

# Handheld Field Inspection Microscope

A LANscape®  
Solutions Product

## features and benefits |

<b>Small size and rugged construction</b>	Ideal for field use
<b>Built-in laser safety filter</b>	Safety in case of accidental viewing of active fiber
<b>LED lamp</b>	Extended life span
<b>Coaxial and oblique illumination</b>	Ease of inspection for scratches and debris



200FM Microscope | Photo NS141



400FM Microscope | Photo NS142

The Corning Cable Systems handheld microscopes make connector end-face inspection easy and convenient with immediate visual feedback to increase connector-polishing productivity during installation. Also ideal for troubleshooting contamination issues, the small size and rugged construction make these microscopes excellent for field use. Each comes with a soft carrying case and a universal 2.5 mm adapter for viewing most common connectors. A 1.25 mm universal adapter can be purchased separately and an array of connector-specific adapters is available for securely attaching the connector under inspection to the microscope. The microscopes have a built-in laser safety filter that provides a high level of attenuation at the most common laser wavelengths in case of accidental viewing of an active fiber.

Both the 200FM and 400FM microscopes incorporate an LED designed to provide 100,000 hours of lamp life while using minimal battery power. Illumination of the connector end-face is achieved through two different lighting techniques - oblique and coaxial. Coaxial illumination provides the most critical view of fiber end-faces by rendering scratches highly visible. Oblique illumination allows for viewing of contamination and debris but makes faint scratches not as visible. Typically, the coaxial lighting is used for debris inspection, while the oblique lighting is used during connector installation to avoid over-polishing the connector end-face. NOTE: This test equipment is classified as a Category 9 item under RoHS (Directive 2002-95-EC) and is exempt from the restriction.

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## specifications |

	200FM	400FM
<b>Optical Magnification</b>	200X	400X
<b>Illumination</b>	Coaxial and Oblique	Coaxial
<b>Dimensions (H x W x D)</b>	19.0 x 5.1 x 3.2 cm (7.5 x 2.0 x 1.25 in)	22.9 x 6.4 x 3.8 cm (9.0 x 2.5 x 1.5 in)
<b>Shipping Weight</b>	0.21 kg (0.46 lb)	0.5 kg (1.1 lb)
<b>Battery Type</b>	(3) Button cell alkaline (LR44/SR44)	(3) AAA alkaline
<b>Field of View</b>	900 µm	475 µm
<b>Warranty</b>	1 year	1 year
<b>Operating Temperature</b>	-18° to +50°C (0° to +122°F)	
<b>Storage Temperature</b>	-40° to +60°C (-40° to +140°F)	
<b>Illumination</b>	LED; Rated Life: 100,000 hours	

## ordering information |

Part Number	Description
<b>200FM</b>	200x Microscope with coaxial and oblique illumination; batteries, FMFA-U25 adapter, case and manual
<b>400FM</b>	400x Microscope with coaxial illumination; batteries, FMFA-U25 adapter, case and manual
<b>Accessories</b>	
<b>FMFA-U12</b>	Universal Adapter, for any 1.25 mm ferrule (LC, MU, etc)
<b>FMFA-U25</b>	Universal Adapter, for any 2.5 mm ferrule (SC, ST® Compatible, FC, etc)
<b>FMFA-UAPC</b>	Universal APC Adapter, for any 2.5 mm APC ferrule
<b>FMFA-ST</b>	Connector Specific Adapter, ST® Compatible adapter
<b>FMFA-FC</b>	Connector Specific Adapter, FC adapter
<b>FMFA-SC</b>	Connector Specific Adapter, SC adapter
<b>FMFA-LC</b>	Connector Specific Adapter, LC adapter
<b>FMFA-MTP</b>	Connector Specific Adapter, MTP® Connector adapter with panning knob
<b>FMFA-MTRJ</b>	Connector Specific Adapter, MT-RJ adapter
<b>FMFA-BF1</b>	Bare Fiber Adapter, for viewing a bare fiber cleave
<b>FMFA-RFC1</b>	Bare Ribbon Adapter, for viewing a bare ribbon cleave

Note: These adapters can be used with the 200FM, 400FM LSCOPE-9 (obsolete) and CSCOPE (obsolete) microscopes..

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