



OZ Optics

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Global Leader in Fiber Optic Products **SINCE 1985**



Test Equipment & Sensors SHORT FORM CATALOG



Benchtop Intelligent Optical Signal-to-Noise Ratio Generators



Fiber Optic Distributed Strain and Temperature Sensors



Fiber Length Meters



Broadband Polarization Entangled Photon Sources



Polarization Extinction Ratio Measurement Systems



Backreflection Meters for Non-Telecom Wavelengths



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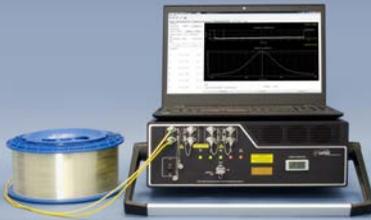


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Fiber Optic Distributed Strain and Temperature Sensors

Up to 200 km Fiber Length
Up to 0.1 meter, 0.1°C, 2 με Accuracy
Uses Standard Telecom Fiber

2



Broadband Polarization Entangled Photon Sources

Quantum Computing, Imaging, Metrology
Broadband Covering C&L Bands
High Quality Polarization And Frequency

3



Optical Signal-to-Noise Ratio Generators (OSNR)

BER, DWDM, Submarine Network Testing
Automatically Set User Designated OSNR
and Output Power Level Built-In Tunable Filter
With Provision for External Filter

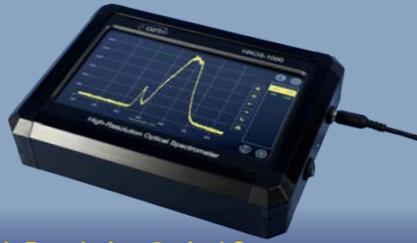
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Fiber Length Meters

Measures Length from a few mm to 500 m
Better than 2 mm Resolution
Less than 0.1% Measurement Error

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High-Resolution Optical Spectrometers

Rugged Design with Transmission Grating
High Spectral Resolution and High SNR
2nd Order Grating Noise Filter Suppression

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Benchtop High Speed Polarization Controller/Scramblers

Continuous Control of Polarization
Negligible Insertion and Return Losses
Up to 2 kHz Response Speed

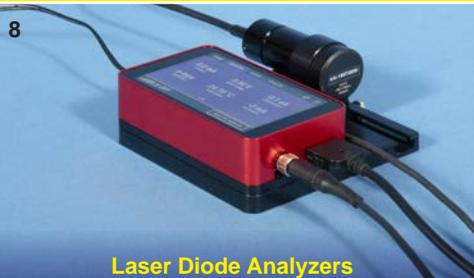
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Modulator Bias Controllers

Chip Sizes, Ditherless, High Extinction
Many Versions are Available

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Laser Diode Analyzers

Touchscreen Plug-and-Play LDA with TEC
LIV Curve with 0.1 mA Resolution up to 500 mA
Built-in Smart Driver Protection

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OZPEN CO₂ Cleaning Unit for High Power Components

Designed to Clean Small Surfaces
Superior to Other Cleaning Methods
Quick Dry and Solvent-Free Cleaning Process

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Benchtop Fiber Optic Switches

1x2 to 1x8 Channels Configuration
High Repeatability
Fast Switching Time

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Rack Mount Fiber Optic Switches

1x12 to 1x36 Channels Configuration
High Repeatability
Fast Switching Time

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Power Meter with Smart Detector Heads

85 dB Dynamic Range, Fast Response Time
440–1700 nm Wavelengths, Built-in Attenuator
Dual Detector Head Capability, USB Port

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Low Cost Smart Detector Heads

Low Cost
Compact Size
Interchangeable Connector Receptacles

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Handheld Optical Power Meters

Wide Dynamic Range -75 to +10 dBm
Wide Wavelength Range 800-1650 nm, 400-900 nm
Low Cost, Long Battery Lifetime

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Pocket Optical Power Meters

Slim and Compact Size
Wide Wavelength Range
Low Cost, Long Battery Life

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Handheld Polarization Extinction Ratio Meters

Measure up to 40 dB Extinction Ratio
 0.3 Degree Angle Resolution
 Up to 2 Watts, Broadband Wavelength Range

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Benchtop Polarization Extinction Ratio Meters

Measures up to 50 dB
 450–2400 nm Wide Wavelength Range
 0.5° Angle Accuracy

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Polarization Measurement Systems for V-Grooves

Measures Polarization Angle to ± 0.5 Degrees
 Measures Extinction Ratios up to 40 dB
 Measures Relative Power (650 Hz Sample Rate)

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Highly Stable Polarized Sources

As Good as 40 dB Extinction Ratio
 Pigtail and Receptacle Versions
 635–1625 nm Wavelengths

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Connector Video Microscopes

Easy-to-Use
 Up to 400x Magnification
 LC, FC, SC, E2000 or Other Custom Connectors

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Multi Channel Benchtop PDL Emulators

Wide Variable PDL Range
 Wide Wavelength Range
 4 to 16 (In Full Rackmount) Channels

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Handheld Backreflection Meters

Sensitive to -70 dB
 1300/1550 nm Dual Wavelength Source
 Also Measures Insertion Losses

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Benchtop Backreflection Meters

Dual Wavelength Source Available
 633–1625 nm
 Non-Telecom Wavelengths
 Sensitivity to -75 dB

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Digital Variable Reflectors

Test Sensitivity to Backreflection
 -1 dB to -60 dB Backreflection
 USB Communications Interface

25



Handheld Digital Variable Attenuators

0.01 dB Resolution, Fast Response Time
 0.6 dB to 60 dB Attenuation Range
 USB Communications Interface

26



Benchtop Digital Multichannel Attenuators

High Power up to 2 Watts
 Up to 60 dB Attenuation Range
 350–2050 nm Wide Wavelength Range

27



Rack Mount Electrically Controlled Variable Attenuators

High Power up to 2 Watts
 Up to 60 dB Attenuator Range
 350–2050 nm Wide Wavelength Range

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Handheld LED Sources

850, 1300, and 1550 nm Wavelengths Available
 Better than 0.01 dB Output Stability
 CW and Modulated Power Modes

29



Handheld Laser Diode Sources

Compact, Low Cost, Internally Modulatable
 632–1625 nm Wavelengths
 Battery Operation, Power Adjustable

30



Pen & Pocket Size Fault Locators

Detect Breaks In Fiber Optic Cables
 Use as an End-to-End Fiber Identifier, 635 nm
 Up to 10 mW, Inexpensive

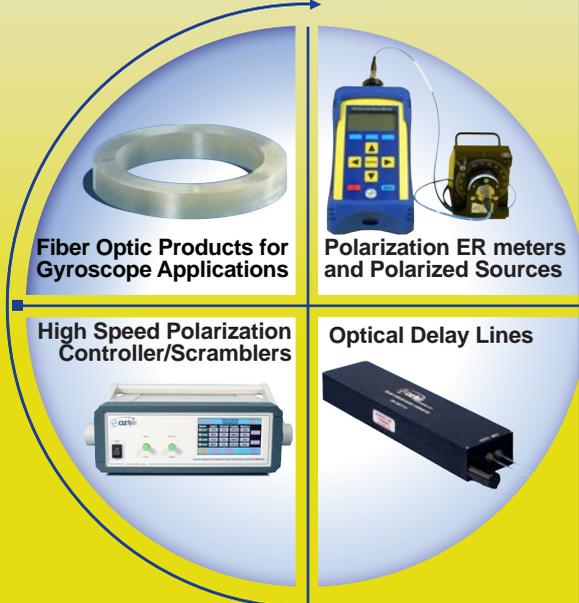


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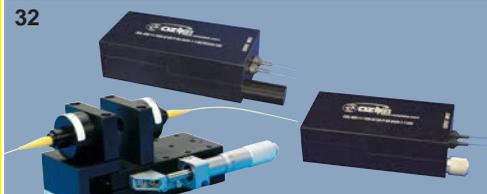


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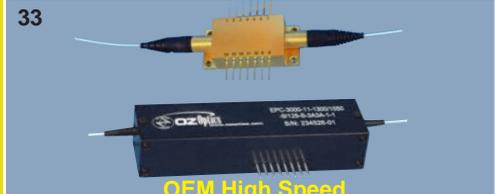
OCT Module/Components
Complete Module or Separate Components
Such as, Broadband Isolators, Sources,
Attenuators, Collimators, Fused Splitters, Delay Lines

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Optical Delay Lines
Over 600 psec Delay Range, <1 dB Losses
0.001 psec Resolution
Motor Driven, Computer Controlled Versions

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**OEM High Speed
Polarization Controllers & Scramblers**
Continuous Control of Polarization
Negligible Insertion Losses and Return Losses
>30 kHz Response Speed at Resonance Frequency

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Digital Tunable Filters
< 1.2 nm Line Width, 0.1 nm Resolution
50 nm Tuning Range, Fast Response Time
USB Communications Interface

35



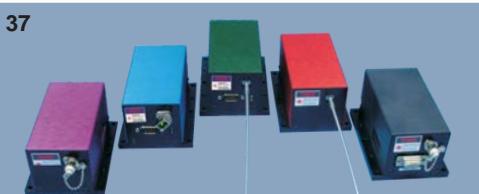
**Polarization Entanglement
Tomography Analyzers**
Quantum Tomography Analyzer with a Controller & GUI
Quick and Precise Polarization State Rotators
Automation of Multi-Polarization State Analysis

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**Motor Driven Variable
Bandwidth Tunable Filters**
45 nm Tunable Range
Flat Top Filter Shape
Polarization Insensitive

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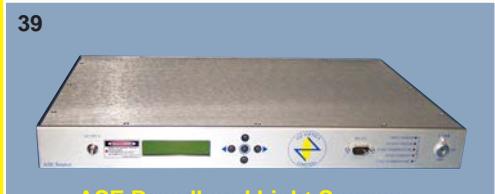
Turnkey OEM Laser Diode Sources
Wavelength Range: 375–2000 nm
Externally Modulatable
Red, Green, Blue Combiner Versions Available

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**Fiber Optic Products
for Biophotonic Applications**
Wide Optical Fiber Component Offering for
BioPhotonics Application: Optical DNA Rapid
Detection System for Pathogens,
OCT, Spectrometers, WDM ect...

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ASE Broadband Light Sources
High Output Power up to 27 dBm (500 mW)
Covers C-band, L-band, or Both High Stability
and Unpolarized Output Light Optional Built-in
Attenuator and Optical Power Monitor



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