TFS Pro4 Foodborne Pathogen Analyzers

User Guide

Trending-FoodAX

For Foodborne Pathogen Test Use Only.

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Preface

How to Use This Guide

Purpose of This Guide: The TFS Pro4 Foodborne Pathogen Analyzers User Guide provides information about installing, using and maintaining the TFS Pro4 Foodborne Pathogen Analyzers.

Audience: This guide is intended for novice and experienced TFS Pro4 Foodborne Pathogen Analyzers users who use the instrument to perform isothermal amplification.

User Attention Words: Two user attention words appear in TFS Pro4 Foodborne Pathogen Analyzers user documentation. Each word implies a particular level of observation or action as described below:

Note: Provides information that may be of interest or help but is not critical to the use of the product.

IMPORTANT! - Provides information that is necessary for proper instrument operation, accurate chemistry kit use, or safe use of a chemical.

Safety Alert Words: Four safety alert words appear in user guide at points in the document where you need to be aware of relevant hazards. Each alert word—**IMPORTANT, CAUTION, WARNING, DANGER** - implies a particular level of observation or action, as defined below.

IMPORTANT! - Indicates information that is necessary for proper instrument operation, accurate chemistry kit use, or safe use of a chemical.

CAUTION! - Indicates a potentially hazardous situation that, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.

WARNING! - Indicates a potentially hazardous situation that, if not avoided, could result in death or serious injury.

DANGER! - Indicates an imminently hazardous situation that, if not avoided, will result in death or serious injury. This signal word is to be limited to the most extreme situations.

How to Obtain More Information

Related Documentation: TFS Pro4 Foodborne Pathogen Analyzers Quick Reference Card - Provides a summary of information about the TFS Pro4 Foodborne Pathogen Analyzers, its installation, and accessories. It is designed to help you quickly learn to use the TFS Pro4 Foodborne Pathogen Analyzers.

How to Obtain Support

Support Information: For the latest services and support information for all locations, go to www.trendingmedtech.com, then click the link for more information.

Safety and EMC Compliance Information

Safety Alert Words

Four safety alert words appear in Trending user documentation at points in the document where you need to be aware of relevant hazards. Each alert word - **IMPORTANT**, **CAUTION**, **WARNING**, **DANGER** - implies a particular level of observation or action, as defined below.

Definitions

IMPORTANT! - Indicates information that is necessary for proper instrument operation, accurate chemistry kit use, or safe use of a chemical.

- Indicates a potentially hazardous situation that, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.

- Indicates a potentially hazardous situation that, if not avoided, could result in death or serious injury.

- Indicates an imminently hazardous situation that, if not avoided, will result in death or serious injury. This signal word is to be limited to the most extreme situations.

Except for IMPORTANTs, each safety alert word in a Trending document appears with an open triangle figure that contains a hazard symbol. These hazard symbols are identical to the hazard symbols that are affixed to Trending instruments.

Safety Symbols

The following table describes the safety symbols that may be displayed on Trending instruments. Each symbol may appear by itself or with text that explains the relevant hazard.

These safety symbols may also appear next to DANGERS, WARNINGS, and CAUTIONS that occur in the text of this and other related documents.

Symbol	Description
	Indicates that should consult the manual for further information and proceed with appropriate caution.
	Indicates the presence of an electrical shock hazard that requires appropriate caution.
	Indicates potential contact with infectious risks that require appropriate caution.
	Indicates the presence of a hot surface or other high-temperature hazard, requiring appropriate caution.

Environmental Symbols

The following symbol be may be displayed on Trending instruments.

Symbol	Description
	Do not dispose of this product as unsorted municipal waste. Follow local municipal waste ordinances for proper disposal provisions to reduce the environmental impact of waste electrical and electronic equipment (WEEE).

General Instrument Safety

PHYSICAL INJURY HAZARD. Using the instrument in a manner

not specified by Trending may result in personal injury or damage to the instrument.

Moving and Lifting the Instrument:

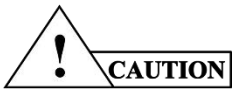
PHYSICAL INJURY HAZARD. Handle with care. Falling instruments may cause injury.

Operating the Instrument:

Ensure that anyone who operates the instrument has:

- Read and understood instructions for the instrument.
- Read and understood all applicable Material Safety Data Sheets (MSDSs).

Cleaning or Decontaminating the Instrument:



Before using a cleaning or decontamination method other than those recommended by the manufacturer, verify with the manufacturer that the proposed method will not damage the equipment.

Chemical Safety

Chemical Hazard Warning:

CHEMICAL HAZARD. Before handling any chemicals, refer to the Material Safety Data Sheet (MSDS) provided by the manufacturer, and observe all relevant precautions.

About MSDSs:

Chemical manufacturers supply current Material Safety Data Sheets (MSDSs) with shipments of hazardous chemicals to new customers. They also provide MSDSs with the first shipment of a hazardous chemical to a customer after an MSDS has been updated. MSDSs

provide the safety information you need to store, handle, transport, and dispose of the chemicals safely. Each time you receive a new MSDS packaged with a hazardous chemical, be sure to replace the appropriate MSDS in your files.

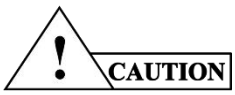
Chemical Safety Guidelines:

To minimize the hazards of chemicals:

- Read and understand the Material Safety Data Sheets (MSDSs) provided by the chemical manufacturer before you store, handle, or work with any chemicals or hazardous materials.
- Minimize contact with chemicals. Wear appropriate personal protective equipment when handling chemicals (for example, safety glasses, gloves, or protective clothing). For additional safety guidelines, consult the MSDS.
- Minimize the inhalation of chemicals. Do not leave chemical containers open. Use only with adequate ventilation (for example, fume hood). For additional safety guidelines, consult the MSDS.
- Check regularly for chemical leaks or spills. If a leak or spill occurs, follow the manufacturer's cleanup procedures as recommended in the MSDS.
- Comply with all local, state/provincial, or national laws and regulations related to chemical storage, handling, and disposal.

Chemical Waste Safety

Chemical Waste Hazard:



HAZARDOUS WASTE. Refer to Material Safety Data Sheets and local regulations for handling and disposal.

Electrical Safety

ELECTRICAL SHOCK HAZARD. Do not open the AC/DC SWITCHING ADAPTOR (12VDC/3A). Risk of electrical shock.

ELECTRICAL SHOCK HAZARD.

- To prevent electric shock hazards, the instrument must be connected to a three-core grounded socket conforming to safety standards.
- Before connecting the instrument to the power cord, ensure that the AC power supply's voltage and frequency match those required by the instrument.
- Always ensure the power is off during power cord connections.
- Do not remove the power cord while the instrument is still powered on.
- If the instrument will be disconnected for an extended period, ensure it is turned off.

ELECTRICAL SHOCK HAZARD. Touching connections with wet hands may result in electrical shock.

- Avoid touching the power switch and power cord with wet hands.
- Do not clean the instrument without disconnecting the power.

Overvoltage Rating:

The TFS Pro4 Foodborne Pathogen Analyzers has a Class I electrical safety protection level according to IEC standards.

Electromagnetic Compatibility (EMC) Standards

Australian EMC Standards: The TFS Pro4 Foodborne Pathogen Analyzers has been tested to and complies with standard:

- ETSI EN 300 328 V2.2.2 (2019-07): Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz band Harmonised Standard for access to radio spectrum.

U.S. EMC Standards: The TFS Pro4 Foodborne Pathogen Analyzers has been tested to and complies with standard:

- 47 CFR Part 1: Practice and Procedure.
- 47 CFR Part 2: Frequency Allocations and Radio Treaty Matters; General Rules and Regulations.
- KDB 447498 D01 General RF Exposure Guidance v06: RF Exposure Procedures and Equipment Authorization Policies for Mobile and Portable Devices.
- OET Bulletin 65 Edition 97-01: Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields.

European EMC Standards: The TFS Pro4 Foodborne Pathogen Analyzers meets European requirements for safety and has been tested to and complies with standard:

- ETSI EN 301 489-1 V2.2.3 (2019-11): ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements; Harmonised Standard for ElectroMagnetic Compatibility.
- Draft ETSI EN 301 489-17 V3.2.6 (2023-06): ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific conditions for Broadband and Wideband Data Transmission Systems; Harmonised Standard for ElectroMagnetic Compatibility.
- EN 55032:2015+ A11:2020: Electromagnetic compatibility of multimedia equipment - Emission Requirements.
- EN55035:2017+ A11:2020: Electromagnetic compatibility of multimedia equipment - Immunity requirements.

System Overview

Introducing the TFS Pro4 Foodborne Pathogen Analyzers

About the Instrument: The TFS Pro4 Foodborne Pathogen Analyzers (EQ-FS400) is a portable instrument designed to perform DNA/RNA tests for pets using isothermal nucleic acid amplification assays. It features four test bays, allowing up to eight tests to be performed simultaneously.

Model number and version number:

- Model: EQ-FS400
- Version Number: EQ-FS400-001

Product characteristics: The TFS Pro4 Foodborne Pathogen Analyzers is a portable instrument with fully automated operation, enabling non-professional laboratory users to conduct fast and accurate on-site DNA/RNA tests. Users can easily interact with the TFS Pro4 using a touchscreen, following the user-friendly guidance of its software, making it simple to initiate nucleic acid tests.

Figure 1 The TFS Pro4 Foodborne Pathogen Analyzers

Installing the TFS Pro4 Foodborne Pathogen Analyzers

Before You Start

Site Requirements: The TFS Pro4 Foodborne Pathogen Analyzers is suitable for both indoor and outdoor on-site use. Ensure that the installation site meets the following criteria:

- Place the TFS Pro4 Foodborne Pathogen Analyzers on a horizontal place to ensure stability.

Operational Conditions:

Parameter	Specification
Ambient Temperature	Room Temperature to 40°C (if not maintained, use an air conditioner)
Humidity	Maintain humidity at 80% to prevent condensation

Storage Conditions:

Parameter	Specification
Ambient Temperature	Room Temperature
Relative Humidity	85%

Avoid placing the instrument in areas with severe temperature changes, excessive humidity, high temperatures, or direct sunlight, as these conditions may affect performance.

Electrical Conditions:

- Do not share the same power socket with other high-power devices to avoid voltage fluctuations.
- Connect the ADAPTOR to the instrument and plug it into the power socket.
- Ensure the power supply voltage meets the instrument's requirements:

Parameter	Specification
Voltage	Use the instrument's DC power supply with a voltage range of 176VAC to 245VAC

Contents: Check if the items in the TFS Pro4 Foodborne Pathogen Analyzers package match the following list:

Content	Quantity
TFS Pro4 Foodborne Pathogen Analyzers	1
AC/DC SWITCHING ADAPTOR (12VDC/5A)	1
Power Cord	1
Magnet	6
USB Cable	1
Quick Reference Card	1
Certification of Analysis	1

Contact the local distributor immediately if there are any missing or damaged items.

Unpack the TFS Pro4 Foodborne Pathogen Analyzers

IMPORTANT! Save the packing materials and box in case you need to ship the instrument to Trending for service.

1. To unpack the TFS Pro4 Foodborne Pathogen Analyzers:

a) Cut the straps securing the instrument box.

b) Cut the tape securing the top flaps of the instrument crate, then open the flaps.

c) Remove the packing material from the TFS Pro4 Foodborne Pathogen Analyzers and other Accessories, then inspect the instrument and accessories for shipping damage.

IMPORTANT! If the TFS Pro4 Foodborne Pathogen Analyzers is damaged, note the location and appearance of the damage, then contact Trending Technical Support or your local service representative.

2. Charge the TFS Pro4 Foodborne Pathogen Analyzers:

The TFS Pro4 Foodborne Pathogen Analyzers comes with a built-in lithium battery. You can check the current battery level in the upper right corner of the screen after turning on the instrument (Figure 2). When the battery level displays below 25%, it is recommended to charge it. To charge the instrument, please follow these steps:

a) Connect the ADAPTER to the Adapter Interface of the left side of the instrument (Figure 3 ①).

b) Connect the Power Cord to the ADAPTER.

c) Plug the grounded three-prong plug of the Power Cord into an appropriate power source (220-240 V AC power supply).

d) Ensure that the power supply is effectively grounded and position the power socket where operators can easily plug and unplug the Power Cord.

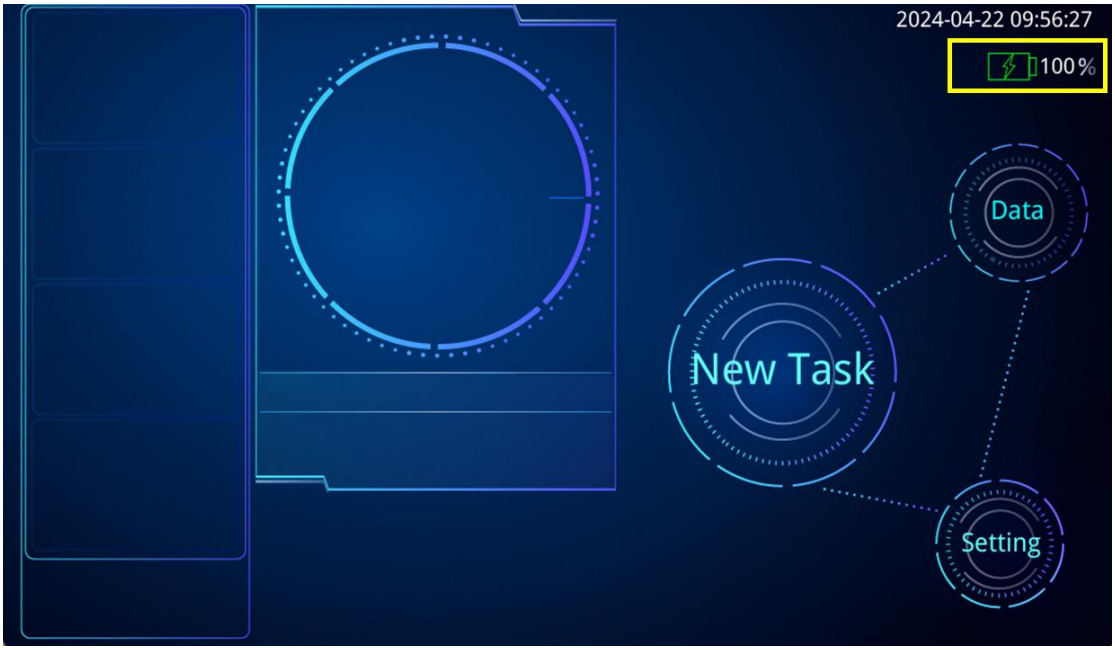


Figure 2 Battery Status

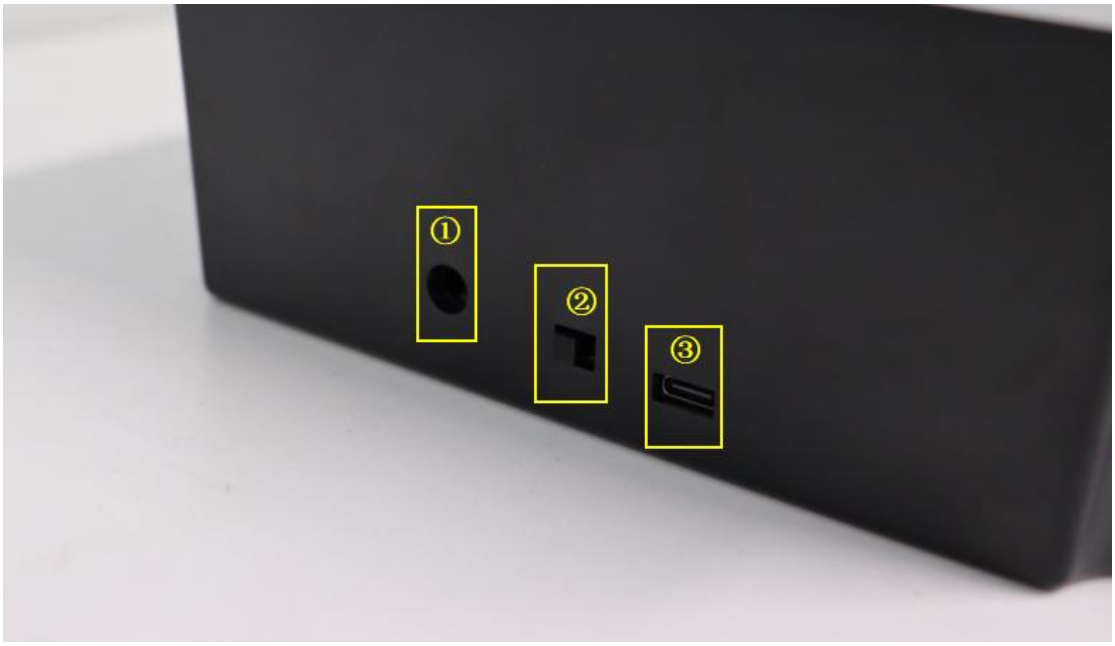


Figure 3 Adapter Interface, Power-On Switch and Type-C interface

Connect the power adapter to the designated interface, and plug the other end into a 220V AC

power supply. Ensure that part of the power supply is effectively grounded, and position the power socket where operators can easily plug and unplug the power cord.

3. Type-C Interface

The Type-C interface is used to connect to the PC for software upgrades (Figure 3 ③).

Settings

Turn on the TFS Pro4 Foodborne Pathogen Analyzers by switching the Power-On Switch on the left side of the instrument (Figure 3 ②). Click "Setting" on the Main Page (Figure 4) to access the Setting Page (Figure 5). On the Setting Page, you can:

1. Choose the language using the touch screen (Figure 5 ①).
2. Set up the date and time using the touch screen (Figure 5 ②).
3. Connect to the instrument's Hotspot by searching for and selecting the "WIFI Name" and inputting the password shown on the screen (Figure 5 ③).

4. Change the parameters of a test by clicking "Parameter" on the screen (Figure 5 ④). This setting requires administrator authorization from Trending. Please contact Trending Technical Support or your local service representative for administrator authorization.

Click "Save" to save all your settings. Click "Back" to navigate back to the Main Page.

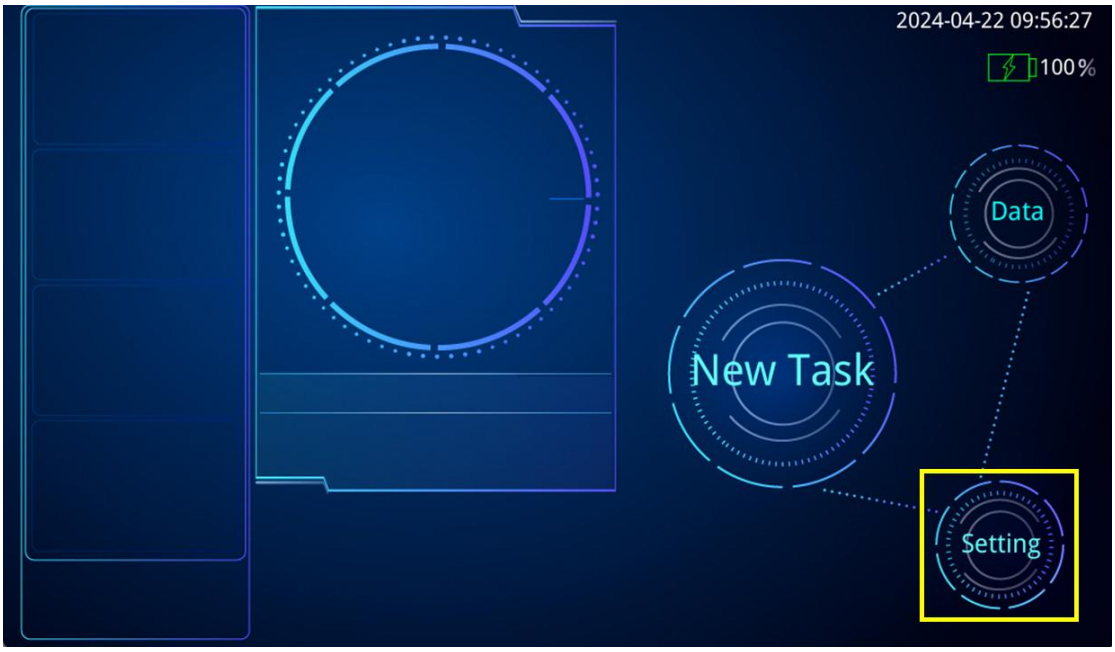


Figure 4 “Setting” icon on the Main Page

Figure 5 Setting Page

Instrument Operation

Start a New Test

1. Turn on the Instrument

Turn on the TFS Pro4 Foodborne Pathogen Analyzers by switching the Power-On Switch on the left side of the instrument (Figure 3 ②). The Boot Screen (Figure 6) will appear, and after a few seconds, it will automatically transition to the Main Page (Figure 7).

Figure 6 Boot Screen

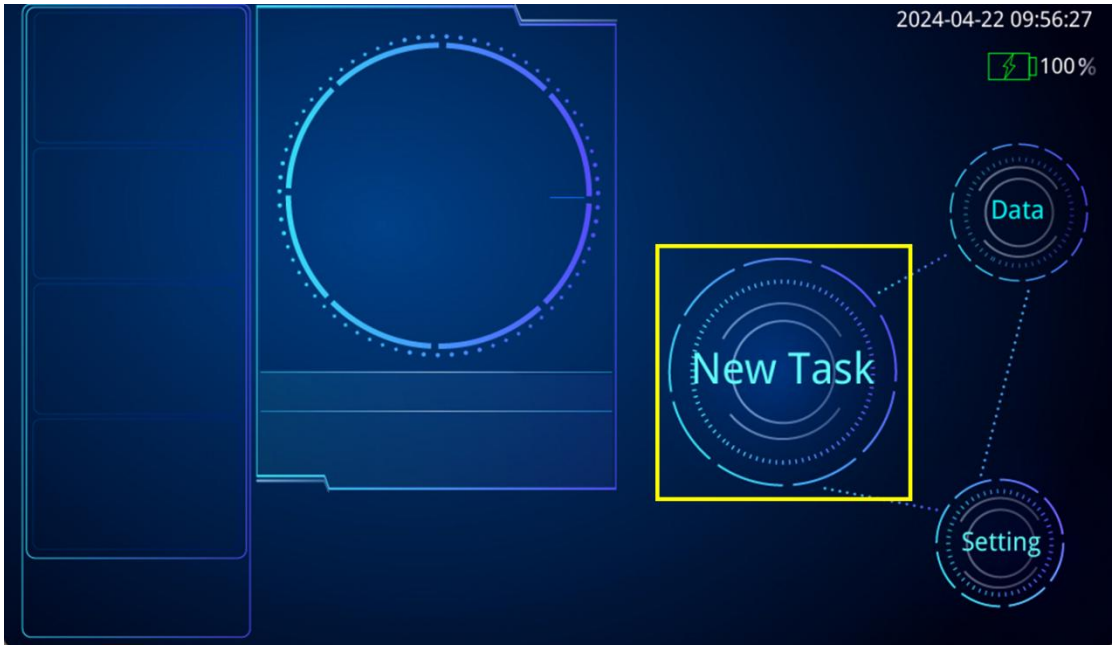


Figure 7 Main Page

2. Initiate a New Task

Click "New Task" on the Main Page (Figure 7) to start a new test.

Choose the Test Target

3. Select Detection Target

The screen will automatically transition to the Detection Target Selection Page. On this page, select the Detection Target by clicking its name. For example, click "Salmonella" (Figure 8 ①). The selected target will be highlighted in green (Figure 8 ①) and displayed in the upper left box (Figure 8 ②). The number of Test Cards required for the test will be shown in the upper right of the screen (Figure 8 ③).

Click "Confirm" to proceed to the next step, or click "Back" to return to the Main Page (Figure 8).

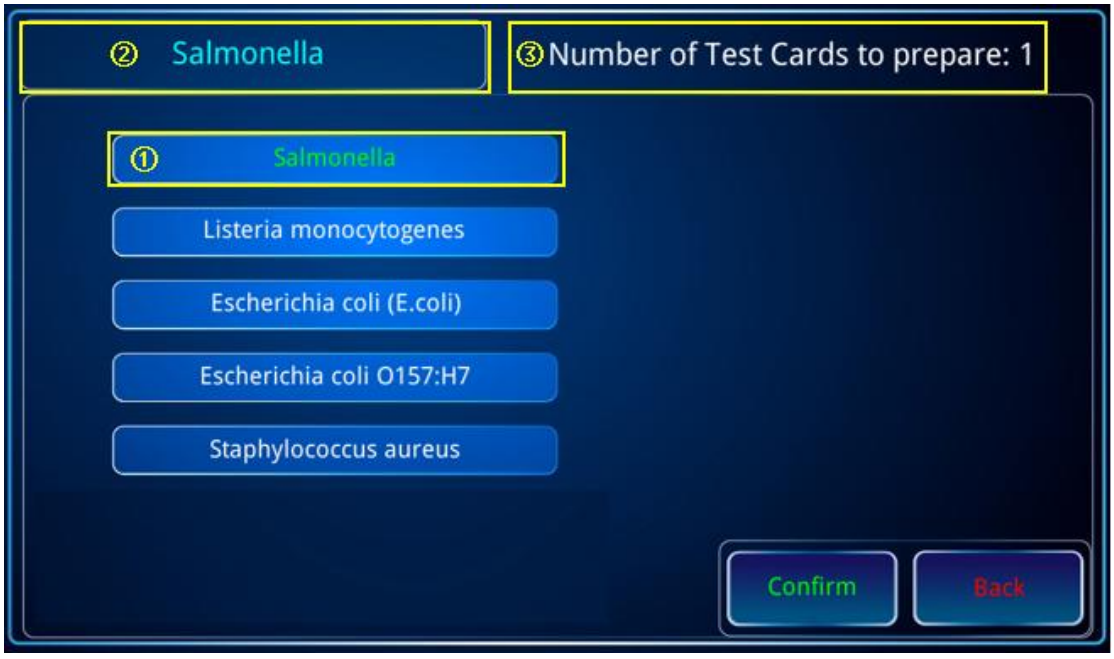


Figure 8 Detection Target Selection Page

Insert the Test Card

4. Follow the Operation Guide

After confirming the Test Target selection, the screen will transition to the Operation Guide Page (Figure 9 ①). Follow the instructions on this page to insert the Test Card into the

correct Test Bay. **IMPORTANT!** Ensure the Magnet is inserted into the Test Card (Please refer to the Test Card User Guide for instructions on inserting the Magnet).

Example: Insert the Test Card into Test Bay 1 and gently push it inward and downward to ensure it is properly seated (Figure 10). When the Test Card is correctly seated, the screen will automatically transition to the next page showing “Task is ready, wait to start…” and “Test Card is ready, wait to start…” (Figure 11) for a few seconds before returning to the Main Page, ready to start (Figure 12). On this page, the created task will be shown in the Taskbar within its Status Box, containing the following task information: Test Bay number, the selected Test Target, and the status of this task shown as “Ready,” indicating that the task is ready to start (Figure 12 ①).

Users can also choose another Test Bay to insert the Test Card by clicking "Change Test Bay" in the upper right corner of the Operation Guide Page (Figure 9 ②).

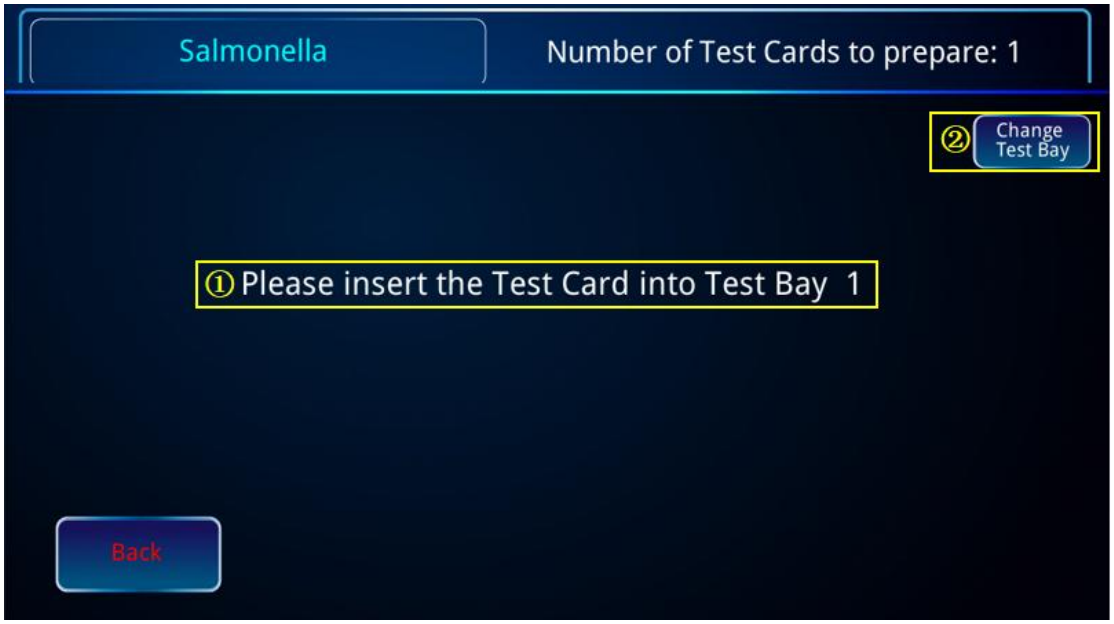


Figure 9 Operation Guide Page (Instruction for inserting the Test Card)

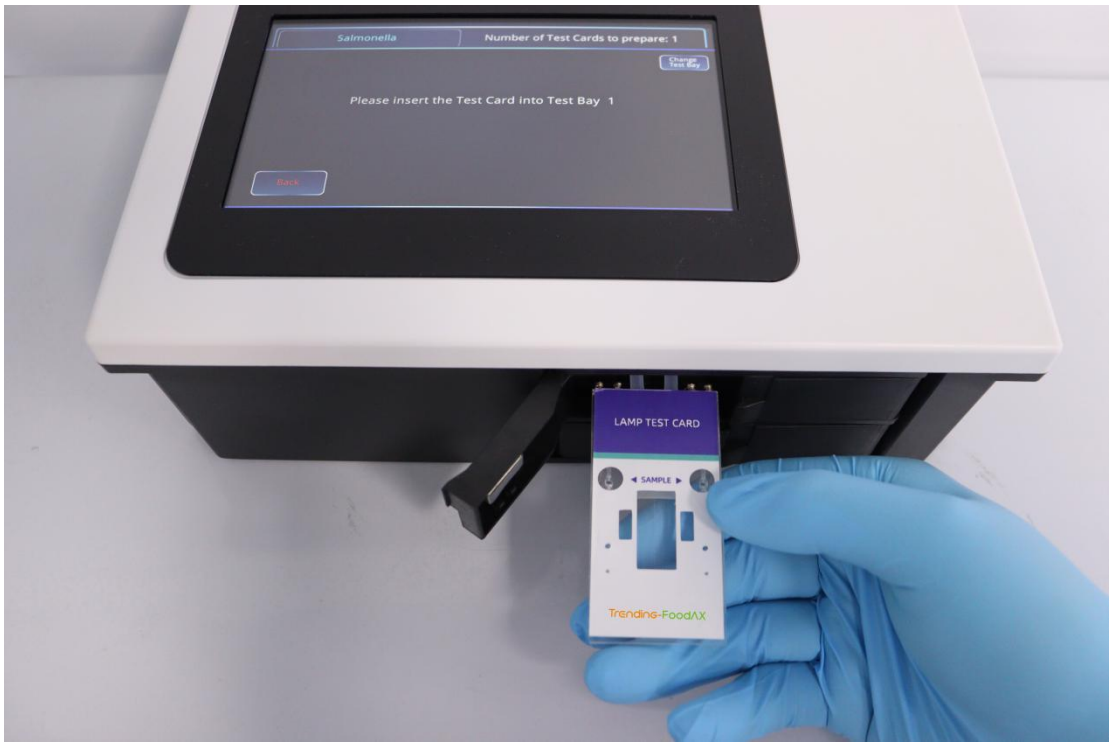


Figure 10 Insert the Test Card into the Test Bay

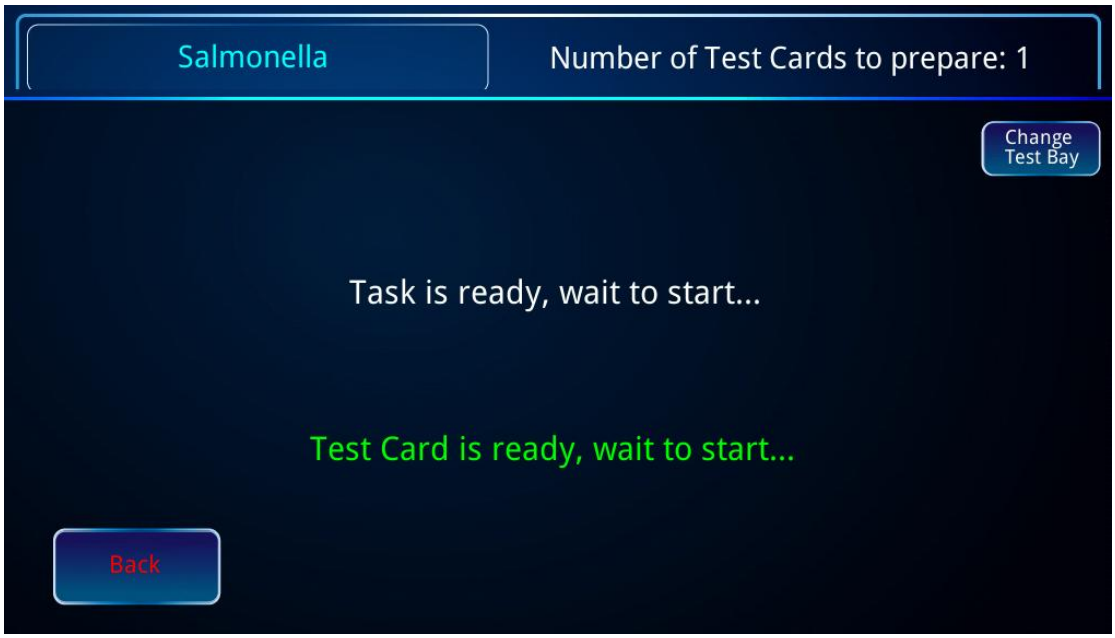


Figure 11 Operation Guide Page (Test Card properly inserted)

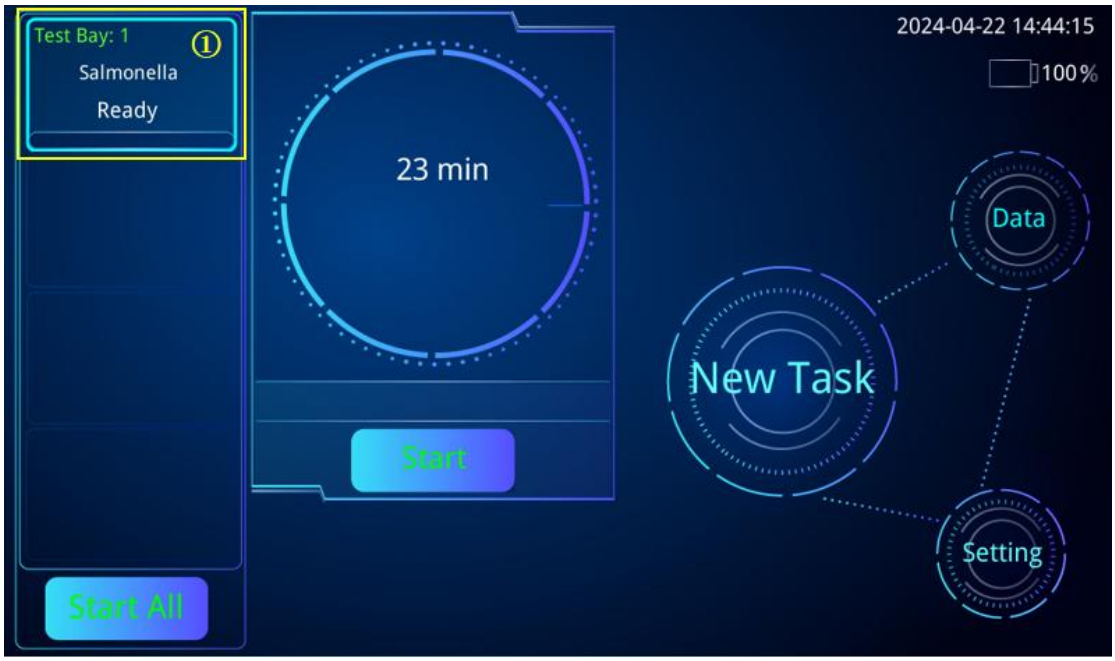


Figure 12 Main Page (Ready to start a test)

Start the Test

5. Initiate the Test

Click "Start" under the Time Circle to begin the test (Figure 12). Alternatively, you can add another test by clicking "New Task" and repeating the previous steps to create another task.

The created tasks are shown in the Taskbar on the left side of the Main Page, ready to start (Figure 13 ①). Click on a task to select it (Figure 13 ①). The outline of the selected task will be highlighted in light blue (Figure 13 ①), and the testing time for this task will be shown in the middle Time Circle (Figure 13 ②). Click "Start" under the Time Circle to start the selected task (Figure 13 ③).

Each task can be started individually by following these steps. Alternatively, click "Start All" at the bottom left (Figure 13 ④) to start all tasks in the Taskbar simultaneously.

Precautions

IMPORTANT! DO NOT open the door of the Test Bay during testing!

CAUTION DO NOT insert the power ADAPTER into the instrument during

testing!

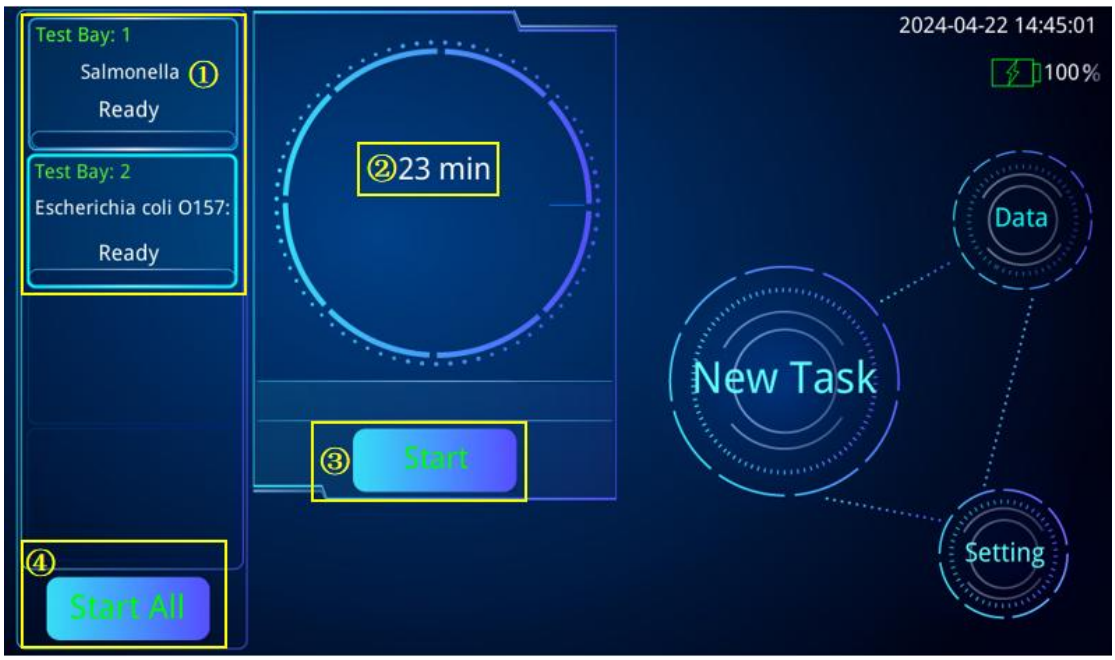


Figure 13 Main Page (Ready to start multiple tests)

View the Tests

You can view the task in the Taskbar on the left side of the screen by clicking it as described previously (Figure 14 ①).

When a task is started, the status of the task is shown in its Status Box within the Taskbar, along with a real-time Progress Bar at the bottom of its Status Box (Figure 14 ①). There are two possible statuses displayed in the Status Box:

“**Processing…**”: The test has started and is in progress.

“**Left: P (or N) Right: N (or P)**”: The test is completed, and the results for the Left Lane and Right Lane of the Test Card are shown.

Meanwhile, the time countdown for the selected task, highlighted with a light blue outline, will be shown in the middle Time Circle. As the test progresses, the time will gradually decrease, displaying the remaining testing time (Figure 14).

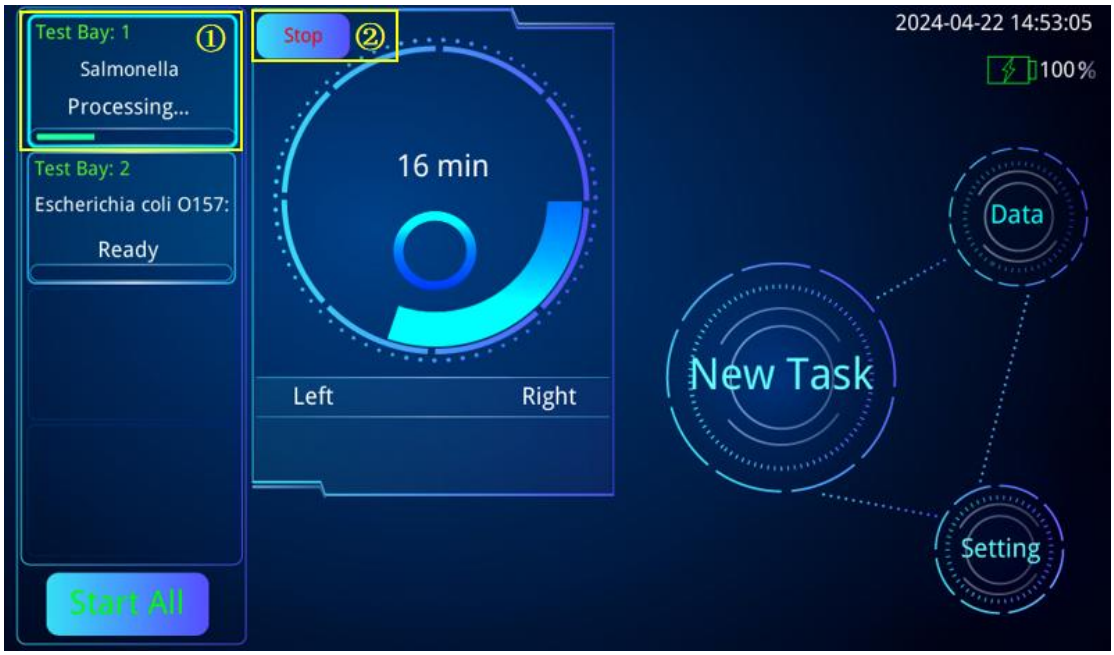


Figure 14 Main Page (Running tests)

When the testing is done, you will hear a "Beep", and the time countdown in the middle Time Circle will change to the next status, showing "Analyzing," indicating that the instrument is analyzing the data. Please wait during this stage and DO NOT remove the Test Card (Figure 15).

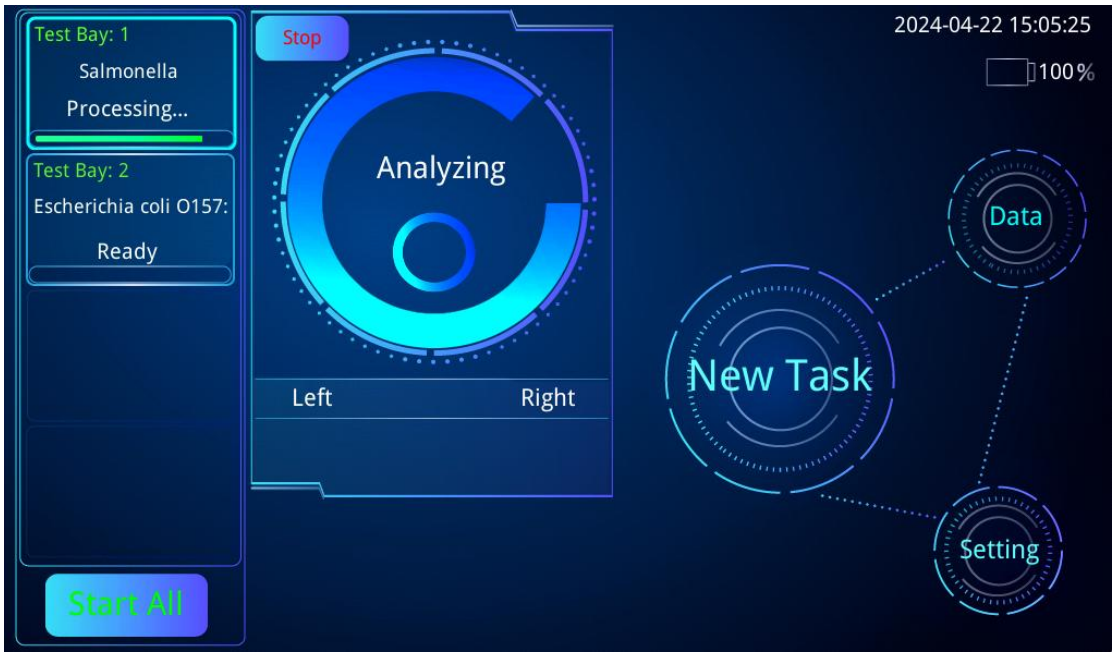


Figure 15 Main Page (Analyzing)

After another "Beep", the status of the selected task in the middle Time Circle will automatically change to "Done", indicating that the testing is completed (Figure 16 ①). The

results will be shown under the middle Time Circle, displaying “P” or “N” under “Left” or “Right” (Figure 16 ②), respectively, indicating the results for the Left Lane and Right Lane of the Test Card (Figure 16 ③). “P” means Positive; “N” means Negative.

Figure 16 Main Page (Test Done)

While the task is running, you have the option to stop the test by clicking “Stop” on the upper left of the Time Circle (Figure 14 ②). A Dialog Box will appear asking, “Do you want to stop the test?”. Click “Yes” to stop the selected task or “Cancel” to return to the Main Page with running tests (Figure 17).

IMPORTANT! DO NOT remove the Test Card during testing.

IMPORTANT! DO NOT move the instrument during testing.

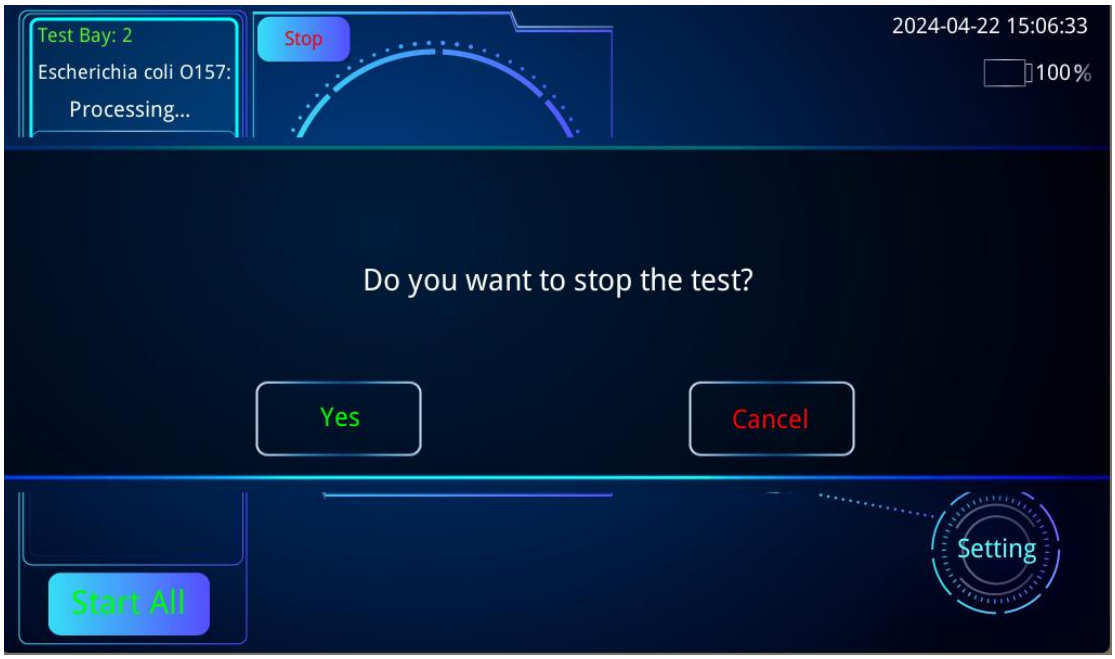


Figure 17 Dialog Box asking "Do you want to stop the test?"

View the Results

You can view the results of the selected task both under the middle Time Circle (Figure 16 ②) and in its Status Box in the Taskbar on the left of the screen (Figure 16 ③) when the test is completed.

When you remove the Test Card, all the Status Boxes and the relative information of this Test Card shown in the middle Time Circle will disappear. In this case, you can view the results of previous tests by clicking "Data" on the upper right of the screen (Figure 18).

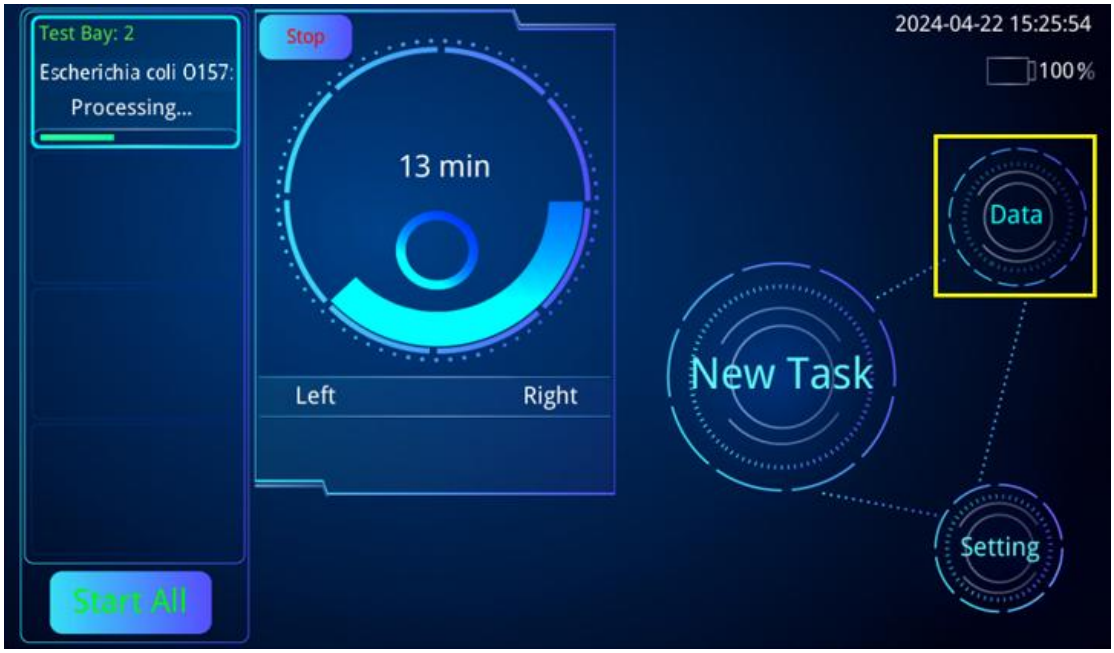


Figure 18 Main Page

In the Data page (Figure 19), you can see the results of the last test at the top of the data list. All previous results are displayed in reverse chronological order, with the earliest test results at the bottom of the list and the most recent at the top (Figure 19).

You can click “Page Up” or “Page Down” (Figure 19 ①) to flip pages forward or backward to view the results.

Click “Back” (Figure 19 ②) to return to the Main Page.

Figure 19 Data Page

After the testing is complete, please remove the Test Card from the Test Bay (Figure 20).

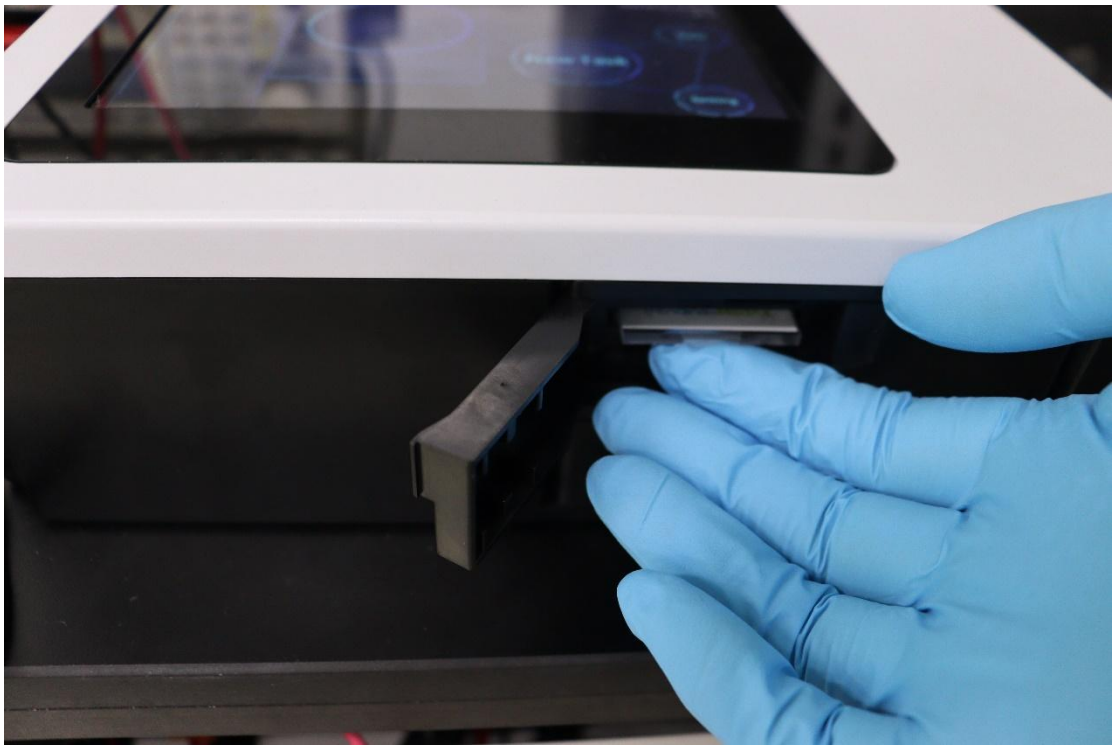


Figure 20 Remove the Test Card from the Test Bay

Anomaly Handling

1. No Available Test Bay

When the following situation occurs (Figure 20), this Dialog Box indicates that there are not enough available Test Bays to insert the Test Card required for a created Task. Follow the guidance shown in this Dialog Box and remove the Test Cards from the prompted Test Bays (Figure 21 ①).

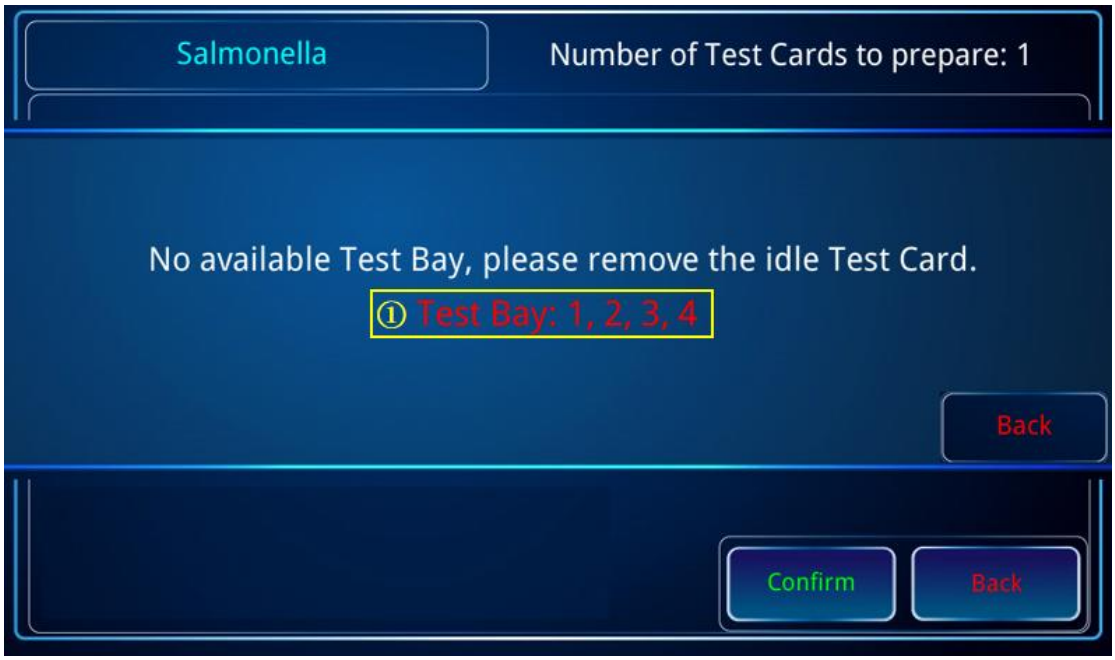


Figure 21 Dialog Box prompting "No available Test Bay"

2. Test Card is Accidentally Removed or Not Inserted Properly before the Task Starts

When the following situation occurs (Figure 22), this Dialog Box indicates that the Test Card is accidentally removed or not inserted properly before the Task starts. Follow the instructions (Figure 22 ①) in the prompt and reinsert the Test Card into the indicated Test Bay (Figure 10). Once the Test Card is properly reinserted, the prompt will automatically change to "Please click Back to continue" (Figure 23). Click "Back", and it will automatically return to the Main Page, and the task will be created successfully.

Alternatively, you can click "Back" in Figure 21 without reinserting the Test Card if you do not wish to continue creating this Task. The screen will return to the Main Page.

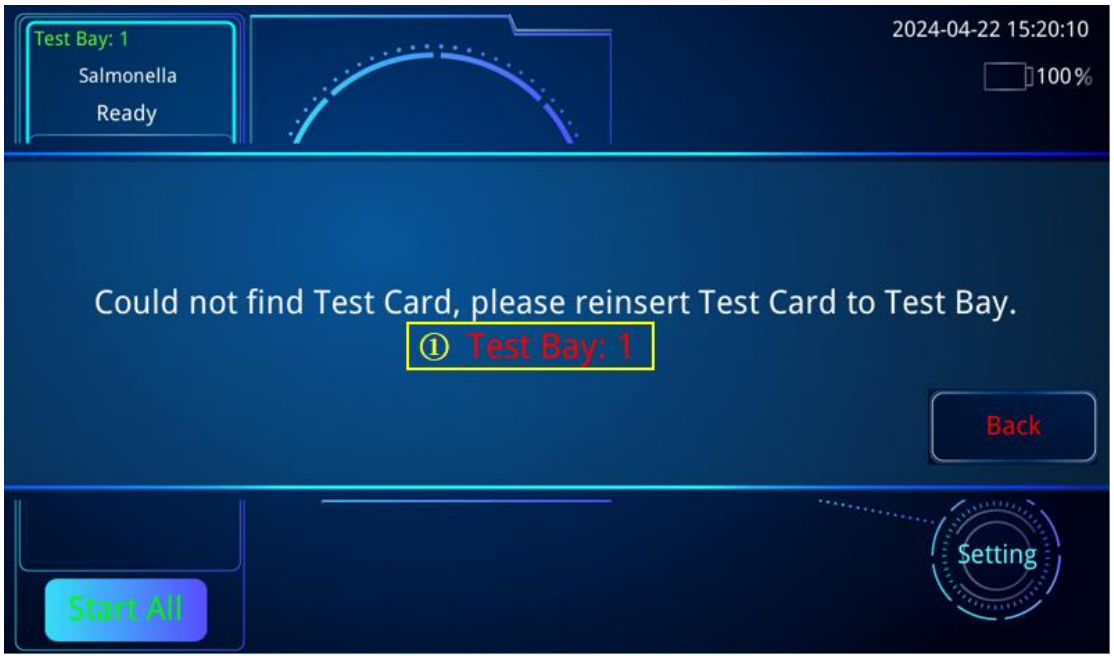


Figure 22 Dialog Box prompting Test Card is Accidentally Removed or Not Inserted Properly before the Task Starts

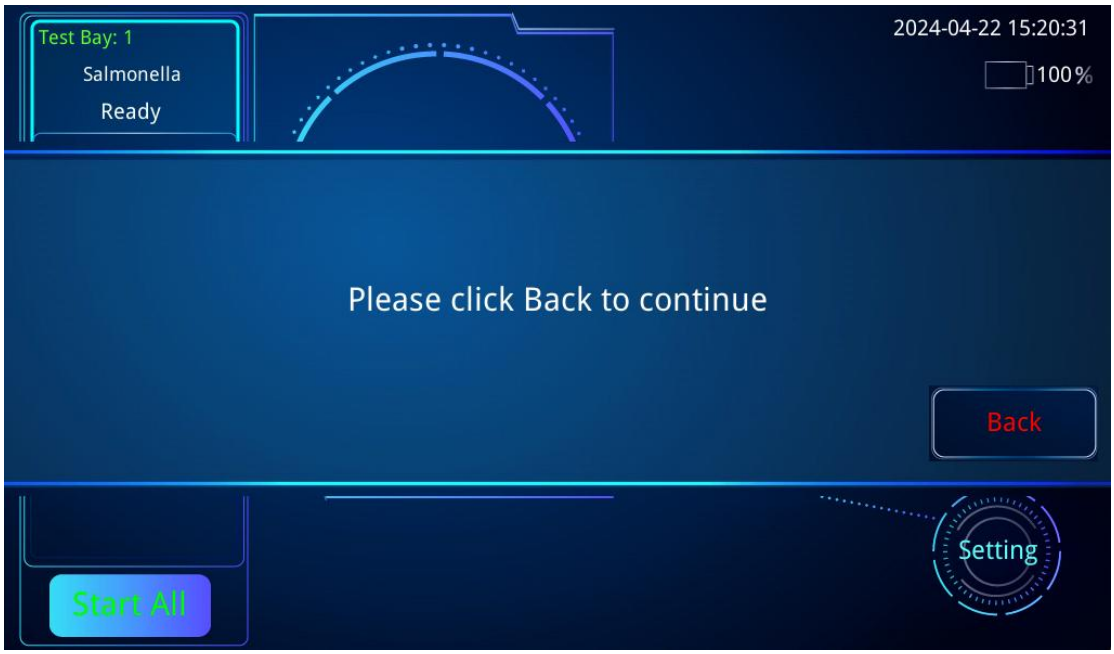


Figure 23 Dialog Box "Please click Back to continue"

3. Test Card is Accidentally Removed or Disconnected During a Task

When the following situation occurs (Figure 24), this Dialog Box indicates that the Test Card has been accidentally removed or disconnected during a task, and the Task has been canceled. In this situation, click the screen to exit this Dialog Box, and the screen will return to the Main Page. If you still want to run this Task, please create a New Task from the beginning by

following the previous instructions.

To avoid this situation, please follow these guidelines:

IMPORTANT! DO NOT remove the Test Card during testing.

IMPORTANT! DO NOT move the instrument during testing.

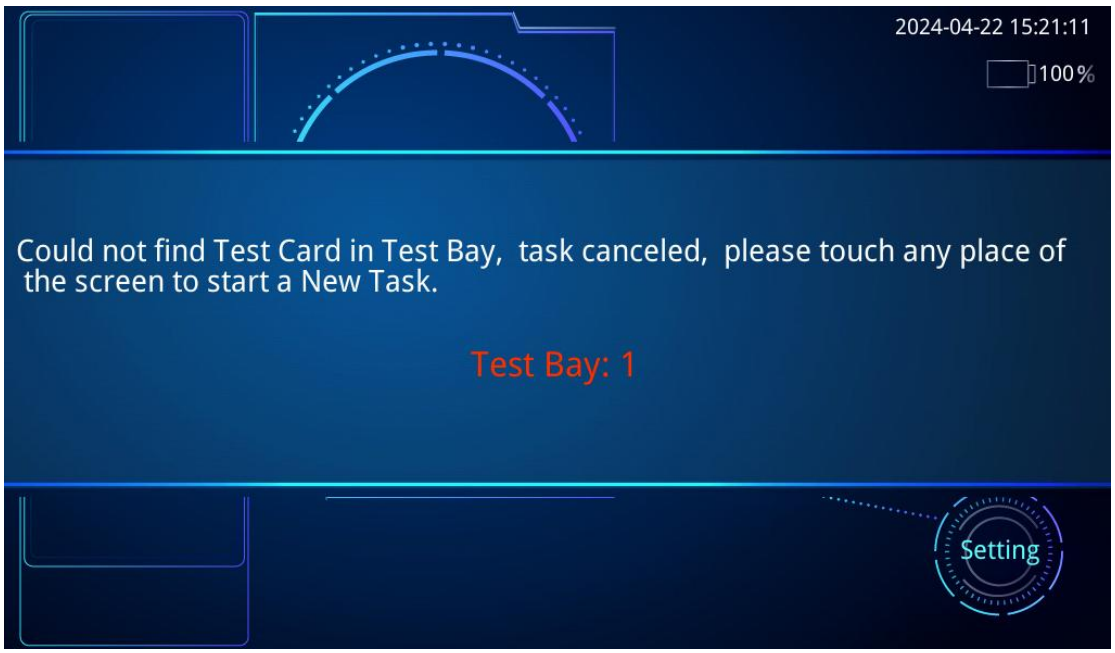


Figure 24 Dialog Box prompting Test Card is Accidentally Removed or Disconnected During a Task

4. The Result Read as "Null"

When the result reads as "Null," it suggests the instrument failed to detect the sample (Figure 25). This could be due to improper operation, no sample loaded into the Test Card, or an insufficient volume of the sample. In this case, the sample should be re-tested.

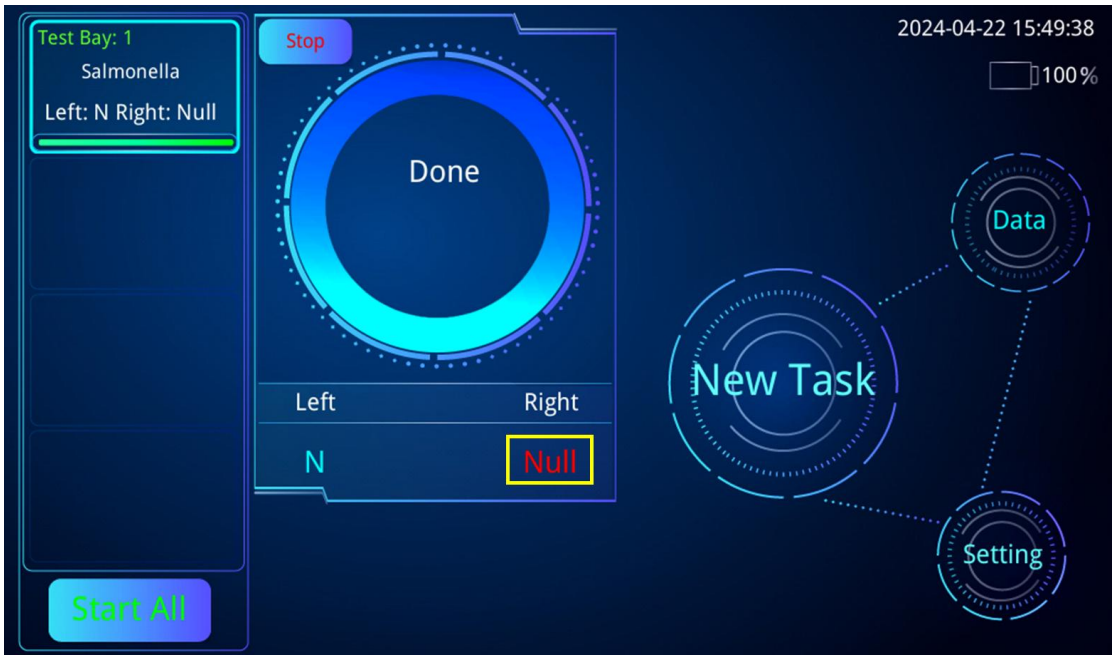


Figure 25 The Result Read as “Null”

Instrument Maintenance

Instrument Cleaning

- The surface of the instrument should be cleaned regularly with a micro fiber based soft cloth dampened with a small amount of clean water, and dried after cleaning.
- If any reagent leaks onto the surface of the instrument, wipe it off and clean with a micro fiber based soft cloth and 75% alcohol, or follow the instructions in the Material Safety Data Sheet (MSDS) of the reagent.

ELECTRICAL SHOCK HAZARD. Touching connections with wet hands may result in electrical shock. Do not clean the instrument without disconnecting the power.

Instrument Protection

IMPORTANT! DO NOT turn the instrument on and off frequently!

IMPORTANT! DO NOT open the instrument without authorization!

Software Update

For software updates, please visit: https://www.trendingmedtech.com/.

Trouble Shooting

Problem	Check and Remedy
No response when powering on the instrument	1. Check if the Power Cord is properly connected.
	2. Ensure the power supply is powered on.
	3. Ensure the Power-On Switch is turned on.

System Specifications

Specification	Value
Machine Net Weight	2000 g
Machine Size	250 mm x 150 mm x 80 mm (length x width x height)
Indicator	TFT color monitor with touch screen, 800 x 480 pixels
Detection Flux	8
Detection Wavelength	400 nm to 800 nm
Operating Ambient Temperature	Room Temperature to 40°C
Storage Temperature	Room Temperature
Working Humidity	< 80% RH, no condensation
Operational Environment	Not suitable for use in explosive environments
WIFI	2.4G, supports IEEE 802.11 b/g/n protocol
PDA	Bluetooth 5, Bluetooth mesh, and WIFI, shared antenna
Input Voltage	176VAC to 245VAC, ADAPTER output 12VDC 5A

Disposables

Table 1 Disposables for the TFS Pro4 Foodborne Pathogen Analyzers

Catalog No.	Product
TC0011	Listeria Monocytogenes LAMP Test Card
TC0021	Staphylococcus aureus (S. aureus) LAMP Test Card
TC0031	Escherichia coli (E.coli) LAMP Test Card
TC0041	Salmonella LAMP Test Card
TC0151	Escherichia coli O157:H7 (EHEC) LAMP Test Card
TCL061	Salmonella & Listeria Monocytogenes LAMP Test Card
TCL071	Salmonella & E.coli LAMP Test Card
TCL081	E.coli & Listeria Monocytogenes LAMP Test Card
TCL091	E.coli & E.coli O157:H7 (EHEC) LAMP Test Card
TCL101	Salmonella & S. aureus LAMP Test Card
TCL111	Listeria Monocytogenes & S. aureus LAMP Test Card
TCL121	E.coli & S. aureus LAMP Test Card

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