MIR
MEDICAL INTERNATIONAL RESEARCH
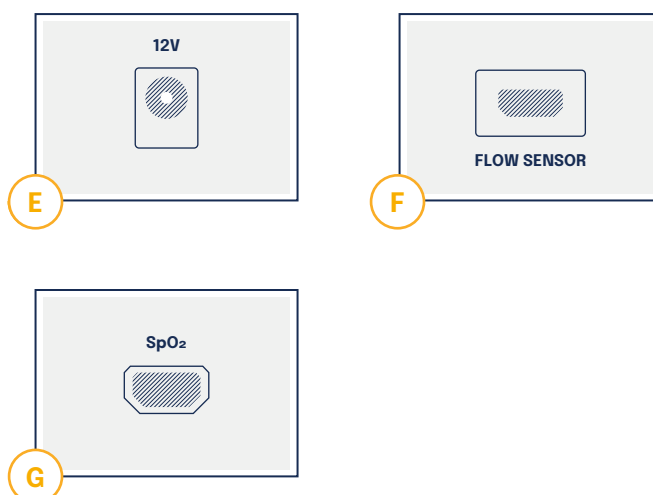
Spirolab
Quick Guide

For more detailed information on any section in this guide please refer to the included user manual.

D   E   F

C   B   A   G

Overview

A   7" touchscreen display

B   Power button

C   Micro USB port (for PC connection)

D   Thermal printer paper container

E   Wall charger port

F   Miniflowmeter port

G   Oximeter port

12V	**FLOW SENSOR**
E	F

SpO₂

G

![MIR logo - MEDICAL INTERNATIONAL RESEARCH]

1. Setting up your device

(A) **CONNECT THE MINIFLOWMETER**

Insert the Miniflowmeter with the black arrow on connector plug facing upward.

(B) **TURNING THE SPIROLAB ON**

To turn the Spirolab on, press the power button on the front of the unit.

The display will automatically show the main screen after a few seconds.

(C) **BATTERY CHARGE**

The battery level is displayed in the upper right corner of the screen.

The symbol turns completely green when the battery is fully charged.

(D) **TURNING THE SPIROLAB OFF**

To turn the Spirolab off, press and hold the power button until the unit shuts down (approximately 5 seconds).

While the device is charging the icon turns blue.

2. Symbols and icons

To access initial settings (service menu)

To enter new patient data

To edit patient data

To access file containing tests performed

To save the settings and return to the main screen

To view the last spirometry session for the current patient

To view the last oximetry session for the current patient

To test oximetry

To test FVC spirometry

To test VC spirometry

To test MVV spirometry

To run a bronchodilator test (POST)

To check the alarms and thresholds set during an oximetry test

To check the oximetry sensor is properly connected during testing

To check the presence of a signal during the oximetry test

To print a test. After clicking it a screen with 3 choices appear:

- print to the internal thermal printer

- to stop the print operation

- to print to an external USB connected printer

Icons displayed during thermal paper loading:

- Press this icon to manually advance the paper if needed

- Tap this icon to pull the paper back into the printer

- Tap this icon when the paper is correctly loaded and installation is complete

To cancel an operation and return to the previous step

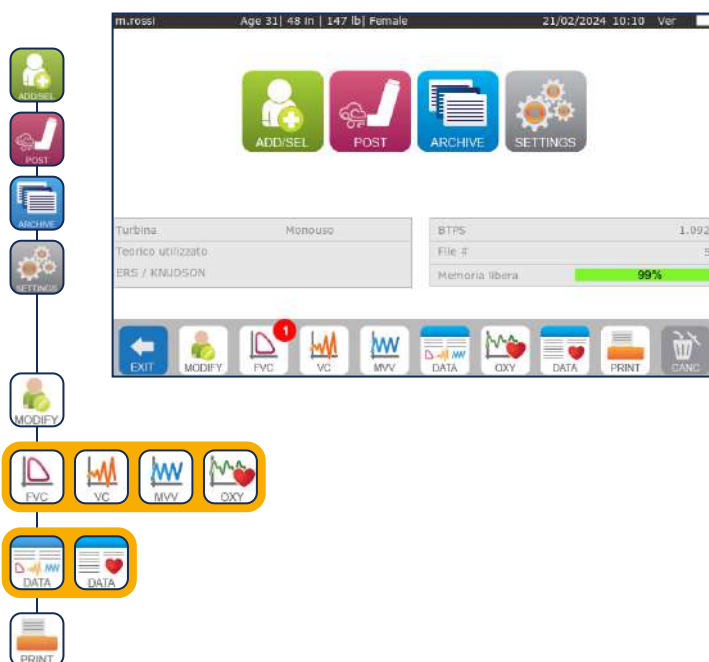To delete a test

To exit without saving

3. Main Screen

From the Main Menu, you can:

- ◦ Add or select a patient
- ◦ Perform a Post-Bronchodilator test (available after 1st FVC)
- ◦ Retrieve results from the archive
- ◦ Access the spirometer's settings

From the icons in the bottom row, you can also:

- ◦ Modify the selected patient
- ◦ Perform a Spirometry or Oximetry test
- ◦ View current session data
- ◦ Print the test results
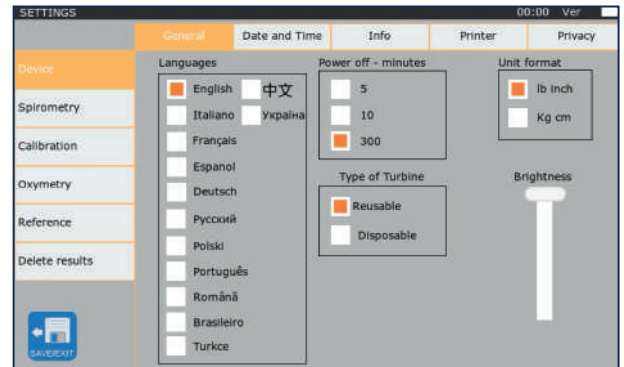
4. Device Settings

The Spirolab comes already configured. However if you need to change any of the configuration follow the steps below.

1 To get into settings touch the **settings icon** and enter the password **1223**.

2 On the left menu you can choose the interested subjects. It will be displayed in orange the selected one.

Moving to the right columns, you can choose the topic you want to edit.
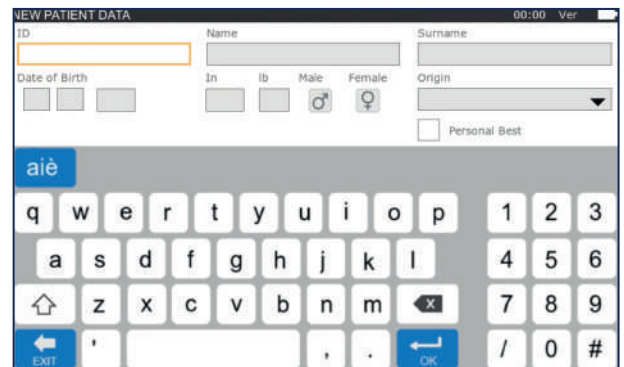

Main settings screen

5. Adding a new patient

1 **To add a new patient**, press the "**ADD/SELECT**" icon.

This brings you to a QWERTY Keyboard where you can enter all your patient's information.

Press the "**OK**" icon to go to the next field or touch inside the next field's box.

2 When you are finished, the "**SAVE/EXIT**" icon must be selected. This will save the information and take you back to the main screen.

3 By selecting the Personal Best option, you can manually enter the patient's best values for FVC, FEV1, and PEF.

Patient data screen

6. Testing

① Select the icon for the test you wish to perform. This will take you to the test screen.

When the test is completed, select the "**SAVE/EXIT**" icon in the lower-left corner to save the results.
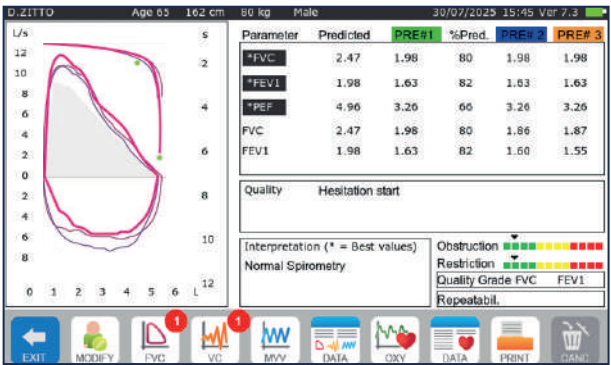
If you do not want to save the results, select the "**CANCEL**" icon in the lower-right corner.

② Once the test is saved, you will be taken to the results screen.

The red number on the "**FVC**" icon indicates how many PRE-FVC tests have been performed for that patient on that day.

Once at least one PRE-FVC test is saved, the POST test will become available.

③ After saving the test, you will automatically be taken to the individual test's results screen.

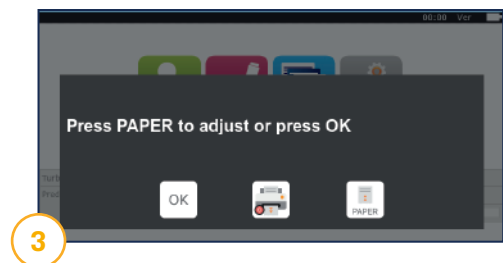**④** To view the full test session results, simply tap the "**DATA**" icon.

Spirometry testing screen with pediatric incentive

⚠ NOTE: The American Thoracic Society requires you to do a minimum of 3 tests to get accurate and repeatable results.

7. Thermal Printer setup

1 Before starting, make sure the Spirolab is turned on.

2 Gently push the compartment door upward to open it.

(See photo)

3 Check if there is any leftover paper stuck inside the printer roller.

If so, gently move the roll to make the paper management screen appear.

(See photo)

Once the screen appears, tap the "**EJECT PAPER**" icon to remove the remaining paper from the printer.

Press PAPER to adjust or press OK

4 Take a new paper roll, unwind a small portion of it, and place it into the holder.

Then, reinsert the roll into its slot.

5 Gently guide the paper end toward the printing mechanism.

The printer will automatically detect the paper and begin feeding it.

(See photo)

6 A dedicated screen will appear on the display. Use the on-screen buttons to align the paper roll correctly.

7 Insert the paper into the slot from which it normally exits during printing, close the compartment door, and tear off any excess paper.

(See photo)

8 Press the "**OK**" button to complete the procedure.

The thermal printer is now ready for use.

8. Printing

You can print test results from the results screen, the data screen, or even directly from the main screen by selecting the "**PRINT**" icon.

NOTE: Using non-original MIR paper rolls or heavier than indicated can irreparably damage the printer.

Internal Printer (Thermal Printer)

To print using the device's built-in thermal printer:

1 Tap the "**PRINT**" icon from any available screen.

2 Select the "**INTERNAL**" icon.

The test results will be printed immediately on the built-in thermal printer.

NOTE: Make sure the paper roll is correctly loaded before printing (see Thermal Printer Setup).

3 If you want to stop printing, press the "**STOP**" button.
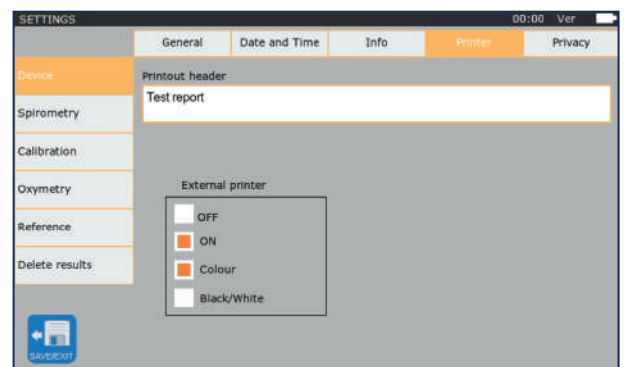
External Printer (USB Connection)

To print using a compatible external printer:

1 First, enable the External Printer option in the Settings menu.

(See photo)

2 Return to the desired screen (e.g., results, data, or main screen) and tap "**PRINT**".

3 Select the "**USB**" icon.

(USB cable include)

The test results will be printed immediately on the external printer.

The external printer must be compatible and properly connected via USB.

9. Archive

1 To navigate the archive, Press the "**ARCHIVE**" icon on the Main Menu.

Here you can:

- **view previous test data** for a specific patient

- **select and retest** a patient already entered into the Spirolab

- **print** previous test data

2 On the Archive screen there are 10 filters you can search by.
Tap the box to the left of each filter to activate it.

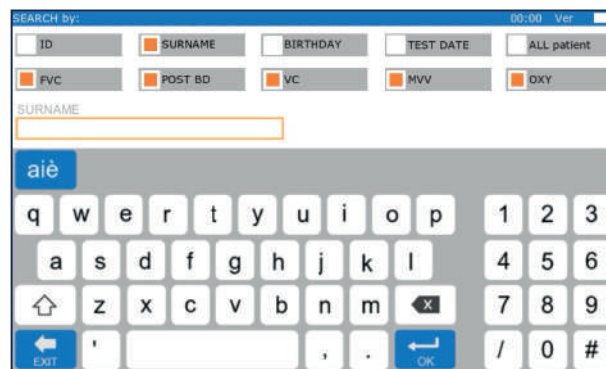**3** Then, press the "**OK**" icon to display the search results.

4 Once the search is completed, the results screen will display a list of patients.
Select the patient you're looking for by tapping their name so that it becomes highlighted in orange.

5 Next, choose one of the icons at the bottom of the screen:

- Tap the test icon to retest the patient

- Tap the data icon to view results

While viewing the data, you can still retest the patient by selecting a test icon.

6 If you choose to retest that patient, a verification screen will appear.
Select "**UNDO**" to return to the search results, or "**OK**" to proceed to the testing screen.
From this moment, that patient will remain selected and will appear on the main screen–even after turning the device off and on again.

Archive screen

Search results screen