

# SSF-MICROV-250X Video Microscope

## Instruction Manual



[www.cleerlinefiber.com](http://www.cleerlinefiber.com)

# SSF-MICROV-250X

## WARNING

To avoid the risk of eye damage, never look directly into optical fibers or light sources when active.

## KIT CONTENTS

- 1 ea handheld probe with cable
- 1 ea LCD display screen
- 1 ea DC/AC power adapter
- 1 ea SSF-1CLCK-LC 1.25 mm One-Click Type Cleaner, LC
- 1 ea SSF-1CLCK-SC 2.5 mm One-Click Type Cleaner, SC

### Adapter Tips

- 1 ea SC/ST/FC E2000 UPC connector adapter (male)
- 1 ea LC UPC connector adapter (male)
- 1 ea SC/ST/FC E2000 UPC bulkhead adapter (female)
- 1 ea LC UPC bulkhead adapter (female)

**View instructions and video online at [cleerlinefiber.com/resources](http://cleerlinefiber.com/resources).**

# SSF-MICROV-250X

## INTRODUCTION

The SSF-MICROV-250X is a portable video microscope kit intended for the verification of fiber optic terminations. Use the SSF-MICROV-250X to inspect installed connectors, including those in patch panels or inside hardware devices. The included handheld probe has adapter tips for use with LC UPC and SC UPC connectors (male), as well as LC UPC and SC UPC bulkheads (female). The bulkhead adapters (female) can be used to access patch cables connected at the rear of bulkheads or adapter plates.

## Applications

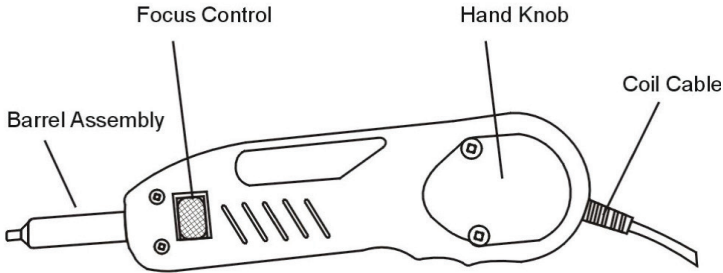
- Patch panel inspection, including connectors installed on the front and the back of patch panels
- Inspection of cable assemblies, including patch cables, pigtails, and cable assemblies

## Specifications

Type	Description
Battery	3.7 V, 4500 mA 5V/1A rechargeable Li Battery
Monitor	0.30 kg / 0.67 lbs 14.5 x 7.5 x 4 cm / 5.7 x 3.0 1.6 in
Operation/Storage Temperature	-20°C - +50°C / -30°C - + 60°C

## PARTS

### Handheld Probe



This probe utilizes an analog CCD, which outputs an NTSC or a PAL signal. The signal is routed through a 4-pin connector that routes power into the probe and video signal out of the probe. This unit is suitable for use with the handheld LCD display.

### Barrel Assembly

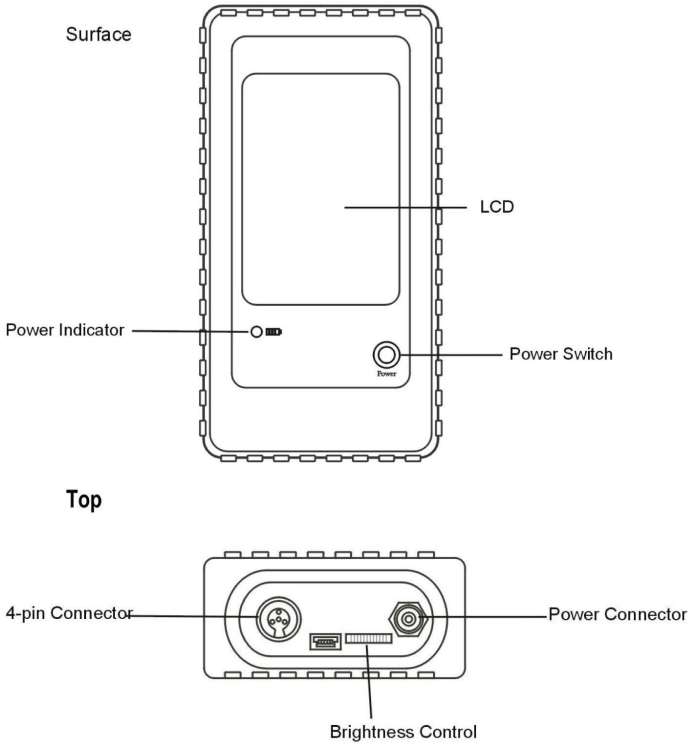
The barrel assembly houses the optics. LC, SC, ST, FC, E2000, MTRJ and other customized PC or APC adapters are compatible.

### Focus Control

The default magnification is 250x. When the endface image appears on the display, adjust the focus control to sharpen the image.

## PARTS

### LCD Display



The display can be powered using the 110-240V DC/AC power unit or with the included rechargeable lithium-ion battery. The DC/AC adapter can power the display and charge the battery simultaneously.

This unit accepts video input from the kit's PAL/NTSC formatted probe.

# SSF-MICROV-250X

## PARTS

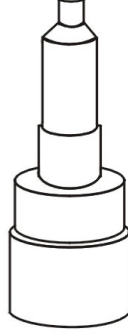
### Adapter Tips



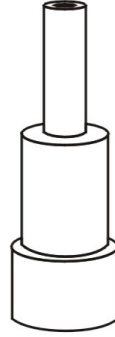
25-U-M



125-U-M



25-U-F

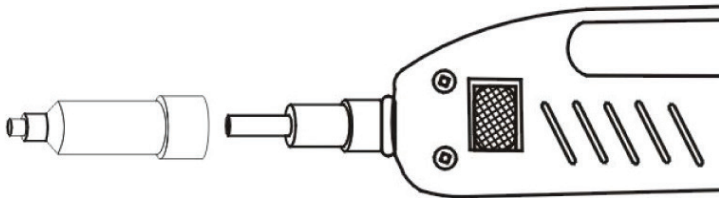


LC-U-F

Adapter Type	Description
25-U-M	SC/FC/ST/E2000 connector, UPC
125-U-M	LC/MU connector, UPC
25-U-F	SC/FC/ST/E2000 bulkhead, UPC
LC-U-F	LC bulkhead, UPC

## OPERATION

### Adapter Tip Installation



Select desired adapter tip. Screw adapter tip onto handheld probe barrel. Do not over-tighten.

**Note:** Do not attempt to turn or unscrew the barrel assembly of the handheld probe. This can damage the whole unit.

### Connecting the LCD Display

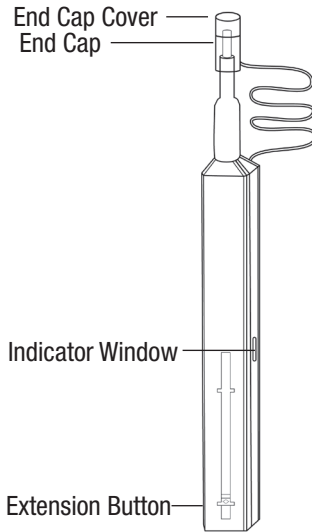
**Step 1:** Connect probe cable to the 4-pin connector at the top of the display unit.

**Step 2:** Connect the AC power adapter/charger if necessary.

**Step 3:** Push On/Off button to activate display screen.

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## OPERATION



### One-Click Type Fiber Optic Cleaner

**Note:** Do not touch cleaner tip.

### Connectors in Adapters (Bulkhead)

Remove end cap. Insert cleaner into connector. Push until the cleaner clicks. Do not angle cleaner.

### Connectors Not in Adapters

Open end cap cover. Do not remove entire end cap. Insert connector into cleaner. Push until cleaner until the cleaner clicks. Do not angle cleaner.

### Extending Nozzle

Depress black button on side of cleaner and pull nozzle to extend.

### Indicator Window

White: Full

Red: Empty. Note: cleaner tip will appear black. Do not use when empty.



## 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.

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 accidentally damaged