

# Autofocusing Ultra High-Resolution Fiber End Scope



DATASHEET

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The FSCO 500 video is a high-performance tool that integrates several essential functions to make fiber connector inspection convenient and accurate. The microscope offers ultra-clear images of all types of fiber connector's ends with a unique blue LED illumination design that improves contrast on minor scratches. Autofocusing is activated by a pushbutton or foot switch, eliminating the need for delicate manual adjusting, which frustrates many people. Moreover, it has dual magnifications to examine both the details of the fiber core and the entire connector surface. The two images of different magnifications are displayed either on the main display alternatively with a pushbutton switch or on two screens simultaneously. The unit has a USB interface with a computer to record images with a bar code function as well as to automatically determine the surface defect level to pass or fail according to a settable QA standard. The unit has over 40 adaptors for various connectors. In addition, to inspect all of the standard connectors, It accommodates bare fiber inspection with a precision sliding fiber clamp that is also used in PM fusion splicers. It is ideally suited to check the polarization and maintain fiber stress field orientation.

## Features

- 400X High Resolution
- Autofocusing Activated by a Foot Switch
- Magnification Switch for Fiber Core or Full Connector Surface
- Dual Display Option for Fiber Core and Full Connector Surface
- Clear Illumination Optics
- Rechargeable Battery for >3 hr Portable Application
- USB PC Interface with Bar Code and Automatic Pass/Fail Determination
- PM Stress Field Key Examination
- All Connector Adaptors/Bare Fiber

## Specifications

Parameter	Min	Typical	Max	Unit
Magnification	400X/80X			
Screen Size	9			inch
Connector Type	LC, LC/APC, FC, FC/APC, SC, MPO			
Bare Fiber Adaptor	125			µm
Operating Temperature	-5		50	°C
Storage Temperature	-40		85	°C
Dimensions	1.8(OD) x 6.5 - 7.2(L)			mm
Weight	3			lb

## Applications

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### Ordering Information

Prefix	Type	Dual Screen	Defect Auto Software	Battery	Bare Fiber Adaptor	Connector*	Connector*	Connector*	Connector*
FSCO-	500 = 5	No = 2 Yes = 1	No = 2 Yes = 1	No = 2 Yes = 1	No = 0 Yes = 1	General = 1 FC/PC = 2 SC = 4 ST = 6 LC/PC = 7 Duplex LC/PC = 8 MPO = 9 FC/APC=A LC/APC=B Special=0	General=1 FC/PC=2 SC=4 ST=6 LC/PC=7 Duplex LC/PC=8 MPO=9 FC/APC=A LC/APC=B Special=0	General=1 FC/PC=2 SC=4 ST=6 LC/PC=7 Duplex LC/PC=8 MPO=9 FC/APC=A LC/APC=B Special=0	General=1 FC/PC=2 SC=4 ST=6 LC/PC=7 Duplex LC/PC=8 MPO=9 FC/APC=A LC/APC=B MTP=M Special=0

\* The unit comes with two generic adaptors without thread/locking keys having passing hole sizes of 2.5 mm for FC/SC/ST connectors and 1.25 mm for LC/MU connectors.

### Fiber Core Illuminator

Fiber core image highly depends on the surface preparation. For example a plasma cleaned surface is idea. We provide an LED illuminator with a 2.5mm hole that matches with FC/SC/ST, as well as bare fiber adaptor (included). Using this Fiber Core Illuminator, the core image can be seen regardless the surface condition. Below illustrates how to use this tool.

