

**DiVi Lab Core 3 in 1 Multifunctional Monitoring System  
(Blood Glucose, Cholesterol, and Uric Acid)**

DV-I-002/25

Manual Book

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## SAFETY REMINDER



Warning: Indicates a potentially hazardous situation which, if not avoided, could result in serious injury.

### (General Security Warning)

- Before using the device, read these instructions carefully and consult a healthcare professional before making any important medical decisions.
- Do not modify this product without the manufacturer's approval.
- Do not use accessories not specified by the manufacturer.
- Do not use the device if it is not working properly. This device is not intended to treat any symptoms or diseases. The measured data are for reference only. Always consult your doctor for results.
- Before using this device to test blood glucose, cholesterol, or uric acid, read all instructions carefully and perform the test.
- Keep the device and testing equipment out of the reach of small children. Small objects such as test strips, lancets, battery caps, and bottle caps can be a choking hazard.
- Use the device in a dry environment, and do not use the device near strong electromagnetic radiation sources, as this may cause inaccurate measurement results.

## After Sales Service

To ensure the safe and efficient operation of the DiVi Lab Core 3 in 1 Multifunctional Monitoring System (Blood Glucose, Cholesterol, and Uric Acid), regular maintenance is required. If the device has a problem, do not try to repair it. Contact our service center:

PT VARIA INTERHEALTH INDONESIA, South Quarter, Tower A 21th Floor, Jl. R.A. Kartini No. Kav 8, Cilandak Barat, Kec. Cilandak, Kota Jakarta Selatan, DKI Jakarta 12430

## BEFORE USE

- Use fresh blood samples to test your blood glucose, total cholesterol, or uric acid levels. Using other substances may result in inaccurate results.
- If your blood glucose, total cholesterol, or uric acid results are lower or higher than usual and you have no symptoms, repeat the test first. If you experience symptoms or continue to receive results that are unusually high or low, please consult and follow the advice of your healthcare professional.
- If you experience symptoms that do not match your test results and have followed all instructions in this manual, contact your healthcare provider.
- The units used to identify glucose concentration in blood can be based on weight (mg/dL) or molarity (mmol/L). The conversion calculation from mg/dL to mmol/L and vice versa is as follows:

mg/dL	Divided by 18	mmol/L
mmol/L	multiplied by 18	mg/dL

Example:

- 100 mg/dL : 18 = 5.55 mmol/L
- 5 mmol/L x 18 = 80 mg/dL

- The units used to identify the concentration of cholesterol in blood can be based on weight mg/dL or molarity (mmol/L). The calculation for converting mg/dL to mmol/L and vice versa is as follows:

mg/dL	Divided by 38.665	mmol/L
mmol/L	multiplied by 38.665	mg/dL

Example:

- 100 mg/dL : 38.665 = 2,5 mmol/L
- 5 mmol/L x 38.665 = 193 mg/dL

- The units used to identify the concentration of uric acid in blood can be based on weight mg/dL or micromolarity (umol/L). The calculation for converting mg/dL to umol/L and vice versa is as follows:

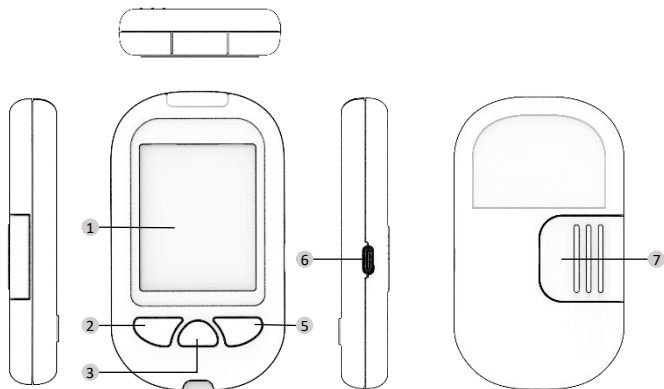
mg/dL	Multiplied by 59.48	umol/L
umol/L	Divided by 59.48	mg/dL

Example:

$$- 6 \text{ mg/dL} \times 59.48 = 356.8 \text{ umol/L}$$

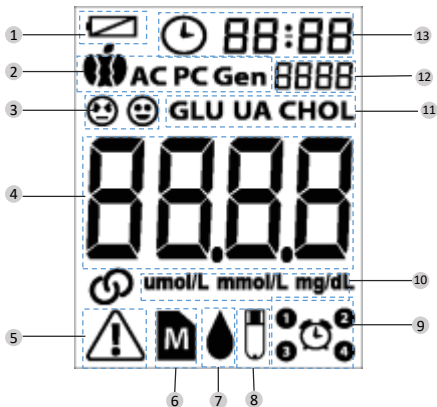
$$- 400 \text{ umol/L} : 59.48 = 6.7 \text{ mg/dL}$$

## PART NAME



1. Display screen
2. Setting button
3. START/STOP button
4. Test strip connector
5. Memory button
6. USB C port connector
7. Battery compartment

## SCREEN DISPLAY




1. Battery/Power Indicator
2. Gen: General measurement (anytime)  
AC: "Before meal" icon --> set by user  
PC: "After meal" icon --> set by user
3. Icon appears when user performs glucose measurement
4. Screen to display measurement result value
5. Warning sign, will appear if there is an error during measurement
6. Memory Icon
7. Blood drop icon
8. Strip icon, appears when strip is inserted into device
9. Screen for alarm setting. User can set 4 alarms as reminder when to perform measurement.
10. Measurement unit conversion:  
umol/L: micromoles per Liter  
mmol/L: millimoles per Liter  
mg/dL: milligrams per deciliter
11. GLU : Appears when Glucose strip is inserted  
UA : Appears when Uric Acid strip is inserted  
CHOL : Appears when Cholesterol strip is inserted
12. Segment for user notification
13. Hours & minutes display. Also for time setting




## DEVICE SETTINGS

Before using the measurement for the first time or if you replace the batteries in this device, you must check and update these settings.




Entering setup mode:

Start with the device turned off (no test strip inserted). Press the Setup button  and hold for 5 seconds.




### 1. Date Setting

Date setting starts from: YEAR → MONTH → DAY. While YEAR / MONTH / DAY flashes sequentially, press button  or  to adjust the correct time. Press  to confirm each selection.




### 2. Clock Setting

While HOUR / MINUTE display flashes sequentially, press  or  to adjust the time. Press  to confirm the selection.




### 3. Glucose measurement unit setting

While the measurement unit display flashes, press  or  for ±3 seconds to change the selection to mg/dL or mmol/L. Press  to confirm the selection.

### 4. Total cholesterol measurement unit setting




While the measurement unit display flashes, press  or  for ±3 seconds to change the selection to mg/dL or mmol/L. Press  to confirm the selection.




## 6. Uric acid measurement unit setting




While the measurement unit display is flashing, press  or  for  $\pm 3$  seconds to change the selection to mg/dL or  $\mu\text{mol/L}$ . Press  to confirm the selection.

## 7. On the unit, after setting the glucose target, there are Low and High Total Cholesterol and Uric Acid target settings.







To set the low and high warning value range.

**Glucose**, the setting sequence is: Low gen  $\rightarrow$  High gen  $\rightarrow$  Low AC  $\rightarrow$  High AC  $\rightarrow$  Low PC  $\rightarrow$  High PC. When the display shows the menu, press  or  to set the desired target value. Press  to confirm the selection.

**Cholesterol**, the setting sequence is: Low gen  $\rightarrow$  High. When the display shows the menu, press  or  to set the desired target value. Press  to confirm the selection.

**Uric acid**, the setting sequence is: Low gen  $\rightarrow$  High. When the display shows the menu, press  or  to set the desired target value. Press  to confirm the selection.

## 8. Alarm Reminder Setting

The device has 4 alarm reminder features. The device will display "On" or "OFF" and "-". If you do not want a reminder alarm. Press  to skip this menu. If you want a reminder alarm, press  until the "On" option appears. Then press . When HOUR:MINUTE appears on the display, press  or  to select the correct hour/minute. Press  and proceed to the next alarm.

## 9. Alarm "Beep" Sound Setting

To set the beep/alarm sound, press  or  to set "On" and "Off". Press  to confirm the selection.






**CAUTION:** When the alarm is on, press any button to turn off the alarm. If not turned off, the alarm will stay on for 30 seconds before turning off.

**NOTE:** The parameters can ONLY be changed in the setup mode. If the device is left idle for 1 minute in the setup mode, it will automatically turn off.





## TEST MODE SETTINGS

### Glucose Testing





The device will give you 3 measurement modes General (Gen), before meal (AC) and after meal (PC) and the mode can be selected in the following way:

Start with the Device turned off. Insert the Glucose strip. The display will display the symbol , "GLU" and also the symbol  and  flashing. Press the button  to select the test mode (General, AC and PC). When device already connect to the App,  symbol will stop flashing.

### Total Cholesterol Test

There is only 1 measurement mode for this measurement: General. Start with the device turned off. Insert the total cholesterol test strip. The display will show the symbol , "CHOL" and also the symbol  &  flashing. When device already connect to the App,  symbol will stop flashing.

### Uric Acid Test



There is only 1 measurement mode for this measurement: General. Start with the device turned off. Insert the uric acid test strip. The display will show the symbol , "UA" and also the symbol  &  flashing. When device already connect to the App,  symbol will stop flashing.

**NOTE:** Choose a different spot each time you test. Repeated pricking in the same spot can cause pain and calluses.


## TESTING

To perform a blood test, here are the steps:

### 1. Insert the test strip to turn on the device

Wait until the device displays , the "GLU" / "CHOL" / "UA" icon -> will appear according to the test strip you are using. Then the icon  will flash.

### 2. Gen / AC / PC measurement mode

is only valid for Glucose testing, select by pressing the button . For other tests is Gen mode.

### 3. Take a blood sample

Use the pre-set Pen Lancet to prick the desired area. The drop size should be at least as large as (actual size) which is 1 microliters (uL) volume for blood glucose tests; 1.2 microliters (uL) volume for total cholesterol and uric acid tests. Gently press the punctured area to get another drop of blood. Be careful, DO NOT smear the blood sample.

### 4. Apply the blood sample

Slowly drop the blood into the absorbent hole on the test strip at an oblique angle. The confirmation box on the test strip should be completely filled with the inserted blood sample. DO NOT remove your finger until you hear a beep.

#### NOTE:

- Do not press the puncture site onto the test strip or try to smear blood.
- If you do not apply a blood sample to the test strip within 2 minutes, the device will automatically turn off. You must remove and reinsert the test strip to start a new measurement.
- The confirmation box must be filled with blood before the device begins counting down. NEVER try to add more blood to the test strip after the drop of blood has disappeared. Discard the used test strip and retest with a new one.
- If you have difficulty filling the confirmation box, please contact your healthcare professional or local customer service for assistance.

**5. Reading Test Results**

Your test results will appear after the Device counts down to 0. The results will be stored in memory automatically.

**6. Remove the used test strip**

Remove the test strip from the Device. Use the special waste bin to dispose of the used test strip. The Device will automatically turn itself off.

Always follow the Lancet instructions for use to remove the lancet.

**WARNING:**

Used lancets and test strips may pose a biological threat. Please dispose of them carefully according to local environmental regulations.

## DEVICE MEMORY

The device stores the latest 1000 measurements with date and time information.


Glucose Data: 500 data





Cholesterol Data: 250 data

Uric Acid Data: 250 data





## Reviewing Test Results

1. Press and release the button  for 4 seconds

The symbol  will appear on the display and the first reading you see is the last test result along with the date or time and the measurement mode.

2. Press  or  to scroll through all test results stored in the Device. Press  to scroll down to view older test results and press  to scroll up to view new ones. Press the **Start/Stop** button and hold for **two seconds** to turn the device off.

## Erase the Memory

Press  &  together for 5 seconds. The Erase menu will appear on the display screen. To cancel the erase, just click start/stop once. For erase all the memory, Press button  &  again together for 5 seconds.

**NOTE:**

- Whenever you want to exit the memory, keep Start/Stop pressed for 3 seconds or leave it without any action for 2 minutes. The meter will automatically turn off.
- The results of the control solution tests are NOT included in the daily average.



## MAINTENANCE

### Battery

Your meter is supplied with one 3V CR2032 battery.

### Low Battery Signal

The meter will display one of the following messages to alert you when the power of the meter is getting low:

1. The "battery" symbol  appears and the instrument is functioning and the results remain accurate, but it is time to replace the batteries.
2. The "battery" symbol  appears with "E-b". There is not enough power to perform the test. Please replace the batteries immediately.

### Replacing Your Battery

**To replace the battery, make sure the device is turned off.**

1. Open the battery cover.
2. Remove the old battery and replace it with 1 CR2032 battery.
3. Close the battery cover. If the battery has been inserted correctly the device is ready to be turned on.

**NOTE:**

- Replacing the battery does not affect the test results stored in the memory.
- Batteries may leak chemicals if left unused for a long period of time. Remove the battery if you will not be using the Device for a long period of time (3 months or more).
- Dispose of the battery properly according to environmental regulations.

## Caring for Your Device

### Device Cleaning

To clean the exterior of the Device, wipe it with a cloth dampened with tap water or a mild cleaning agent, then dry the Device with a soft, dry cloth. Do not rinse with water.

DO NOT use organic solvents to clean your Device.

### Device Storage

- Storage conditions: -20°C to 60°C (-4°F to 140°F) between 10% and 93% relative humidity (non-condensing).
- Always store or transport the Device in its original storage container.
- Avoid dropping and subjecting the Device to heavy impact.
- Avoid direct sunlight and high humidity.

### Device Disposal

Used devices should be treated as contaminated devices that may carry a risk of infection during measurement. The batteries in these used devices should be removed and the devices should be disposed of according to local regulations.

## READING MEASUREMENT RESULTS

### For Blood Glucose Testing

APPEARANCE	DESCRIPTION		
	< 20mg/dL (1.12 mmol/L)		
	10 – 69 mg/dl (0.56 dan 3.8 mmol/L)		
	AC	PC	Gen
	70 - 100 mg/dL (mmol/L)	80-139 mg/dL (mmol/L)	70 – 139 mg/dL (mmol/L)
	AC	PC	Gen
	>100 mg/dL (mmol/L)	>140 mg/dL (mmol/L)	>140 mg/dL (mmol/L)
	≥ 300 mg/dL (16.6 mmol/L)		
	Ketone Alert: This is displayed when your blood glucose result is equal to or greater than 300mg/dL (16.6 mmol/L).		
	What to do: Check your blood ketones if checking ketones is part of your diabetes management program.		
	> 600 mg/dL (33.33 mmol/L)		

## For Total Cholesterol Testing

APPEARANCE	DESCRIPTION
Lo	< 100 mg/dL (2.5 mmol/L)
CHOL 150 mg/dL	100 – 400 mg/dL (2.5 – 10.3 mmol/L)
H <sub>i</sub>	> 400 mg/dL (10.3 mmol/L)

## For Uric Acid Testing

APPEARANCE	DESCRIPTION
Lo	< 3 mg/dL (0.17 $\mu$ mol/L)
UA 5.0 mg/dL	3 – 20 mg/dL (0.17 – 1189 $\mu$ mol/L)
H <sub>i</sub>	> 20 mg/dL (1189 $\mu$ mol/L)

## Reference Value

### Blood Glucose Test

A blood glucose reading provides plasma equivalent results and is displayed in milligrams of glucose per deciliter of blood (mg/dL) or in millimolar glucose per liter of blood (mmol/L).

Condition	Normal plasma glucose range for people without diabetes (mg/dL)
Fasting and before eating	< 100 mg/dL (5.6 mmol/L)
2 hours after eating	<140 mg/dL (7.8 mmol/L)

Reference: Diabetes Care 2021;44(Suppl. 1):S15–S33 | <https://doi.org/10.2337/dc21-S002>

### Total Cholesterol Test

Total cholesterol readings provide plasma equivalents and are expressed in milligrams of total cholesterol per deciliter of blood (mg/dL) or in millimolar total cholesterol per liter of blood (mmol/L).

Expected total cholesterol values for adults:

Total Cholesterol (mg/dL or mmol/L)	
Wanted	< 200 mg/dL (5.1 mmol/L)
High Limit Line	200 – 239 mg/dL (5.1 – 6.1 mmol/L)
High	≥ 240 mg/dL (6.2 mmol/L)

Your healthcare provider will discuss values that are specifically appropriate for each patient. At least two cholesterol measurements on separate occasions should be taken before a medical decision is made, because a single reading may not be representative of a patient's usual cholesterol concentration. High cholesterol is just one risk factor for heart disease. There are many others. The desired cholesterol level is less than 200 mg/dL.

Source: National Cholesterol Education Program. ATP III Guidelines At-A-Glance Quick Desk Reference. National Institutes of Health. National Heart, Lung, and Blood Institute. NIH Publication No. 01-3305, May 2001.

## Uric Acid Test

Uric acid readings provide results equivalent to blood plasma and are expressed in milligrams of uric acid per deciliter of blood (mg/dL) or micromoles of blood uric acid ( $\mu\text{mol/L}$ ).

Reference Values:

Man	3.5 to 7.2 mg/dL (208 to 428 $\mu\text{mol/L}$ )
Woman	2.6 to 6 mg/dL (155 to 357 $\mu\text{mol/L}$ )

Source : National Kidney Foundation (2014)

## TROUBLESHOOTING

Read this manual. If you have followed the recommended actions but the problem persists, contact after-sales service.

### Error Code


MESSAGE	UNDERSTANDING	WHAT TO DO
E-b	Appears when the battery or power is too low	Immediately replace the battery or power source from type-C.
E-U	-Appears when a used/wet test strip is inserted -Appears when using a damaged/unrecognized product strip	Repeat the measurement with a new test strip.
E-0	Appears when the strip is remove during the measurement process	Repeat the measurement or with a new test strip.
E-t	Appears when the ambient temperature is above or below the system operating range.	Repeat the test after the device and test strip are within the operating temperature range.

## TROUBLESHOOTING

1. If the device does not display a message after inserting the test strip:

POSSIBLE CAUSES	WHAT TO DO
Battery Out	Replace Battery
Test strip inserted upside down or incompletely	Insert the test strip with the contact rod end first and facing up.
Device or test strip is damaged	Please contact after sales service

2. If the device does not start measuring after applying the sample:

POSSIBLE CAUSES	WHAT TO DO
Insufficient blood sample	Repeat the test using a new test strip with sufficient blood sample volume.
Test strip is damaged	Repeat the test with a new test strip.
Sample applied after auto shutdown (2 minutes after last user action)	Repeat the test with a new strip Apply the sample only when “  ” appears on the display.

## SYMBOL INFORMATION

SYMBOL	REFERENCE
	Manufacturer
	Manual book
	Read the manual book
	Disposal of this equipment must be in accordance with local regulations
	General warning
	Temperature Limit
	Humidity Limit
	In Vitro diagnostic



## CONNECTIVITY GUIDE

1	Scan the barcode on the packaging, then select download DiVi Lab APP	
2	Download the app for Android or iOS	
3	Tap Install, and wait until the process is complete.	
4	Open the <b>DiVi Lab APP</b> on your smartphone.	
5	Register / <b>Sign Up</b> , then log in.	
6	Turn on the <b>DiVi Lab Core</b> device.	
7	Tap once on the product image, or go to <b>Settings</b> in the app. Ensure Bluetooth is turned <b>on</b> , then add the <b>DiVi Lab Core</b> device ( <b>Bluetooth name: DiVi Lab Core 3-in-1</b> ).	
8	Tap on the product image to start measuring. In the <b>Measurement</b> menu, make sure the <b>DiVi Lab Core</b> is connected (indicated by a connected symbol).	
9	Start the measurement by pressing the <b>START/STOP</b> button on the DiVi Lab Core.	
10	The result will be saved and automatically recorded in the Report menu.	
11	For a complete guide on how to use the app, please access the Help (?) menu.	

## PRODUCT SPECIFICATIONS

No	PARAMETER		SPECIFICATION
1	Product name		DiVi Lab Core 3 in 1 Multifunctional Monitoring System (Blood Glucose, Cholesterol, and Uric Acid)
2	Dimensions		95 mm x 55 mm x 17mm (P x L x T)
3	Screen Display		LCD 2.4 Inch
4	Power		<ul style="list-style-type: none"> <li>CR2032 3V Battery or</li> <li>5V DC Adapter (Type C Connector)</li> </ul>
5	Storage/Transportation Conditions		<ul style="list-style-type: none"> <li>Temperature: -20°C - 60°C;</li> <li>Humidity: 10-93%</li> </ul>
6	Operating Conditions		<ul style="list-style-type: none"> <li>Temperature: 4°C - 40°C;</li> <li>Humidity: 10-90%</li> </ul>
7	Operational Altitude		Up to 2000 meters, indoor use
8	Test Range	Glucose Test	20 – 600 mg/dL
		Cholesterol Test	100 – 400 mg/dL
		Uric Acid Test	3 – 20 mg/dL
9	Measurement Time		Glucose: 5 sec; Cholesterol: 25 sec; Uric Acid: 10 sec
10	Blood Sample Quantity		Glucose: 1µL; Cholesterol: 1.2µL; Uric Acid: 1.2µL
11	Unit Conversion		umol/L; mmol /L; mg/dL
12	Hematocrit Range		20-70 %
13	Test Sample		Fresh Whole Capillary Blood
14	Memory		GLU: 500 DATA; CHOL: 250 DATA; UA: 250 DATA (1000 Test Results)
15	Features		<ul style="list-style-type: none"> <li>Wireless connectivity</li> <li>Auto strip detection</li> <li>Auto Testing (Without strip code)</li> <li>Auto Off after 2 minutes without operation</li> </ul>
16	Regulation		<ul style="list-style-type: none"> <li>SNI IEC 61010-1:2016</li> <li>Certificate of SDPPI</li> </ul>



Produced By:

**PT ASTRA KOMPONEN INDONESIA**

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