USER MANUAL

V2400

FLUORESCENT IMMUNOASSAY SYSTEMS







VC7403EA

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Authorized Representative



EC REP MT Promedt Consulting GmbH

Altenhofstrasse 80 D-66386 St. Ingbert Germany Tel: +49-6894-581020 | Fax: +49-6894-581021

Manufactured by _



SD BIOSENSOR

C-4th&5th, 16, Deogyeong-daero 1556beon-gil, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16690, Republic of Korea

Manufacturing site

74, Osongsaengmyeong 4-ro, Osong-eup, Heungdeok-gu, Cheongju-si, Chungcheongbukdo, 28161, Republic of Korea Tel: +82-31-300-0400 | Fax: +82-31-300-0499

www.sdhiosensor.com

Distributed by _



22, Samsung 1-ro 4-qil, Hwaseong-si, Gyeonggi-do 18449, Republic of Korea Tel: +82-31-211-0516 | Fax: +82-31-8003-0618

www.bionote.co.kr



Thank you for your purchase of the BIONOTE V2400

This User manual contains all information about the Analyzer. Please read this User manual carefully and familiarize yourself with the required preparations and test procedure before performing a first test.

Please read the instructions carefully which are included in each test device package before using the Analyzer.

If you have any questions about the analyzer, please contact your local distributor. You can also visit www.bionote.co.kr for product demonstrations.

Again, thank you for purchasing the BIONOTE V2400.

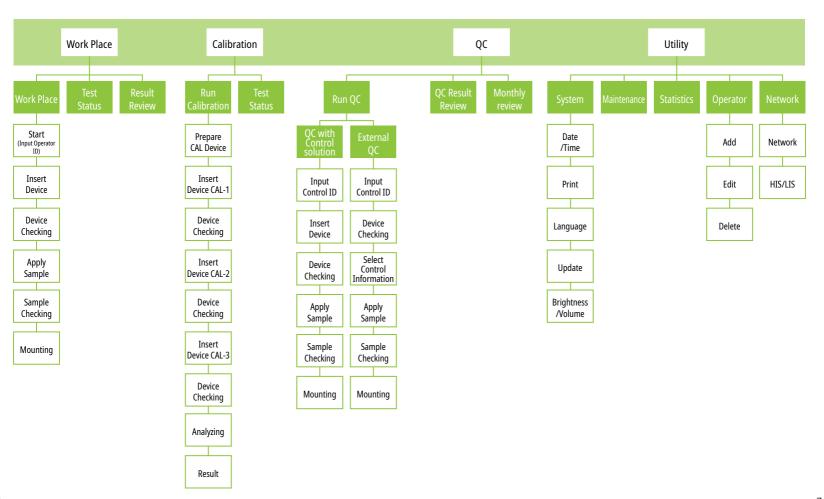


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Chapter 01. **General Information**



Main Menu Structure Symbols and Abbreviation

The symbols and abbreviation presented below are indicated on the User Manual, labels and external package.

Symbols

Symbols	Description
	Manufacturer
IVD	In Vitro diagnostic use
[]i	Consult instructions for use
REF	Reference Number
~~ <u> </u>	Date of Manufacture To indicate the date of manufacture
SN	Serial Number
	Note
Ţ	To indicates that the analyzer is fragile and you need to handle it with care
LOT	Batch code Indicate the lot number of the system
Z	Crossed out wheeled bin Discard it separately from other household waste
*	Indicate that you should keep the analyzer dry
À	Caution Indicate a situation, which if not avoided could result in damage to the device or incorrect results

Abbreviations

Abbreviation	Description
Comm	Communication
LIS	Laboratory Information System
HIS	Hospital Information System
GUI	Graphic User Interface
S/W	Software
F/W	Firmware

Precautions



To reduce the risk of damage to Analyzer

- · Use the Analyzer for in vitro diagnostics only.
- · Keep the Analyzer in a flat and dry place. Avoid direct sunlight.
- Do not expose the analyzer to strong light. Otherwise, serious interference to the test results may occur.
- · Do not move the Analyzer during the test.
- Do not drop the Analyzer. Otherwise, the Analyzer may be damaged.
- · Do not attempt to disassemble the Analyzer.
- · Do not immerse the Analyzer in water or cleaning solution.

To reduce the risk of inaccurate results

- · This Analyzer should be used only by trained operators.
- · If the error message occurs repeatedly, stop using the Analyzer.
- · For accurate results, refer to the manual that comes with each test device.
- · Do not use test devices which have expired.

To prevent electric shock

- Ensure the Analyzer is completely grounded. Do not connect the Analyzer to an ungrounded outlet.
- · When using a power board, use a grounded power board.
- Make sure that all cables are connected to the Analyzer correctly and completely.
- •There is a risk of electric shock if Analyzer is not grounded. Use the power cable provided by the Bionote. It is recommended to use a power cable of 250V ~, 10A, 0.75mm2 (18 AWG).
- Do not share power supply with other instruments and/or devices.



To reduce the risk of biological hazards

- Discard the used specimens in accordance with federal, state and local requirements.
- · Treat specimens as potentially biohazardous material.
- If you have no experience with collection and handling of specimens, appropriate education or guidance should be received.
- Nitrile or latex gloves are recommended when handling patient specimens.

Chapter 2. **Overview**

Intended Use

The BIONOTE V2400 Analyzer is effective for measuring quantitative or qualitative biomarkers of body fluids. The analyzer is indicated for monitoring and diagnosing from the body fluid parameter in clinical settings by healthcare professionals. In all cases, the Analyzer should be used with designated test devices produced by Bionote, Inc.

For details regarding to specific tests, refer to the user manual included with each test device package.

Product overview

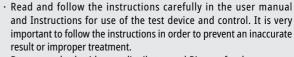
The BIONOTE V2400 Analyzer scans the 2D barcode of inserted test device. Based on the scanned result of the inserted test device, the analyzer determines the appropriate LED (UV, RGB) settings for the test device.

An antigen-antibody reaction takes a certain period of time after samples are dispensed.

Once a reaction is completed, fluorescence dye on the control line and test line will reflect the light from LED and this reflected value will be measured.

Then the measured value will be calculated based on the formula that is input to the 2D barcode.

Precautions before perform a test





- Be sure to check with your distributor and Bionote for the most upto-date software and to update before use.
- Fatal consequences, such as fire or serious system damage, may occur when the system is installed at an inappropriate location, since the Analyzer cannot be replaced or removed from power supply.
- The Analyzer must be installed in such a way that easy access to power supply and power switch is ensured.

Specimens

The BIONOTE V2400 Analyzer should be only used the specific test devices for the analyzer. Because specimens are quite different for each parameter, follow the instructions from the each test device instructions.

Safety Information

There is a potential risk of infection. Professional medical personnel should always wear gloves when handling patient samples with the BIONOTE V2400 Analyzer and test device. It is recommended that you follow all other locally applicable health and safety regulations.

Operating Conditions

To operate the BIONOTE V2400 Analyzer correctly, the following guidelines should be observed:

- The operating conditions of the Analyzer are: 0°C-50°C / 32°F-122°F, 10%-93% RH.
- The operating temperature suitable for analyses differs in each test. For each test, refer to the instruction manual of the test device that you will use for analyses.
- · To perform a test with the Analyzer, place the Analyzer on a flat surface.
- Do not use the Analyzer near strong electromagnetic radiation sources. Otherwise, strong electromagnetic fields may affect the function of the Analyzer adversely.
- · If the Analyzer malfunctions suddenly, unplug the power cable from the outlet.

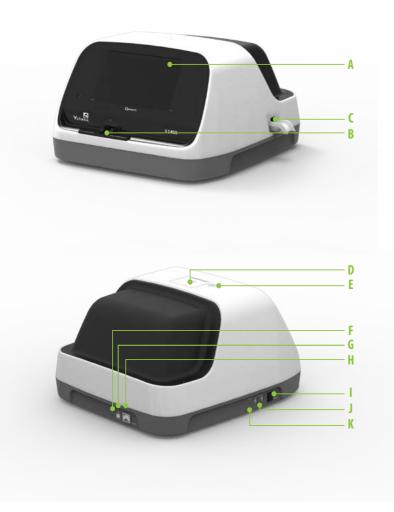


It shall be lifted and carried by holding the bottom of an instrument frame zones.

Specification

Input Voltage	AC 100~240V, 50/60Hz
Display	10.1" Color TFT LCD (1024 X 600)
Display Control	Graphic User Interface
Power Consumption	Up to 84W
Number of Memories	5,000 (Run Test)
Real Time Clock	Including RTC Backup Battery
LIS / HIS	HL7 PCD – 01 Profile Support
Dimension	510 X 566 X 297 mm
Inserts	User Manual
Bar Code Scanner (Option)	USB Barcode Scanner
Weight	20 kg
LAN transfer rate (bps)	100M
LAN cable	CAT 5

Appearance of BIONOTE V2400 Analyzer



A. Color TFT LCD

Used for test screen display and interaction with graphical user interface

- B. Inlet for insertion of test device
 Used for insertion of test device into the Analyzer
- C. Test device outlet
 Used for discharge of test device that has completed the test
- D. Printer cover
 Used to cover and protect printer paper
- E. Printer cover open button Used to open printer cover
- F. Mini USB
 Used to upgrade firmware by connecting with PC
- G. LAN
 Used for communication using LAN Cable
- H. AC power connection
 Used for AC power cable connection
- I. Power switch
 Used to turn the Analyzer on/off
- J. USB x 4

Used to connect the Analyzer to keyboard, barcode scanner and USB memory



USB should be formatted as FAT32, so that the USB can be recognized by BIONOTE V2400 Analyzer.

K. Additional device connection part
Only use for connecting specific device that is produced by Bionote, Inc

Included of the BIONOTE V2400 Analyzer



Chapter 3. Log On and Setting

Operation of Analyzer

Step 1. Connecting the power cable

- 1-1. Place the Analyzer in a proper environment where it can be plugged into outlet and barcode scanner (optional) can be positioned together.
- 1-2. Connect the power cable to the power connector on the back of the Analyzer and to the outlet.
- 1-3. Once the connection is complete, the analyzer is ready for use.

Step 2. Analyzer Log On

- 2-1. Press log on button.
- 2-2. The initial log on ID is admin and the password is 1111.

Step 3. Analyzer Setting

- 3-1. When the Analyzer is set up for the first time, user information must be registered.
- 3-2. For initial setup, select the Utility screen on the main screen. The details of the setting (Utility) menu are shown below.

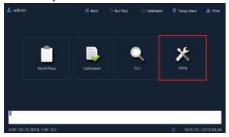
Step	Menu	Submenu
	System	Date/Time
		Print
1		Language
		Update
		Brightness/Volume
2	Operator	Add, Edit, Delete
3	Network	Network, HIS / LIS

Step 1: Log On Mode

1. Enter the Operator ID and password on the Log On screen and press the Log On button. Operator ID is "admin" and password is "1111".

Step 2: Setting Mode

1. Touch 'Utility' on the main menu screen to enter the setting mode.



 Utility menu consists of submenus: System, Maintenance, Statistics, Operator, and Network. System submenu can be used to set the Date/Time, Language, Print, Brightness/Volume and proceed with the update.



System Menu

- 1) Date/Time Setting
 - Press an Up() or Down() button to change the year, month, date, hour, and minute.
 - ② The display type of year, month and date and be changed. Change the date style setting.

Year-Month-Day + - Year-Month-Day
Month-Day-Year + - Month-Day-Year
Day-Month-Year + - Day-Month-Year

Day-Month-Year 4 - Day-Month-Year

3 Time unit is changeable between 12 hours (12h) and 24 hours (24h).

2) Print Setting

You can set the number of result sheet to 1 sheet or 2 sheets. Once press "Auto Print", the test result will be printed automatically after all.

3) Language Setting

Press a down arrow() to select the desired language from the drop-down list.

- 4) Update
 - ① S/W Update

Items needed for S/W update

- · BIONOTE V2400 Analyzer
- · Software update file
- · USB (Not provided)
- · Personal computer (Not provided)

How to update the software

- a. Prepare a USB memory containing the V2400's new software file.
 - ii. Format USB as FAT32 file system.
 - iii. Copy the software file to USB memory.
- b. Connect the USB(that V2400 Software is copied) to the USB port on the bottom left of the V2400 Analyzer.
- If the USB is connected normally, "USB connected successfully" will be displayed.



d. Press the S/W Update button. Then, "S/W Update?" will pop up. Press "OK " to start the S/W update.

e. If the S/W Update is completed, "S/W Update OK" will be displayed on the screen. Press "OK" to reboot the analyzer.



- f. Make sure that the latest S/W version is displayed in the lower left corner of the screen.
- ② F/W Update

Items needed for F/W update

- · BIONOTE V2400 Analyzer
- · Firmware update file
- · Mini-5pin USB cable
- · Personal computer (Not provided)

How to update the F/W

- a. Connect your PC and device with a Mini USB cable. If the driver is not recognized on PC, install the CP2101 driver.
- b. Press FW update (on the screen.



c. Press "OK".



- d. Run the PC program.
- e. When the wood firms button is enabled, click the button.



f. Click "Update Firmware" on the PC and then press "OK" on the Analyzer.



g. When the update is completed on the PC, press the "OK" button



h. Press "OK" on the screen to complete FW Update.



- 5) Brightness/Volume setting
 - ① Use —, \oplus buttons or the slider to adjust screen brightness.
 - ② Use —, + buttons or the slider to adjust the volume.

Maintenance Menu

1) On the Maintenance tab, you can check the maintenance status and log of each item.



- ① Maintenance Area: Tested items are displayed.
- ② Status Area: QC scheduled date for tested item is displayed. The QC period can be set from due date in Area ③ above.
- ③ Due Date Area: You can set the period of test items. Press button to select "No QC(Off)" or set the due date by 15, 30, 45, 60, 90, 180 or 300 days.
- (4) Event Log Date & Time Area: Date and time of event log are displayed.
- (§) Event Log Area: History of all items tested by V2400 Analyzer is displayed in chronological order.



Log Clear Button: Delete the selected event log.

Statistics Menu

 On the Statistics tab, you can check the number of tests, calibration, and QC tests for each item.



- ① The number of times that each test has been performed is displayed.
- ② The type and number of times of errors that occurred are displayed.
- ③ The number of times of calibrations and Q.C. for each test is displayed.
- 4 Period setting: Press button to set the period that you want to check.



- $\cdot \mathsf{Top}\ \mathsf{Clear} \mathsf{:}\ \mathsf{Delete}\ \mathsf{selecte}.$
- ·Bottom Clear: Delete selected Cal & QC Log.

Operator Menu

- 1) An Operator item can be registered, edited, and deleted.
 - · Password in Operator is the same as the password used for log-on.



To add an Operator ID, press "Add".



· To modify the Operator ID, select the ID, press "Edit", type ID you wish to modify, and then press "OK"



• To delete the Operator ID, select the ID, select the ID, press "Delete", then press "OK"



Network Menu

1) On the Network tab, you can set the HIS/LIS and Analyzer network. For the methods of setting, consult with your interface specialist.

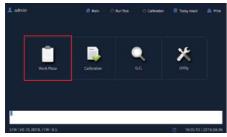


Chapter 4. Work Place

Performing a Test & Reviewing data

Before proceeding a test, check the following:

- · Is the power cable connected to the Analyzer?
- · Are the date and time settings of the Analyzer correct?
- · Are all other settings correct?
- 1. Select the "Work Place" from the Main Menu.



2. The "Work Place" consists of 3 items: "Run Test", "Test Status", and "Result Review".



- 1) Run test Menu
 - "Run test" is a mode for testing the samples from patients.
 - ① After entering patient information in "Patient ID", press once to move to the next step.
 - Patient ID can be entered by using the touch keyboard. You can also enter Patient ID by using a barcode scanner or by an external keyboard connected by USB.
 - ** You can also press button to proceed with the test without entering the Patient ID.



② Insert the test device in the "Insert Device" step and the Analyzer will move to the next step automatically.



③ Analyzer checks the conditions of the inserted test device. If the test device has already been used, E-1 error pops up.



④ After confirming that the test device can be used with BIONOTE V2400, the samples should be prepared according to the instruction for each test and applied to the sample well of the test device.



· Press the "Test Start" immediately after applying the sample to the test device.



⑤ Analyzer checks the applied sample's conditions and flow.



⑥ When the sample checking is completed, the test device is mounted inside the Analyzer.

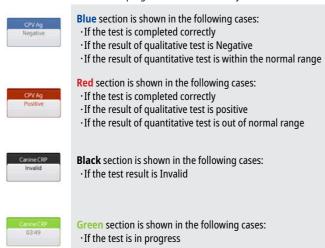


① When the mounting is completed, you can start a new test procedure.



2) Test Status Menu

"Test Status" menu shows the progress of test in the Analyzer.





① If you select a completed item, you can check details of the test(Test Result, Name Label, Procedural Control, Test Date and Time, Operator ID, Patient ID, Manufacturing Date of the test deivce, Software Version). In this window, you can print the test result by pressing on "Print". Press "OK" to close the window.



3) Result Review Menu

"Result Review" allows you to check the test results from "Run Test"





- ② If you select a test from the list in [Area B], you can see the test details.
 - · Test details window for quantitative test Example) Canine CRP



· Test details window for quantitative test – Example) Canine CRP



For quantitative test, you can change the measurement unit by pressing the item under "Units" in the list on the right side[Area B]. (Available only when there are 2 or more types of measurement units.)





Chapter 05. Calibration

Calibration Set Test

Calibration Set Test is an essential function that ensures optimal performance of the Analyzer by checking the methods specified in the Manual.

Time for use of Calibration Set

- · Whenever the Analyzer is turned on
- · When Analyzer is dropped
- · When the result does not match the desired result
- · When you want to check the performance of the Analyzer and test device



 Calibration Set test is independent from QC test and cannot replace QC test.

Calibration mode consists of "Run Calibration" and "Calibration Review".



① Insert the Cal-1 Device into the test slot of the Analyzer.



② After checking the Cal-1 Device, insert the Cal-2 Device into the test slot of the Analyzer.



③ After checking the Cal-2 Device, insert the Cal-3 Device into the test slot of the Analyzer.



④ After inserting all the calibration devices, the analyzers performs the calibration analysis.



- ⑤ When the analysis is completed, you can check the result screen.
- · Calibration check- OK screen

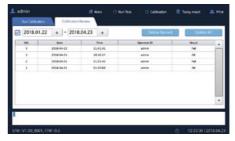


· Calibration check- FAIL screen



2. Calibration Review Menu

The result of calibration can be checked in "Calibration Review".



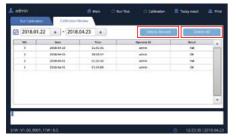
- ① You can check the details by selecting the Result from the list.
- · Calibration Review OK screen



· Calibration Review - FAIL Screen



② Select a list and press "Delete Record" () to clear the selected items. Press the "Delete All" () to clear all results.



Chapter 6. Quality Control

Quality Control Test

To verify whether the Analyzer's system is functioning properly and whether the test procedure is correct, perform QC with one or more levels of quality control materials.

Time for use of Calibration Set

- ·When Analyzer is used for the first time
- ·When usinga tes device of newly opened package.
- ·When Analyzer is dropped
- ·When the result does not match the expected result
- ·When the result is lower or higher than expected even after repeated tests.
- ·When you want to check the performance of the Analyzer and test device

Before using the Control

• Check the expiration date of quality control material. Do not use after expiration or disposal date (3 months after the package of quality control material is opened), Consider the earlier date between those two.

QC Mode consists of "Run QC", "QC Result Review" and "Monthly Review".

1. Run QC Menu

Run QC consists of "QC with Control Solution" and "External QC".



- 1) QC with Control solution
 - ① Select "QC with Control solution" and the next screen will be shown.
 - ② Enter the information of quality control material (barcode number) and press OK to proceed to the next step.



③ Insert a test device that matches the quality control material information entered on the Insert Device screen.



The Analyzer checks the conditions of inserted test device. If the test device has already been used, an E-1 error pops up.



(§) When the verification of the test device is completed, apply the control to the sample well of the test device and immediately press "QC Start".



(6) The V2400 Analyzer will check the conditions and flow of applied sample.



⑦ After the check is completed, the test device is mounted inside the Analyzer.



® Once the mounting is complete, you can start a test procedure.



2) External QC

- ① Press "External QC" to move to the next screen.
- ② Insert the test device to test on the Insert Device screen.



③ Analyzer checks the conditions of inserted test device. If the test device has already been used, an E-1 error pops up.



When the verification is completed, a screen for setting the range of quality control material appears.



- ⑤ Set the information of the quality control material to be used and press "OK" to save the information.
 - · Example of Qualitative test



· Example of Quantitative test



⑥ After applying the prepared quality control material, press "QC Start" immediately.



7 The V2400 Analyzer checks the conditions and flow of applied sample.



(3) Once the verification is completed, the test device is mounted inside the Analyzer.



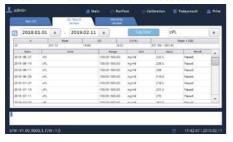
3) QC Result review Menu

① You can check the result of QC in "QC Result review".



- a. The number of times that QC was performed, average, standard deviation, coefficient of variation, and the result of \pm 2SD are shown. For qualitative items, only the number of times is displayed. For the quantitative items, all values are displayed.
- b. The QC history of selected test is displayed in the No. 4 drop-down list (d).
- c. You can set the date for desired period.
- d. If you select the test you want to view from the drop-down list, you can check the QC result of selected test.

Example) The results obtained when result retrieval period is set to 2018.01.01-2019.02.11 and then cPL is selected from the drop-down list



Example) The results obtained when result retrieval period is set to 2018.01.01-2019.02.11 and then CPV Ag is selected from the drop-down list



- e. Deletes the entire QC result.
- ② If you select from the list, you can check the test details.



4) Monthly Review Menu

In "Monthly Review", you can check the monthly value of quantitative test. If you select the period and press "Table", the QC results for that period are provided in the form of a list.

Here, you can check only the result of selected test by pressing "Select item" and selecting the desired item.

When a graph is selected, the Levey-Jennings control chart is provided.



Chapter 07. Cleaning & Maintenance

Cleaning of Analyzer

To prevent any malfunctioning of Analyzer, keep the test slot free from specimen moisture or dust. Clean the Analyzer with a lint-free cloth and suitable cleaning solution (example: mild soap, 70% ethanol or isopropyl alcohl).

If the Analyzer is in a special environment (example: operating room), it is recommended to clean it with a mixture of 1-propanol, 2-propanol and glutaraldehyde (trade name: Bacillol plus).



• Do not use abrasive cleaners or liquid preservatives. Otherwise, the display screen may be damaged. Before cleaning, always turn off the Analyzer and disconnect the power cables.

Maintenance and Transportation

Each time you turn on the Analyzer, the system in the Analyzer starts self verification to find any possible problem.

- \cdot Be careful not to contaminate the test device slot and internal parts of the Analyzer.
- The carrying case is designed to store the supplied components and to protect the Analyzer.
- The Analyzer must be stored and transported at -20 $^{\circ}$ C ~ 50 $^{\circ}$ C / -4 $^{\circ}$ F ~ 122 $^{\circ}$ F and 10%-93% RH.
- \cdot The V2400 Analyzer was designed to meet safety standards.
- · Do not modify or repair the Analyzer.
- Do not repair the Analyzer yourself without the help of the supplier.

Chapter 08. Message & Troubleshooting

Warning Messages

Display	Description of Warning
Warning ox Enter Operator ID.	Warning: No user information entered "OK" is pressed while no user information has been entered.
	Solution First, enter the user information and then press 'OK'.
Warning	Warning: USB not connected USB is not connected to the Analyzer.
Not connected USB.	Solution Make sure that USB is properly inserted into the Analyzer.
Warning ox	Warning: Password error Incorrect administrator password entered.
Password Incorrect	Solution Enter the correct password.
Warning ox	Warning: No Update File Update file is not found in USB.
There isn't the UpdateFile.	Solution Check USB for update file. If you have confirmed that updated file is stored on the USB, Insert the USB and press 'OK'.
Warning	Warning: Unregistered user information
This is not a registrated Operator ID.	The entered user information is not registered in the Analyzer.
	Solution Add user information in setup mode.





Warning: Incorrect IP address

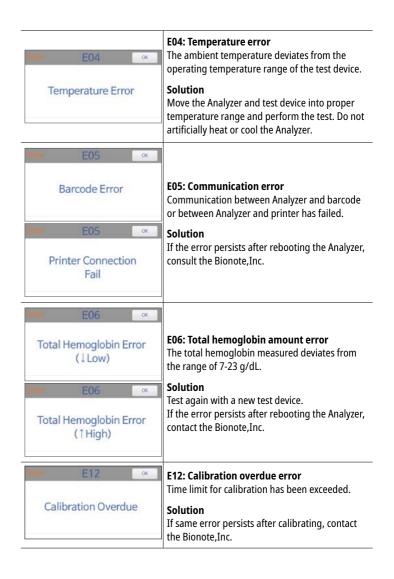
Incorrect IP address entered.

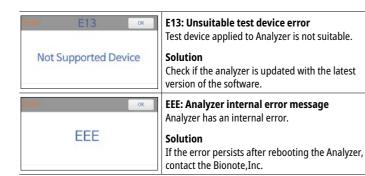
Solution

Confirm the entered IP address, and enter the correct IP address.

Error Messages

Display	Description of Warning	
ЕО1 ОК	E01: Test device error Inserted test device is contaminated or already used.	
Contaminated Device	Solution Discard the failed test device and retest with a new test device.	
E02 ок	E02: Insufficient sample volume Insufficient sample is applied.	
Insufficient Sample	Solution Discard the failed test device, and test again by dropping sufficient volume of sample on new test device.	
ЕОЗ ОК	E03: Expired test error A test device was used after expiration date.	
Expired Device	Solution Perform the test again with new test device that has not exceeded the expiry date.	





ANNEX 01.

Information for Professional Medical Personnel

Protection from Infection

Professional medical personnel must be careful to avoid infection caused by sample, etc. while performing diagnostic test with the BIONOTE V2400 Analyzer.

- · Wear medical gloves.
- · When applying sample into the sample well of test device, be careful that the sample does not contaminate any part of analyzer.
- · Observe the relevant guidelines and regulations of healthcare, sanity and safety.

Electromagnetic compatibility

The electrostatic discharge immunity test shall comply with the international standard IEC 61000-4-2. In addition, this Analyzer meets electromagnetic compatibility requirements in accordance with EN 61326 and there is no interference with other electronic equipment.

Disposal

Dispose of the BIONOTE V2400 Analyzer in accordance with local regulations for disposal of electrical and electronic equipment. Waste Electrical Electronic Equipment (WEEE) regulation corresponds to the European Directive 2002/96/EC for reduction of wastes from the Analyzer. Before any disposal of BIONOTE V2400 Analyzer, please contact the concerned authorities or staff.

Warranty

You are a valued customer of BioNote, Inc. It is important to us that you are completely satisfied with the BIONOTE V2400 analyzer. BioNote, Inc. guarantees the analyzer will be free from defects in materials and workmanship for a period of two years from the date of original purchase. If the analyzer does not work properly during this period because of a defect in materials or workmanship, BioNote, Inc. agrees to replace or repair, free of charge, any and all parts proven to be defective and subject to warranty. This warranty is in lieu of all other warranties, expressed or implied, including any implied warranty of merchantability of fitness for any purpose, other than stated herein. This warranty does not apply to the performance of an analyzer that has been damaged by accident or has been altered, misused, tampered with, or abused in any way. This warranty only applies to the original purchaser of the analyzer and/or its agents.

MEMO	MEMO

