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EXFO MAX-720C

EXFO Maxtester MAX-720C-SM1 OTDR User Manual

Model: MAX-720C-SM1 with IOLM Module

1. Introduction

This manual provides essential instructions for the safe and efficient operation, setup, and maintenance of the EXFO Maxtester MAX-720C-SM1 Optical Time Domain Reflectometer (OTDR). The MAX-720C-SM1 is a compact, handheld device designed for fiber optic network testing, featuring an integrated Intelligent Optical Link Mapper (IOLM) function for simplified fiber characterization.

2. Product Overview

The EXFO Maxtester MAX-720C-SM1 is a robust and portable OTDR solution. Its design emphasizes ease of use and durability for field applications.

2.1 Key Features

- Integrated IOLM function for automated link mapping.
- Touchscreen, color, 800 x 480 TFT, 178 mm (7 in) display.
- Compact and lightweight design, less than 800g (2 lbs.).
- Rugged, sealed construction for challenging environments.
- Two USB 2.0 ports for data transfer and connectivity.
- Modular platform for future expandability.

2.2 Device Components

The device includes a high-resolution touchscreen, various ports for connectivity, and a durable casing.

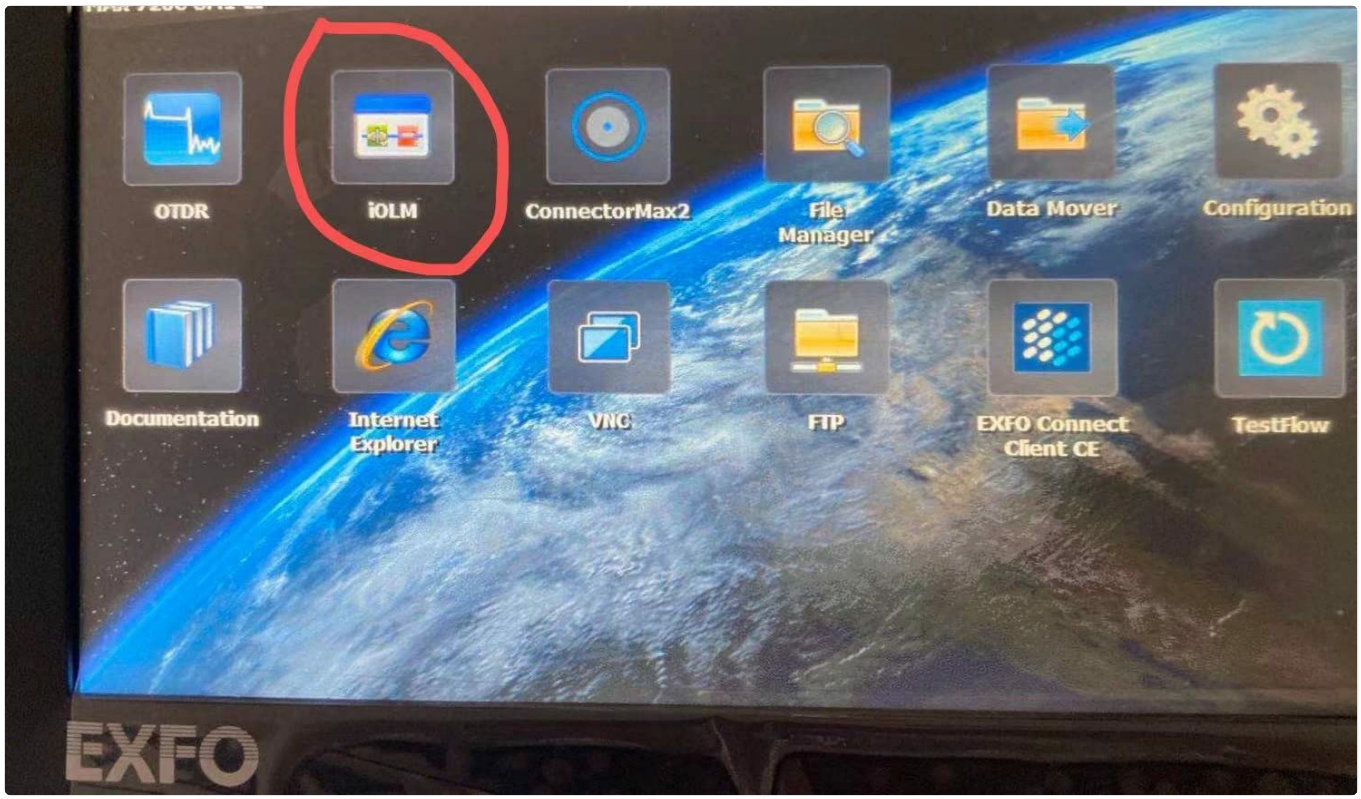


Figure 1: The EXFO Maxtester MAX-720C-SM1 OTDR main unit, showcasing its compact design and large touchscreen display.



Figure 2: The EXFO Maxtester MAX-720C-SM1 unit stored within its protective carrying case, alongside its power adapter and other accessories.

3. Setup

3.1 Unpacking and Inspection

1. Carefully remove the Maxtester from its packaging.
2. Inspect the device for any signs of damage. If damage is found, contact your supplier immediately.
3. Verify that all components listed in the packing slip are present.

3.2 Battery Charging

The device includes a rechargeable 12V battery. Before first use, ensure the battery is fully charged.

1. Connect the provided power adapter to the device's power input port.
2. Plug the power adapter into a suitable electrical outlet.
3. The charging indicator on the device will illuminate. Allow sufficient time for a full charge.

3.3 Powering On/Off

- **To Power On:** Press and hold the power button located on the front panel until the EXFO logo appears on the screen.
- **To Power Off:** Press and hold the power button until a shutdown prompt appears. Follow the on-screen instructions to safely power down the device.

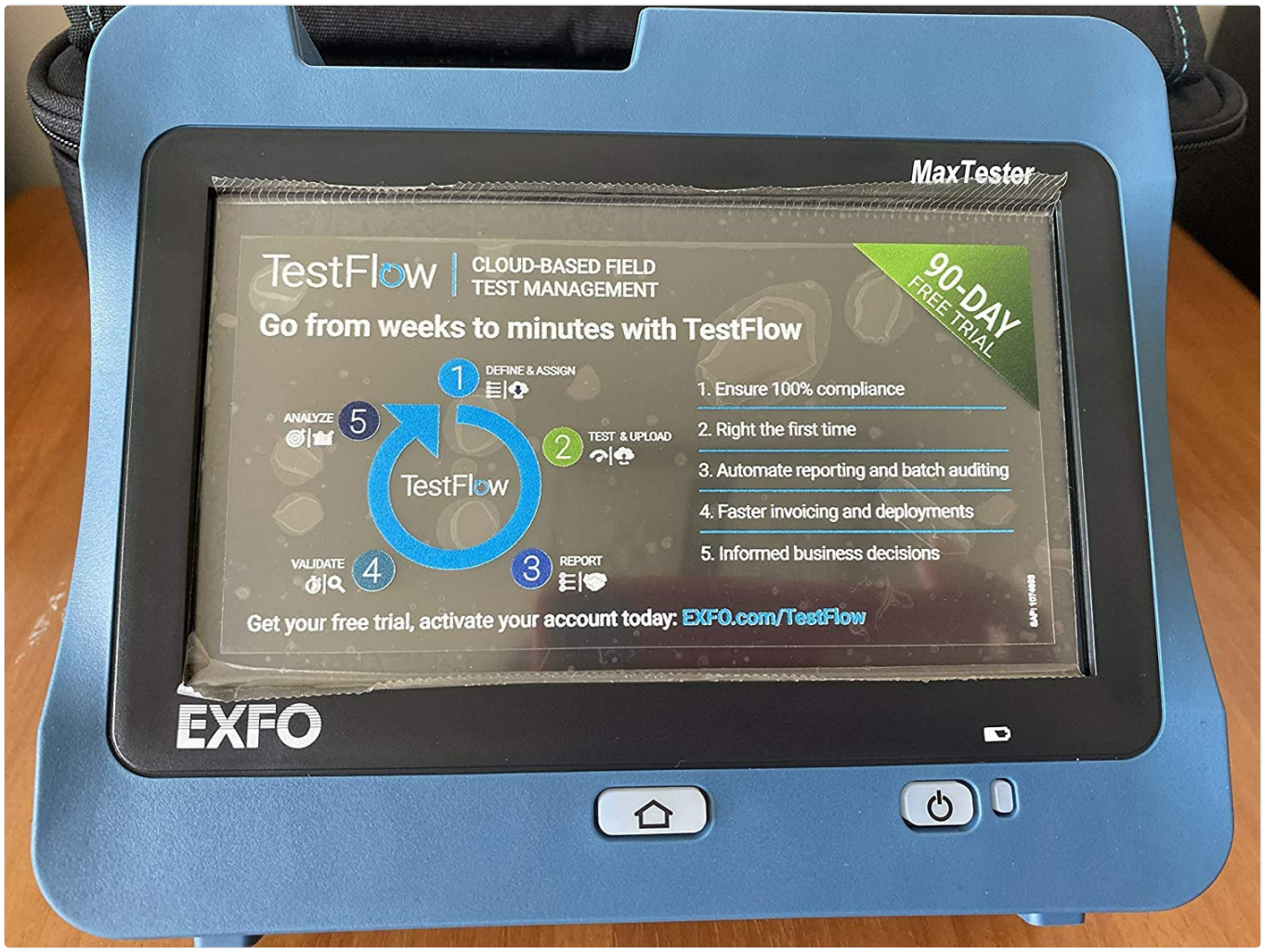


Figure 3: Side view of the EXFO Maxtester MAX-720C-SM1, highlighting the USB ports and the power input port for charging and external connections.

4. Operating the IOLM Function

The Intelligent Optical Link Mapper (IOLM) function simplifies OTDR testing by providing a comprehensive, icon-based view of the fiber link, eliminating the need for complex OTDR trace analysis.

4.1 Accessing the IOLM Application

1. From the main menu or home screen of the Maxtester, locate and tap the 'IOLM' icon.
2. The IOLM application interface will load.



Figure 4: The EXFO Maxtester's touchscreen display, showing the main application icons. The 'IOLM' icon, circled in red, is used to launch the Intelligent Optical Link Mapper function.

4.2 Performing an IOLM Test

1. **Connect Fiber:** Connect the fiber under test to the appropriate optical port on the Maxtester. Ensure connectors are clean.
2. **Select Test Parameters:** Within the IOLM application, select the desired test parameters such as fiber type, wavelength (e.g., 1310/1550nm), and test range. The device often suggests optimal settings automatically.
3. **Start Test:** Tap the 'Start' or 'Measure' button to initiate the IOLM test. The device will perform multiple acquisitions at different pulse widths.
4. **View Results:** Once the test is complete, the IOLM will display a clear, icon-based representation of the fiber link, showing events like connectors, splices, and fiber ends, along with their associated loss and reflectance values.

4.3 Interpreting IOLM Results

The IOLM interface presents a simplified view of the fiber link. Each icon represents a specific event. Tapping on an event icon typically provides detailed information about that event, including its location, loss, and reflectance. The overall link health and pass/fail status are usually indicated clearly on the screen.

5. Maintenance

5.1 Cleaning the Device

- Use a soft, lint-free cloth slightly dampened with water or a mild cleaning solution to clean the exterior casing.
- For the touchscreen, use a specialized screen cleaner and a microfiber cloth.
- Keep optical connectors clean using appropriate fiber optic cleaning tools and procedures to ensure accurate measurements.

5.2 Battery Care

- Avoid fully discharging the battery frequently.
- Store the device in a cool, dry place when not in use for extended periods.
- Charge the battery periodically if the device is stored for a long time to maintain battery health.

5.3 Software Updates

Periodically check the EXFO website for available software updates for your Maxtester. Updates can provide new features, performance enhancements, and bug fixes. Follow the instructions provided by EXFO for software update procedures.

6. Troubleshooting

6.1 Common Issues

- **Device Not Powering On:** Ensure the battery is charged or the device is connected to the power adapter. Try a hard reset by holding the power button for an extended period (e.g., 10-15 seconds).
- **Inaccurate Measurements:** Clean optical connectors thoroughly. Verify correct test parameters are selected in the IOLM application. Ensure launch and receive cables are in good condition.
- **Touchscreen Unresponsive:** Restart the device. If the issue persists, contact technical support.

6.2 Contacting Support

If you encounter issues that cannot be resolved using this manual, please contact EXFO technical support or your local EXFO representative for assistance. Have your device model number and serial number ready.

7. Specifications

The following table outlines the key specifications for the EXFO Maxtester MAX-720C-SM1.



Figure 5: The product label on the EXFO Maxtester MAX-720C-SM1, displaying the model number (MAX-720C-SM1-EI), serial number, and manufacturing details.

Specification	Value
Model Number	MAX-720C
IOLM Function	Included
Wavelengths	1310/1550nm
Dynamic Range	37/35dB
Display	7-inch color TFT touchscreen, 800 x 480
Connectivity	Two USB 2.0 ports
Power Source	Battery Powered (1 x 12V battery included)
Item Weight	12 Pounds (approx. 5.44 kg)
Product Dimensions	19.29 x 11.42 x 15.35 inches
Manufacturer	EXFO

8. Warranty and Support

For detailed warranty information, please refer to the warranty card included with your product or visit the official EXFO

website. EXFO provides technical support and service for its products.

8.1 Obtaining Support

To obtain technical support or service, please contact EXFO directly through their official website or the contact information provided in your product documentation. When contacting support, please have the following information readily available:

- Product Model: EXFO Maxtester MAX-720C-SM1
- Serial Number (found on the product label)
- Description of the issue

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

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