

Fiber Optic Test Equipment

OZ Optics Limited

September 2025



Table of Contents

- **Company Background**
- **Corporate Statements and Quality Policy**
- **Company Profile**
- **Core Competencies**
- **Leading Technology**
- **Industry Standards**
- **Marketing Strategy**
- **Operation Strategy**
- **OZ Optics Canada**
- **OZ Optics Türkiye**
- **OZ Optics China**

Company Background



- **Founded in 1985**
- **Corporate headquarter located in Ottawa, Canada**
- **Manufacturing facility in Ottawa / Canada, Izmir / Turkiye and Jiaxing / China**
- **12 Product Groups:**
 - Laser-to-Fiber Delivery Systems
 - High Power Fiber Optic Components
 - Polarization Maintaining Products
 - Attenuators
 - Opto-Electronic Packaging
 - Fiber Optic Test Equipment
 - Fiber Optic Sensor Systems
 - Fiber Optics Components for Gyroscope
 - Fiber Optics Components for OCT
 - Fiber Optics Components for BioPhotonics
 - Fiber Optics Components for Quantum
 - Fiber Optics Components for AI Optical Connectivity
- **Sales offices in Canada, USA, Europe, Turkiye and China**

➤ Ottawa, Canada



➤ Izmir, Türkiye



➤ Jiaxing, China



Corporate Statements and Quality Policy



Our Vision

- ✓ Capture and expand market share
- ✓ Be the preferred supplier of choice
- ✓ Maximize shareholder value

Our Mission

To become the leading provider of innovative optical products to telecom and non-telecom sectors

Our Core Values

- ✓ Leadership
- ✓ Teamwork
- ✓ Boldness
- ✓ Commitments
- ✓ Innovation
- ✓ Rewards

Our Quality Policy

Provide our Customers with a competitive advantage, leveraging performance, price and delivery, through a continuous process of Quality advancement in all areas of our Company.

Communicate effectively to our Customers, Suppliers and Shareholders our commitment to Quality, continuous improvement and to abide by any applicable requirements.

Promote opportunities of professional development for all members of our company through education, training and personal challenge.



Company Profile

Over 489 employees worldwide

OZ Canada



240+
Employees

OZ China



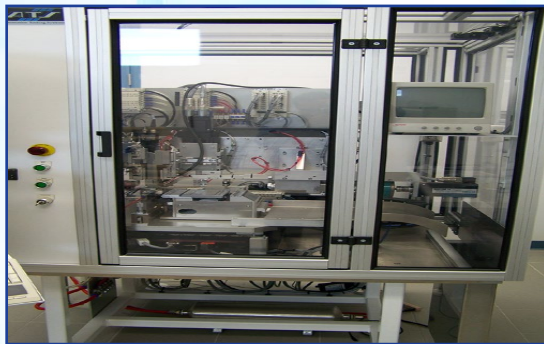
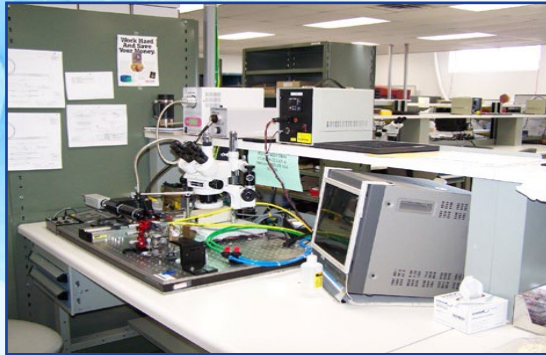
120+
Employees

OZ Türkiye



129+
Employees

Company Profile



Advanced Proprietary Processing Technology



**Canada
Certificate: FM 63463**



**China
Certificate: FM 577647**



**Turkey
Certificate: FM 601414**

ISO9001:2015 Certified



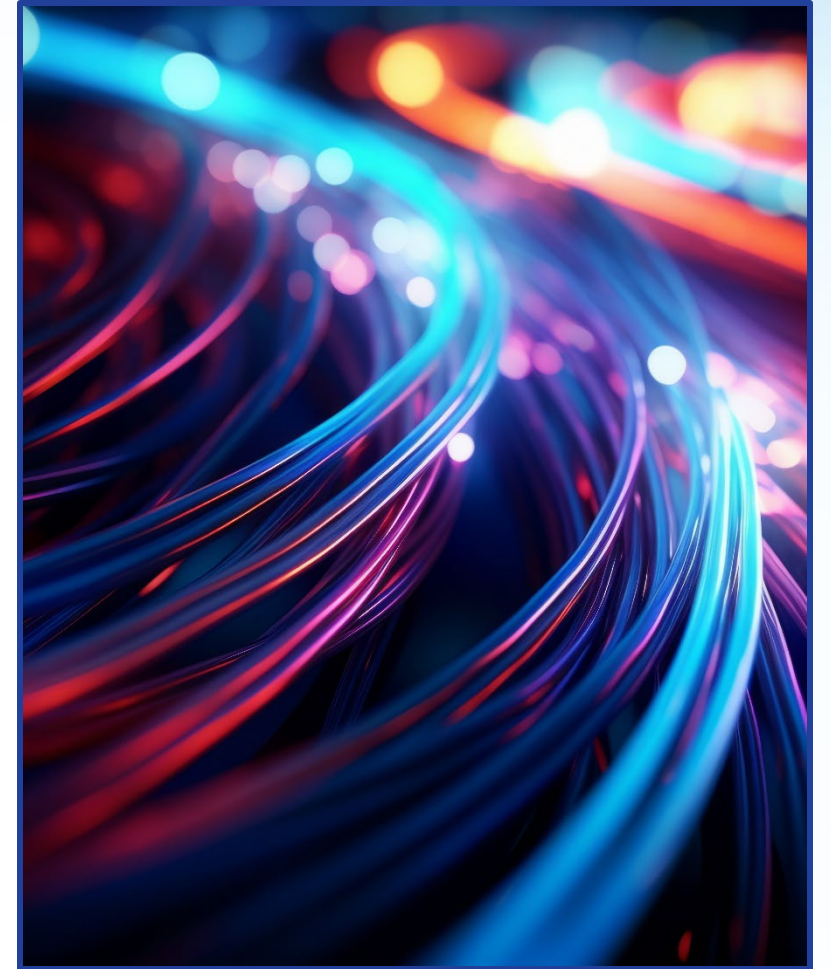
Broad Patent Portfolio



Company Profile

OZ Optics is Lead by an Experienced Team:

- **Ömür Sezerman, Chairman, President & CEO**
 - Founder and CEO since inception (40 years)
- **Zahide Sezerman, VP of Human Resources**
 - With OZ Optics since inception (40 years)
- **Garland Best, VP of Components Division**
 - 33 years at OZ Optics
- **Gordon Youle, VP of Test Equipment Division**
 - 26 years at OZ Optics
- **Saeed Pilevar, Senior VP of Business Development**
 - 1 year at OZ Optics
- **Onur Koca, General Manager of OZ Türkiye**
 - 3 year at OZ Optics
- **Bing Li, General Manager of OZ Optics China**
 - 21 years at OZ Optics



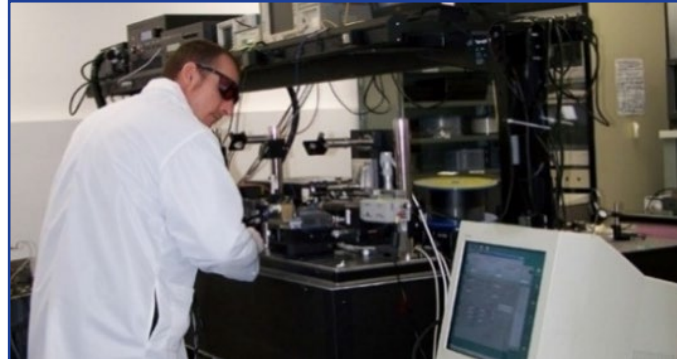
Company Profile

Experienced and Well-Trained Staff in Following Fields:
Optical, Mechanical, Electronics & Software

➤ CNC Machine Shop



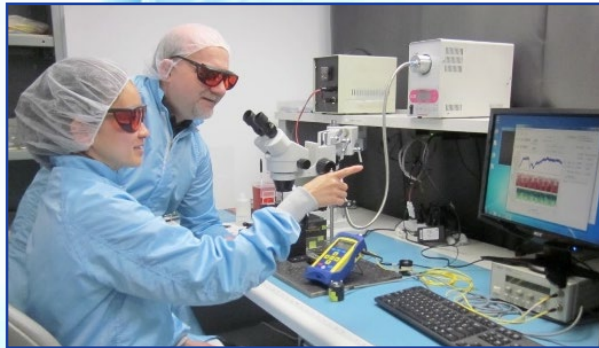
➤ Femto-Second Laser Lab



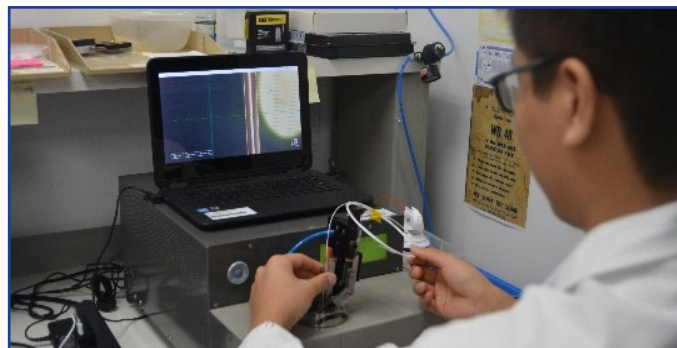
➤ AR Coating



➤ Clean Room



➤ Laser Conditioning/Cleaving





Core Competencies



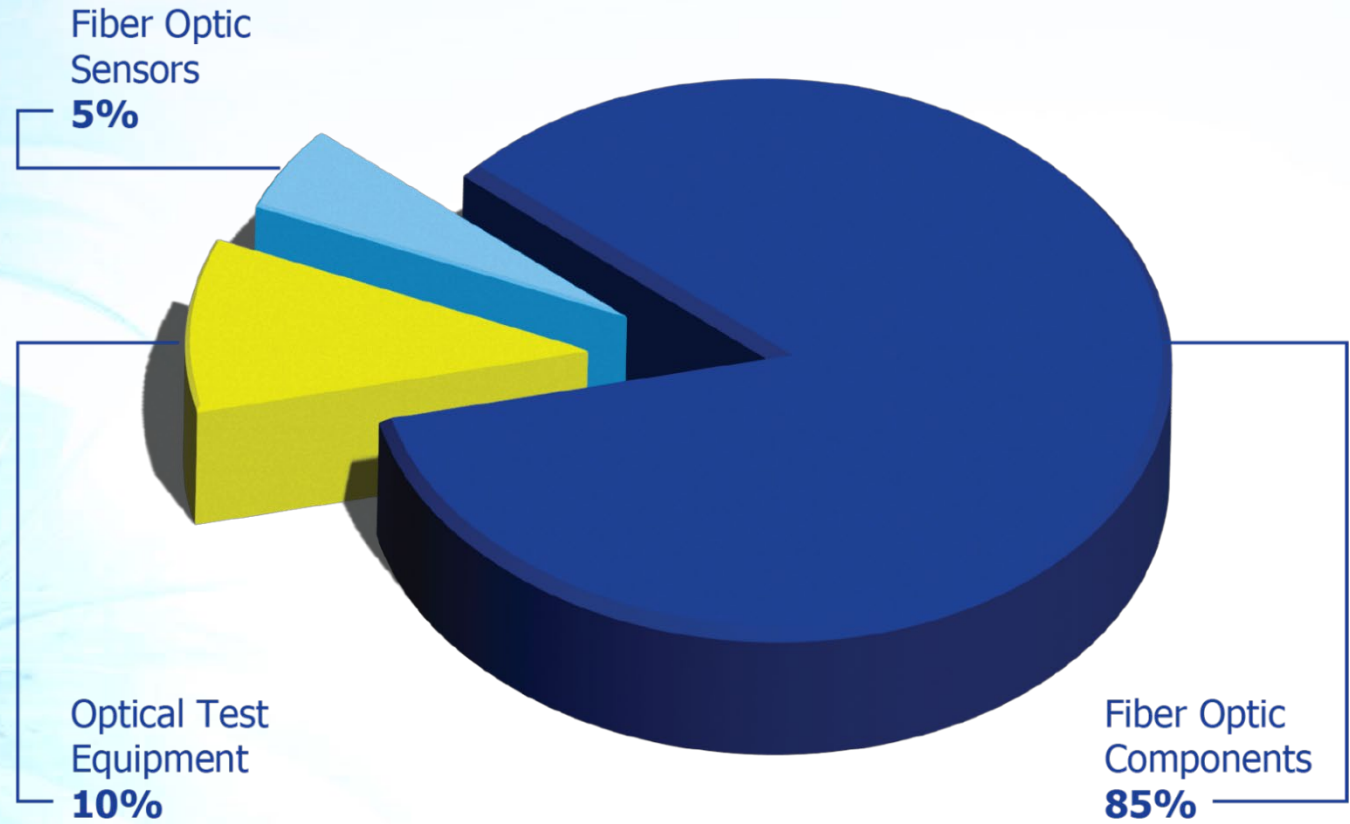
- **Pioneer in Polarization Maintaining (PM) Components & Custom Test Equipment, Including Polarization Test Equipment and FTTH Equipment**
- **Leader in Wavelength Flattened, High Power & Low PDL Components**
- **Leader in High Power Fiber Optic Delivery Systems**
- **Widest Range in Attenuator Product Offering**
- **Fiber Optic Distributed Strain and Temperature Sensors**
- **Complete product line for AI Optical Connectivity, OCT, Gyroscope & BioPhotonics applications & 2 Micron**
- **Now available: Spectrometers and Quantum Light Sources**



Leading Technology



➤ **Three Product Groups** ➤ **Over 1,000 Products** ➤ **Leading Edge R&D**





Leading Technology

Featured Products

World's Largest Online Fiber Optic Catalog

Most Products are in Stock

Quantum Light Sources

Fiber Optic Products for Biophotonics Applications

Fiber Optic Products for Gyroscopes

Polarization Maintaining Components

Delivery Systems

High Power Components

Test Equipment

High and Low Power Patchcords

Polarization Maintaining Fiber Optic Components

Patent Numbers: USA 7058275, 7095931, 7295731, China 1672073

Polarization Maintaining Connectors and Patchcords

Polarization Maintaining and Polarizing Splitters / Combiners / Fused Couplers / Switches

All Fiber Manual and Electrically Driven Polarization Controllers / Seramblers

Polarization Dependent Loss Emulators

Fiber Pigtailed Polarizers

PM Fiber Directional Taps and PLC Splitters

Isolators

PM Fiber Pigtailed Circulators

Laser and Laser Diode to Fiber Delivery Systems

Laser to Fiber Couplers

Pigtail, Receptacle Style Collimators and Focusers

Bulkhead Receptacles

Bare Fiber Adaptors with Magnetic Clips

Wavelength Division Multiplexers(WDMs) and R&B Combiners

OCT Modules and 2 micron Components

Evanesence Based Variable Split Ratio Fiber Splitter/Coupler

OEM Laser Diode to Fiber Couplers

High Power Fiber Optic Components

Patent Numbers: Canada 2494133, USA 7058275, 7095931, 7295731, China 1672073

High Power, High Temperature Connectors and Patchcords

OZPEN™ CO-2 Fiber Optics Cleaning Unit for High Power Components

High Power Laser to Fiber Couplers, Collimators and Focusers

High Power Mode Field Adaptors

High Power Optical Taps and Power Monitors

High Power Isolators

High Power Splitters and Wavelength Division Multiplexers (WDMs)

Shutters, Receptacles and Sleeve Thru Adaptors with Sensors



Leading Technology

Featured Products



Fiber Optic Attenuators

Polarization Maintaining, Single Mode and Multi-Mode Fibers



Benchtop Digital



Variable Attenuators



Digital Variable Attenuators



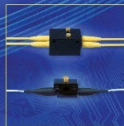
Electrically Controlled Variable Attenuators



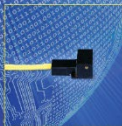
MEMS Variable Attenuators



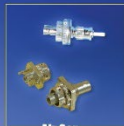
PM, SM and MM Fibers Pigtailed Inline Variable Attenuators



Single and Multi Channel Miniature Variable Attenuators



Reflective Style Variable Attenuators



Air Gap Variable Attenuators



Plug Type Fixed Attenuators



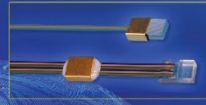
Attenuating Fiber Patchcords

Fiber Optic Components for Optoelectronic Packaging

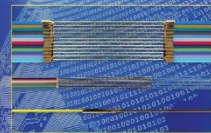
Hermetically Sealable Patchcords with Glass or Metal Solder



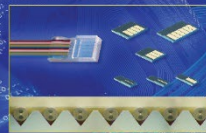
Single Channel



Multi Channel



Metalized Fibers



PM, SM and MM Fiber Pigtailed V-Groove Arrays



Polarization Measurement System for V-Grooves



Tapered, Lensed Fiber, Polished and Laser Shaped



Precision Collimator and Focuser Array



Fused Fiber Collimator

Fiber Optic Test Equipment



Quantum Entangled Photons Sources



High-Resolution Optical Spectrometers



Optical Fiber Length Meters



Rock Reflection Meters



High-Speed Polarization Controller-Scrambler



Handheld and Benchtop Extinction Ratio Measurement Systems



Multichannel, Benchtop and Handheld Digital Variable Attenuators



High Power Visual Fault Locators



Powermeters with Smart Detector Heads



Laser Diode Stable Sources

Fiber Optic Components for 2 Micron Wavelengths



Fiber Optic Patchcords



Fused Couplers, Taps, Beam Splitters and Combiners



Fiber Pigtailed Laser Diode Sources



Pigtailed, Receptacle Style Collimators and Focusers



High Speed Electro-Optic Polarization Controllers and Scramblers



Manual and Electrically Controlled Variable Attenuators



Polarizers



Isolators



Leading Technology

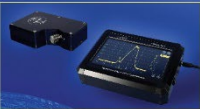
Featured Products



New Fiber Optic Products



Polarization Entangled Photon Sources



High-Resolution Optical Spectrometers



High Speed Electro-Optic Polarization Controllers and Scramblers



Polarization Entanglement Tomography Analyzers



Fiber Optic Coils For Gyroscopes



Universal Optical DNA Band Detection Systems for Pathogens



Motor Driven Polarization Dependent Loss Emulators



Detector Heads and Optical Power Monitors



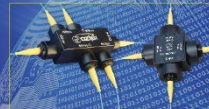
Fiber Optic Products for Gyroscopes



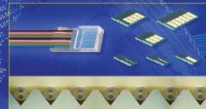
Fiber Optic Coils for Gyroscopes



ASE Sources



Wavelength Division Multiplexers



PM, SM and MM Fiber Pigtailed V-Groove Arrays



Fused Couplers, Taps, Beam Splitters and Combiners



Fiber Optic Polarizers



Fiber Optic Patchcords



SM and PM Fiber Pigtailed Circulators



Isolators

Quantum Entangled Photons Sources



Hyper-Entangled Photon Source Broadband Telecom



Polarization-Entangled Photon Source Broadband Telecom



Bright Polarization-Entangled Photon Source Broadband Telecom



Bright Polarization-Entangled Photon Source Narrowband Telecom



Correlated Photon Pair Sources



Polarization-Entangled Photon Source Narrowband at 610 nm



Polarization Entanglement Tomography Analyzer

Fiber Optic Products for OCT Applications



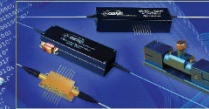
OCT Modules



Manual and Electrically Controlled Broadband Variable Attenuators



Manual and Electrically Controlled Fiber Optic Delay Lines



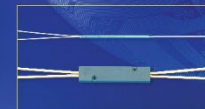
Manual and Electrically Controlled Polarization Controllers / Scramblers



Fiber Pigtailed Broadband SLED Sources



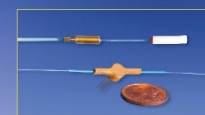
Fiber Collimators / Focusers



Broadband Fused Couplers



SM and PM Fiber Pigtailed Circulators



Polarization Entanglement Tomography Analyzer



Leading Technology

Featured Products

Fiber Optic Products for AI Optical Connectivity

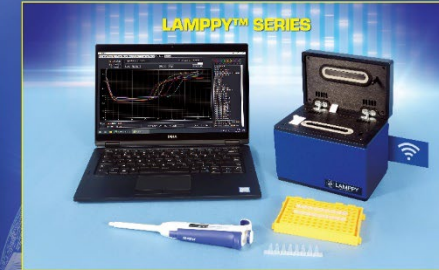
- 20 Fiber Matrix Array (20 FMA) Assemblies
- 12 and 16 channels MPD/MTP® Polarization Maintaining Fiber Assemblies
- U-Group Assemblies
- High Power Optical Taps and Power Monitors
- All Fiber Manual and Electrically Driven Polarization Controllers / Scramblers
- Tapered / Lensed Fiber Polished / Laser Shaped
- Fiber Pigtailed Polarizers
- Isolators
- Pigtail, Receptacle Style Collimators and Focusers

Fiber Optic Products for Biophotonics Applications

- Universal Optical DNA Rapid Detection Systems for Pathogens
- High-Resolution Optical Spectrometers
- Fiber to Photodiode Couplers with Removable Filters
- High and Low Power Patchcords
- High Power Laser to Fiber Couplers
- Pigtail, Receptacle Style Collimators and Focusers
- Fiber Optic U-Bracket Assemblies
- Wavelength Division Multiplexers and Beam Splitters
- Turnkey, Ultra Stable Laser Modules
- Pocket Optical Power Meter and Detectors

Universal Optical DNA Rapid Detection System

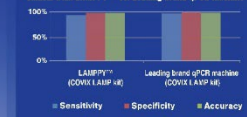
For Pathogens Including:
COVID-19, SARS, EBOLA, CHOLERA, SALMONELLA, ETC.



Features:

- Use to detect viral, fungal, and bacterial DNA/RNA
- Rapid DNA/RNA detection (as little as 20 minutes)
- Highly sensitive and specific detection of low viral levels
- Intuitive software displays real time data during testing
- Melt analysis available with the included software
- Lid heater prevents evaporation and condensation
- Compact modular design allows for easy cleaning and maintenance
- Pair with an external battery for a portable and field-deployable system
- Test up to 8 samples simultaneously (higher throughput systems with up to 96 samples available upon request)
- Wireless communication with dual-band Wi-Fi and Bluetooth connectivity
- A fraction of the cost of qPCR based systems
- OZ Optics also offers private labelling for volume OEM applications

Clinical trial: LAMP-PPY™ vs. Leading brand qPCR machine



In a lab study done at Acibadem University using saliva samples taken from patients at the Acibadem Hospitals, LAMP-PPY™ was compared to a well-known conventional qPCR machine in performance and speed. The comparison study was carried out with a sample size of 262 using the COVID LAMP-based kit on both instruments and then verified with the KrosQuant SARS-COV-2 (2019 nCoV) Real Time PCR Diagnostic Kit on a leading brand conventional qPCR machine.



Leading Technology

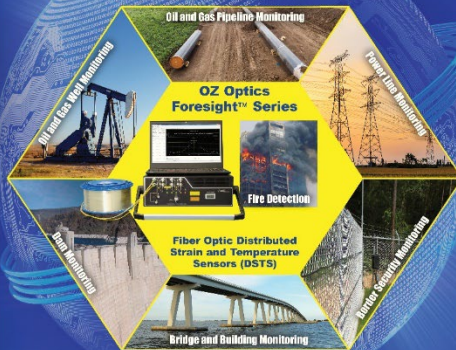
Featured Products



Fiber Optic Distributed Strain and Temperature Sensors

USA Patent Numbers: 7499151, 7599047, and 9568307

- BOTDA only, BOTDR only, or both BOTDA and BOTDR modules in one unit
- Simultaneous measurement of strain and temperature
- Fast, dynamic measurement of strain and/or temperature up to 200 km sensing range
- Uses standard telecommunications fibers to minimize costs



Fiber Optic Sensors for Pipeline Monitoring

USA Patent Numbers: 7499151, 7599047, and 9568307

- Pipeline leakage detection
- Sensitive detection of corrosion / erosion, cracks and buckling
- BOTDA only, BOTDR only, or both BOTDA and BOTDR modules in one unit
- Simultaneous measurement of strain and temperature
- Fast, dynamic measurement of strain and/or temperature up to 200 km sensing range
- Uses standard telecommunication fiber to minimize costs



Pipeline Monitoring



Corrosion and Erosion Monitoring



Fire Detection

Fiber Optic Sensors for Fire Detection

USA Patent Numbers: 7499151, 7599047, and 9568307

- BOTDA only, BOTDR only, or both BOTDA and BOTDR modules in one unit
- Simultaneous measurement of strain and temperature
- Fast, dynamic measurement of strain and/or temperature up to 200 km sensing range
- Uses standard telecommunications fiber to minimize costs





Leading Technology

Featured Products



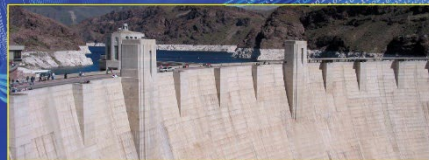
Fiber Optic Sensors for Bridges, Dams and Buildings

USA Patent Numbers: 7499151, 7599047, and 9568307

- BOTDA only, BOTDR only, or both BOTDA and BOTDR modules in one unit
- Fast, dynamic measurement of strain and/or temperature up to 200 km sensing range
- Simultaneous measurement of strain and temperature
- Uses standard telecommunication fibers to minimize costs



Bridge Monitoring



Dam Monitoring



Building Fire Detection

Fiber Optic Sensors for Power Line and Smart Power Generator Monitoring

USA Patent Numbers: 7499151, 7599047, and 9568307

- BOTDA only, BOTDR only, or both BOTDA and BOTDR modules in one unit
- Fast, dynamic measurement of strain and/or temperature up to 200 km sensing range
- Simultaneous measurement of strain and temperature
- Uses standard telecommunication fiber to minimize costs



Underground Power Line Monitoring



Power Line Monitoring



Optical Ground Wire (OPGW)



Construction of OPGW



Gas Generator Monitoring

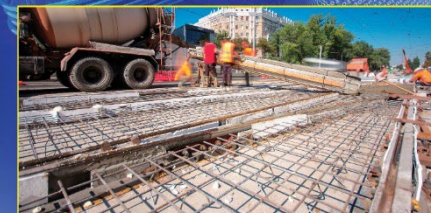
Fiber Optic Sensors for Security Monitoring

USA Patent Numbers: 7499151, 7599047, and 9568307

- BOTDA only, BOTDR only, or both BOTDA and BOTDR modules in one unit
- Fast, dynamic measurement of strain and/or temperature up to 200 km sensing range
- Simultaneous measurement of strain and temperature
- Uses standard telecommunication fiber to minimize costs



Border Security Monitoring



Highway Health Monitoring



Industry Standards

All Products Manufactured are in Strict Accordance with International Industry Standards:

- **ISO 9001:2015 Certified (Canada, China and Türkiye)**
- **REACH Compliance**
- **RoHS Compliance**
- **CE Compliance**
- **Telecordia Compliance**
- **Controlled Goods Directorate Registered**
- **Critical supplier for F35 and F18 Project**
- **TSCA (Toxic Substance Control Act) Compliance**
- **CHEMSHERPA Compliance**
- **IEC 61010 Compliance**



Marketing Strategy

Application Market

Using our strong direct sales and distributors, we address the following markets:

- **Energy – Oil and Gas**
- **Military and Homeland Security**
- **Educational**
- **Industrial**
- **Telecom / Datacom**
- **Medical & Pharmaceutical**





Marketing Strategy

Global Sales Network



OZ Optics has resellers and distributors in over 30 Countries and Regions with over 10,000 customers worldwide:



Austria



Germany



Luxembourg



Sweden



Belgium



Greece



Netherlands



Switzerland



Brazil



Hong Kong



Norway



Taiwan



Canada



India



Poland



Thailand



China



Ireland



Portugal



Türkiye



Denmark



Italy



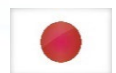
Singapore



United Kingdom



France



Japan



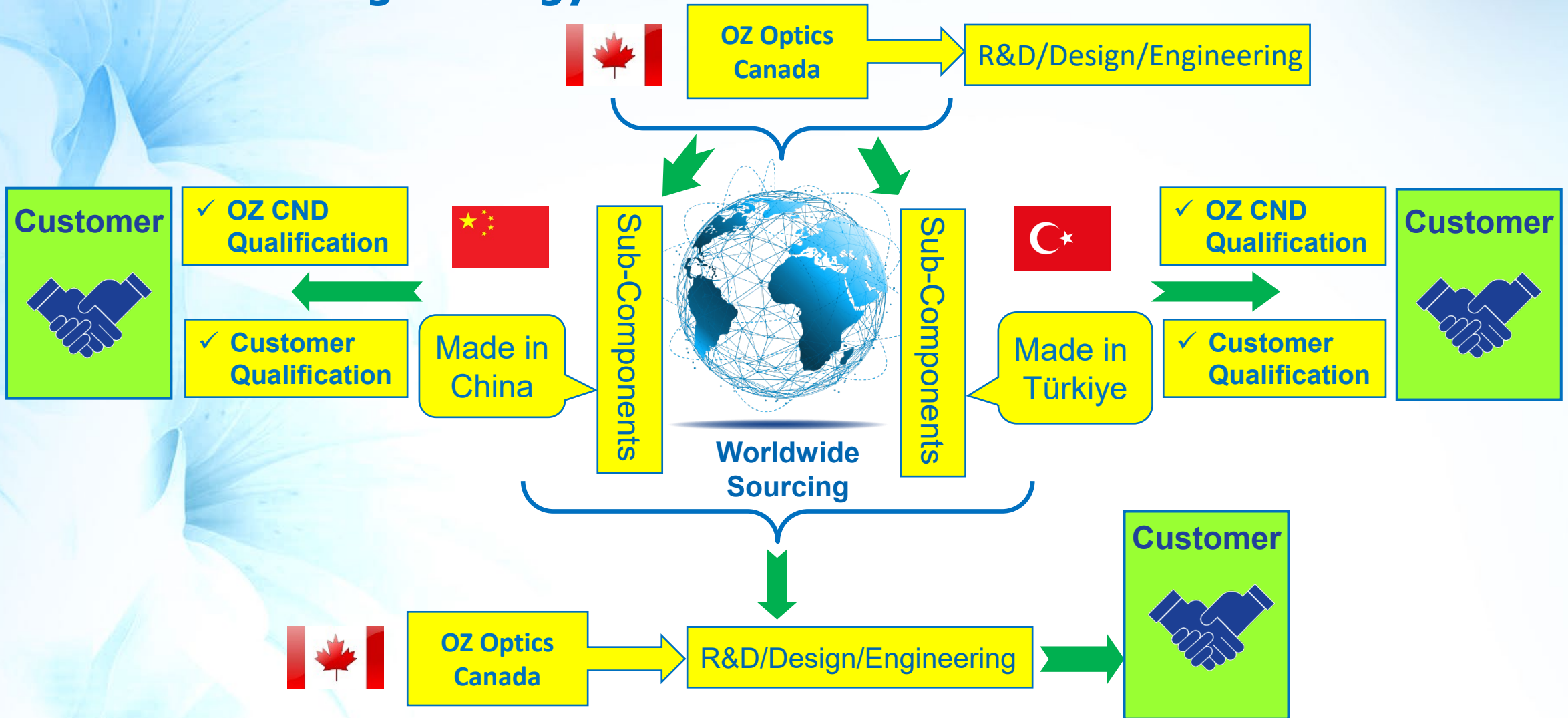
South Korea



United States

Operation Strategy

Manufacturing Strategy





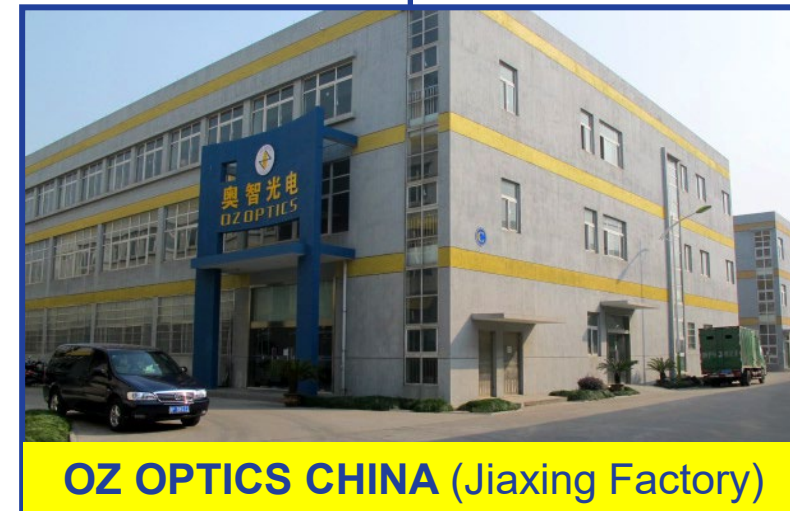
Marketing & Operation Strategy

Competitive Advantage

- Superior Technology
Innovative Engineering
- Competitive Pricing
- Global Presence
- Extensive Experience
in Fiber Optics Manufacturing
- Exceptional Quality and Service



Branch Network





Branch Network

Facility - Ottawa Headquarters

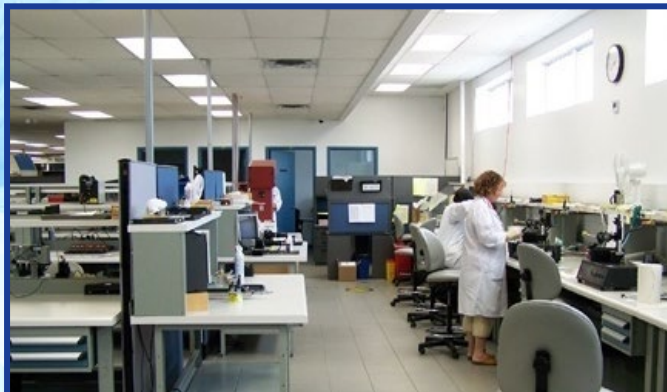
- 60,000 sq ft. - Manufacturing and R&D Facilities
- 15,000 sq ft. - Admin, Sales and Marketing
- 15,000 sq ft. - Training and Fitness Facilities





Branch Network

Facility - Ottawa Headquarters



Production Area



Training Centre Building



Meeting Room



Swimming Pool



Branch Network

Facility - Türkiye Factory (Izmir, Türkiye)

- Operational since 2000
- 33,000 sq ft. Manufacturing Facility
- Located in Free Trade Zone
- Low Tax Rates
- Sub Component Parts Manufacturing
- High Quality Labor
- AR Coating Machine & Clean Room onsite





Branch Network

Facility - China Factory (Jiaxing, China)

- Operational since June 2010
- Wholly Foreign Owned Enterprise
- Cost Effective Manufacturing
- High Quality Labor
- Supply Chain Integration





Branch Network

Facility - China Factory (Jiaxing, China)

- Located in Economic Development Zone
- 4000+ sq meters - Total Area
 - 500 sq meters – Admin, Sales and Marketing
 - 3500 sq meters – Manufacturing Area
 - ✓ 500 sq meter – Class 10,000 Clean Room
 - ✓ 500 sq meter – ESD Working Area





OZ Optics China

Zhejiang OZ Optics Technologies Co., Ltd



- Operational since June 2010
- Wholly Foreign Owned Enterprise
- NPI & Production Line Setup
- On-site Training by OZ CND
- Began Mass Production in September 2010
- Completed Main Facility Expansion in 2019





Fiber Optic Test Equipment

OZ Optics offers a wide range of standard test equipment, as well as a range of specialized equipment for polarization related measurements.

Features:

- **Many Types of Optical Sources Are Offered**
- **Fixed and Tunable Filters Are Available**
- **A Variety of Types of Optical Power Meters Are Available**
- **Instruments for Measuring Polarization Are Offered**
- **Fixed or Variable Delay Lines for Polarization Compensation Are Offered**



Fiber Optic Test Equipment

Recent additions to the OZ line of Test and Measurement Equipment Includes:

- **Entangled Polarization Photon Sources**
- **High Resolution Spectrometer**
- **Optical Signal-to-Noise ratio Generator**
- **High-Speed Polarization Controller-Scrambler**
- **Motorized Polarization Dependent Loss Emulators**
- **Benchtop Multichannel Motorized Attenuators**
- **Modulator Bias Controller**
- **ASE Sources**
- **Lamppy**



Fiber Optic Test Equipment

Many types of interfaces to OZ Optics instruments are offered, including:

- **USB- Standard (For Speed and Ease of Use)**
- **RS-232- Standard on Legacy Products**
- **SPI- For Embedded Systems**
- **Wireless- For Remote Access**
- **Ethernet Interface for Custom Rack-mount System**

Custom interfaces are also available.

Polarization Extinction Ratio Meters

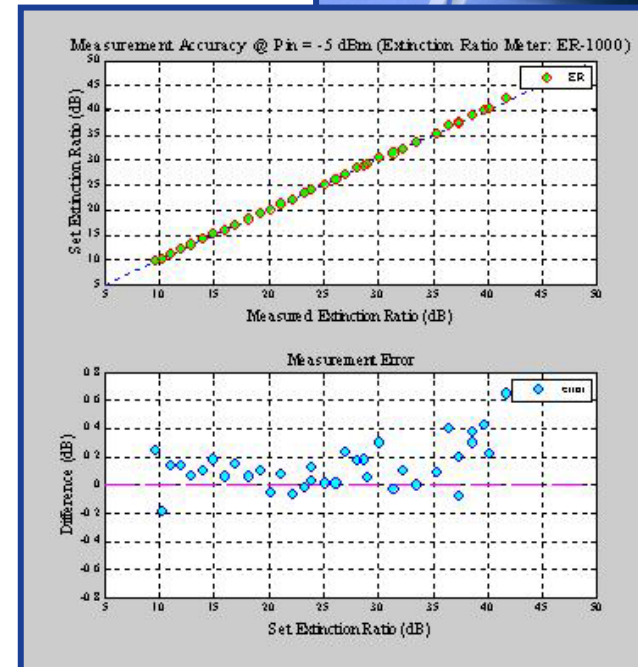
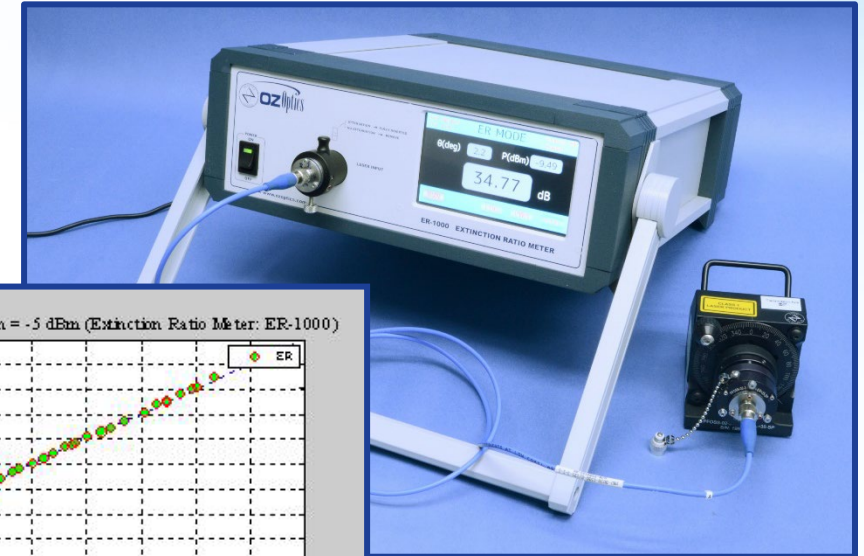
- Measure up to 40 dB Extinction Ratio
- 0.3 Degree Angle Resolution
- Up to 2 Watts with Removable Fix No Filters
- Broadband Wavelength: 400 – 2050 nm
- USB or RS-232 Interfaces Available





Benchtop Polarization Extinction Ratio Meter

- Automatically Positions Fiber for Optimum Power
- Measures Angles to within 1°
- Measures up to 50 dB ER and up to 2 W
- Color Touch Screen Display
- Removable Receptacle





Highly Stable Polarized Sources

- As Good as 40 dB Extinction Ratio
- Pigtail & Receptacle Versions
- 375 to 2050 nm Wavelengths
- Motorized Polarization Rotator Available as an Option



DTS0041 - Highly Stable Polarized Source



Fiber Optic Polarized Sources

- As Good as 40 dB Extinction Ratio
- Pigtail & Receptacle Versions
- 635 to 2050 nm Wavelengths
- Motorized Polarization Rotator Available as an Option



Polarization Measurement System for V-Groove PM Fiber Assemblies



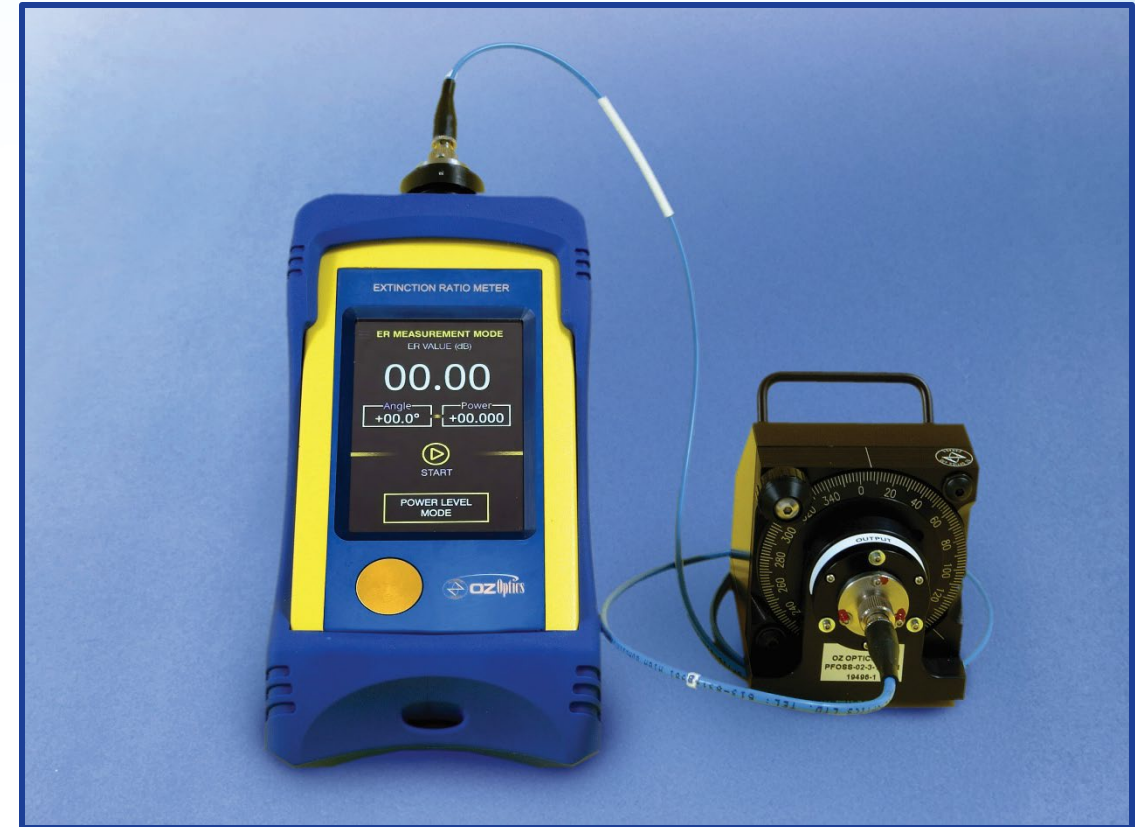
- Automatically Positions Fiber for Optimum Power
- Measures Angles to within 1°
- Measures up to 40 dB ER



DTS0068 PER Measurement Test Set for V-Groove Assemblies and PM Patchcords

Polarization Measurement System for V-Groove PM Fiber Assemblies

- Automatically Positions Fiber for Optimum Power
- Measures Angles to within 1°
- Measures up to 40 dB ER



Electrically Driven Polarization Controllers



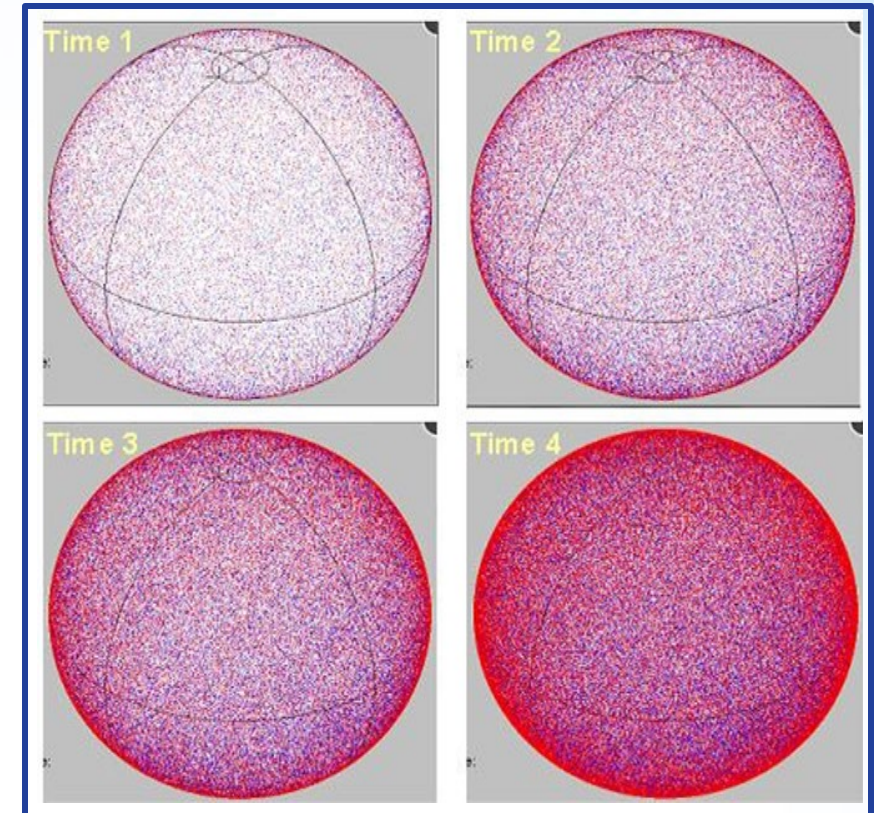
- Continuous Control of Polarization
- No Insertion Losses or Return Losses
- > 100 Hz Response Speed
- Low Activation Loss



High-Speed Polarization Controller-Scrambler Optical Module



- Continuous Control of Polarization
- Negligible Insertion Losses, Return Losses or PDL
- Up to 30 kHz Response Speed
- Inline and Low Activation Loss
- Compact and PCB Mountable



DTS0143 - High Speed Polarization Controller-Scrambler (OEM Version)

High-Speed Electro-Optics Polarization Controller-Scrambler



- Rapid Response Time ($< 10 \text{ Us}$) and Linear Response
- Based on Solid State Crystals Design
- Long Operating Lifetime
- Low Activation Loss
- Compact and PCB Mountable

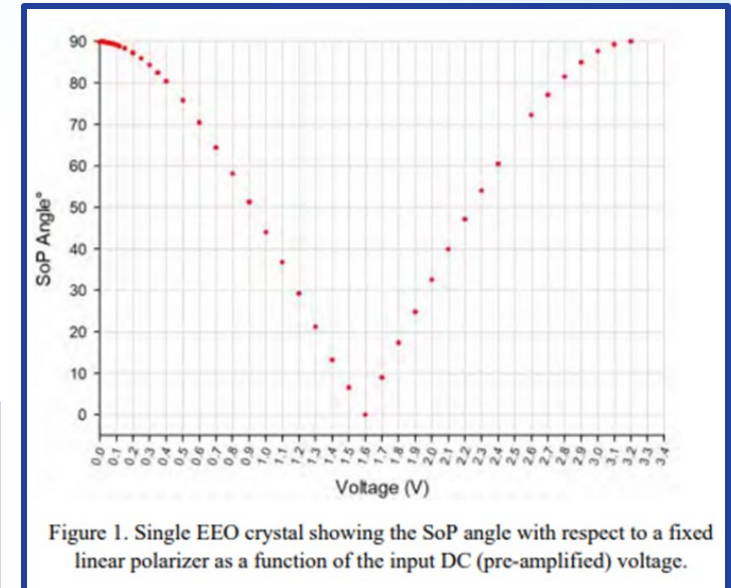
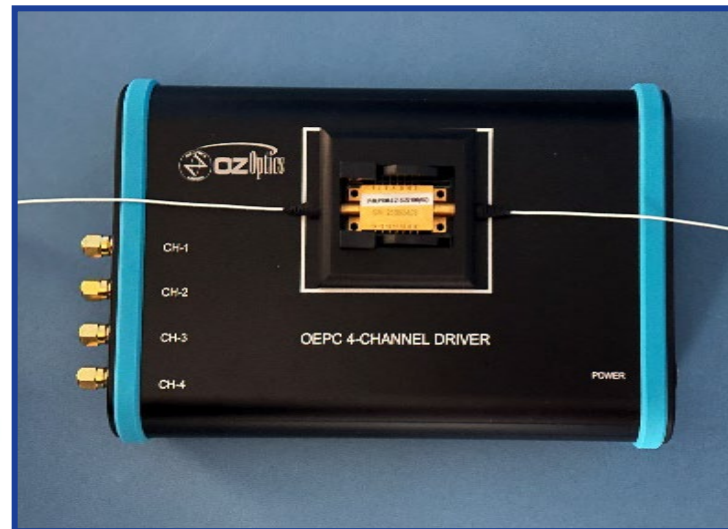
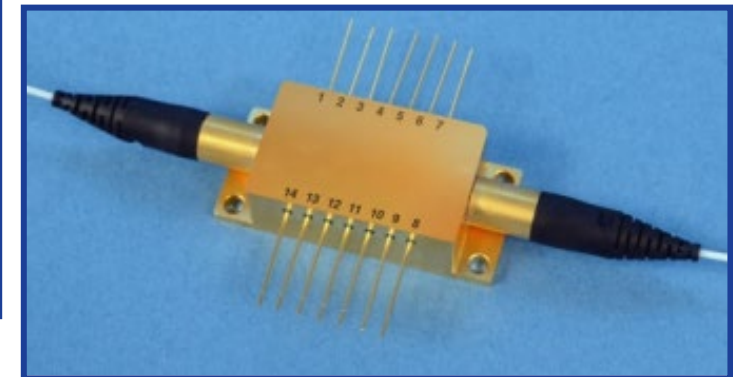


Figure 1. Single EEO crystal showing the SoP angle with respect to a fixed linear polarizer as a function of the input DC (pre-amplified) voltage.



Polarization Dependent Loss Emulator



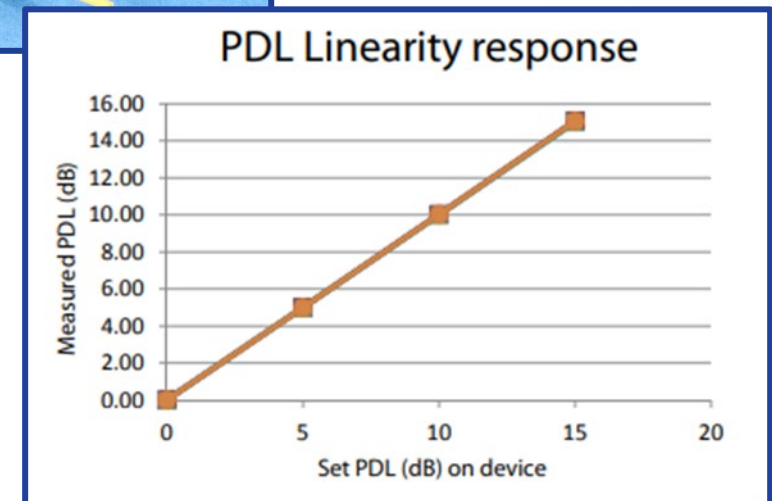
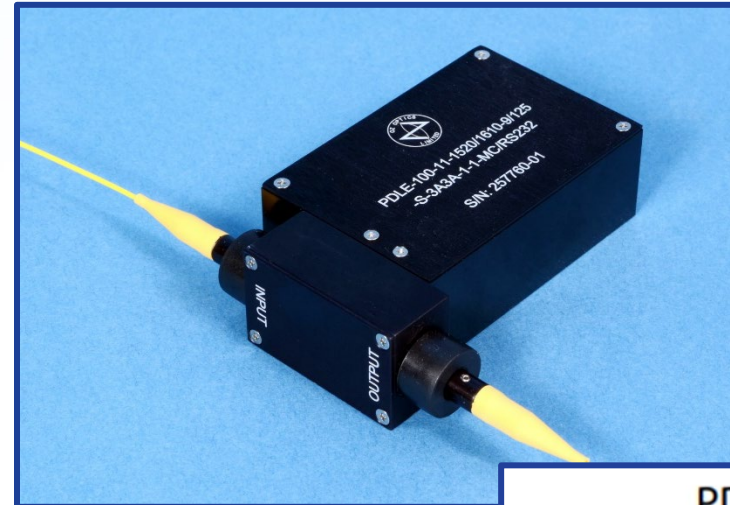
- 0.05 dB To 10 dB Polarization Dependent Loss
- Fixed or Manually Variable PDL
- Broad Wavelength Range, Compact, and Low Cost
- PMD Free Optional (<0.1 ps)
- Very Low Wavelength Dependence



DTS0065 - Polarization Dependent Loss Emulator

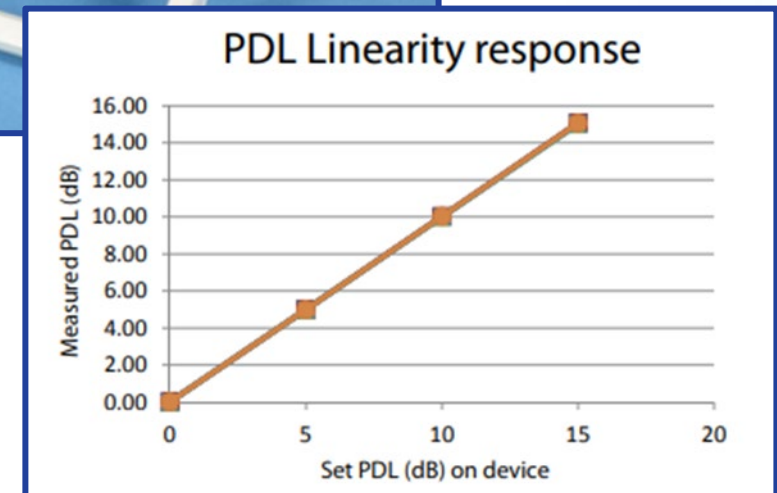
Motor Driven Polarization Dependent Loss Emulator - OEM

- 0.05 to 20 dB Polarization Dependent Loss
- High Resolution Electrically Controlled PDL
- Broad Wavelength and Low Wavelength Dependence
- PMD Free Optional (< 0.1 ps)
- Computer Interface: RS232, I2C or SPI



Motor Driven Polarization Dependent Loss Emulator - OEM

- 1 to 16 Channels Independent PDLE
- High Resolution Electrically Controlled PDL
- Broad Wavelength and Low Wavelength Dependence
- PMD Free Optional (< 0.1 ps)
- Computer Interface: USB as Standard



▶ Highly Stable Laser Diode Source



- Stable to ± 0.001 dB @ 1550 nm with FC/APC
- 375 to 2050 nm Wavelengths
- Built-in TE Cooler and Isolator



DTS0040 - Highly Stable Laser Diode Source

▶ Light Sources



- Stable to ± 0.01 dB, LED, LD Source @ 1550 nm with FC/APC
- 635 to 2050 nm Wavelengths
- TE Cooled Versions Available with OZ-X000 and HIFOSS Styles



DTS0019 - Laser Diode Source - Fiber Optic (Single or Multi-Wavelength)



DTS0009 - Dual Wavelength LED Source

Laser Diode/LED Source

- 1, 2 Wavelengths in One Unit
- Selectable Power Levels
- Continuous or Modulated Output
- MM, SM, or PM Versions Available
- Long Battery Life (More than 40 Hours)



DTS0019 - Laser Diode Source - Fiber Optic (Single or Multi-Wavelength)



DTS0009 - Dual Wavelength LED Source



Laser Diode/LED Source



- Insertion Loss Measurement
- Fiber Identification Using Internal Modulation
- Splicing and Connection Testing
- FTTX/PON
- Quality Assurance



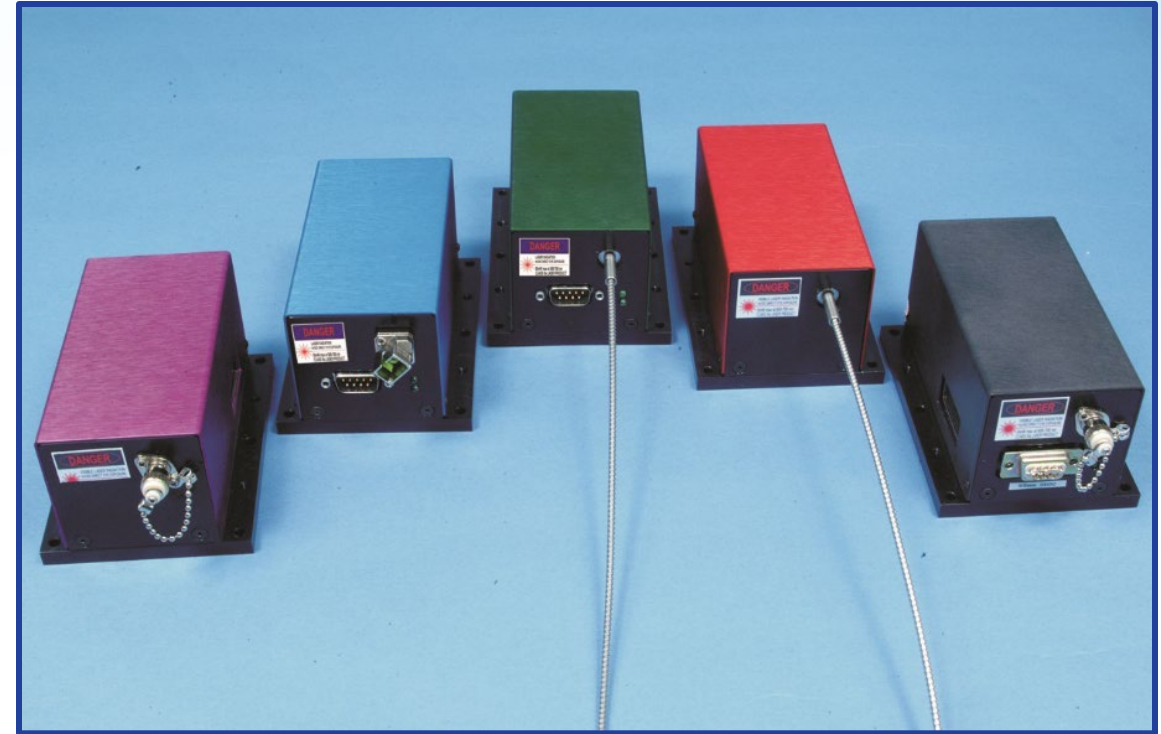
DTS0019 - Laser Diode Source - Fiber Optic (Single or Multi-Wavelength)



DTS0009 - Dual Wavelength LED Source

Ultra Stable OEM Laser Diode Source

- Output Powers to > 100 mW
- Power Stability to Better than 0.025 dB Depending on the Wavelength
- Wavelength Stability to < 0.1 nm
- Wavelengths from 375 to 2100 nm Available
- External Modulation to 50 MHz Available



Ultra Stable OEM Laser Diode Source



- Multimode, Singlemode, or PM Fiber Versions
- Free Space, Pigtail or Receptacle Styles
- Guaranteed Lifetime 18 Months or 5000 Hours
- Power Control via External Analog Voltage
- Custom Versions Available

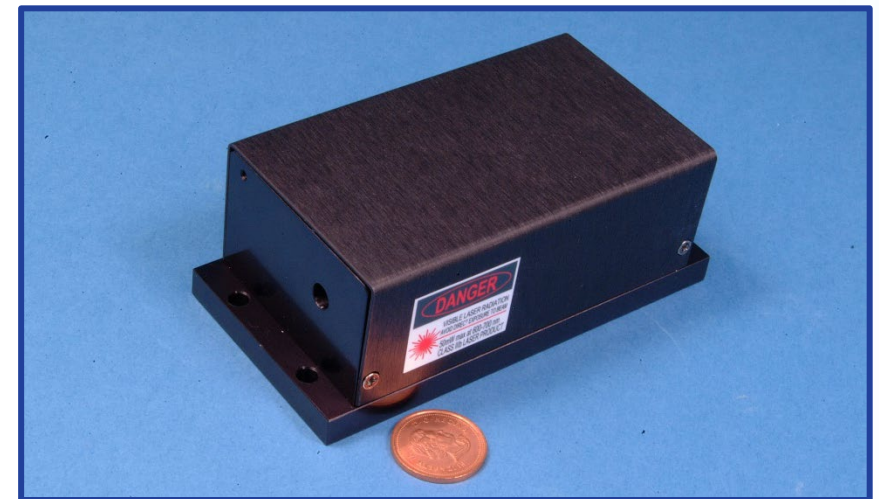


DTS0081 - Fiber Pigtailed Ultra Stable Laser Module OZ-1000, OZ-2000 & OZ-3000

Ultra Stable OEM Laser Diode Source



- Multimode, Singlemode, or PM Fiber Versions
- Free Space, Pigtail or Receptacle Styles
- Guaranteed Lifetime 18 Months or 5000 Hours
- Power Control via External Analog Voltage
- Custom Versions Available

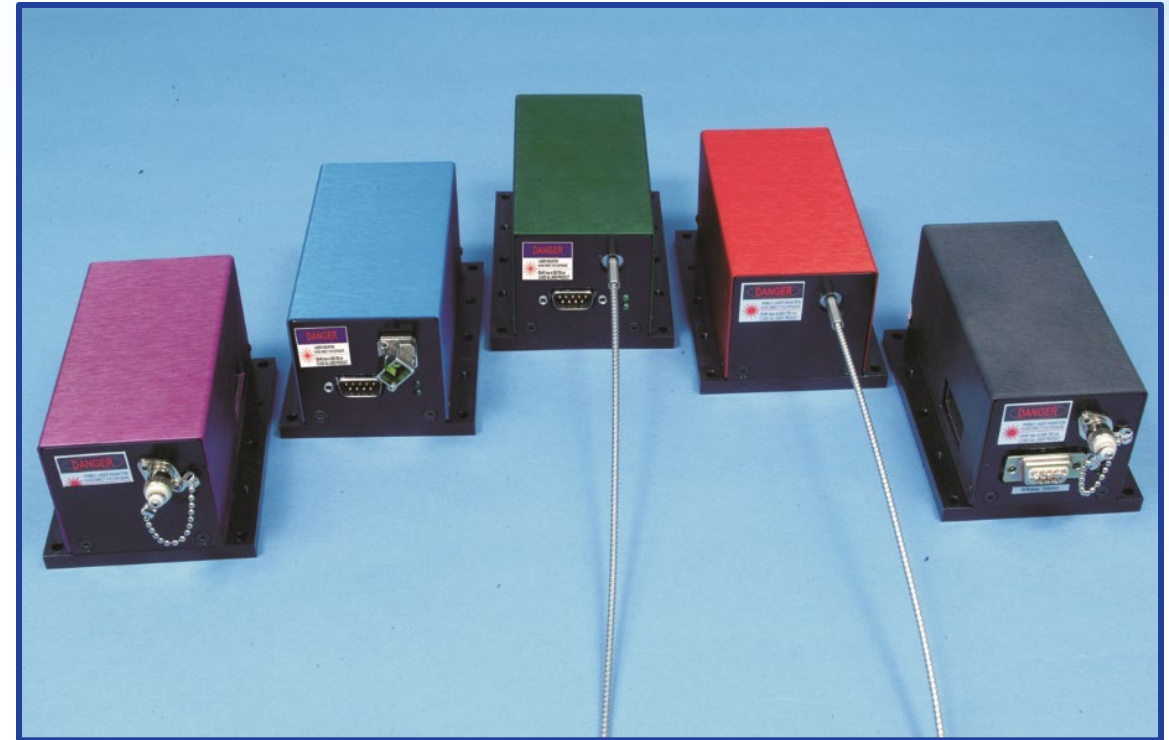


DTS0122 - Free Space Ultra Stable Laser Module OZ-5000

Ultra Stable OEM Laser Diode Source



- Insertion Loss or Attenuation Measurement
- High Power or Remote Fiber Delivery System
- Materials Evaluation and Testing
- Life Science Illumination
- Laser Scanning Microscopy
- Red/Green/Blue Illumination Systems



DTS0081 - Fiber Pigtailed Ultra Stable Laser Module OZ-1000, OZ-2000 & OZ-3000

Laser Diode Analyzer



- Integrated Temperature Controller
- Compact Plug-and-Play Laser Diode Analyzer
- Fast and Accurate LIV Curve Generation with 0.1 mA Resolution
- 15-bit Power Resolution
- Laser Diode Drive Current up to 500 mA
- 3 W Output Temperature Controller



Laser Diode Analyzer



- Password Protection, Hardware
- Interlock and Overcurrent
- Shut-off Circuitry for Safety
- Built-in Smart Driver for Diode Pinout Auto Detection and Temperature Control
- Touchscreen Control and Accompanying Windows Software





Broadband Polarization Entangled Photon Source



- High-quality Polarization and Frequency Entanglement
- Broad Bandwidth Covering C- and L- Bands
- High Fidelity and Excellent Stability
- Turn-key and Room-temperature Operation
- Low Power Consumption
- Compact and Light Weight Platform
- Rugged, Alignment Free, All Fiber Design



DTS0158 - Broadband Polarization-Entangled Photon Source

Telecom-Broadband Hyperentangled Photon Sources

- High-quality Hyper-entanglement in Polarization and Frequency
- Hyperentangled Biphotons Routed Deterministically in Two Output Ports
- Compatible with Fixed or Programmable Filters for High-dimensional Entanglement in Frequency Domain
- Broad Bandwidth Covering C- and L- Bands
- High Fidelity and Excellent Stability
- Turn-Key and Room-Temperature Operation
- Low Power Consumption
- Rugged, Alignment Free, All Fiber Design



DTS0187 - Broadband Hyperentangled Photon Source

Bright Entangled Photon Sources

- Highest Counts/Coincidences Rate Available in The Market
- Highly-Stable Benchtop Device with Excellent Fidelity
- Rugged, Alignment Free, All-in-Fiber Proprietary Design
- Controllable Accidental Photons Rate
- Built-in Noise-Suppression Filters
- High Heralding Efficiency (45%-70%)
- Hyperentangled Pairs Routed Deterministically Into Two Output Ports



DTS0198 - Bright Polarization-Entangled Photon Source Broadband Telecom



DTS0197 -Bright Polarization-Entangled Photon Sources Narrowband Telecom



Benchtop Polarization Entangled Photon Source



- High-Quality Turn-Key Polarization Entanglement
- Custom Wavelength Offerings
- Turn-Key and Room-Temperature Operation
- Rugged, Room Temperature Operation
- Two (Signal / Idler) Outputs or Single Output



DTS0200 - Polarization-Entangled Photon Source Narrowband 810 nm



Benchtop Correlated Photon pair Sources



- High-Quality Turn-Key Polarization Entanglement
- Custom Wavelength Selection
- Turn-Key and Room-Temperature Operation
- Rugged Aluminum Housing
- Two (Signal / Idler) Outputs or Single Output



DTS0199- Correlated Photon Pair Sources

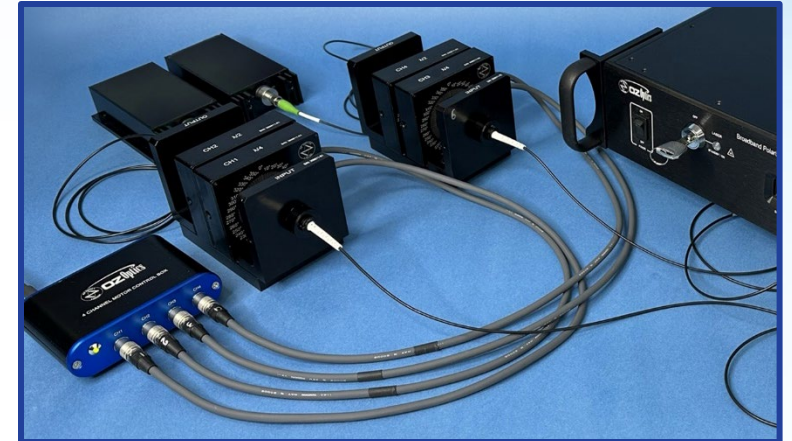
Polarization Entanglement Tomography Analyzer



- Plug-and-play Analyzer with a Controller Unit
- Customized Software and Intuitive GUI
- Quick and Precise Polarization State Rotators
- Compact Size and Small Footprint

Applications:

- Polarization State Tomography
- Automation of Multi-polarization State Analysis



DTS0196-Polarization Entanglement Tomography Analyzer

Ultra Stable Narrow Linewidth Source

- 1550 nm Narrow and Single Longitudinal Single Mode, or PM Fiber Versions
- Selectable Peak Wavelength on C-band: ITU-T, DWDM
- Pigtailed or receptacle styles
- Low RIN and High SMSR
- Wavelength Tunable and Power Modulation Options are Available



High-speed Benchtop Polarization Controller-Scrambler



- LCD Touch Screen Operation
- Fixed or Random Polarization State Generation Covering 1260 to 1650 Nm
- High Speed up to 1 KHz in Scrambling Mode
- User Selectable Frequencies
- User Control of Polarization State
- Compact and Light Weight Platform
- Rugged Casing



DTS0174 - High-Speed Benchtop Polarization Controller-Scrambler



Benchtop Optical Signal-to-noise Ratio Generator



- Automatically Set User Designated Optical Signal-to-Noise Ratio
- Automatically Set User Designated Optical Output Power Level
- Stand-Alone with Touch-Screen
- GPIB and Ethernet Interfaces for Computer Control
- Optical Port for Connecting an External OSA
- Built-in Tunable Filter
- Provision for External Filter



DTS0164 - Benchtop Intelligent Optical Signal-to-Noise Ratio Generator

Optical Power Regulators



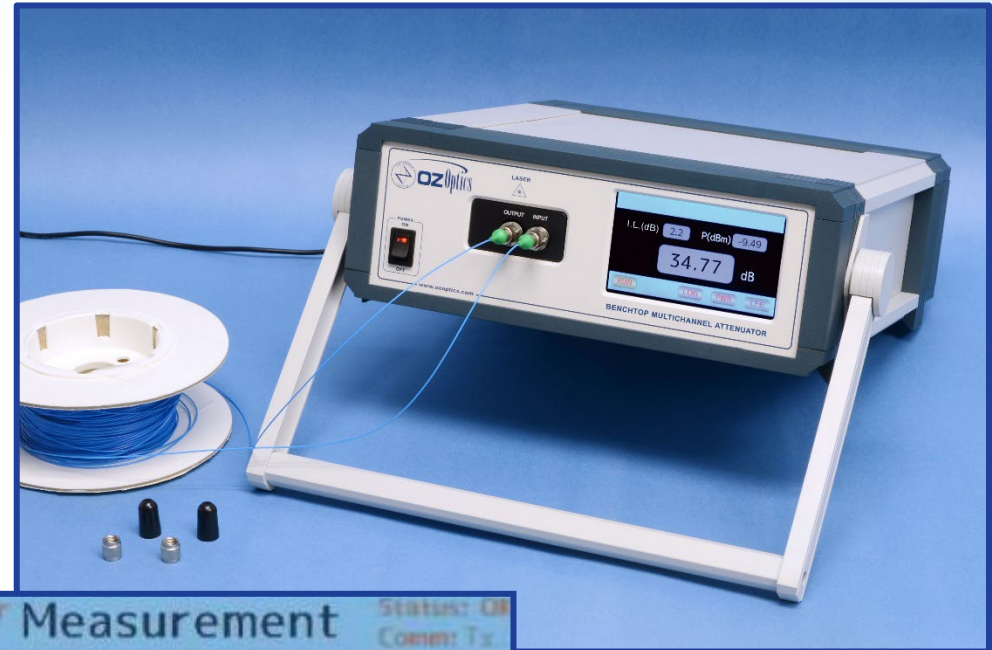
- Controls Output Power to ± 0.1 dB
- 50 dB Dynamic Range
- Millisecond Response Speed
- Single and Multi-Channel Versions
- Singlemode and PM Fiber Versions
- Color Touch Screen Display



DTS0058 - Optical Power Regulators

Benchtop Fiber Length Meter

- Measures Lengths from a Few mm up to 500 m
- No dead Zone. Can Measure Fibers Less than 1 cm Long
- Better than 2 mm Resolution and <math><0.1\%</math> Measurement Error
- Works with Singlemode, Multimode, Polarization Maintaining and Specialty Fibers
- Color Touch Screen Display



Backreflection Meter



- Sensitive to -70 dB
- 1300/1550 nm Dual Wavelength Source
- Also Measures Insertion Losses
- RS-232 or USB Interfaces Available



DTS0002 - Backreflection Meter

Benchtop Backreflection Meter for Visible & Near Infrared Wavelengths

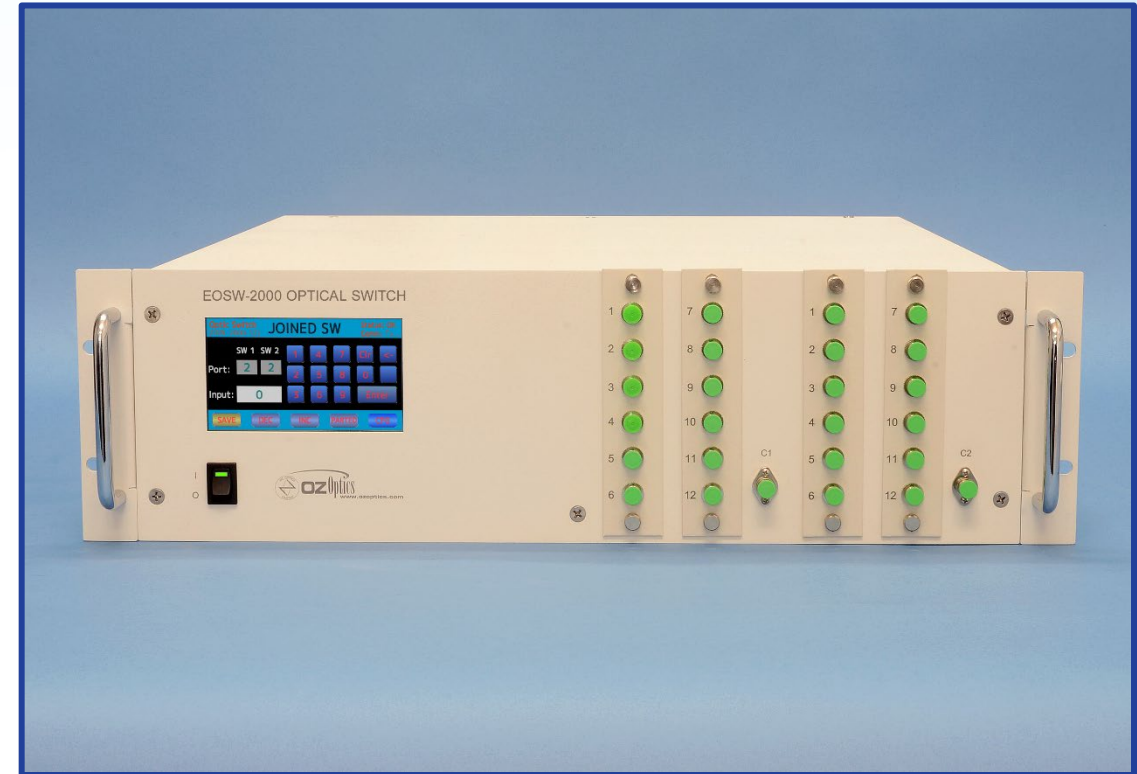


- Sensitive to -70 dB
- Wide Wavelength Offering For Special Applications: 635-1625 nm
- Built-in Broadband SLED For Improved Stability
- Optional Insertion Loss Measurement Capability
- Color Touch Screen and USB Interface Available



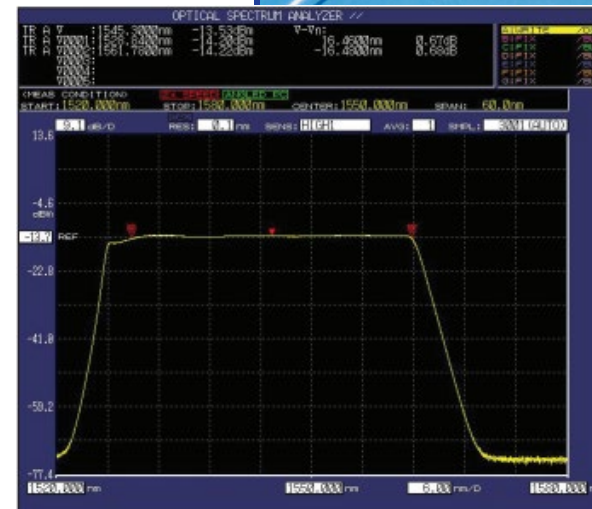
Benchtop Optical Switch

- Multiple Ports 1x4 to 1x32
- Standard Wavelength Option Is at 1310 and 1550 nm, Other Options Are Also Available Upon Request
- High Adjacent Channels Isolation
- Touch Screen Display with High Resolution
- Fast Switching Time
- High Repeatability



▶ ASE Flat Spectrum C-Band Module - OEM

- High Output Power up to 13 dBm on C-band
- Flat Spectral Bandwidth Ripple < +/-0.5 dB
- High Stability
- PUMP TEC and Current Driver Included
- Optional Built-in Attenuator
- High Performance to Cost Ratio



ASE Broadband Light Source

- High Output Power from 13 to 27 dBm
- Wide Spectral Bandwidth: C-Band, L-Band or Both
- High Stability and Unpolarized Output Light
- USB and RS-232 Interface
- Optional Built-in Attenuator and Optical Power Monitor
- High Performance to Cost Ratio

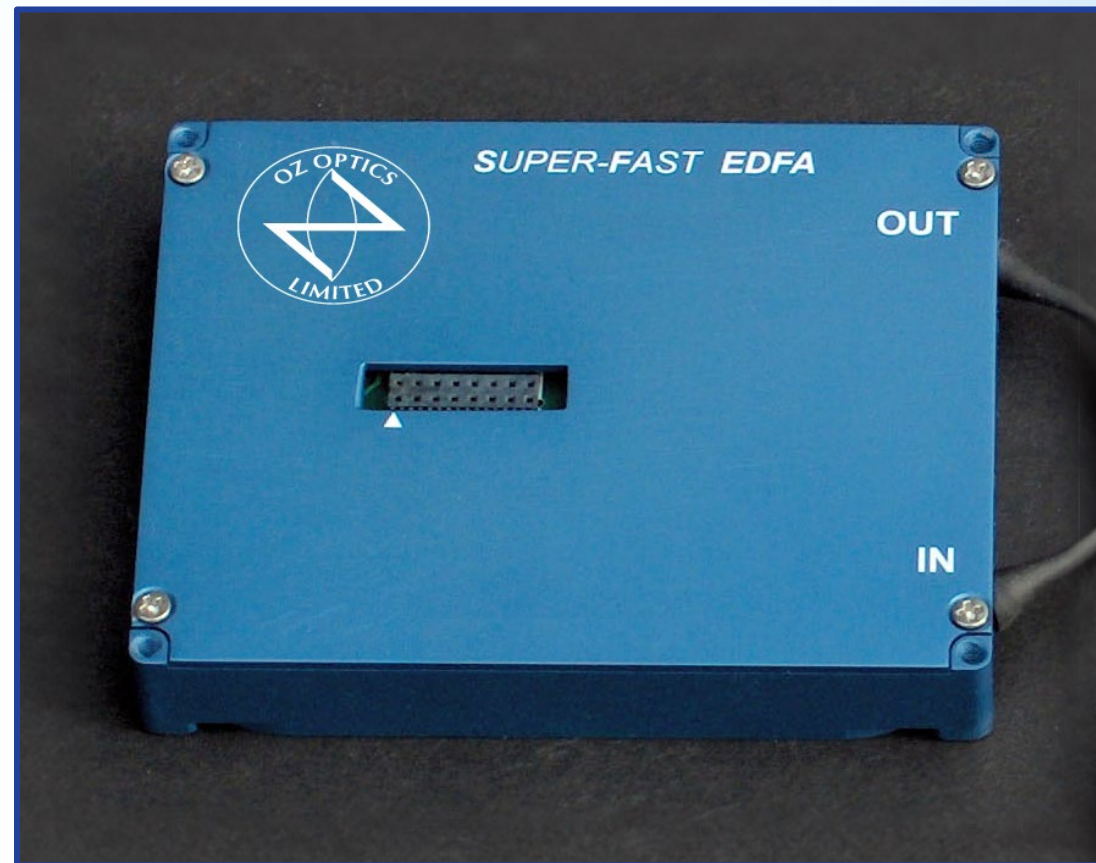


DTS0106 - ASE Broadband Light Source

Super Fast EDFA



- Gain Controlled
- Suppress the Transient Effects
- For DWDM Systems



DTS0161 - Auto Gain Controlled Fiber Amplifier with Fast Transient Suppression

Digital Variable Reflectors

- Test Sensitivity to Backreflection
- -1.5 dB to -60 dB Backreflection
- RS-232 or USB Interfaces Available



Digital Variable Attenuators

- 0.01 dB Resolution, Fast Response Time
- 0.6 to 60 dB Attenuation Range
- Low PDL and High Power Capability
- RS-232 or USB Interface
- Wavelength Flatness in L, C, S Band



Digital Tunable Filters

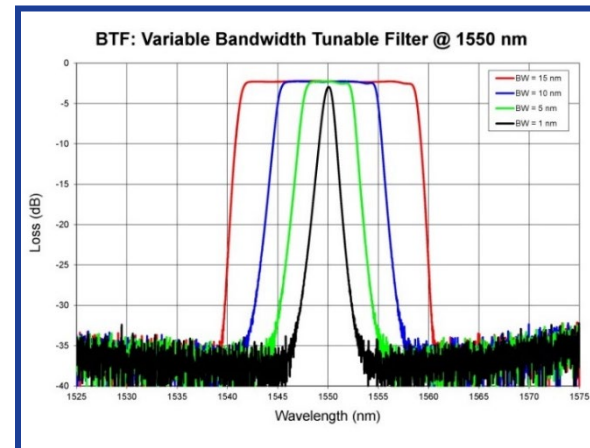
- < 1.2 nm Line Width, 0.1 nm Resolution
- 50 nm Tuning Range, Fast Response Time
- RS-232 or USB Interfaces Available



Manually Adjustable Polarization Insensitive Variable Bandwidth Tunable Filters Module

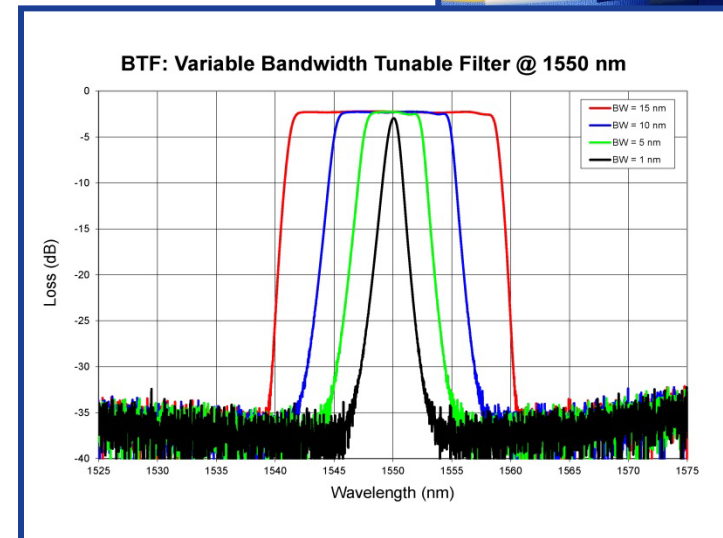
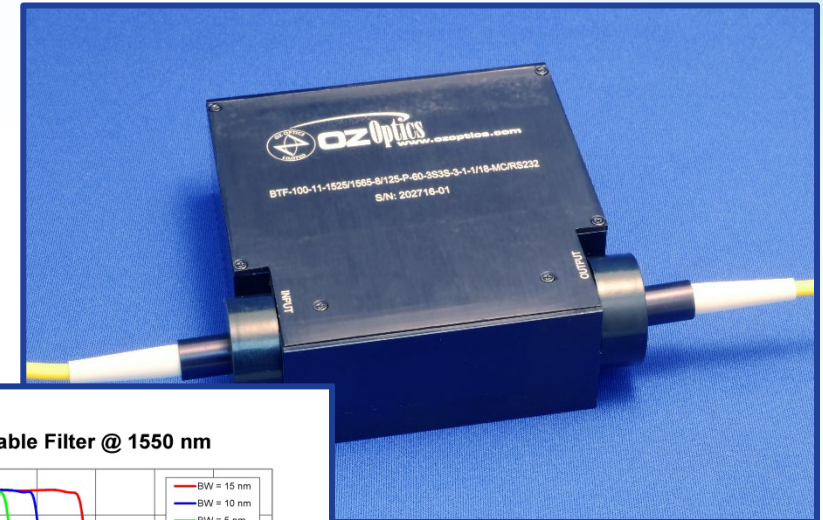


- 45 nm Tuning Range with 1 to 18 nm Continuously Adjustable Bandwidth
- Independently Tunable Both Wavelength and Bandwidth (Flat-Top), Polarization Insensitive
- High Out-of-Band Suppression
- SM, PM and Multimode Version



Motor Driven Adjustable Polarization Insensitive Variable Bandwidth Tunable Filters Module

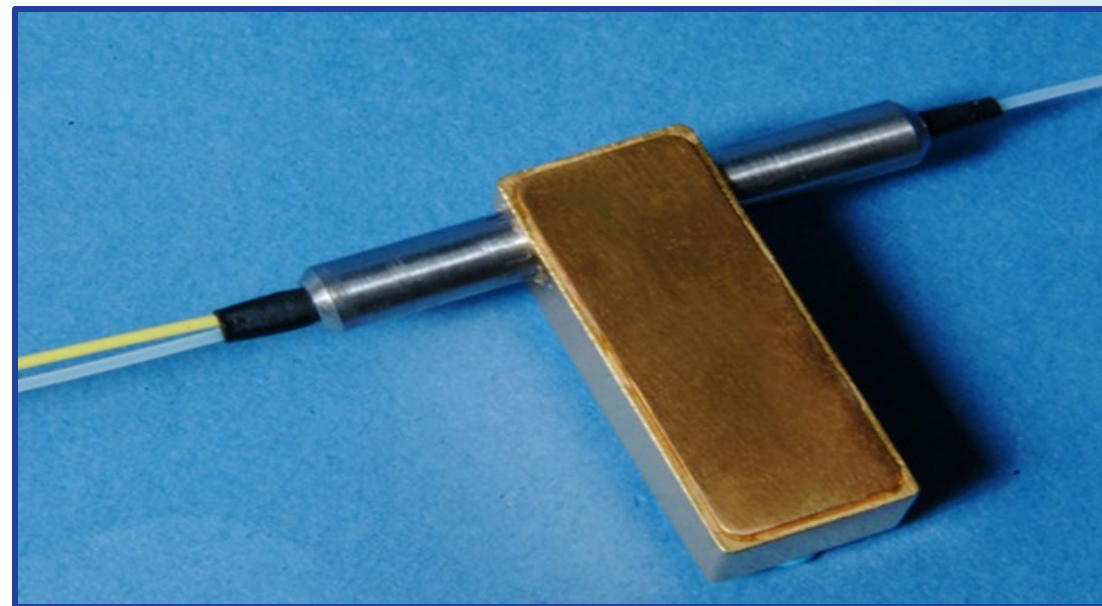
- 45 nm Tuning Range with 1 to 18 nm Continuously Adjustable Bandwidth
- Independently Tunable Both Wavelength and Bandwidth (Flat-Top), Polarization Insensitive
- Built-in Microcontroller with RS-232, IIC, or SPI Interface
- High Out-of-Band Suppression
- SM and PM Version



Polarization Maintaining Fiber Switch



- > 20 dB Polarization ER
- Latching and Non-Latching Versions
- < 0.6 dB Loss
- Now Offering MEMS Based 1 x N Optical Switches (Non-Latching)



DTS0124 - Polarization Maintaining and Singlemode Fiber Optic Switches

Universal Optical DNA Rapid Detection System

for Pathogens Including Covid-19, Sars, Ebola,
Cholera, Salmonella, Etc.

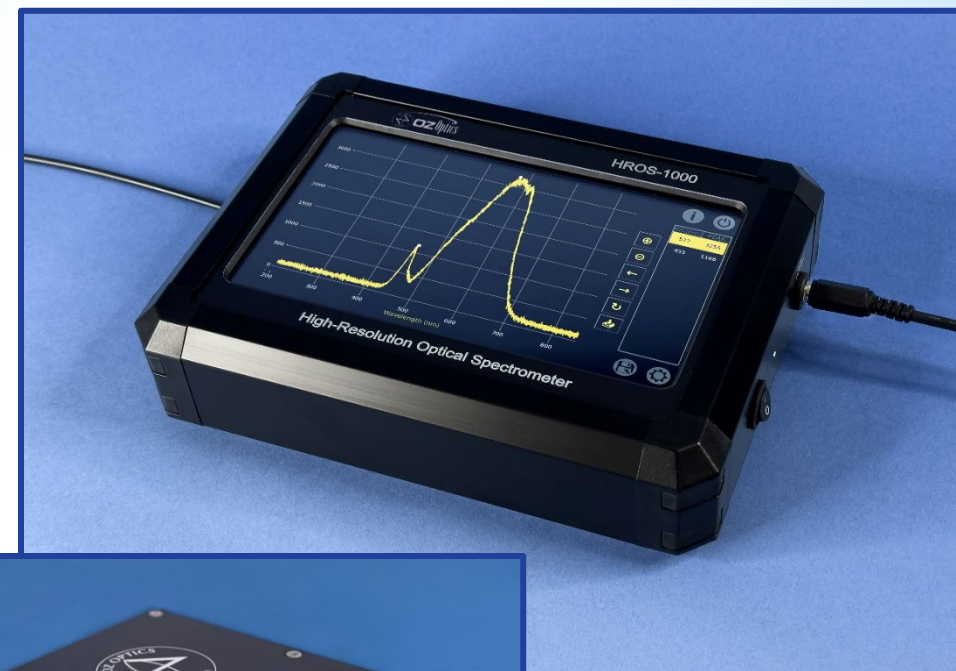
- Rapid DNA/RNA Detection of Virus, Fungus and Bacteria
- Intuitive Software Displays Real Time Data During Testing
- Highly Sensitive and Specific Detection of Low Viral Level
- A Fraction of the Cost of qPCR Based Systems
- Test up to 8 Samples Simultaneously



High-Resolution Optical Spectrometer



- Transmission Grating to Realize Unprecedented High Sensitivity
- Optimized Optics with High Pixel Density Enabling Outstanding Resolution
- Optics Allow Fast Sampling Rates and High Signal-to-Noise Ratios
- Band-Pass Filters Suppress Higher Order Noise on the Detection Side
- Applications: Ranging from Smart Farming to Pharmaceutical Analysis

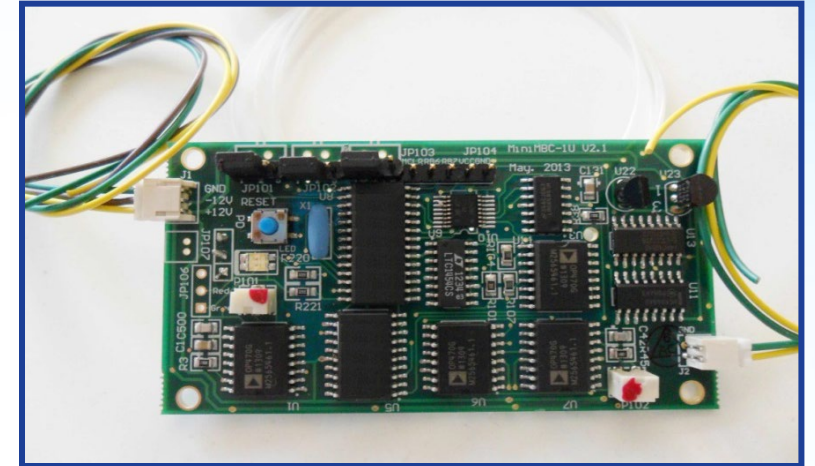


DTS0193 High-Resolution Optical Spectrometers



Modulator Bias Controllers

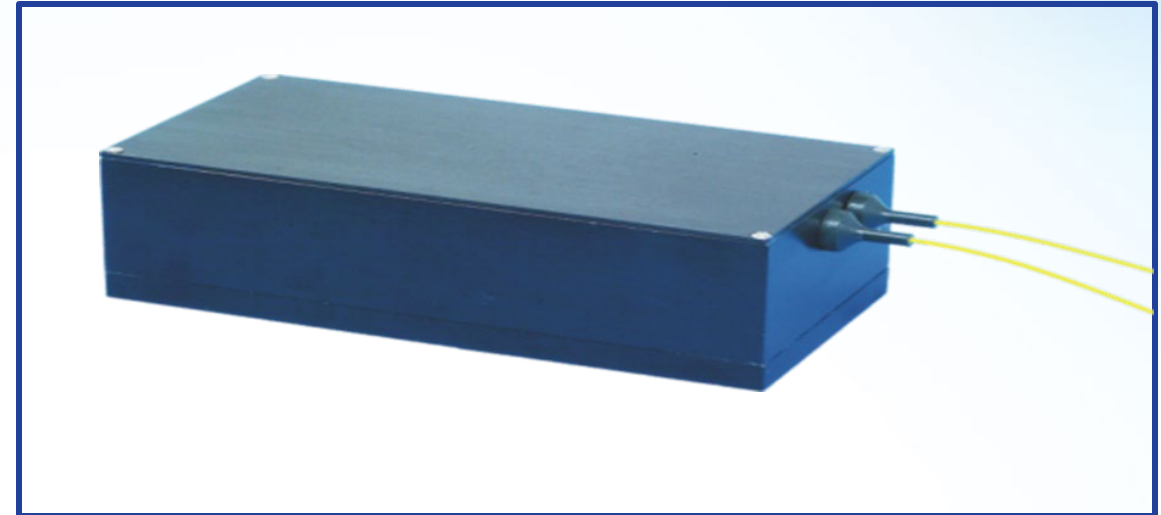
- Broad Line of Modulator Bias Controllers
- Most Can Lock to The Null, Peak +Quad, or -Quad Points
- Or Can Be Offered to Lock to Any Arbitrary Working Point
- Different Models Are Optimized for Specific Applications
- Some Do Not Use DITHERING



Modulator Bias Controllers (MBC)

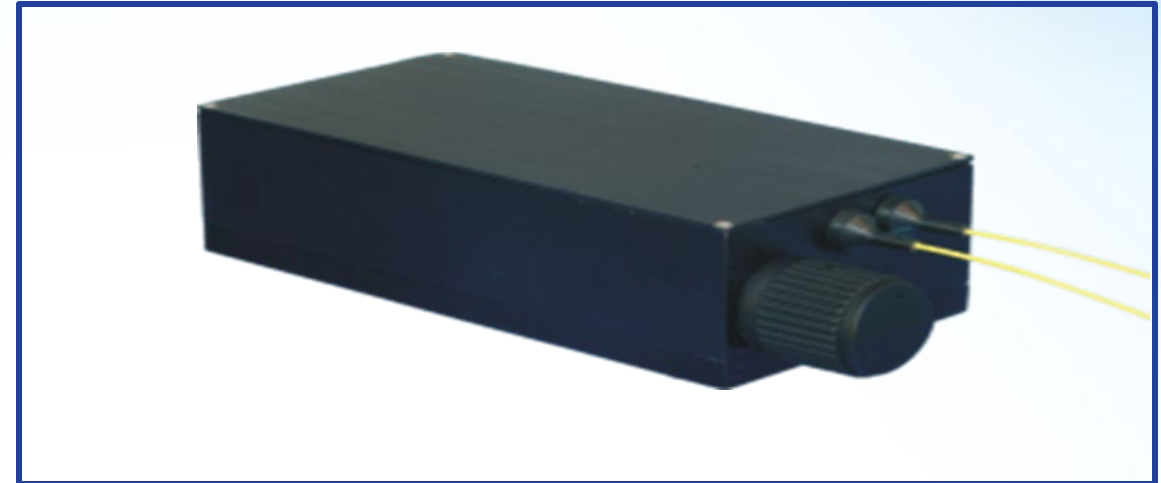
Differential Polarization Delay Lines

- **Varies the Delay Between Two Polarizations**
- **± 50 psec Delay, 0.1 psec Resolution**
- **< 1.2 dB Losses over the Delay Range**



Variable Optical Delay Lines

- **Motor Driven Version Is Available**
- **Over 600 ps Delay Range, < 1.5dB IL**
- **As Fine as 0.003 ps Resolution**



Variable Optical Delay Lines

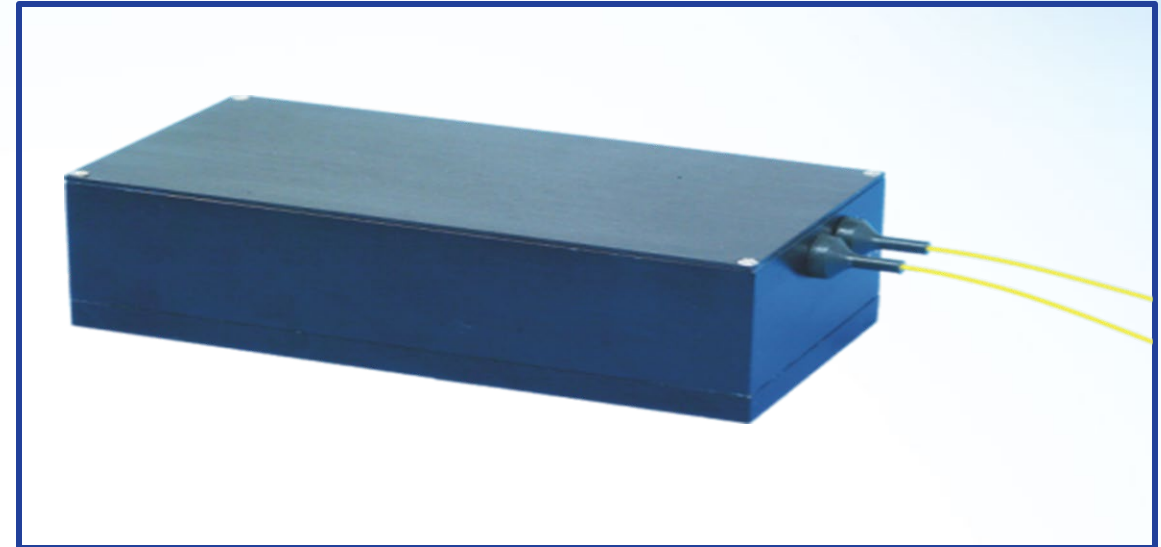
- Motor Driven Version Is Available
- Over 600 ps Delay Range, < 1.5 dB IL
- As Fine as 0.003 ps Resolution



DTS0055 - Optical Delay Lines

Variable Optical Delay Lines

- **Motor Driven Version Is Available**
- **Over 600 ps Delay Range, < 1.5 dB IL**
- **As Fine as 0.003 ps Resolution**



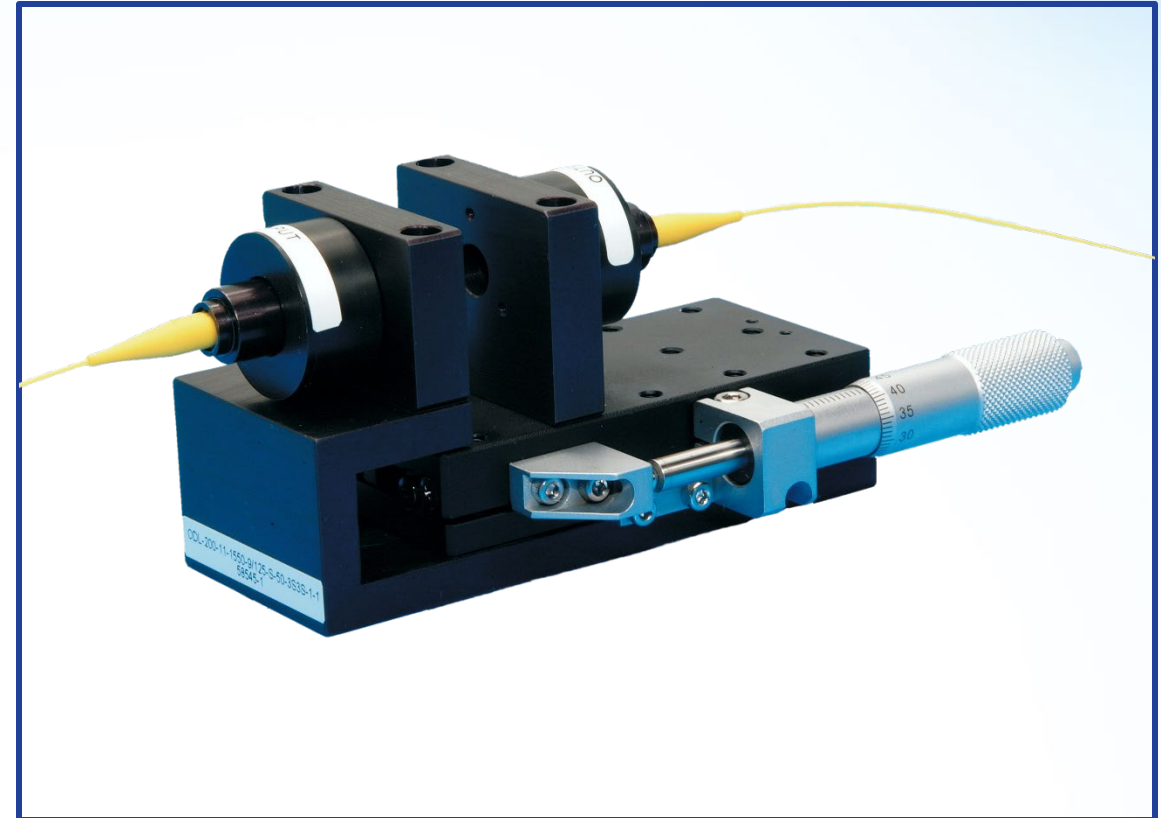
Variable Optical Delay Lines

- Motor Driven Version Is Available
- Over 600 ps Delay Range, < 1 dB IL
- As Fine as 0.003 ps Resolution



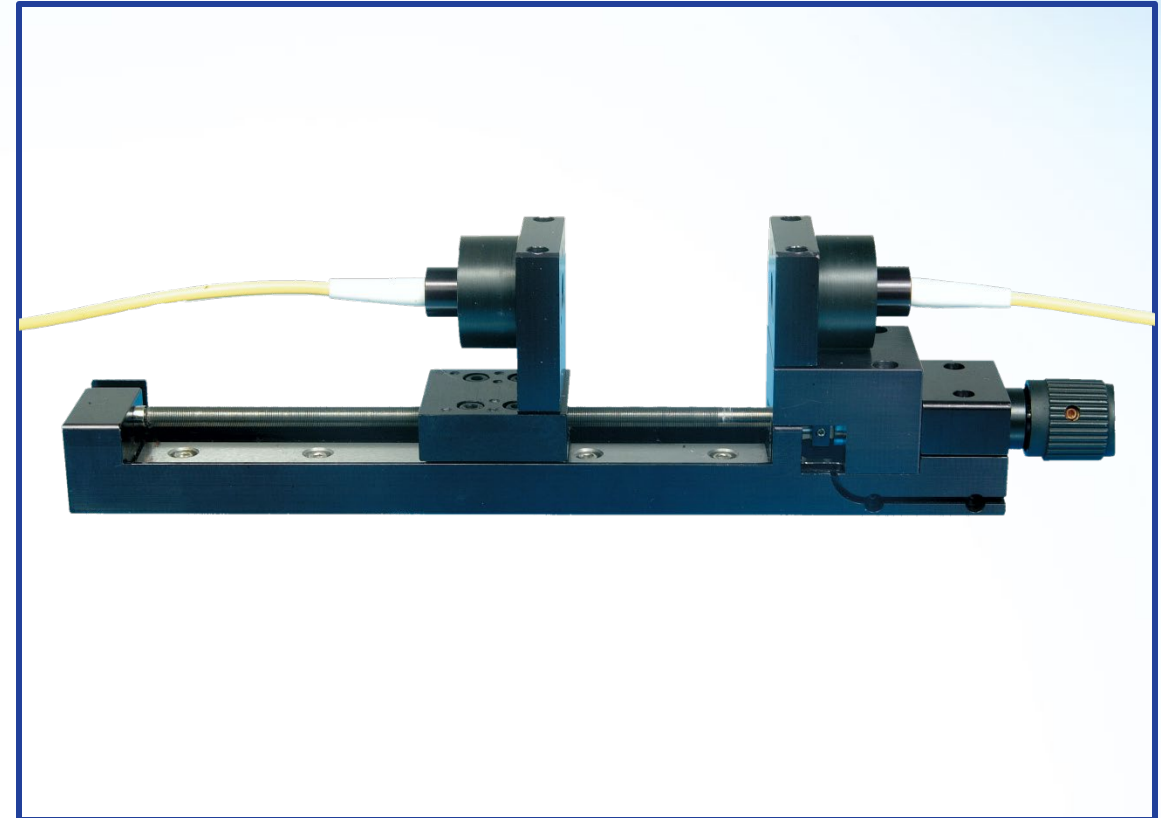
Variable Optical Delay Lines

- **Motor Driven Version Is Available**
- **Over 600 ps Delay Range, < 1.5 dB IL**
- **As Fine as 0.003 ps Resolution**



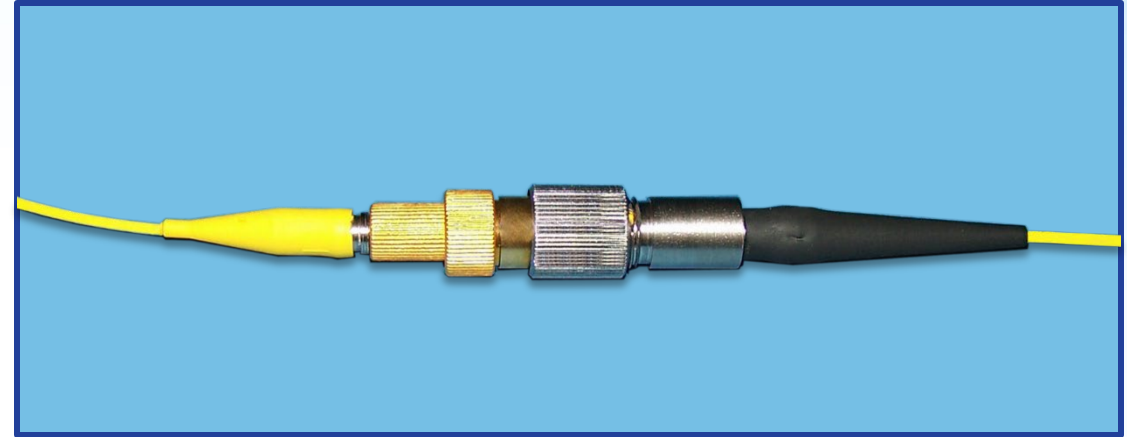
Variable Optical Delay Lines

- **Motor Driven Version Is Available**
- **Over 600 ps Delay Range, < 1.5 dB IL**
- **As Fine as 0.003 ps Resolution**



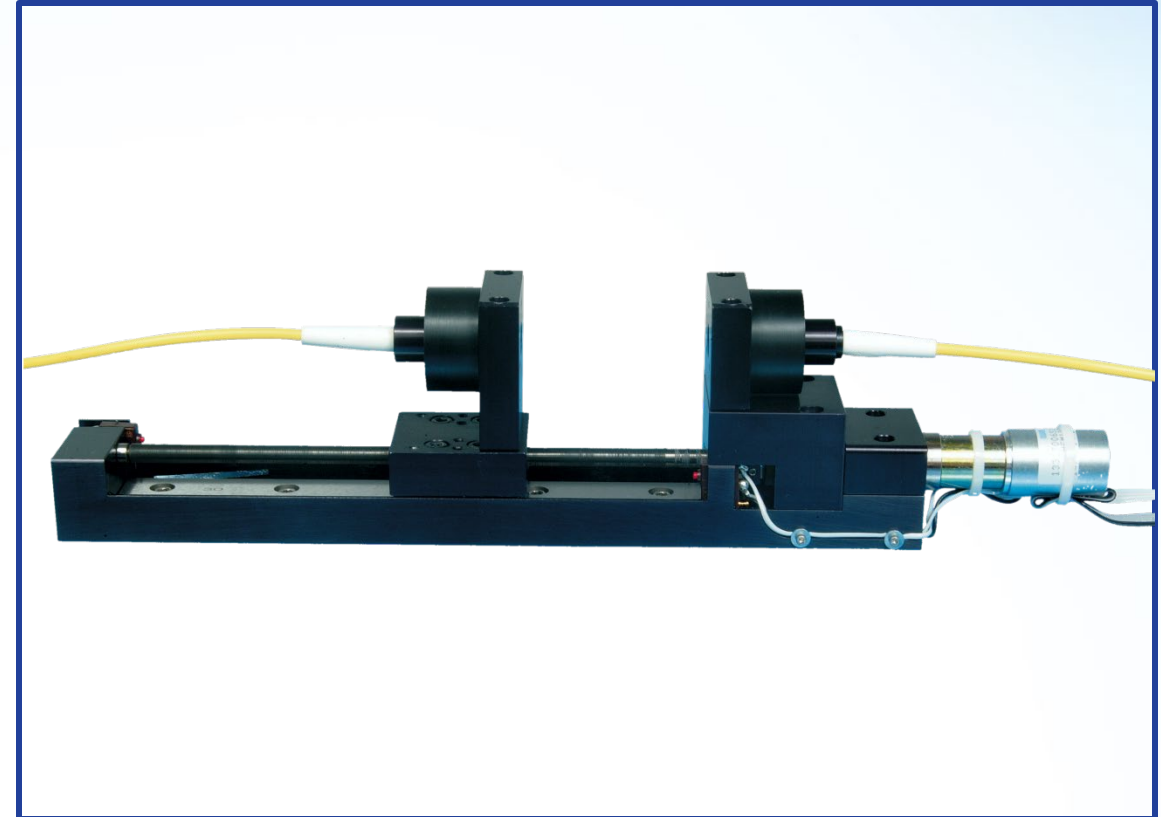
Variable Optical Delay Lines

- **Motor Driven Version Is Available**
- **Over 600 ps Delay Range, < 1.5 dB IL**
- **As Fine as 0.003 ps Resolution**



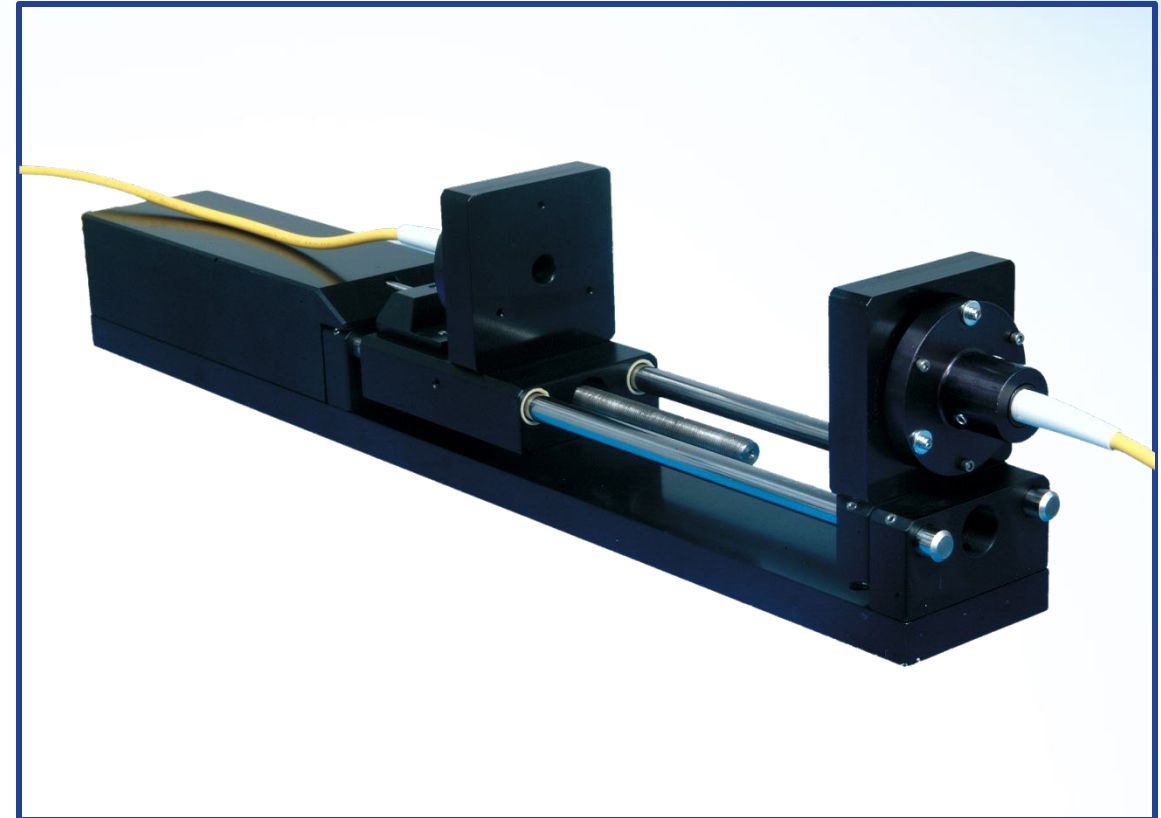
Variable Optical Delay Lines

- **Motor Driven Version Is Available**
- **Over 600 ps Delay Range, < 1.5 dB IL**
- **As Fine as 0.003 ps Resolution**



Variable Optical Delay Lines

- **Motor Driven Version Is Available**
- **Over 600 ps Delay Range, < 1.5 dB IL**
- **As Fine as 0.003 ps Resolution**





Non Contact High Power Visible Fiber Optic Fault Finder

- High Visibility
- Higher Output up to 30 mw
- Available with 520 nm (Green) or 635 nm (Red)
- Non-contact Fiber and Suitable with Bare Fiber Adapter

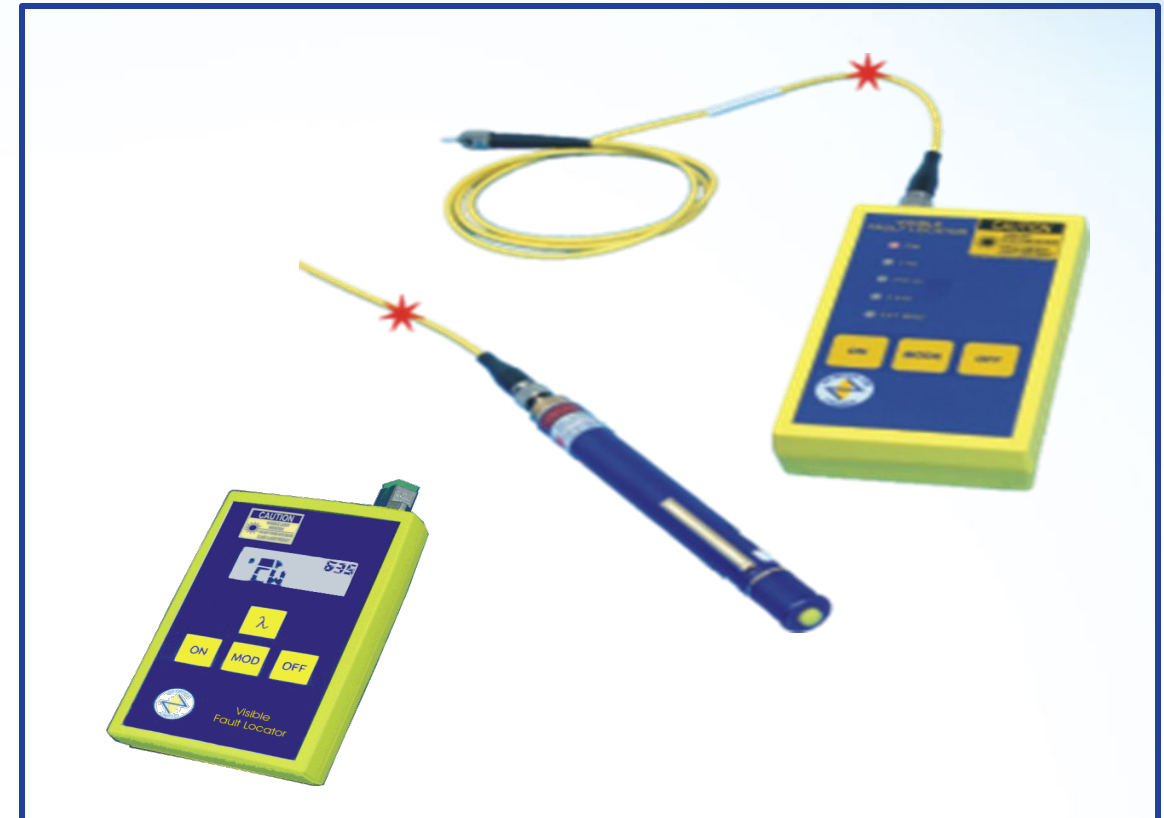


DTS0084 - Visible Fiber Optic Fault Locator

Pen & Pocket Size Fault Locators



- Detect Breaks in Fiber Optic Cables
- Use as an End-to-End Fiber Identifier, 635 nm
- Up to 30 mW (Bench-Top Version)
- Up to 40 Hours of Battery Operation



DTS0084 - Visible Fiber Optic Fault Locator

Pen & Pocket Size Fault Locators



- **Detect Breaks in Fiber Optic Cables**
- **Use as an End-to-End Fiber Identifier, 635 nm**
- **0.5 mW for Pen-Sized Version**

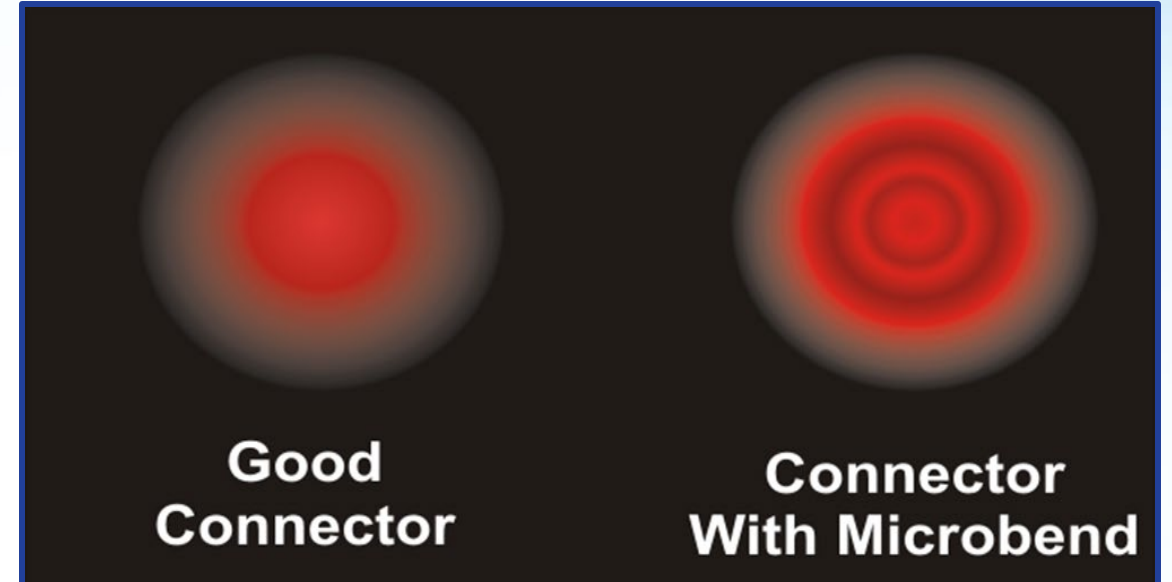


DTS0084 - Visible Fiber Optic Fault Locator

Pen & Pocket Size Fault Locators



- Detect Breaks in Fiber Optic Cables
- Use as an End-to-End Fiber Identifier, 635 nm
- Up to 30 mW, Inexpensive



Power Meter with Smart Detector Heads



- 85 dB Dynamic Range, Fast Response Time
- 400 – 2050 nm Wavelengths (not calibrated for > 1700 nm), Built-in Attenuator
- Dual Detector Head Capability
- RS-232 or USB Interfaces Available



DTS0057 - Optical Power Meter with Smart Detector Head

▶ Power Meter with Smart Detector Heads



- 85 dB Dynamic Range, Fast Response Time
- 400 – 2050 nm Wavelengths (not calibrated for > 1700 nm), Built-in Attenuator
- Dual Detector Head Capability, USB or RS-232 Port

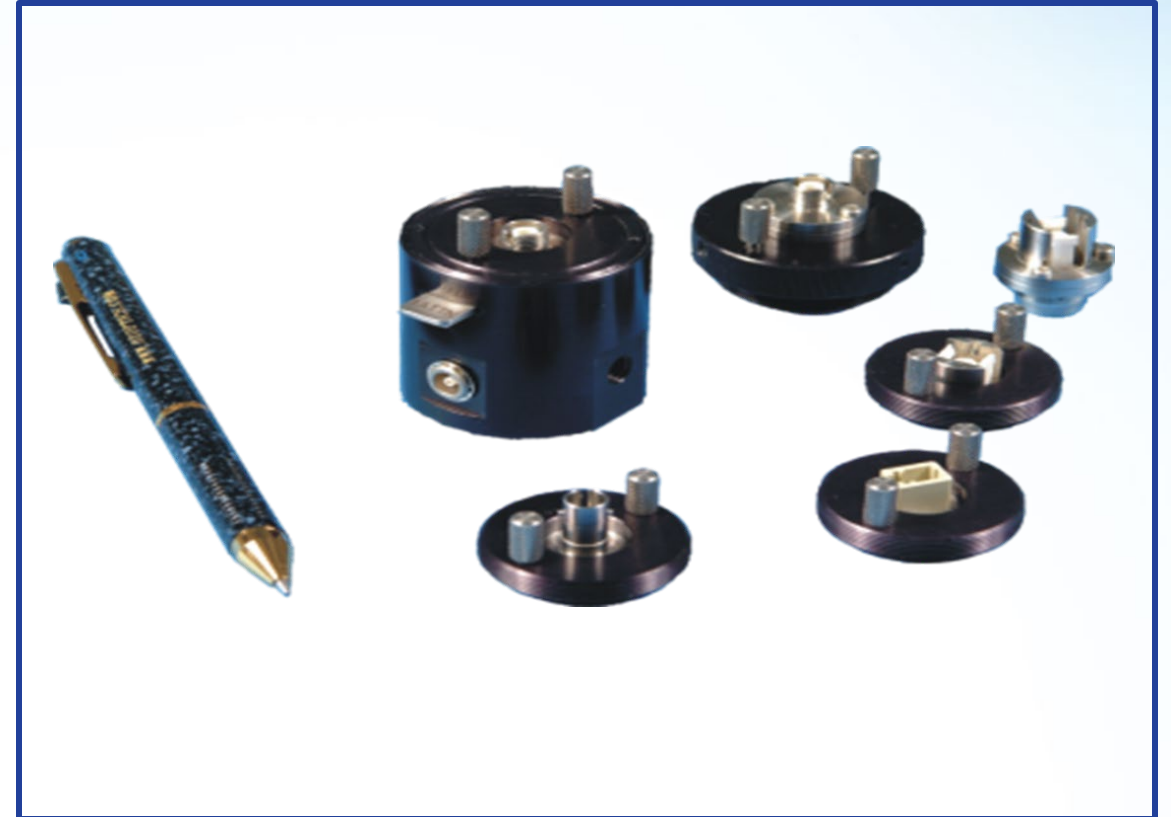


DTS0057 - Optical Power Meter with Smart Detector Head

Power Meter with Smart Detector Heads



- 85 dB Dynamic Range, Fast Response Time
- 400 – 2050 nm Wavelengths (not calibrated for > 1700 nm), Built-in Attenuator
- Dual Detector Head Capability, USB or RS-232 Port



DTS0057 - Optical Power Meter with Smart Detector Head

Power Meter with Smart Detector Heads



- **85 dB Dynamic Range, Fast Response Time**
- **400 – 2050 nm Wavelengths (not calibrated for > 1700 nm), Built-in Attenuator**
- **Dual Detector Head Capability, USB or RS-232 Port**



DTS0057 - Optical Power Meter with Smart Detector Head

Inline Optical Power Meter/Monitor



- Calibrated Power Meter
- Wide Wavelength Range, up to 2 Watts Power
- SM and PM Fiber Versions



DTS0052 – Digital Directional Inline Optical Power Monitor / Meter

Mini Power Meter



- Calibrated Power Meter
- Measures up to 10 mW
- Small Size
- Low Cost
- Good for FTTX Applications



DTS0104 - Mini Optical Power Meter

Pocket Optical Power Meter

- **Slim and Compact**
- **Wide Wavelength Range**
- **Interchangeable Optical Connectors Available**
- **Long Battery Lifetime**
- **Rechargeable Battery or AC Adaptor**
- **USB, RS-232 and Other Interfaces Offered Upon Demand**
- **OEM Version with No Display for Embedded System**

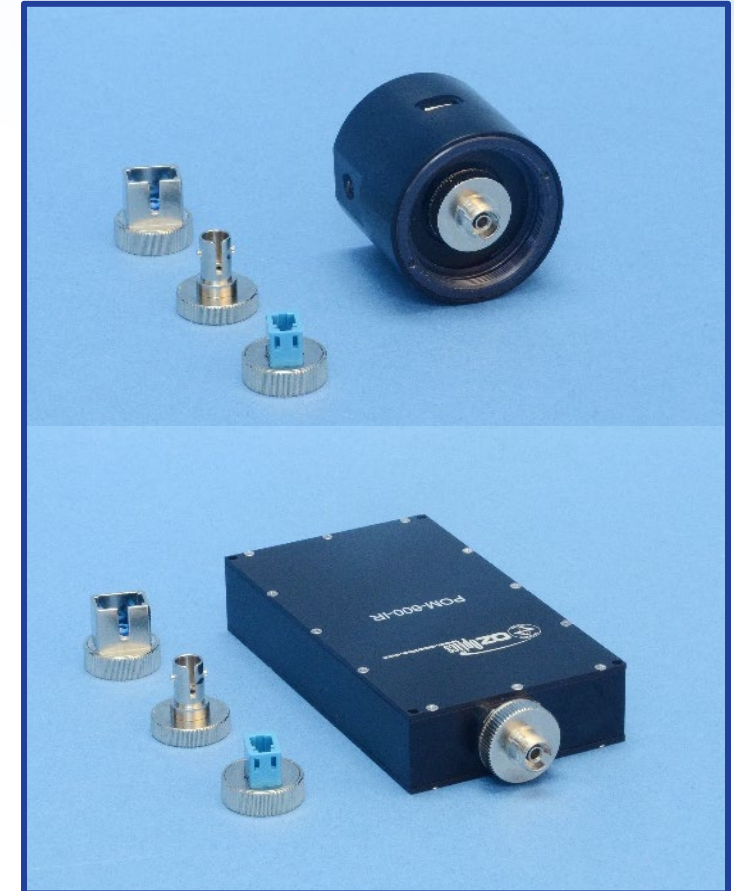


DTS0150 - Pocket Optical Power Meter

Low Cost Smart Detector Head Optical Power Monitor



- Low cost
- Slim and Compact
- Built-in InGaAs Detector for IR Range or Si Detector for Visible
- Interchangeable Optical Connectors Available
- Calibrated and Uncalibrated Versions Available
- Customer May Perform Their Own Calibration
- USB and RS-232 Interfaces



DTS0155 - Low Cost Smart Detector Head - Optical Power Monitor

Handheld Optical Power Meter

- **Wide Dynamic Range**
- **Wide Wavelength Range**
- **Long Battery Life**
- **Interchangeable Optical Connectors**
- **RS-232 and USB Interfaces Available**



Handheld Optical Power Meter

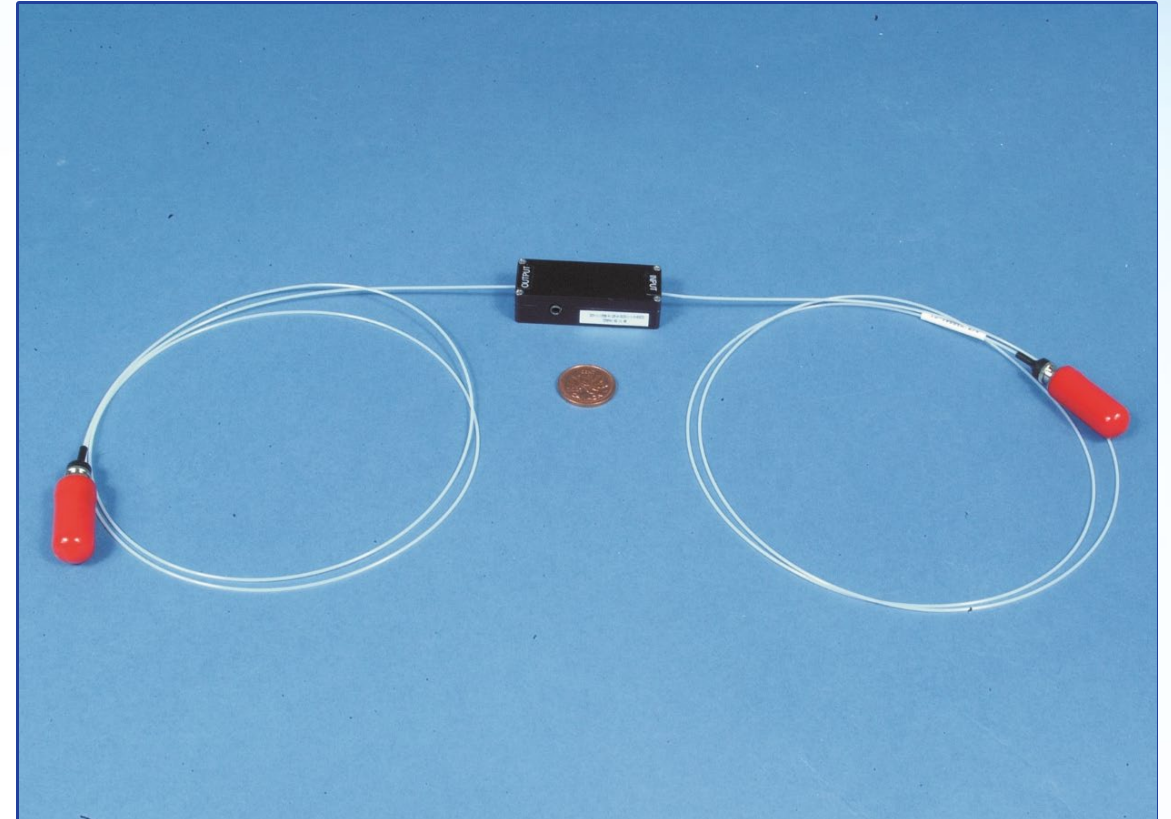
- **Fiber optic assembly and testing**
- **Quality control**
- **Network installation**
- **Component and system troubleshooting**
- **Education**



Smart Patchcord



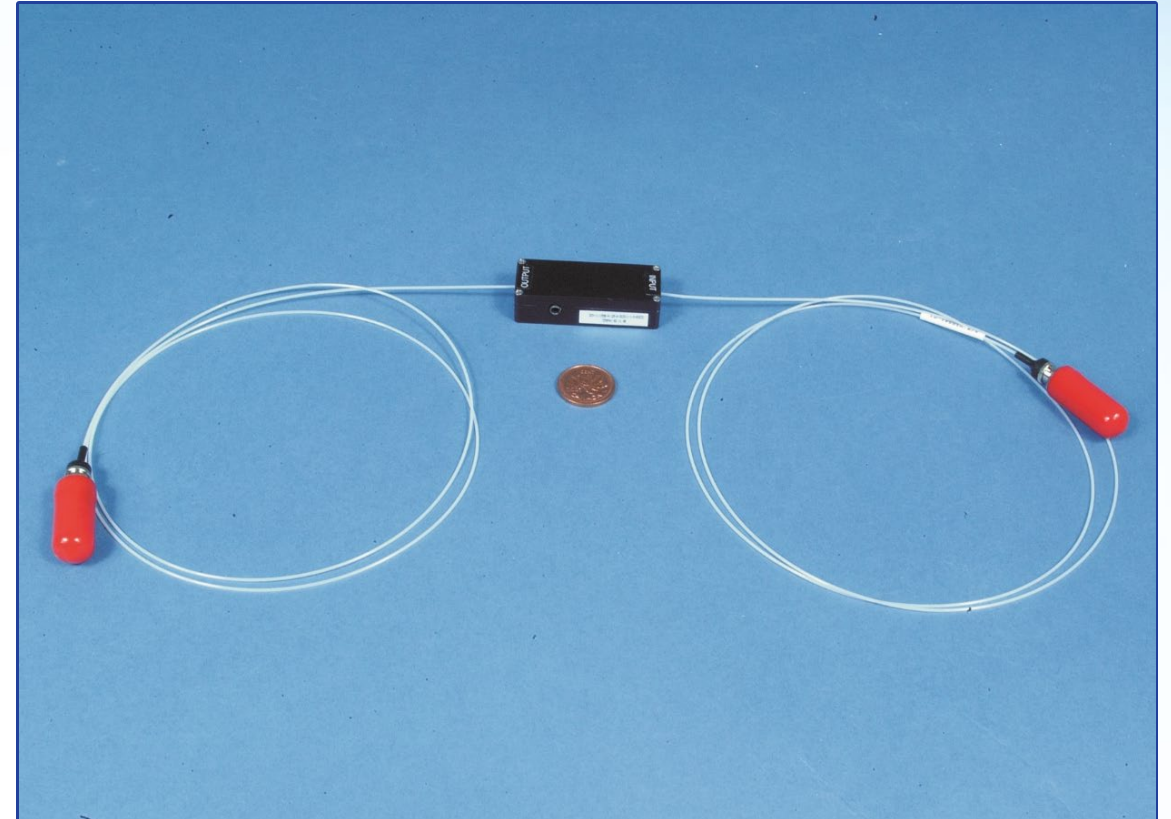
- **Low Cost**
- **Miniature Size**
- **Continuous Fiber – No Interruptions to Optical Path**
- **RS-232, USB, or Wireless Communications**
- **High Power Handling**



Smart Patchcord



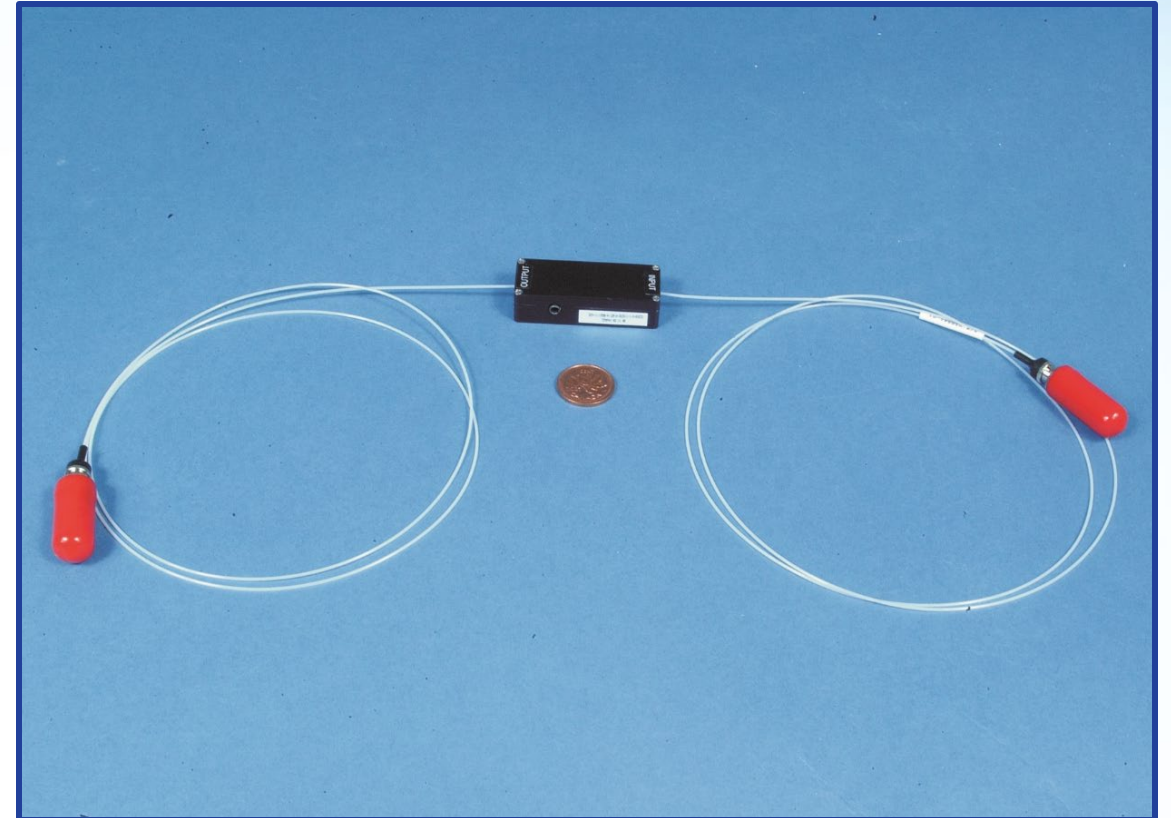
- **Low Insertion Loss and Return Loss**
- **Specialty Fiber and PM Versions Available**
- **High Extinction Ratios for PM Versions**
- **Versions Available for Any Wavelength**



Smart Patchcord



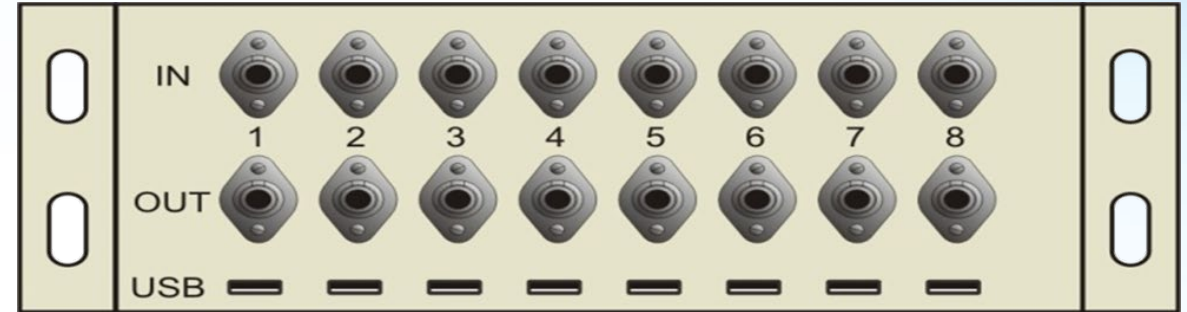
- **Monitoring in FTTX Networks**
- **Channel Balancing in WDM Systems**
- **Dynamic Amplifier Gain Monitoring**
- **Polarization Stabilization**
- **PMD Compensation**
- **Real-Time In-Line Test and Measurement**



Smart Patchcord



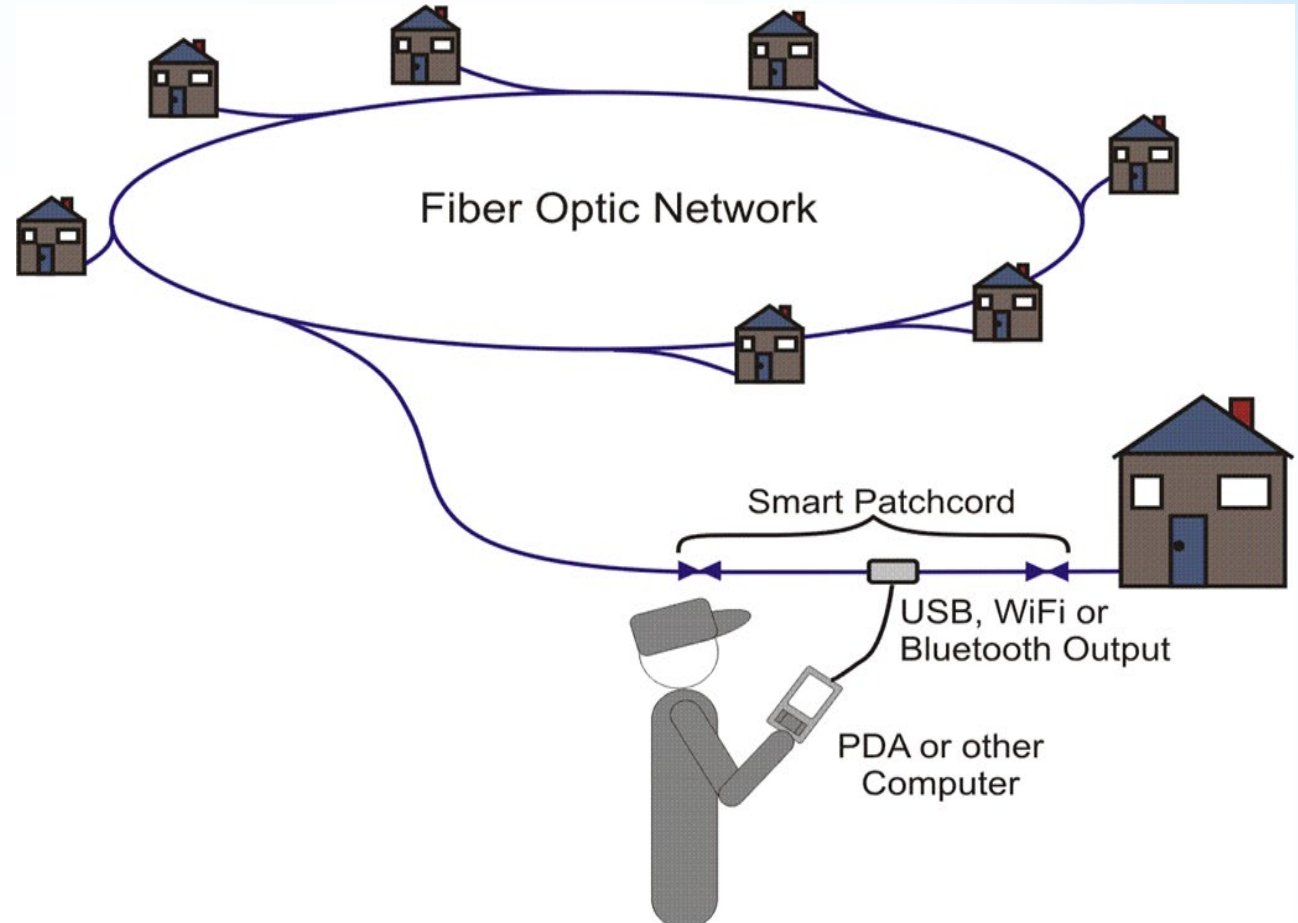
- Monitoring in FTTX Networks



Wireless Fiber™ (Smart Patchcord)



- Monitoring in FTTX Networks





Custom Designs



- **OZ Optics welcomes the opportunity to provide custom designs. Our optical and electronics expertise can solve tough test and measurement problems.**
- **Custom software for specialized monitoring and control applications can also be provided.**

Thank You for Choosing OZ Optics

Please Contact Our Sales Department:

Tel: 613-831-0981 ext. 3370

Toll Free: 1-800-361-5415

Email: sales@ozoptics.com

