Site

Stimulating blood perfusion by rubbing the puncture site before blood extraction has a significant influence on the glucose value obtained. Blood from a site that has not been rubbed exhibits a measurably different glucose concentration than blood from the finger. When the puncture site is rubbed prior to blood extraction, the difference is significantly reduced.

## BLOOD SAMPLING

### Capillary Whole Blood:

For detailed information of lancing device, please refer to the lancing device instruction.

1. Wash your hands in warm, soapy water. Rinse well and DRY them thoroughly.  
You can also use an alcohol pad to clean your fingertip. It is necessary to make sure the site is DRY before using the lancing device.
2. Place the lancing device against your fingertip and press the trigger.
3. To help blood drip, lower your hand below your waist and gently massage your finger from palm to fingertip.

#### **WARNING**



Do not use the meter under any foreseeable environmental hazards  
(ex: strong magnetic fields, external influences, electrostatic discharge...etc.)

# TESTING YOUR BLOOD GLUCOSE

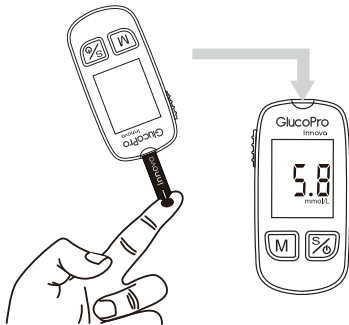
## Steps to Test your Blood Glucose:

1. Take one test strip out of the test strip vial. Recover the vial cap immediately and close it tightly.
2. Insert this test strip (with the gold bars facing up) into the test strip slot of the meter. The meter turns on automatically.
3. Or you can press "S" to turn on the meter, and a test strip symbol will flash (for inserting a test strip).
4. When the blood drop symbol flashes on the meter, it means that you can start testing. You have 3 minutes to apply the blood sample. If you do not apply within 3 minutes, the meter will turn off automatically.
5. Place the lancing device against your fingertip and press the trigger.
6. Pick up the meter and use whatever you feel is the most comfortable way to approach the blood drop by the application point of the test strip. The blood will be drawn into the test strip automatically. You will hear a beep and the test begins.

### NOTE

To Switch AC →before meal  / PC→after meal  , press the " M " button when you insert the strips.

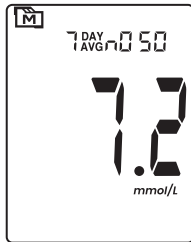
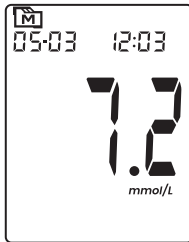
7. When you hear a beep, the meter starts to count down. Then the test result is displayed with the date & time, and is stored automatically.
8. (1) When it is in A - C before meal mode, 🐟, if your blood glucose result is in range...
  - from 3.3 to 6.1, there will be a smiley face symbol, 😊, shown on the screen.
  - outside of 3.3 to 6.1, there will be a sad face symbol, ☹️, shown on the screen.(2) When it is in P - C after meal mode, 🏠, if your blood glucose result is in range...
  - from 7.2 to 10, there will be a smiley face symbol 😊 shown on the screen.
  - outside of 7.2 to 10, there will be a sad face symbol ☹️ shown on the screen.
9. Record the result.
10. Remove the test strip from the meter.  
Discard the used test strip and lancet in a puncture proof container.





# REVIEWING BLOOD GLUCOSE DAY AVERAGE RESULTS AND MEMORY

## Reviewing Test Results

1. To see Single testing results: When the meter is shut, press the M button to enter the memory mode. The last result will appear on the display. Press the M button again to recall the test results stored in the meter. After the last test results, press M button to exit the memory mode, the meter will be turned off.



2. To see Average testing results: When the meter is shut, press the M button to enter the memory mode. Then, Press the S button to display the 7, 14, 30, 90 day average results for before - meal results "  ", keep pressing the S, the 7, 14, 30, 90 day average results for after - meal results "  " will appear. After the last test results, press S button to exit the memory mode, the meter will be turned off.

\* n050 mean the 50 testing sequence in the average

# MAINTENANCE

## Caring for Your Meter

1. To clean the meter exterior, wipe it with a cloth moistened with tap water or a mild cleaning agent, then dry the device with a soft dry cloth. Do NOT rinse with water.
2. Do NOT use organic solvents to clean the meter.

## Meter Storage

- Storage conditions:  $-20^{\circ}\text{C}$  to  $70^{\circ}\text{C}$  ( $-4^{\circ}\text{F}$  to  $158^{\circ}\text{F}$  ), below 85% relative humidity.
- Always store or transport the meter in its original storage case.
- Avoid dropping and heavy impact.
- Avoid direct sunlight and high humidity.

## Meter Disposal

The used meter should be treated as contaminated as it may carry a risk of infection during measurement. The batteries in a used meter should be removed and the meter should be disposed of in accordance with local law.

## Caring for Your Test Strips

- Storage conditions: 4°C to 35°C (39°F to 95°F ), below 85% relative humidity. Do NOT freeze.
- Store your test strips in their original vial only. Do not transfer to another container.
- Store test strip packages in a cool dry place. Keep away from direct sunlight and heat.
- After removing a test strip from the vial, immediately close the vial cap tightly.
- Touch the test strip with clean, and dry hands. Use each test strip immediately after removing it from the vial.
- Write the opening date on the vial label of when you first opened it. Discard remaining test strips after 3 months.
- Do not use test strips beyond the expiry date. This can cause inaccurate results.
- Do not bend, cut, or alter a test strip in any way.
- Keep the strip vial away from children since the cap and the test strip may be a choking hazard. If swallowed, promptly see a doctor for help. For further information, please refer to the test strip package insert.



# TROUBLESHOOTING

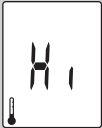
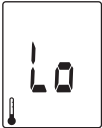

## 1. Reference values

Blood glucose monitoring plays an important role in diabetes control. A long-term study showed that maintaining blood glucose levels close to normal can reduce the risk of diabetes complications by up to 60%. The results provided by this system can help you and your healthcare professional monitor and adjust your treatment plan to gain better control of your diabetes.

Time of day	Normal plasma glucose range for people without diabetes	Diabetes control target
Fasting and before meal	<100 mg/dL (5.6 mmol/L)	80-130 mg/dL (4.4-7.2 mmol/L)
2 hours after meals	<140 mg/dL (7.8 mmol/L)	140-180 mg/dL (7.8-10 mmol/L)
Before sleep	<110 mg/dL (6.1 mmol/L)	100-140 mg/dL (5.6-7.8 mmol/L)

Refer to the American Diabetes Association website Last Edited: February 7, 2018  
Please consult your doctor to determine a target range that works best for you.

## 2. Error Messages

MESSAGE	WHAT IT MEANS	WHAT TO DO
 The icon shows the letters 'Hi' in a large, bold, black font. In the bottom-left corner, there is a small thermometer icon with a red line indicating a high temperature level.	Temperature is too high during the test procedure.	Move to a normal environment 10°C~40°C (50°F~104°F) and wait 20 minutes before re-testing.
 The icon shows the letters 'Lo' in a large, bold, black font. In the bottom-left corner, there is a small thermometer icon with a red line indicating a low temperature level.	Temperature is too low during the test procedure.	Move to a normal environment 10°C~40°C (50°F~104°F) and wait 20 minutes before re-testing.
 The icon is a simple white rectangle with a thin black border. In the top-right corner, there is a small battery icon with a checkmark inside it, indicating a low battery level.	Appears when the battery is too low.	Replace the batteries immediately.

## MESSAGE

## WHAT IT MEANS

## WHAT TO DO



Meter battery power is too low. When "Lo" is flashing 3 times in a row, the meter will shut down automatically.

Replace the batteries immediately.







Blood glucose level is higher than 700 mg/dL (38.8 mmol/L).

Test again to make sure of the measurement value, if it still appears, please consult with your doctor.



Blood glucose level is lower than 20 mg/dL(1.11 mmol/L).















Test again to make sure of the measurement value, if it still appears, please consult with your doctor.


MESSAGE	WHAT IT MEANS	WHAT TO DO
	Connect damaged.	Please contact your local distributor for assistance.
	<ol style="list-style-type: none"> <li>1. Code card not inserted.</li> <li>2. Using the wrong test strips.</li> </ol>	<ol style="list-style-type: none"> <li>1. Please contact your local distributor for assistance.</li> <li>2. Please use the correct test strip.</li> </ol>
	<ol style="list-style-type: none"> <li>1. Using the wrong test strip.</li> <li>2. The batteries are out of battery.</li> </ol>	<ol style="list-style-type: none"> <li>1. Please use the correct test strip.</li> <li>2. Replace the batteries immediately.</li> </ol>
	<ol style="list-style-type: none"> <li>1. The test strip that has been used or damp test strip.</li> <li>2. The volume of blood is insufficient for the test.</li> </ol>	Repeat the test with a new test strip.

### 3. If the control solution testing result is out of range:

POSSIBLE CAUSE	WHAT TO DO
Error in performing the test	Read the instructions thoroughly and repeat the test again
Control solution vial was poorly shaken.	Shake the control solution vigorously and repeat the test again.
Expired or contaminated control solution	Check the expiry date of the control solution.
Control solution that is too warm or too cold	Control solution, meter, and test strips should be at room temperature 20°C ~ 25°C (68°F ~ 77°F) before testing.
Meter malfunction	Please contact your local distributor.
Defective test strip.	Repeat the test with a new test strip.
Improper working of meter and test strip.	Please contact your local distributor.

## SYMBOL DESCRIPTION

	Caution		Please read the user's manual carefully
	In vitro diagnostic		Manufacturer
	Temperature limitation		General symbol for recovery/recyclable
	Humidity limitation		No directly sun exposure
	Do not use if package is damaged		Batteries and electronic devices must be disposed of in accordance with the locally applicable regulations, not with domestic waste
	Authorized representative in the European Community		Serial number
	Keep dry		To show that the product meets the basic requirements of EU directives.

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Bade Dist., Taoyuan City 33463, Taiwan  
Tel: +886-3-3679555  
www.aeonbiotech.com  0123

**Authorized Representative:**  
**HL Pharmaceuticals Sdn Bhd**  
760 & 762, Jalan Sentul,  
51000 Kuala Lumpur, Malaysia  
Tel: +603 40419182

## SPECIFICATIONS

Model NO: GlucoPro Innova

Dimension & Weight: 103(L) x 50(W) x 20 (H)mm, 63.8g (w/o battery)

Power Source: 2 x 1.5V AAA battery

Principle: Bioelectrochemistry

Strip ejection: YES

Sample Size: 0.75  $\mu$ L

Reaction Time: 5 seconds

Daily Alarm: 4 daily alarms

Memory: 1000 measurement results with respective dates and times

Display: LCD

Communication: Bluetooth

Operating Condition: 10°C to 40°C (50°F to 104°F), below 85% R.H. (No condensing)

Storage/Transportation Condition: -20°C to 70°C (-4°F to 158°F), 85% R.H.

Measurement Unit: mmol/L

Measurement Range: 20 to 700 mg/dL (1.11 to 38.8 mmol/L)

The device has been tested to meet the electrical and safety requirements of :

IEC/EN 61010-1, IEC/EN 61010-2-101, IEC/EN 61326-1, IEC/EN 61326-2-6

# LOG BOOK

Date		M	T	W	T	F	S	S
Breakfast	Blood Glucose							
	Insulin/ Medication							
Lunch	Blood Glucose							
	Insulin/ Medication							
Dinner	Blood Glucose							
	Insulin/ Medication							
Bedtime	Blood Glucose							
	Insulin/ Medication							
Other	Blood Glucose							
	Insulin/ Medication							
Comments								



# WARRANTY CARD

Thank you for choosing the GlucoPro Innova Blood Glucose Monitoring System. When you unpack this meter, please be sure to fill the warranty card information and ask your retailer to seal inside the box below.

**Purchase Date:**

**Meter Serial Number:**

## Caution

1. AEON Diagnostic Tech. Co., guarantees that this device will be free of defects in materials and workmanship for a period of 5 years from the date of original purchase.
2. This warranty Does Not apply to the performance of a GlucoPro Innova Meter that been accidentally damaged, altered, misused, tampered with or abused in any way.
3. Please keep this warranty card for maintenance.

Seal of retailer