ADVANCED FIBER SOLUTIONS

1 (800) 556 9313

Fiber Optic Sources

OS400 SERIES FIBER OPTIC SOURCES

MODEL NUMBER	***DESCRIPTION***
OS420 -- --- --- --- --- --- -	850nm/1300nm LED source for Multimode applications
OS430 -- --- --- --- --- --- -	1310nm/1550nm Laser source for Single Mode appliactions
OS405 -- --- --- --- --- --- -	635nm visual fault locator for finding cable faults
OS417 -- --- --- --- --- --- -	665nm/850nm LED source for POF and short wavelength applications

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Advanced Fiber Solutions, Inc.
Fax: (617) 507-0784
Ph: (617) 698-2523

MB#188, 532 Adam St, Milton, Ma 02186
email:info@advancedfibersolutions.com
url:www.advancedfibersolutions.com

OS420	SPECIFICATIONS, KEY FEATURES AND APPLICATIONS
Wavelength(λ) -- --- --- --- --- ---	850nm/1300nm
Wavelength Range -- --- --- --- --	850nm ± 30nm /1300nm ± 30nm
Couple Power Ratio 1300nm -- -	Category 1 according to the standard EIA-526-14B
Couple Power Ratio 850nm -- ---	Category 1 according to the standard EIA-526-14B
Stability -- --- --- --- --- --- --- ---	Less than 0.05dB over a one hour period
Power Output -- --- --- --- --- --- -	>-17dBm, individually adjustable
Connector -- --- --- --- --- --- --- -	AT&T ST
Power -- --- --- --- --- --- --- --- --	2 AA, AC adaptor
Enclosure Size -- --- --- --- --- ---	Compact Handheld (L-4.94”/W-2.75”/H-1.2”)

OS420 APPLICATIONS:

The OS420 light source is for premises and campus cabling networks with multimode fiber, or single-mode fibers under 5km. The ST connector outputs can be adapted to any cable plant with hybrid adapters or hybrid cables. The OS420 becomes a powerful low cost troubleshooting and maintenance tool when used with an Advanced Fiber Solutions OM120 or OM220.

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OS430	SPECIFICATIONS, KEY FEATURES AND APPLICATIONS
Wavelength(λ) -- --- --- --- --- --- -	1310nm/1550nm
Wavelength Range -- --- --- --- ---	1310 ± 20nm / 1550nm ± 20nm
Modulated Frequencies -- --- --- --	2kHz
Stability, 1 hour -- --- --- --- --- ---	<0.05dB
Power Output -- --- --- --- --- --- --	>-6dBm, individually adjustable
Connector -- --- --- --- --- --- --- --	AT&T ST, FC, or SC
Power -- --- --- --- --- --- --- --- ---	2 AA, AC adaptor
Enclosure Size -- --- --- --- --- --- -	Compact Handheld (L-4.94”/W-2.75”/H-1.2”)

OS430 APPLICATIONS:

The OS430 Laser source is for single-mode fibers in the outside plant environment where the long wavelengths are used. The Single output allows the user to test at both 1310nm and 1550nm without disconnecting and reconnecting the cable. When used with an Advanced Fiber Solutions OM120 or OM220 the OS430 is ideal for testing insertion loss for single-mode fiber optic cables and connectors.

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OS405	SPECIFICATIONS, KEY FEATURES AND APPLICATIONS
Wavelength(λ) -- --- --- --- --- ---	635nm
Modulated Frequencies -- --- --- -	1Hz
Stability, 1 hour -- --- --- --- --- ---	<0.5dB
Power Output -- --- --- --- --- --- -	1mW max
Connector -- --- --- --- --- --- --- --	ST, FC or SC
Power -- --- --- --- --- --- --- --- --	2 AA, AC adaptor
Enclosure Size -- --- --- --- --- -- -	Compact Handheld (L-4.94”/W-2.75”/H-1.2”)

OS405 APPLICATIONS:

The OS405 (635nm) visible laser cable fault locator allows the operator to find faults in fiber optic cables, even in the OTDR dead zone, optimizing splices and tracing fibers. By injecting a bright red visible light in the fiber, locations of losses such as breaks, bends, or bad connectors can be detected visually, even through the typical yellow or orange jacket used on most single fiber cables. Fibers can be traced as far as 4 km (2.5 mi.) using this instrument. The OS405 uses a visible diode laser in the compact case for pocket size convenience.

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OS417	SPECIFICATIONS, KEY FEATURES AND APPLICATIONS
Wavelength(λ) -- --- --- --- --- ---	635nm, 850nm
Stability -- --- --- --- --- --- --- --- -	Less than <0.5dB over a 1 hour period
Power Output -- --- --- --- --- -- --	>-17dBm@850nm individually adjustable
Connector -- --- --- --- --- --- --- -	ST
Power --- --- --- --- --- --- --- --- -	2 AA, AC adaptor
Enclosure Size -- --- --- --- --- --- -	Compact Handheld (L-4.94”/W-2.75”/H-1.2”)

OS417 APPLICATIONS:

The OS417 is optimized for POF (Plastic Optical Fiber) and larger core multimode applications. The OS417 has two fixed ST active device mount LEDs with transmitting wavelengths of 665nm and 850nm.

ENVIRONMENTAL OS400 SERIES:

Operating Temp -- --- --- --- --- --- --- ---	-10°C to +50°C (45% Hum, non condensing)
Storage Temp -- --- --- --- --- --- --- --- ---	-20°C to +60°C (75% Hum, non condensing)

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