



DFS1 Digital FiberScope



DFS1 Digital FiberScope with M200 OTDR

Features

- Ergonomic, hand-held design
- Single-handed operation
- 400x magnification
- Fast, easy focus and display capture
- Video output via USB port to M200, M700, C840, C850, C860, or C880
- Powered from USB; no batteries required
- Extensive assortment of interchangeable fiber connector and bulkhead adapter tips
- Adapter tips easily changed; no tools required

NOYES® DFS1 Digital FiberScope

The DFS1 Digital FiberScope supports magnified video inspection of optical fiber connector end-faces during fiber optic cable and connector installation and maintenance. The ergonomically designed hand-held unit illuminates fiber end-faces and delivers magnified images via USB port to AFL's M-series OTDRs (M200, M700) or C-series OTDRs and Certification Testers (C840, C850, C860, C880). FiberScope software displays, labels, and stores captured images as part of connector installation and/or maintenance records.

A large adjustment knob permits easy focusing using real-time view. Once focused, a conveniently located trigger button signals the attached display device to capture the image for analysis and archiving. The scope's ergonomic shape and control locations support comfortable, single-handed operation.

The DFS1 is powered through the USB port, eliminating the need for an additional battery or AC power supplies. Electronic video inspection eliminates all danger of eye damage from active (lit) fibers carrying either visible or infrared wavelengths.

An extensive assortment of adapters supports inspection of a wide range of optical jumper cable connector ferrules and bulkhead adapters. Bulkhead adapter tips are available in multiple lengths as well as 60° angle. Connector adapters are available for PC, UPC, or APC polished ferrules in 1.25 mm, 2.5 mm and other diameters.

The DFS1 is available in three different kits which provide either PC/UPC adapters, APC adapters, or no adapters. All kits include soft carry case, an adapter tip storage box, quick reference guide, plus FiberScope display software update for M200, M700, C840, C850, C860, and C880.

Applications

- Ideal for Telco, Broadband, and PNG applications
- Optical connector and bulkhead adapter inspection
- Display and analyze fiber end-face quality on M200, M700, C840, C850, C860, or C880
- Visually inspect fiber end-faces for damage or contamination impairing optical transmission
- Generate installation inspection records, associating captured digital photo with fiber ID

NOYES® DFS1 Digital FiberScope



DFS1 Digital FiberScope with M700 OTDR

Specifications (All specifications valid at 25°C unless otherwise specified)

MODEL	DFS1
Magnification	400X
Field of View	~400 µm x 300 µm
Resolution	0.5 µm detectable
Operating Temperature	0 °C to 50 °C
Storage Temperature	-20 °C to 70 °C
Focus	Manual adjustment, 2 mm max travel
Dimensions	35 mm diameter x 175 mm length (without tip)
Weight	200 g
Light Source	Blue LED
Power Supply	USB port of M-series OTDRs or C-series OTDRS and Certification Testers

Ordering Information

The DFS1 is available in three different kits which provide either PC/UPC adapters, APC adapters, or no adapters. All kits include soft carry case, a storage box to hold up to six adapter tips, FiberScope display software update for M series OTDRs (M200, M700) or C series OTDRs and Certification Testers (C840, C850, C860, C880), and a quick reference guide.



DFS1-00-04XU

MODEL	DESCRIPTION
DFS1-00-04XU	DFS1 Digital FiberScope PC/UPC Inspection Kit; includes: (1) DFS1-00-04X0MR DFS1 USB Digital FiberScope (1) DFS1-00-0001MR Universal 1.25 mm male PC adapter tip (1) DFS1-00-0002MR Universal 2.5 mm male PC adapter tip (1) DFS1-00-0003MR SC and FC female bulkhead adapter tip (1) DFS1-00-0004MR LC female bulkhead adapter tip (1) DFS1-04-0001MZ soft carry case for scope and adapters (1) 8500-05-0005MZ Mini One-Click cleaner for 2.5 mm connectors (1) 8500-05-0006MZ Mini One-Click cleaner for 1.25 mm connectors (1) 1400-01-0093MZ 6-compartment adapter tip storage box (1) Digital FiberScope display software update for M200, M700, C840, C850, C860, or C880
DFS1-00-04XA	DFS1 Digital FiberScope APC Inspection Kit; includes: (1) DFS1-00-04X0MR DFS1 USB Digital FiberScope (1) DFS1-01-0002MR Universal 2.5 mm male APC adapter tip (1) DFS1-01-0003MR SC/APC and FC/APC bulkhead adapter tip (1) DFS1-04-0001MZ soft carry case for scope and adapters (1) 8500-05-0005MZ Mini One-Click cleaner for 2.5 mm connectors (1) 1400-01-0093MZ 6-compartment adapter tip storage box (1) Digital FiberScope display software update for M200, M700, C840, C850, C860, or C880
DFS1-00-04XN	DFS1 USB Digital Fiber Inspection Kit without Adapters; includes: (1) DFS1-00-04X0MR DFS1 USB Digital FiberScope (1) Soft carry case for scope and adapters (1) 6-compartment adapter tip box (1) Digital FiberScope display software update for M200, M700, C840, C850, C860, or C880

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NOYES® DFS1 Digital FiberScope

Ordering Information (continued)

DFS1 Accessories

MODEL	DESCRIPTION
DFS1-04-0001MZ	Soft carry case for DFS1 Digital FiberScope and adapters
1400-01-0093MZ	6-compartment adapter tip storage box
1400-01-0094MZ	11-compartment adapter tip storage box
8500-05-0005MZ	One-Click Mini-100 SC, ST, FC (100+ cleans)
8500-05-0006MZ	One-Click Mini-100 LC/MU (100+ cleans)



DFS1-00-0001MR



DFS1-00-0002MR



DFS1-00-0003MR



DFS1-00-0004MR



DFS1-00-0013MR

DFS1 Adapter Tips

The following table identifies commonly required adapter tips. Other adapter tips available. Please consult the factory for additional adapter tips and prices.

MODEL	DESCRIPTION
PC FERRULE CONNECTOR ADAPTER TIPS	
DFS1-00-0001MR	Universal 1.25 mm tip for PC ferrule connector
DFS1-00-0002MR	Universal 2.5 mm tip for PC ferrule connector
DFS1-00-0005MR	Universal 2.0 mm tip for PC ferrule connector
DFS1-00-0006MR	Slim 1.6 mm tip for PC ferrule (termini)
DFS1-00-0038MR	Slim 1.25 mm probe tip for LuxCis and termini
DFS1-00-0039MR	Slim 2.5 mm PC ferrule tip for ELIO and termini
DFS1-00-0008MR	Tip for ELIO 1.25 mm ferrule connector
SC/PC AND FC/PC BULKHEAD ADAPTER TIPS	
DFS1-00-0003MR	Tip for SC/PC and FC/PC bulkhead adapter
DFS1-00-0010MR	Short extended tip for SC/PC and FC/PC bulkhead adapter
DFS1-00-0011MR	Medium extended tip for SC/PC and FC/PC bulkhead adapter
DFS1-00-0012MR	Long extended tip for SC/PC and FC/PC bulkhead adapter
DFS1-00-0013MR	60° angled tip for SC/PC and FC/PC bulkhead adapter
DFS1-00-0040MR	60° angled tip for SC/PC bulkhead adapter
ST/PC BULKHEAD ADAPTER TIPS	
DFS1-00-0014MR	Tip for ST/PC bulkhead adapter
DFS1-00-0015MR	Short extended tip for ST/PC bulkhead adapter
DFS1-00-0016MR	Medium extended tip for ST/PC bulkhead adapter
DFS1-00-0017MR	Long extended tip for ST/PC bulkhead adapter
DFS1-00-0018MR	60° angled tip for ST/PC bulkhead adapter
LC/PC BULKHEAD ADAPTER TIPS	
DFS1-00-0004MR	Tip for LC/PC bulkhead adapter
DFS1-00-0019MR	Short extended tip for LC/PC bulkhead adapter
DFS1-00-0020MR	Medium extended tip for LC/PC bulkhead adapter
DFS1-00-0021MR	Long extended tip for LC/PC bulkhead adapter
DFS1-00-0022MR	60° angled tip for LC/PC bulkhead adapter
E2000/PC BULKHEAD ADAPTER TIPS	
DFS1-00-0023MR	Short extended tip for E2000/PC bulkhead adapter
DFS1-00-0024MR	Medium extended tip for E2000/PC bulkhead adapter

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DFS1 Digital FiberScope

Ordering Information (continued)

MODEL	DESCRIPTION
DFS1-00-0025MR	Long extended tip for E2000/PC bulkhead adapter
MU/PC BULKHEAD ADAPTER TIPS	
DFS1-00-0026MR	Tip for MU/PC bulkhead adapter
DFS1-00-0027MR	Short extended tip for MU/PC bulkhead adapter
DFS1-00-0028MR	Medium extended tip for MU/PC bulkhead adapter
DFS1-00-0029MR	Long extended tip for MU/PC bulkhead adapter
DFS1-00-0030MR	60° angled tip for MU/PC bulkhead adapter
MTP/PC MULTI-FIBER ADAPTER TIPS (FERRULE & BULKHEAD)	
DFS1-00-0037MR	MTP/PC ferrule and bulkhead adapter extended tip; includes base plus MTP/PC front end tip
DFS1-00-0041MR	Front end tip for MTP/PC ferrule and bulkhead adapter
DFS1-00-0042MR	MTP/PC and MTP/APC ferrule and bulkhead adapter extended tip kit; includes base plus MTP/PC and MTP/APC front end tips
MISCELLANEOUS PC BULKHEAD ADAPTER TIPS	
DFS1-00-0031MR	Tip for LEMO 2.0 mm bulkhead adapter
DFS1-00-0032MR	Tip for LX.5/PC bulkhead adapter
DFS1-00-0033MR	Tip for 2.0 mm termini bulkhead adapter
DFS1-00-0034MR	Tip for 1.6 mm termini bulkhead adapter
DFS1-00-0036MR	Tip for ELIO 1.25 mm bulkhead adapter
APC TIPS	
DFS1-01-0001MR	Universal 1.25 mm tip for APC ferrule connector
DFS1-01-0002MR	Universal 2.5 mm tip for APC ferrule connector
DFS1-01-0003MR	Tip for SC/APC and FC/APC bulkhead adapter
DFS1-01-0011MR	Tip for SC/APC bulkhead adapter
DFS1-01-0004MR	Tip for LC/APC bulkhead adapter
DFS1-01-0005MR	Short extended tip for SC/APC bulkhead adapter
DFS1-01-0006MR	60° angled tip for SC/APC bulkhead adapter
DFS1-01-0008MR	Tip for E2000/APC bulkhead adapter
DFS1-01-0009MR	Tip for LX.5/APC bulkhead adapter
DFS1-01-0010MR	MTP/APC ferrule and bulkhead adapter extended tip kit; includes base plus MTP/APC front end tip
DFS1-01-0012MR	Front end tip for MTP/APC ferrule and bulkhead adapter

Authorized Channel Partner



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