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PT-Scope-200 Fiber Inspection Probe User Manual

Foreword

Thank you for choosing the Platinum Tools PT-Scope-200 Fiber End-Face Inspection Probe. Please read this manual carefully before use and retain it for future reference.

Notice

This manual may be updated periodically due to product improvements or software updates.

Disclaimer

This document serves as a general guide for using the PT-Scope-200. Statements herein do not constitute any express or implied warranties. Platinum Tools reserves the right to interpret and revise this manual without notice.

Safety Warnings

➢ Do not disassemble the product without authorization.
➢ Do not use near open flames or heat sources.
➢ Avoid high temperature, humidity, magnetic fields and radiation environments.
➢ Use only the power adapter supplied with the unit.

Environmental Reminder

Recycle packaging responsibly per local regulations.
Contains a lithium battery. Dispose of properly according to local laws.
Turn off power when not in use to extend battery life.

Product Overview

The PT-Scope-200 is a WiFi-enabled fiber inspection probe capable of capturing high-resolution, real-time images on smart devices.
It supports both WiFi and USB operation and is compatible with Android and iOS platforms.

Key Features

➢ 200x magnification for clear, high-resolution images
➢ Wide variety of interchangeable inspection tips
➢ Auto analysis and result saving
➢ Compact, ergonomic design
➢ Long-lasting polymer lithium battery

Applications

➢ 5G fiber network installation and maintenance
➢ Data center inspections
➢ High-reliability fiber connection validation
➢ R&D and manufacturing environments

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Product Diagram

- Interchangeable Tip
- Focus Adjustment Ring
- Capture Button
- WiFi/USB Toggle Switch
- Power Switch
- USB Port
- Battery Level Indicator
- WiFi Status Indicator

Included Accessories

- PT-Scope-200 Unit
- USB Cable
- Charging Adapter
- Standard Tip Set: SC/FC/ST/E2000 UPC, LC/MU UPC, SC APC, LC APC
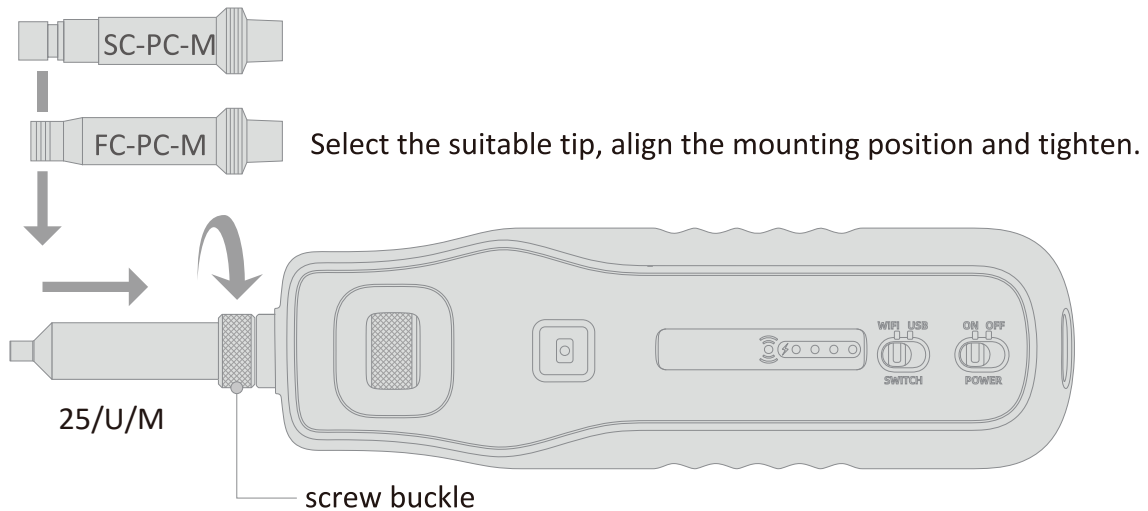- User Manual

Specification

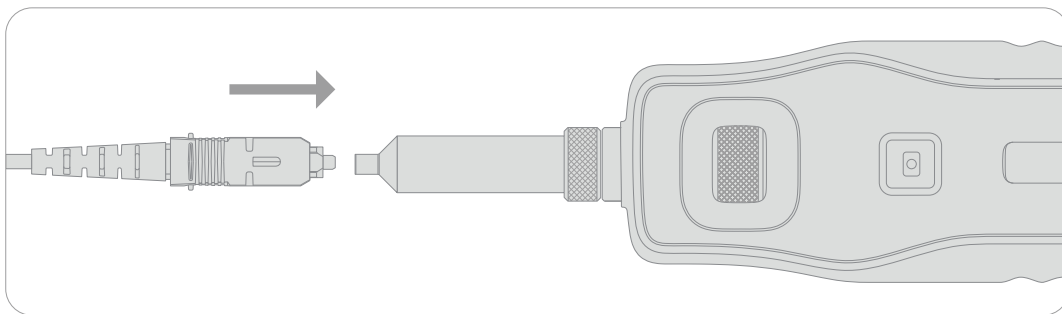| Feature	Specification
Magnification	200X
Lens Resolution	0.75µm
Image Resolution	1280x1024
Focus Type	Manual
Focus Range	4mm
Interface	USB Type-C
Connectivity	WiFi / USB 2.0
Battery Capacity	1600mAh
Runtime	~3 hours
Operating Temp	-20°C to +50°C
Weight	~200g

Getting Started

- Select and install the correct inspection tip.
- Power on the device.
- Switch to WiFi mode (red LED will flash).
- On your smart device, connect to the WiFi SSID "TQ_XXXX".
- Launch the PT-Scope App (Android/iOS) and begin inspection.
- Adjust focus as needed. Press the capture button to save images.

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Operation Instruction

Installing tips on probe

SC-PC-M

FC-PC-M   Select the suitable tip, align the mounting position and tighten.

25/U/M

WIFI USB   ON OFF
SWITCH   POWER

screw buckle

Inspection

➢   Turn on the power
➢   Switch to WIFI and connect the intelligent devices (ref. to App manual)
➢   Insert connector
➢   Adjust the focus to make image clear
➢   Press capture if image save is needed.
➢   Notice
➢   During usage, please try to keep the connector and lens on the same horizontal line, do not shake it forcibly to avoid damage to the components
➢   Keep charging the built-in battery regularly when not for a long time;
➢   In case of battery leakage please stop using the product.

App Operation Guide

Main Interface: Displays live image, file path, and control buttons.
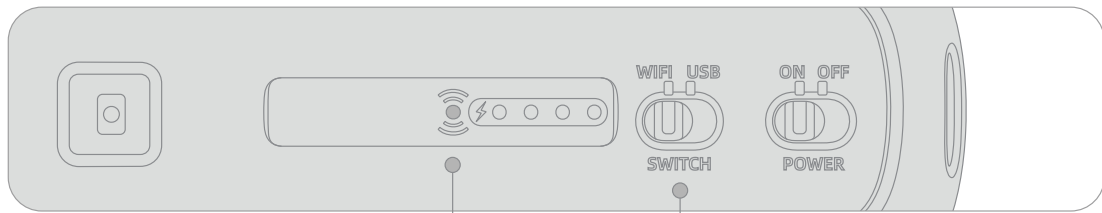
Introduction

The inspection App (Android or iOS) is software use with WIFI probe. It mainly includes the functions of observation, setting, detection and photographing. The app icon is shown on the right.

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PT-SCOPE-200

Inspection Scope

Preparation

1. Install the App;
2. Connect the WIFI network;
   2.1 Make sure to switch to WIFI, the red LED flashes.

WIFI indicator flashes   Make sure to switch to WIFI

2.2 Enter the WLAN setting of the android devices (mobile/tablet) turn on the WLAN, find the link named TCH_XXXX and connect.

➢ Test Function: Captures image for auto analysis. If the image is unclear, refocus and retry.
➢ Result Display: Shows pass/fail based on selected parameters.
➢ Parameter File: Allows creation of test profiles including sensitivity and fiber type.
➢ Save and Photograph: Save current view or captured image to your album.

In figure 2.1, the WIFI device is TCH-XXXX. "TCH" is the unified starting character, the following four digits "XXXX" are random number to distinguish different devices in the same scene
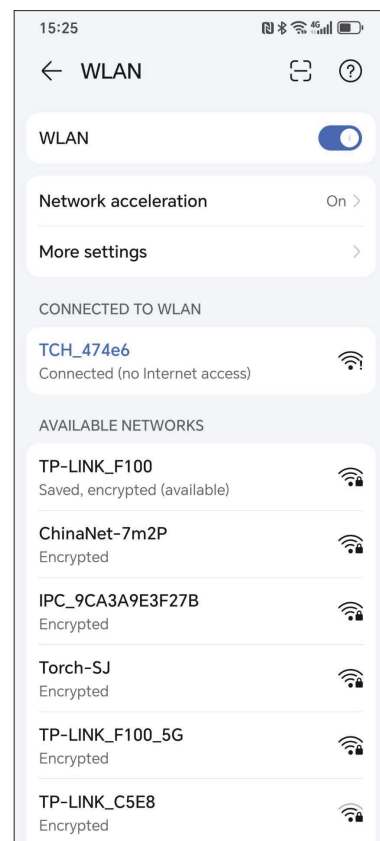

Figure 2.1

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Software Operation Guide

Main Interface

As shown in figure 3.1 the main interface includes 3 zones:

Zone 1 – Camera and file path.

Zone 2 – Image display
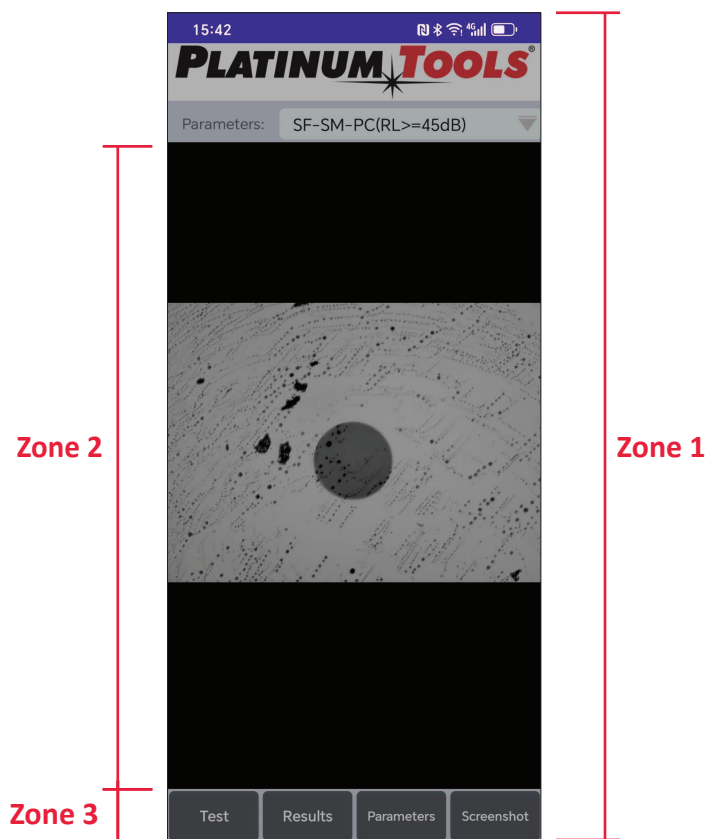
Zone 3 – Function buttons

Figure 2.1

Function

2.1 Zone 1 – Camera and Configurations

Camera Choose:

Here are two cameras available to choose, Camera 1 and Camer 2. They have different requirements for image algorithms.
The default setting in Camera 1.

Support

- ➢ Platinum Tools Technical
- ➢ Support Website: www.platinumtools.com
- ➢ Email: support@platinumtools.com