

FIM-18 Hand-held Probe



User Guide

Foreword

Thank you for purchasing our products. Before assembly and use, make certain that all of the parts you have ordered are present. Check the packaging carefully as some parts are small and can be overlooked. Also, locate any additional parts and accessories you may have purchased.

Safety Conventions

You should understand the following conventions before using the product described in this manual.

CAUTION

Refers to a potential *product* hazard, it requires a procedure which, if not correctly followed, may result in component damage. Do not proceed unless you understand and meet the required conditions.

Introduction

FIM-18 Hand-held Probe Introduction

The FIM-18 **Hand-held Probe** is a portable, video microscope used to inspect fiber optic terminations. More specifically, it is used to inspect hard-to-reach connectors that are installed on the “backside” of patch panels or inside hardware devices. It eliminates the need to access the backside of patch panels or disassemble hardware devices prior to inspection.

Available Applications

- **Patch Panel Inspection**

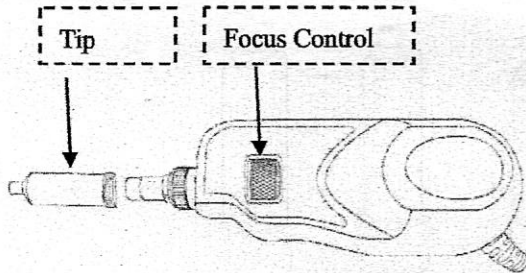
Many patch panels are designed to allow the front connector to be easily inspected, but the back one is often difficult to access. Inspecting the connector on the front side of the panel can usually be performed with a simple fiber inspection microscope. However, the back connectors are not as easily inspected with traditional microscopes, thus requiring time-consuming troubleshooting. The FVM104 offers a fast and effective means of installing, troubleshooting or maintaining fiber optic patch panels.

- **Inspection of Cable Assemblies**

When Video Inspection Probe is equipped with proper Adapter Tip, you can also inspect patch cords, pigtails, and cable assemblies.

Structure/Parts

A. Probe



This probe utilizes a Digital CMOS, which outputs an USB signal.

a 1. Barrel Assembly

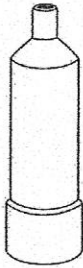
The barrel assembly houses the optics which accommodates different adapters, such as FC, SC, ST, LC, E2000, MTRJ and other customized PC or APC adapters.

a 2. Focus Control

The default setting of magnification is 400x. When the figure shows on monitor, screw the focus control to make it clearest.

C. Standard Tips

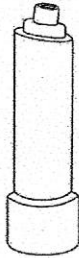
Structure/Parts



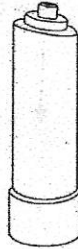
25-U-M



125-U-M



25-A-M



125-A-M



FC/SC-U-F



LC-U-F-01

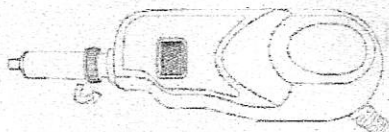


SC-A-F

Installation

Tip Assembly

Installing Tips on Probe



Assembly & Tip Installed Standard

Step 1

Locate tip you want to install and look at the threaded end. This screw acts as a "key" and is already mounded with the Key Channel. DO NOT try to screw the Key Channel off from the threaded Key, which might destroy the whole probe.

Step 2

Slightly screw the Key that you need onto the Key Channel.

General Information

Technical Specifications

Inspection Probe

Resolution Ratio 1.0 μ m

Output USB signal

Application

Adapter Type	Description
25-U-M (2.5mm UPC Male)	FC/SC/ST/E2000 patch cord UPC termination
125-U-M (1.25mm UPC Male)	LC/MU patch cord UPC termination
25-A-M (2.5mm APC Male)	FC/SC/ST/E2000 patch cord APC termination
125-A-M (1.25mm APC Male)	LC/MU patch cord APC termination
25-U-F (2.5mm UPC)	FC/SC/ST/E2000 UPC bulkhead
LC-U-F (LC UPC Female)	LC UPC bulkhead
SC-A-F (SC APC Female)	SC APC bulkhead
FC-A-F (FC APC Female)	FC APC bulkhead
LC-A-F (LC APC Female)	LC APC bulkhead

Other Parts

Weight 0.6 kg

General Information

Work/Storage Temp. -20°C~+50°C / -30°C~+60°C

Warranty

We warrant this equipment against defects in material and workmanship for a period of one year from the date of original shipment. We also warrant that this equipment will meet applicable specifications under normal use. During the warranty period, we will, at our sole discretion, repair or replace for any defective product free of charge should the equipment need to be repaired.

IMPORTANT

The warranty will become null and void if

- **the equipment has been tampered with, repaired, or worked upon by unauthorized individuals.**
- **the warranty label has been removed.**
- **product enclosure screws, other than those specified in this manual, have been removed.**
- **the product enclosure has been opened, other than as explained in this manual.**
- **the equipment serial number has been altered, erased, or removed.**
- **the equipment has been misused, neglected, or damaged by accident.**