

# **BIOEASY™**

## **Immunofluorescence Analyzer**

### **Operation Manual**




**Model No.: EASY-11**

## **CONTENTS**

<b>Section</b>	<b>Content</b>	<b>Page</b>
<b>I</b>	<b>Intended Use and Principle</b>	<b>4</b>
<b>II</b>	<b>Composition of System</b>	<b>6</b>
<b>III</b>	<b>Specifications and Operation Conditions</b>	<b>9</b>
<b>IV</b>	<b>Initial Installation Procedure</b>	<b>11</b>
<b>V</b>	<b>Operation Instruction</b>	<b>13</b>
<b>VI</b>	<b>Instruction for connection</b>	<b>25</b>
<b>VII</b>	<b>Warning, Precautions and Limitations</b>	<b>28</b>
<b>VIII</b>	<b>Service, Maintenance and Disposal</b>	<b>30</b>
<b>IX</b>	<b>Troubleshooting</b>	<b>33</b>
<b>X</b>	<b>Contact Information</b>	<b>34</b>

## Index of Symbols

### Read all contents of this Manual carefully prior to use.

 If the analyzer is used in a manner not specified by the manufacturer, the protection provided by the analyzer may be impaired.

The following symbols are used on the Immunofluorescence Analyzer, related components and accessories, labels or in the text of this user manual:



**Caution**

---



**Consult Operator's Manual**

---



**WEEE (Waste Electrical and Electronic Equipment)**

---



**Keep Dry**

---



**Operation Temperature Limitation**

---



**Storage and Transportation Temperature Limitation**

---



**Keep Away from Sunlight**

---



**Manufacturing Date**

---



**Serial Number**

---

**Manufacturer**

---

**Direct Current**

---

**The Immunofluorescence Analyzer Model**

---

**Not to Be Tipped**

---

**Stacking Layers Limitation**

---

**This Way Up**

---

**Fragile**

---

## Section I Intended Use and Principle

### Intended Use

The Immunofluorescence Analyzer and test cassette are both for food safety detection and animal disease diagnosis.

Immunofluorescence Analyzer is equipped with a built-in Test Cassette Holder. The Test Cassette Holder will appear through the opening on the front surface of the analyzer.

The Power ON/OFF Switch, located on the right rear of the analyzer, which powers the Immunofluorescence Analyzer. The analyzer has a built-in printer.

This analyzer is developed, designed, manufactured and sold by Shenzhen Bioeasy Biotechnology Co., Ltd., the analyzer is compact, portable, and easy to operate for fluorescence detection to qualitative/quantitative of various kind of analytes in Raw milk, Cereals/Feed, Tissue, Serum/Plasma, etc. The test cassettes are disposable, so there is no need to worry about the cross infection.

This instruction introduces the performance and related information of the product, and contains graphical procedures for your convenience. Please refer to the instructions before testing.

### Principle

Immunofluorescence Analyzer uses an LED as the Excitation Light Source. The emitted light from the fluorescence microspheres is collected and converted into an electrical signal using a photosensitive receiving tube. The signals are closely related to the amount of fluorescence dye molecules present on the spot under examination.

After a sample is applied to the test cassette, the test cassette is inserted into Immunofluorescence Analyzer and the concentration of the analyte is calculated by a pre-programmed calibration process. Immunofluorescence Analyzer can only accept test cassettes that are designed specifically for this analyzer.

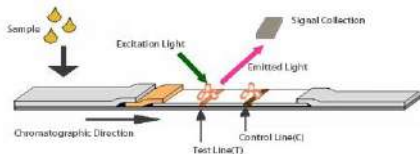


Fig 1.1 Working Principle

High resolution, narrow band SMD LED was used as light source in the Immunofluorescence Analyzer. The central wavelength  $\lambda_0$  of the excitation spectrum is 365nm. The response band of photosensitive receiver is 320~1000nm, central response wavelength is 610nm, sensitivity is 0.4, the Photometric linearity and accuracy were shown as below:

### Spectral response

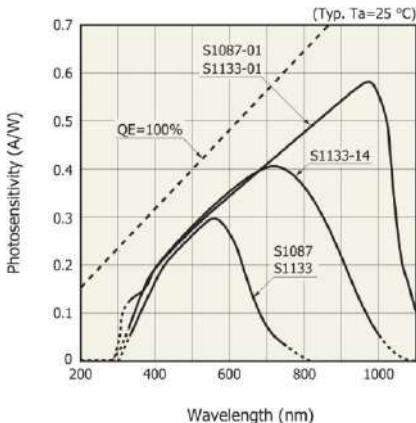


Fig 1.2

## Section II Composition of System

### Unpacking

After opening the box, please check to ensure that the content listed below are included. If any item is missing, please contact your sales distributor or Shenzhen Bioeasy Biotechnology Co., Ltd.

Detailed contact information is mentioned in Section X.

### Contents

#### 1. Standard contents

No.	Item	Quantity
1	Bioeasy™ Immunofluorescence Analyzer	1
2	Power Adapter	1
3	AC Power Cord	1
4	Printer Paper (Installed)	1
5	QC Card	1
6	Operation Manual	1
7	Warranty Card	1
8	Certificate Of Conformity	1
9	Packing List	1

#### 2. Materials Required but not provided

Detection kit.

## Front Structure Diagram



Fig. 2.1 Structure Chart of Immunofluorescence Analyzer- Front View

## Back Structure Diagram

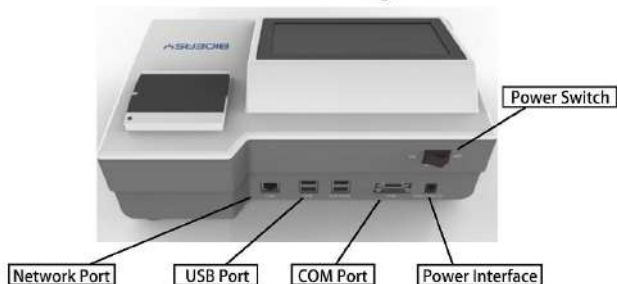


Fig. 2.2 Immunofluorescence Analyzer Features- Back View

Power switch, Ethernet Port, USB Interface, Serial Interface, Power interface, Selector switch for operating mode, which are used in Immunofluorescence Analyzer's startup, shutdown, select the operating mode and connection with PC and Ethernet.



Fig. 2.3 Power Adapter

## Section III Specifications and Operation Conditions

### Basic Specification

Specification	Parameter
Detection	Wavelength 365/610nm
Light Source	High-intensity monochromatic LED
Wavelength Accuracy	±2 nm
Maximum Test Lines	Supports up to 4 lines
Optical System	Photodiode (PD) detector
Motion Drive	Micro stepper motor
Position Detection	Travel limit switch
Repeatability	Coefficient of Variation (CV) ≤ 10%
Stability	Relative drift ≤ 10% within 2 hours
Calculation	Peak height and peak area analysis; T/C ratio computation
Display Screen	5-inch capacitive touchscreen, 480×800 resolution
Operating System	Embedded Linux OS
Wireless Communication	WiFi, Bluetooth
Device Interfaces	RS232 port, 2×USB ports, ID card slot
Printing Method	Built-in thermal printer
Data Storage Capacity	≥10,000 test records
Dimensions	280 × 240 × 130 mm
Weight	≤2.0 kg

### Operating Environment

Temperature	5°C~40°C (41°F~104°F)
Humidity	10%~80% (No condensation)
Atmospheric pressure	860hPa~1060hPa
Power supply voltage	AC100-240V
Power supply frequency	50/60Hz

Power Input	48W
Location	Dry, clean, flat, horizontal surface, with the front surface at least 10cm inside of the table edge, away from direct sunlight, mechanical vibration, and strong electromagnetic interferences.

### Storage and Transportation Environment

Temperature	-10°C~+50°C
Humidity	≤85%

## Section IV Initial Installation Procedure

### Power Requirements

Immunofluorescence Analyzer will work on household power line. If you are uncertain of your power line, consult with your utility manager. The Immunofluorescence Analyzer can only be used with the power adapter (including the power cord) provided. If the replacement for Power Adaptor is required, please consult with your sales distributor or Shenzhen Bioeasy Biotechnology Co., Ltd.

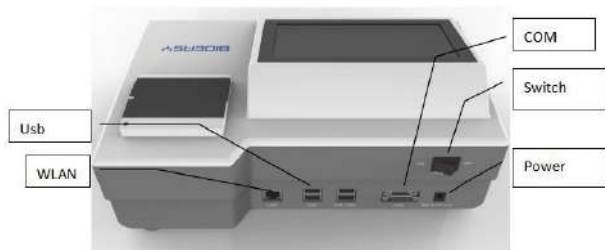
### Installation

Please be caution that Immunofluorescence Analyzer should only be used at 5°C~40°C (The recommended operational temperature of test cassettes is 25°C) and Relative Humidity of 10%~80% conditions (Detailed information is mentioned in Section III).

①. Connect the Power Cord with Immunofluorescence Analyzer to the wall power outlet.

**Note:** The meter shall be connected to a mains socket outlet with a protective earthing connection. The mains outlet shall be located in a user accessible position for easy unplugging in emergency. The mains plug of the power cord set is a disconnect device of the analyzer. In order to completely disconnect the analyzer from the supply mains, the mains plug of the power cord set should be unplugged from the mains outlet.

②. Turn on the Power Switch on the right and backward of Immunofluorescence Analyzer to carry out power startup and shutdown. (See Fig. 4.1)

**Fig. 4.1****\*Caution:**

*Keep the power cord for the Power Adapter in suitable place. Power cord without good maintenance could render hazardous to connect/disconnect the Power Adapter.*

## Section V Operation Instruction

The Immunofluorescence Analyzer adopts a single test mode: users are required to complete the incubation process externally before inserting the test cassette into the analyzer. Once the cassette is inserted, the device automatically initiates the detection and displays the result.

Immunofluorescence Analyzer can be operated through LCD screen with finger touch or touch pen, and it also can be operated through with a mouse and keyboard.

### Start

1. Connect the power cable to the power interface on the back of the instrument, and then press the Power ON/OFF button to turn on the device. (See Fig. 5.1)



Fig 5.1

2. After powering on the instrument, the device will automatically perform a startup self-test. Once the self-test is completed, it will proceed to the main detection interface. (See Fig. 5.2)

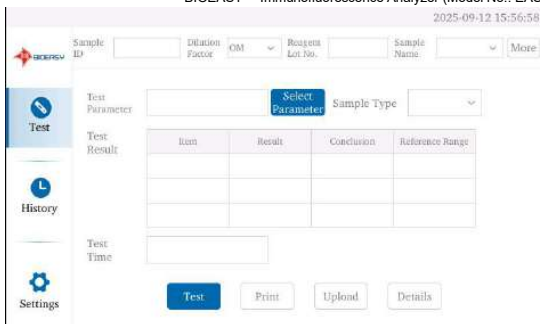


Fig 5.2 Test interface

**\*Caution:**

If the initial interface doesn't show after more than 3 minutes please turn off the Power ON/OFF Switch and restart the analyzer. If failure continues, please contact your sales distributor or Shenzhen Bioeasy Biotechnology Co., Ltd.

**Software version**

Click "System" to show the current software version and other system information (See Fig. 5.3)

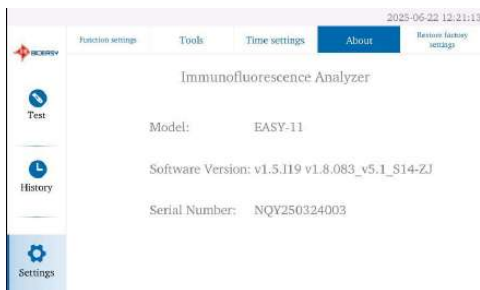


Fig. 5.3

## Test Operation

Click “Test” on the left navigation bar to enter the interface:

1. If using the test kit of this batch for the first time, take out the “ID” card from the test kit and insert it into the “ID” slot located at the front of the instrument screen. The instrument will automatically import the project associated with the “ID” card and display a pop-up window showing the imported project and batch information.(See Fig. 5.4)



Fig. 5.4

2. Enter the sample testing information. By clicking the “More” button, you can enter more detailed information.(See Fig. 5.5)

The screenshot displays a configuration screen with four input sections arranged in a 2x2 grid. Each section contains a dropdown menu and two buttons labeled 'Save' and 'Delete'. The sections are: 'Submitting Institution', 'Reagent Manufacturer', 'Testing Laboratory', and 'Technician'. At the bottom right of the screen are two buttons labeled 'Cancel' and 'Done'.

Fig. 5.5

3. Fully insert the test cassette, which has completed the incubation, into the test slot. If multiple sample types are included in the batch, the instrument will prompt for manual selection of the sample type before automatically initiating the test. If only one sample type is included, the instrument will automatically initiate the test without requiring selection. Upon completion, the test results will be displayed on the screen.
4. To view details, click “Details” to access the history page. Click “Graph” to view detailed data.

**\*Caution:**

*It is recommended to insert ID chip after successful boot!*

## Operating steps

1. Input basic sample information, including serial number, sample number and sample type. (Serial number will be automatically generated by system. The sample number will be automatically generated by system if you don't input it). Click “Detailed information” to input more detailed information.

Sample ID  Dilution Factor OM  Reagent Lot No.  Sample Name  More

Test Parameter   Sample Type

Item	Result	Conclusion	Reference Range

Test Time

Fig 5.6

**\*Caution:**

Please carefully read relevant Instruction for Use of specific test cassette before adding sample to test, and operate the test according to requirements.

2. Insert the test cassette, which has completed the incubation externally, fully into the slot. The analyzer will automatically start the detection process and display the result at the bottom of the screen upon completion.
3. BIOEASY™ Immunofluorescence Analyzer will read the ID chip information, scan and analyze the test cassette automatically, and then collect data and analyze the test results.

**\*Caution:** If the lot number of the ID Chip does not match with the lot number of the test cassette when first time using the specific cassette, the analyzer will show "Check the ID chip and reagent". Please check the lot number of ID Chip and test cassette if they are mismatched, please click "Cancel". BIOEASY™ Immunofluorescence Analyzer will pop-up test cassette holder and show "Cancel test" on the screen. If the lot number of ID Chip and test cassette are correctly matched, please click "OK", BIOEASY™ Immunofluorescence Analyzer will automatically recheck ID chip and test cassette.

4. The test result will be shown under the "Result" of the screen. (See Fig. 5.7)

2025-09-12 15:56:58

Sample ID:  Dilution Factor: OM  Reagent Lot No.:  Sample Name:

Test Parameter:   Sample Type:

Test Result

Item	Result	Conclusion	Reference Range

Test Time:

Fig. 5.7

- Click "Print" to print the test result.

**\*Caution:**

*The test result will be printed automatically after choosing the "Print automatically".*

- Take out the test cassette. Insert the next test cassette that is completely reacted for the next testing.

**\*Caution:**

*If the reagent of this batch is tested for the first time, the ID chip needs to be inserted, otherwise, the device will save the ID chip information to the local database. after this, you don't need to read the ID chip when you test the test cassette of the same Lot No.*

## History Record

The query function provides users with the functions of viewing historical test records and filtering by conditions. In the history interface, there are "search", "delete" and "print" buttons to query, delete and print the test results.

- Click "History" on the left of the analyzer to enter the query interface, the test results of intraday will be listed. (See Fig. 5.8)

The screenshot displays the main interface of the BIOEASY software. On the left is a sidebar with three main sections: 'Test' (with a pencil icon), 'History' (with a clock icon), and 'Settings' (with a gear icon). The central area features a table of test results with columns for Sample No., Test Parameter, and Test Time. Below the table are buttons for 'Sample Info', 'Details', 'Export', 'Delete', 'Clear', 'Find', 'Upload', 'Print', and navigation arrows. On the right, there is a form for entering test details, including fields for Parameter, Result, Range, Test Result, Reagent Lot, Dilution factor, Sample Type, Sample Name, Reagent Manufacturer, Submitting Institution, Testing Org, and Technician.

Sample No.	Test Parameter	Test Time
250912000002	QC	2025-09-12 15:59:29
250912000012	QC	2025-09-12 15:18:36
250912000011	QC	2025-09-12 15:18:26
250912000010	QC	2025-09-12 15:18:12
250912000009	QC	2025-09-12 15:17:55
250912000008	QC	2025-09-12 15:17:33
250912000007	QC	2025-09-12 15:17:19
250912000006	QC	2025-09-12 15:17:02

Parameter	Result	Range
QC	1.00	0.9-1.1

Test Result: Pass  
 Reagent Lot: 25090301  
 Dilution factor: OM  
 Sample Type: QC  
 Sample Name:   
 Reagent Manufacturer:   
 Submitting Institution:   
 Testing Org:   
 Technician:

Fig. 5.8

- Click "Search" under the "History" interface, then input the query conditions, Immunofluorescence Analyzer will filter out the test results that match the query conditions to conduct fuzzy query. (See Fig. 5.9)

The screenshot shows the search interface. It has two sections: 'Time' and 'Sample Number'. The 'Time' section has two rows of date pickers. The first row shows 2025-05-09 00:00 and the second row shows 2025-05-10 00:00. The 'Sample Number' section has a text input field. The 'Parameter Name' section has a dropdown menu with 'AFB1' selected. At the bottom right are 'Search' and 'Cancel' buttons.

Fig. 5.9

- Mark all or specific data record, click "Delete" under the "History" interface, the selected records can be deleted.

- Mark all or specific data record, click "Print" under the "History" interface to print selected record.
- In the case of the LIS system was connected, select all or specific data record, click "LIS" under the "History" interface to send corresponding test result to LIS system.
- Mark specific data record, click "Detailed information" under the "History" interface, Detailed information for the selected data will show. (See Fig. 5.10)

2025-09-12 15:59:54

The screenshot displays the 'History' interface of the BIOEASY software. On the left, there are navigation icons for 'Test' and 'History' (selected), and a 'Settings' icon at the bottom. The main area shows a table of test records with columns for Sample No., Test Parameter, and Test Time. Below the table are buttons for 'Sample Info', 'Details', 'Export', 'Delete', 'Clear', 'Find', 'Upload', 'Print', and a page indicator '1/2'. To the right, a 'Parameter' table shows 'QC' with a 'Result' of '1.00' and a 'Range' of '0.9-1.1'. Below this, a 'Test Result' section shows 'Pass' and a 'Reagent Lot' of '25090301'. Other fields like 'Dilution factor', 'Sample Type', 'Sample Name', 'Reagent Manufacturer', 'Submitting Institution', 'Testing Org.', and 'Technician' are present but empty.

Sample No.	Test Parameter	Test Time
250912000002	QC	2025-09-12 15:59:29
250912000012	QC	2025-09-12 15:18:36
250912000011	QC	2025-09-12 15:18:26
250912000010	QC	2025-09-12 15:18:12
250912000009	QC	2025-09-12 15:17:55
250912000008	QC	2025-09-12 15:17:32
250912000007	QC	2025-09-12 15:17:19
250912000006	QC	2025-09-12 15:17:02

Parameter	Result	Range
QC	1.00	0.9-1.1

Test Result: Pass

Reagent Lot: 25090301

Dilution factor: OM

Sample Type: QC

Sample Name: \_\_\_\_\_

Reagent Manufacturer: \_\_\_\_\_

Submitting Institution: \_\_\_\_\_

Testing Org.: \_\_\_\_\_

Technician: \_\_\_\_\_

Fig. 5.10

- Insert the USB flash drive into the analyzer, select all or specific data records, and click "Export" under the "history" interface to export the corresponding data to the USB flash drive.

## Setup Operation

"Setting" function provides users with the function of setting instrument parameters, including time setting, LIS setting, temperature control setting, project setting and Wi-Fi setting.

- QC: The QC interface allows quality control using the QC card configured with the instrument. After the QC process is completed, the QC results and conclusions will be displayed. By clicking "Details," you can view the curve information, and the QC records can be exported to a USB drive.2. (See Fig. 5.11)

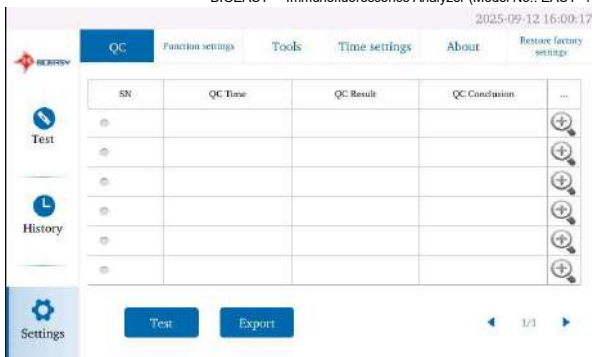


Fig. 5.11

2. Timing setting: User can set the system time of the analyzer here. (See Fig. 5.12)

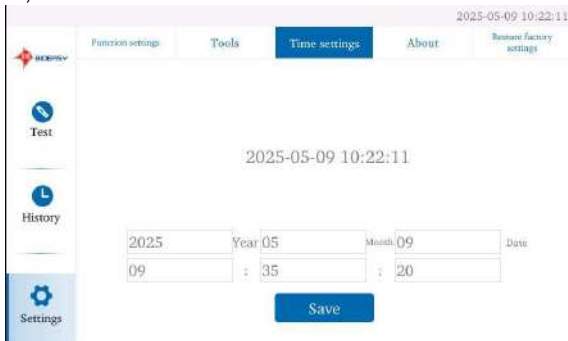


Fig. 5.12

3. LIS setting: The analyzer can be connected to LIS server through network cable. After setting up the server and the local IP address and port, the data can be transferred to the server. See section X for details.  
The analyzer will retain the setting information, and there is no need to repeat

the setting in the future. (See Fig. 5.13)



Fig. 5.13

4. Project parameter setting: the project parameters of the instrument can be added, edited and reset. (See Fig. 5.14)

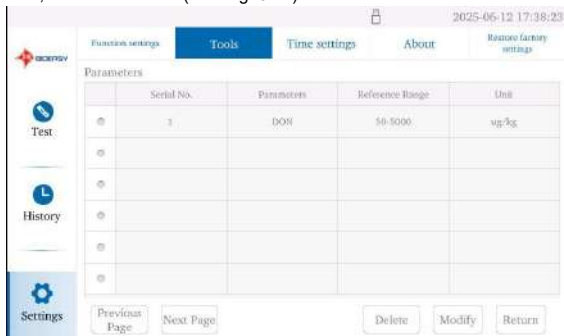


Fig. 5.14

5. Wi-Fi setting: The users can search and connect to nearby Wi-Fi. Wi-Fi is used to send the information to the server. (See Fig. 5.15)

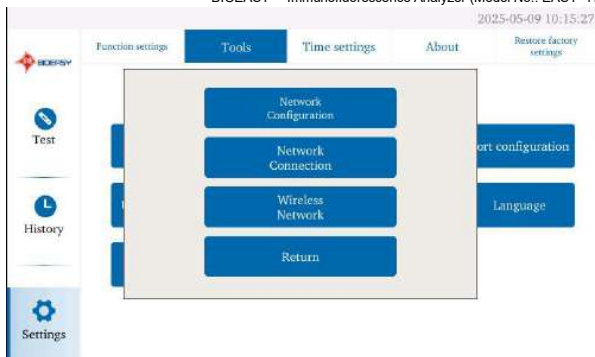


Fig. 5.15

## System function

System functions can provide analyzer information, reagent management and software upgrade, firmware upgrade and analyzer self-test and other functions.

1. Checking analyzer information: Click “Information” on the top of the analyzer to enter the interface, the users can view analyzer information. (See Fig. 5.16)



Fig. 5.16

## 2. Maintenance: including Ethernet Configuration, software upgrading, firmware upgrading.(See Fig. 5.17)

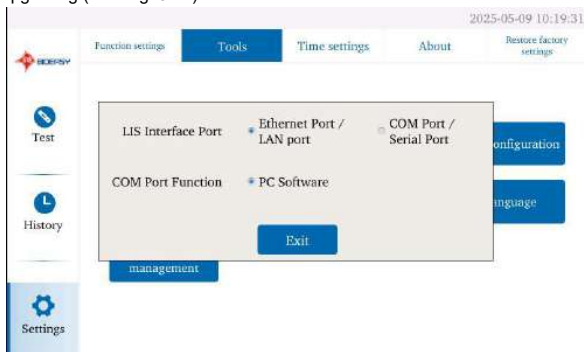


Fig. 5.17

- ① PC Software Connection: Select the network port if connecting via PC software. If using a USB-to-serial converter to connect to the LIS system, select the serial port.
- ② Program Update: Copy the “Update” folder containing the program files to the root directory of a USB drive. Insert the USB into the device. When the USB icon appears in the upper right corner of the screen, click “Program Update.” The analyzer will automatically perform the upgrade. After a successful update message appears, wait for approximately 20 – 30 seconds and then restart the device.(See Fig. 5.18)
- ③ Network Update: After connecting the device to a wireless network (this function is only supported in China), click “Network Update.” The analyzer will automatically perform the upgrade. Upon completion, a success message will appear. Wait 20 – 30 seconds and restart the device.
- ④ Boot Screen Update: Copy the boot screen file to the designated folder on the USB drive, insert it into the rear USB port of the analyzer, and click “Update Boot Screen.” The system will automatically reboot once the update is complete.
- ⑤ BIN File Update: Copy the BIN file to the specified folder on the USB drive, insert it into the rear USB port of the analyzer, and click Update Boot Screen. The device will automatically reboot after the update is completed.



Fig. 5.18

## Section VI Instruction for connection

This section introduces the operational instruction of Immunofluorescence Analyzer connect with server.

(1) Network Settings: Set the IP address and subnet mask for server configuration over a wireless network. By default, the analyzer automatically obtains an IP address. These settings should not be modified unless by qualified personnel.



Fig. 6.1

(2) Network Connection: Configure the PC IP address and port number for users who need to upload data via the LIS system.

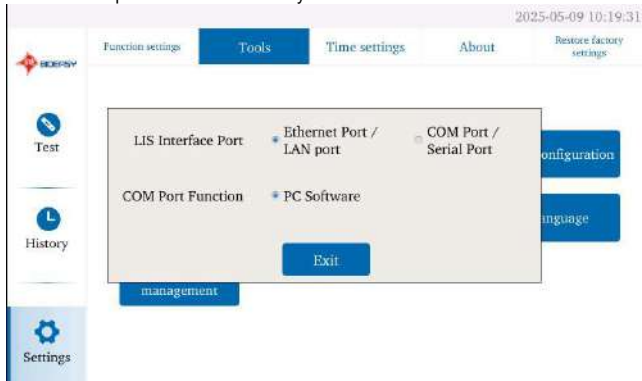


Fig. 6.2

(3) Wireless Network: After enabling “WLAN Configuration,” select a known Wi-Fi network from the available list to connect the device to the internet. This function is primarily used for “Program Update.”

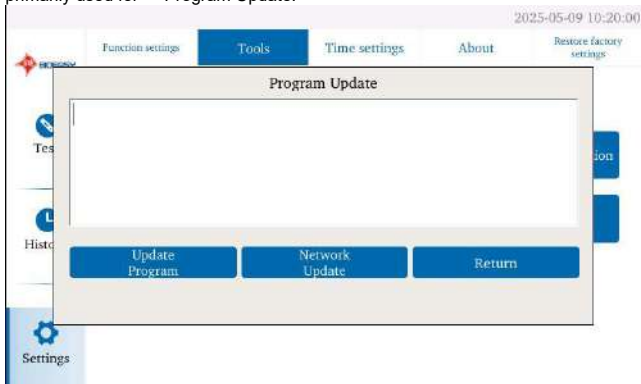


Fig. 6.3

### Port Configuration

- (1) PC Software Connection: Select the network port when using PC software.
- (2) LIS Serial Connection: If connecting to the LIS system using a USB-to-serial cable, select the serial port.

### Program Update

Note: Please back up all data before proceeding with any update to avoid data loss.

- (1) Program Update: Copy the “Update” folder containing the program files to the root directory of a USB drive. Insert the USB into the device. When the USB icon appears in the top-right corner, click “Program Update.” The analyzer will automatically begin the update process. Upon successful update, a confirmation message will appear. Wait approximately 20 - 30 seconds and then restart the device.
- (2) Network Update: After connecting the device to a wireless network (this function is only supported in mainland China), click “Network Update.” The analyzer will automatically begin the update process. Once complete, a success message will appear. Wait about 20 - 30 seconds, then restart the device.
- (3) Boot Screen Update: Copy the boot screen file to the designated folder on the USB drive, insert it into the rear USB port of the analyzer, and click “Update Boot Screen.” The system will reboot automatically after the update.

(4) BIN File Update: Copy the BIN file to the specified folder on the USB drive, insert it into the rear USB port, and click “Update Boot Screen.” The system will reboot automatically once the update is complete.

#### Administrator

This mode is reserved for manufacturer use and is intended for technical debugging. Administrator access is required and this mode is not open to external users.

## Section VII Warning, Precautions and Limitations

### Caution in Handling the test cassette

- The test sample should be applied to the Sample Well of test cassette.
- When inserting the test cassette into the Test Cassette Holder, orient the test cassette in such a way that the Sample Well should be upward, and Product Identification Code should face toward Immunofluorescence Analyzer.
- Push the test cassette all the way into the Test Cassette Holder until the test cassette comes to a stop. Use only the push of your thumb or the index finger. Don't use excessive force on the test cassette, or it will result in a mechanical failure.
- The used test cassette should be treated as a potential bio-hazard, and it should be disposed according to the local standard procedures and relevant regulations observed by microbiological hazard materials. We recommended high temperature autoclaving by incineration.
- Gloves, masks and other protective measures should be used when handling potential infectious materials.

## Caution in Use with the Immunofluorescence Analyzer

- Do not insert anything other than the test cassette provided by the manufacturer into the Test Cassette Holder.
- Do not spill any liquid on Immunofluorescence Analyzer. This may disable the system.
- Do not drop or crash Immunofluorescence Analyzer.
- Do not leave the instrument in the environment of mechanical vibration.
- Do not dismantle Immunofluorescence Analyzer without written authorization from Shenzhen Bioeasy Biotechnology Co., Ltd. or its representative.
- Do not place heavy objects on Immunofluorescence Analyzer. This may damage the optical alignment to result in degraded performance or in mechanical damage.
- The mains outlet for Immunofluorescence Analyzer shall be located in a user accessible position for easy unplugging in emergency.
- Please make sure power outlet properly grounded. Improper grounding may cause electrical shock and systematic damage.
- Only use the special Power Adapter (including the power cord) which provided with Immunofluorescence Analyzer.
- Use Immunofluorescence Analyzer only in environment as specified in Section III.
- Immunofluorescence Analyzer malfunction due to maintenance, processing or transporting damage, please contact customer service representative.
- Use the test result as a pre-screening guide. The result should be interpreted by trained medical personnel only.
- The Immunofluorescence Analyzer shall be operated by professional person.
- If the Immunofluorescence Analyzer is used in a manner not specified by the manufacturer, the protection provided by the analyzer may be impaired.

**\* Caution:**

*When using the fluorescence immunoassay analyzer, it is necessary to meet the use conditions described in Section III of the operation manual and in observance of the warning in Section VII. Otherwise, the built-in safety features of Immunofluorescence Analyzer may be compromised to present severe electrical, mechanical or biological hazards to the user.*

## Section VIII Service, Maintenance and Disposal

If any service or maintenance are required, Immunofluorescence Analyzer should be sent to Shenzhen Bioeasy Biotechnology Co., Ltd. No Special maintenance other than paper replacement and periodic cleaning are required for the analyzer. Occasional cleansing of the exterior with a mild-dry cloth is sufficient to assure the analyzer operation. The analyzer shall be separated from mains supply prior to cleaning.

### External cleaning

The surface of the instrument can be wiped with a neutral detergent and a damp cloth. The LCD screen should be cleaned using a soft cloth. To prevent damages of screen or other surface device, strong bleach (bleach concentration more than 0.5%), oxidizing substances and solvents are prohibited.

### Decontamination

If the analyzer needs maintenance or replacement after use, decontamination and disinfection should be done before repacking and transporting. Use disinfectant including bleach with concentration less than 0.1%) and cloth to thoroughly scrub the external surface of the instrument. To prevent damages to internal components of the device, spray-washing, clean any internal parts, and inner surface with disinfectant is prohibited.

### Maintenance

In addition to regularly cleaning, Immunofluorescence Analyzer generally does not require special maintenance. Clean with a soft, dry cloth to wipe the external surface of the analyzer to ensure the normal operation of Immunofluorescence Analyzer.

#### *\*Caution:*

*Analyzer does not contain any serviceable components by operator. To avoid electric shock, regular maintenance must be executed by authorized technical service personnel.*

### Power Supply

Only use the special AC/DC power supply which provided with the analyzer. In case the power adapter needs replacement, you should contact Shenzhen Bioeasy Biotechnology Co., Ltd. or its designated representative. Shenzhen Bioeasy Biotechnology Co.,Ltd. CE certified Class 2 power supplies, rated at +12V 5A.

## Return Procedure

If Immunofluorescence Analyzer happened to malfunction, please contact Shenzhen Bioeasy Biotechnology Co., Ltd. or the local distributor at first. If it were determined that the unit will be returned to the manufacturer, a return authorization number will be issued, then Shenzhen Bioeasy Biotechnology Co., Ltd. will send an Immunofluorescence Analyzer for replacing. The user is expected to utilize the packaging supplies accompanying the replacement to ship the malfunctioning unit in. Verify the return authorization number on the package and send the unit to Shenzhen Bioeasy Biotechnology Co., Ltd. upon receiving the replacement Immunofluorescence Analyzer.

## Transporting and storing

The original shipping container should be used to ship or transport Immunofluorescence Analyzer. The original shipping container is also recommended for storing Immunofluorescence Analyzer over an extended period. When transporting or storing Immunofluorescence Analyzer, keep it dry in upright position and protect it from sun, mechanical shocks, transportation requirements according to an order under the contract.

Immunofluorescence Analyzer should be stored in a well-ventilated room that has storage temperature of  $-10^{\circ}\text{C}\sim 50^{\circ}\text{C}$ , relative humidity is less than 85% and no corrosive gas.

## Disposal

Any used test cassette should be disposed according to local ordinances regarding the disposal of bio-hazardous materials.

## Replacing print paper

When the thermal printer indicator light is on, it reminds the user to replace the paper roll. Remove the used paper core from the printer compartment and insert a new roll of thermal paper. Gently pull out a small portion of the paper (ensure the paper extends slightly from the paper outlet after closing the printer cover). Hold the paper head at the outlet of the printer, gently close the cover, and press it firmly to complete the paper replacement..



**WEEE (Waste Electrical and Electronic Instrument)**

This symbol for the marking of electrical and electronics devices is according to the Directive 2002/96/EC. The Immunofluorescence Analyzer, accessories and the packaging have to be disposed of waste correctly at the end of usage. Please follow Local Ordinances or Regulations for disposal.

## Section IX Trouble Shooting

Phenomena	Probable Cause	Recommended Measures
<b>Display Not Working</b>	No 220V AC power input to the power socket	Check if there is a 220V AC power input
	Power cord is not properly connected	Reinsert the power cord firmly into the instrument
	Damaged power adapter	Replace with a 12V 2A power adapter
	Faulty power switch	Contact the manufacturer to replace the power switch
	Poor contact between the display screen and the motherboard connector.	Contact the manufacturer for repair or replacement
	PCB board malfunction	Contact the manufacturer for repair or replacement
	Display screen malfunction	Contact the manufacturer for repair or replacement
<b>Printer Not Printing</b>	Indicator light is on, prompting paper roll replacement.	Replace with a new thermal paper roll
<b>Deviation from Standard Readings</b>	Contaminated test strip or card	Repeat the experiment
	Instrument instability	Contact the manufacturer for repair or calibration
	Fluctuations in test strips or cards due to time or temperature	Perform testing strictly according to the specified detection protocol and conditions

## Section X Contact Information

Shenzhen Bioeasy Biotechnology Co., Ltd.'s expressed and implied warranties are conditioned upon full observance of manufacturer's published direction with respect to the use of Shenzhen Bioeasy Biotechnology Co., Ltd.'s products. Under no circumstance whatsoever shall Shenzhen Bioeasy Biotechnology Co.,Ltd. be held liable for any indirect or consequential damages.

For technical assistance, call or send E-mail to us:

**MODEL**

[Model No.] EASY-11

[Company] Shenzhen Bioeasy Biotechnology Co., Ltd.



[Address] A101, Building 2, Bioeasy Industry Park, No. 289

Yunchang Road, Bao'an District, Shenzhen City,

Guangdong Province, China

[Tel] +86 400-111-1126

+86 0755-2794 8546

[Email] info@bioeasy.com



**FMCG Industry Solutions Pty Ltd**

ABN 22 135 446 007

📍 Factory 11A, 1 - 3 Endeavour Rd, Caringbah NSW 2229

🌐 www.fmcgis.com.au

✉ sales@fmcgis.com.au

☎ 1300 628 104 or 02 9540 2288