# FM-C Field Microscope

## Coaxial Illumination Handheld Optical Microscope for Fiber Inspection



**Key Features**

- Rugged, ergonomic design for field use
- LED illumination for 100,000+ hour life
- Coaxial illumination for the highest level of detail; most critical view of fiber end face cleanliness and condition
- Integrated laser safety filter

### FM-C Field Microscope

The FM-C-series microscopes use **coaxial illumination** to provide users with maximum detail. It easily can detect the finest scratches and contamination, making it ideal for critically inspecting polish quality. It is available in 100, 160, 200, 320, or 400X magnification models that use energy-efficient light emitting diode (LED) illumination to provide 100,000+ hours of lamp life. The rubber boot provides a slip-resistant grip; while the built-in laser safety filter provides a high level of attenuation at the most common wavelengths for accidental viewing of live fiber. Its durability, ergonomic design, optical performance, and ease-of-use make it the optical instrument of choice for viewing fiber terminations in sensitive installations.
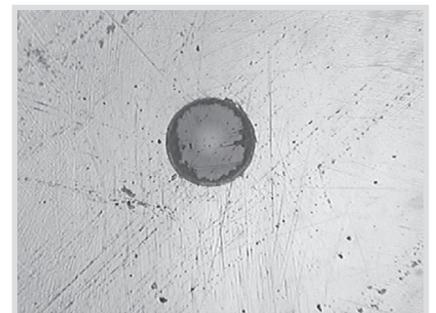
The JDSU FM-C microscopes use FMA-series adapters that let users inspect various connector types.

### Applications

- Inspect patch cord (male) side of fiber interconnect
- Inspect various connector types with a wide selection of interchangeable adapters

### Coaxial Illumination

Coaxial illumination provides the most critical view of fiber end face conditions while maximizing details. In this method, light travels along the same axis as the sample inserted, producing a highly detailed image of fine scratches and contamination.

## FMA Adapters

**FMA-U12**

Inspects Universal 1.25 mm patch cords

**FMA-U25**

Inspects Universal 2.5 mm patch cords

**FMA-MTP**

Inspects MTP® (multi-fiber) patch cords

*For a complete list of FMA adapters, go to www.westoverfiber.com.*

## Laser Safety

JDSU fiber microscopes include a laser safety feature to help prevent damage to the eye if a user accidentally views live fiber. Under no circumstances should a user purposely view live fiber with any optical microscope, as it poses significant risk of damage to the eye.

FMA Adapter & Fiber Input     Backlight Input     Rubber Grip     Eyepiece

Battery Compartment     ON/OFF Button

## FM-C Specifications

| | |
|---|---|
| Dimensions | 24.0 x 5.5 x 3.7 cm (9.4 x 2.2 x 1.5 in) |
| Weight | 0.45 kg (1.0 lbs) |
| 100X Magnification field-of-view (FOV) | 1050 µm |
| 160X Magnification FOV | 1050 µm |
| 200X Magnification FOV | 950 µm |
| 320X Magnification FOV | 540 µm |
| 400X Magnification FOV | 475 µm |
| Infrared (IR) attenuation filter | Built-in |
| Power source | Three AAA alkaline batteries |
| LED life | 100,000 hours |
| Warranty | 1 yr |

## Ordering Information

| | |
|---|---|
| FM-C100 | 100X coaxial illumination field microscope; 2.5 mm FMA adapter |
| FM-C160 | 160X coaxial illumination field microscope; 2.5 mm FMA adapter |
| FM-C200 | 200X coaxial illumination field microscope; 2.5 mm FMA adapter |
| FM-C320 | 320X coaxial illumination field microscope; 2.5 mm FMA adapter |
| FM-C400 | 400X coaxial illumination field microscope; 2.5 mm FMA adapter |
| FM-C99 | 200X and 400X coaxial illumination fiber microscope; 2.5 mm FMA adapter |
| FM-CX100 | 100X coaxial illumination field microscope |
| FM-CX160 | 160X coaxial illumination field microscope |
| FM-CX200 | 200X coaxial illumination field microscope |
| FM-CX320 | 320X coaxial illumination field microscope |
| FM-CX400 | 400X coaxial illumination field microscope |
| FM-CX99 | 200X and 400X coaxial illumination fiber microscope |

## Test & Measurement Regional Sales