OZ Optics Limited

Polarization Maintaining Components

July 2019
Company Profile

- Company founded in 1985;
- Corporate headquarters located in Ottawa, Canada;
- Manufacturing facility in Ottawa/Canada, Izmir/Turkey, and Jiaxing/China
- Seven Product Groups: Laser-to-Fiber Delivery Systems, High Power Fiber Optic Components, Polarization Maintaining Products, Attenuators, Opto-Electronic Packaging, Test Equipment, Fiber Optic Sensor Systems
- Sales offices in Canada, USA, Europe, Turkey, and China
Company Profile

Three Product Groups:

- Fiber Optic Components 70%
- Optical Test Equipment 25%
- Fiber Optic Sensors 5%

- Over 1,000 products
- Leading Edge R&D
Product Innovation

Global Leader in Fiber Optic Products since 1965

Fiber Optic
Distributed Strain and Temperature Sensors

OZ Optics
Foresight™ Series

- BOTDA only
- BOTDR only, or both BOTDA and BOTDR modules in one unit
- Fast, dynamic measurement of strain and/or temperature up to 100 km sensing range
- Simultaneous measurement of strain and temperature
- Uses standard telecommunication fiber to minimize costs

Oil and Gas Pipeline Monitoring
Fiber Optic Distributed Strain and Temperature Sensors (ODSTF)

Fire Detection

Bridges and Building Monitoring

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OZ Optics
Fault Finder for
Optical Network

- Monitors and reports network health status in real time, 24 hours/day, 365 days/year
- Reduces revenue loss due to fiber plant outages
- Reports fault location, giving GPS coordinates with time stamp
- Lowers network operating and maintenance expenses
- User friendly interface via various wireless interfaces (Wi-Fi, GPRS, USB, or RS-232)
- Early alert and evacuate reports via cellular phone, email, IM, SMS, or text messaging

OZ Guard Automated Test Solution

Remote Monitoring a WDM Network

Remotely Accessible/Wireless Fault Finders

GPS Locator
Product Innovation

New Products, OCT Products, 2 Micron Products

Optical Signal to Noise Ratio Generator
Modulator Bias Controller
Broadband Polarization-Entangled Photon Source
Broadband Variable Attenuators for OCT Applications
OCT Modules
2 Micron Fused Couplers / Taps / Splitters / Combiners
2 Micron Fiber Pigtailed Laser Diode Sources

Global Leader in Fiber Optic Components since 1985
Company Profile

Over 498 employees worldwide:

- 277 in Ottawa and US
- 71 in Turkey
- 150 in China

OZ Canada

OZ China

OZ Turkey
OZ Optics is lead by an experienced team:

- Ömür Sezerman, Chairman, President & CEO
  - Founder and CEO since inception (34 years)
- Zahide Sezerman, VP of Human Resources
  - With OZ Optics since inception (34 years)
- Garland Best, VP of Components Division
  - 27 years at OZ Optics
- Gordon Youle, VP of Test Equipment Division
  - 20 years at OZ Optics
- Martin Powell, Operation Manager
  - 15 years at OZ Optics
- Metin Sezerman, General Manager of OZ Turkey
  - 18 years at OZ Optics
- Bing Li, General Manager of OZ Optics China
  - 15 years at OZ Optics
Company Profile

- ISO 9001:2015 certified
- Broad patent portfolio
- Advanced proprietary processing technology
Using our strong direct sales and distributors, we address the following markets:
Company Profile

- OZ Optics has resellers and distributors in over 30 Countries & Regions and over 10,000 customers globally:
In-House Production Capabilities

- Experienced and well-trained staff in following fields:
  - optical, mechanical, electronics & software

CNC Machine Shop
AR Coating
Femtosecond Laser Lab
Clean Room
Laser Conditioning/Cleaving
Branch Network

OZ OPTICS CANADA
(Headquarters)

OZ OPTICS TR
(Turkey Factory)

OZ OPTICS CHINA
(Jiaxing Factory)
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 Facility
- R&D, Product Design, Engineering, Final Assembly & QA
Facility – Ottawa Headquarters

- Production Area
- Training Centre Building
- Meeting Room
- Swimming Pool
OZ Optics – Turkey Factory

- Operational since 2000
- 33,000 sq ft. Manufacturing Facility
- Located in Free Trade Zone
- Low Tax Rates
- Sub Component Parts Manufacturing
- Cost Effective Manufacturing
- High Quality Labor
OZ Optics China

- Operational since 2009
- Wholly Foreign Owned Enterprise
- Subcomponent Parts Manufacturing
- Cost Effective Manufacturing
- High Quality Labor
- Extensive Training (3-6 months in OZ Canada)
OZ China Facility

Jiaxing, China

• Located in Economic Development Zone
• 500 sq meters – Admin, Sales and Marketing
• 1500 sq meters – Manufacturing Area
  ➢ 100 sq meters – Class 10,000 Clean Room
  ➢ 100 sq meters – ESD Working Area
Manufacturing Strategy

OZ Canada
R&D Design Engineering

Made-in China
Made-in Turkey

Sub-Components

World-Wide Sourcing

Sub-Components

OZ Canada
Final Assembly Quality Assurance

Customer

✓ OZ CND Qualification
✓ Customer Qualification

Customer

✓ OZ CND Qualification
✓ Customer Qualification
All products manufactured are in strict accordance with international industry standards:

- Qualified for F35 JSF and F18 Program
- Telecordia Compliance
- CE Compliance
- RoHS Compliance
- ISO 9001:2015 Certified (Canada, China and Turkey)
- Controlled Goods Directorate Registered
Core Competencies

• Pioneer in Polarization Maintaining (PM) Components
• Leader in Wavelength Flattened, High Power & Low PDL Components
• Leader in High Power Fiber Optic Delivery Systems
• Custom Test Equipment, Including Polarization Test Equipment and FTTH Equipment
• Widest Range in Attenuator Product Offering
• Fiber Optic Distributed Strain and Temperature Sensors
• Complete product line for OCT applications & 2 Micron
• Now available: Bias Controllers, Spectrometers, Optical Noise Generators and Broadband Polarization-Entangled Photon Source
 Leading Technology

- **High Power Isolators**
  - power handling > 50W
  - low loss, low cost
  - turnkey solution

- **Fiber Optic Sensor**
  - fast and simultaneous measurement of strain & temp
  - large structure health monitoring

- **Leader in High Power Fiber Optic Delivery Systems**
  - specializes in custom design

- **Pioneer in Polarization Maintaining (PM) Components**
  - wavelength flattened
  - high power & low PDL
  - PM test equipment

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High Power Free Space and Pigtailed Isolators
Polarization Maintaining Patchcords
Distributed Stain and Temperature Sensors
High Power Collimators/Focusers
OUR VISION
- Be the preferred Supplier of choice
- Capture and expand market share
- 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
- Commitment
- 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

Ömür Sezerman
President
Competitive Advantage

- Exceptional Quality & Service
- Extensive Experience In Fiber Optics Manufacturing
- Superior Technology
- Innovative Engineering
- Competitive Pricing
- Global Presence
- Success
OZ Optics is the pioneer in PM Fiber Optic Components. We offer the widest range of PM components and we were the first company in the world to manufacture PM fiber components and test equipment, starting in 1985

Features:

• High Power Handling Capability (over to 5 Watts at 1550nm tested to over 50 Watts CW at 1064nm)
• Better than 30dB Extinction Ratios can be achieved
• Wavelength Flattened Response for S, C & L Bands (1470nm –1620nm)
• Complete Support For Non-telecom Wavelengths and Applications (375-2100nm)
OZ Optics Offers:

- Patented Fiber Alignment Technology
- Low Cost, Superior Service & Exceptional Quality
- High Volume Manufacturing Capability
Polarization Maintaining Patchcords

- Up to 30dB Polarization Extinction Ratios
- $<0.3\text{dB}$ Insertion Loss, Up to 60dB Backreflection
- Super, Ultra, Angled FC/PC, SC, AT&T-ST, LC, MU, E2000, DMI and Custom connectors
Polarization Maintaining Patchcords

- Up to 30dB Polarization Extinction Ratios
- < 0.3dB Insertion Loss, Better than 60dB Backreflection
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Miniature PM Connectors and Patchcords

- PC Board Mountable
- Small form factor allows dense packing in small spaces
- Up to 30dB Polarization Extinction Ratios
- < 0.3dB Insertion Loss, Up to 60dB Backreflection
PM Hermetically Sealable Patchcords

- 20dB, 25dB Polarization Extinction Ratios
- Custom OEM Designs & Terminations
- Patchcord With Optical Tap is Available
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- Custom OEM Designs & Terminations
- Ideal for Component Packaging
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- Patchcord With Optical Tap is Available
Tapered PM Fibers

• Improves Coupling from Waveguides, Diodes
• As Small as 2 Micron Spot Sizes
• Circular & Oval Spot Profiles
PM Fiber Pigtailed V-Grooves

- 127, 250, 400 or 500 Micron Spacing
- Over 20dB Extinction Ratios
- Rods Aligned to Within 0.5 Degrees
PM Fiber Pigtailed V-Grooves

- 127, 250, 400 or 500 Micron Spacing
- Over 20dB Extinction Ratios
- Polarization Axis Aligned to within 0.5 Degrees
PM Fiber Pigtailed V-Grooves

• 127, 250, 400 or 500 Micron Spacing
• Over 20dB Extinction Ratios
• Polarization Axis Aligned to within 0.5 Degrees
PM Fiber Pigtailed Sources

- Up to 30dB Polarization Extinction Ratios
- > 80% Coupling for Lasers, 40% for Laser Diodes
- 375 nm to 2050 nm Wavelengths
PM Fiber Pigtailed Sources

- Up to 30dB Polarization Extinction Ratios
- > 80% Coupling for Lasers, 40% for Diodes
- 375nm to 2050 nm Wavelengths
Polarization Maintaining Sources

- Up to 40dB Polarization Extinction Ratios
- > 80% Coupling for Lasers, 40% for Diodes
- 375nm to 2050 nm Wavelengths
Polarization Entangled Photon Sources

- Quantum Computing and Network Applications
- Broad bandwidth covering C- and L- bands
- Compact. Operates at Room Temperature
Polarization Maintaining Source Couplers

- Up to 30dB Polarization Extinction Ratios
- > 80% Coupling for Lasers, 40% for Diodes
- 375nm to 2050 nm Wavelengths
Polarization Maintaining Source Couplers

- Up to 30dB Polarization Extinction Ratios
- > 80% Coupling for Lasers, 40% for Diodes
- 375nm to 2050 nm Wavelengths
PM Fiber Variable Attenuator

- Up to 30dB Extinction Ratios, Up to 10 Watts CW Power
- 0.6dB to 80dB Attenuation, -40, -50, -60dB Backreflection
- Meets Telcordia Specifications
- MEMS Based Attenuators Available
Fiber Optic Fixed Filters

- 400nm to 2200nm Wavelengths, SMF, PMF & MMF
- -40dB, -50dB, -60dB Backreflection
- Filters Can Be Fixed or Removable
Fiber Optic Fixed Filters

• 400nm to 2200nm Wavelengths, SMF, PMF & MMF
• -40dB, -50dB, -60dB Backreflection
• Filters Can Be Fixed or Removable
Tunable Filters

- < 1.2nm Line Width, 0.1nm Resolution
- 50nm Tuning Range,
- Manual, Motor Driven and Digital Versions
Tunable Filters

- < 1.2nm Line Width, 0.1nm Resolution
- 50nm Tuning Range,
- Manual, Motor Driven and Digital Versions
Tunable Filters

- < 1.2nm Line Width, 0.1nm Resolution
- 50nm Tuning Range,
- Manual, Motor Driven and Digital Versions
Tunable Bandwidth Filters

- 1nm to 18nm FWHM Adjustable Line Width
- 45nm Tuning Range
- Flat Top Filter Shape
- Manual and electrically driven versions
Tunable Bandwidth Filters

- Polarization Insensitive
- High Out-of-Band Suppression
- Singlemode, Multimode and PM Versions
PM Fiber Variable Attenuator

- Up to 30dB Extinction Ratios, Up to 10 Watts CW Power
- 0.6dB to 80dB Attenuation, -40, -50, -60dB Backreflection
- Meets Telcordia Specifications
- MEMS Based Attenuators Available
Polarization Rotators / Analyzers

- Greater than 30dB Extinction Ratios
- -40, -50, -60dB Backreflection Levels, 1dB IL
- Fiber-Fiber, Source-Fiber & Fiber-Photodiode Versions
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Greater than 30dB Extinction Ratios
-40, -50, -60dB Backreflection Levels, 1dB IL
Fiber-Fiber, Source-Fiber & Fiber-Photodiode Versions
Manually Adjustable Polarization Controllers

- Designed to Control Polarization State
- All Fiber Version – No Intrinsic Loss
- Pigtail and Receptacle Versions
Manually Adjustable Polarization Controllers

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- All Fiber Version – No Intrinsic Loss
- Pigtail and Receptacle Versions
Manually Adjustable Polarization Controllers

- Designed to Control Polarization State
- Wave plate Version
  - Has Angle Readouts, Repeatable Output
- Pigtail and Receptacle Versions
Manually Adjustable Polarization Controllers

- Designed to Control Polarization State
- Wave plate Version
  - Has Angle Readouts, Repeatable Output
- Pigtail and Receptacle Versions
Electrically Driven Polarization Controllers

- Continuous Control of Polarization
- No Insertion Losses or Return Losses
- > 100 Hz Response Speed
- New! High Speed Version, up to 30kHz response speed
High Speed Electrically Driven Polarization Controllers

- Continuous Control of Polarization
- Up to 30khz Response Speed
- Negligible Insertion Losses, Return Losses, or PDL
- Compact and PCB Mountable
Fiber Pigtailed Polarizers

- Up to 30dB Extinction Ratios
- Based on Free Space Optics
- 0.6dB Insertion Loss, Low Cost, Compact
- -40, -50, -60dB Backreflection Levels
- 400-2050 nm wavelengths
Fiber Pigtailed Polarizers

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Fiber Pigtailed Polarizers

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All-Fiber Polarizers

- >35dB (Up to 50 dB) Extinction Ratios possible
- <0.5dB Insertion Loss Achievable
- Low cost and compact size (3mm OD housing)
- Broad operating wavelength
- -70dB Backreflection Levels
Polarization Maintaining Splitters

- Splits Polarized Light into 2 PM or SM Fibers
- 0.6dB IL, -40, -50, -60dB Backreflection
- 1x2 & 2x2 Versions Available
- 350-2050 nm Versions
Polarization Maintaining Splitters

• Splits Polarized Light into 2 PM or SM Fibers
• 0.6dB IL, -40, -50, -60dB Backreflection
• 1x2 & 2x2 Versions Available
• 350-2050 nm Versions
• Splits Polarized Light into 2 PM Fibers
• 50/50 to 95/5 Split Ratios, Polarizing Versions
• 1x2 & 2x2 Versions Available
• 633 –2000nm Wavelengths
Polarizing Splitters / Combiners

- Splits Light into Two Polarizations
- 0.6dB IL, -40, -50, -60dB Backreflection
- 1x2 & 2x2 Versions Available
Polarizing Splitters / Combiners

- Splits Light into Two Polarizations
- 0.6dB IL, -40, -50, -60dB Backreflection
- 1x2 & 2x2 Versions Available
PM Planar Light Circuit (PLC) Splitters

- 1x2 to 1x32 Splitter Configurations
- C, L and S Band Operation
- Miniature Package Size
PM Fiber Optic Circulators

- 0.7 dB Typical Insertion Loss
- 532 - 1550 nm Wavelength Versions
- Up to 30 dB Extinction Ratios
PM Fiber Optic Circulators

- 0.7dB Typical Insertion Loss
- 532 - 1550nm Wavelength Versions
- Up to 30dB Extinction Ratios
Fiber Pigtailed Isolators

- $\leq 0.8$dB IL, As Much as 60dB Isolation
- -40dB, -50dB, -60dB Backreflection
- 532nm to 2050nm Wavelengths
- Singlemode or PM Fiber Versions
- Polarizing or Polarization Independent Versions
Fiber Pigtailed Isolators

- $\leq 0.8$dB IL, As Much as 60dB Isolation
- $-40$dB, $-50$dB, $-60$dB Backreflection
- 532nm to 2050nm Wavelengths
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- 532nm to 2050nm Wavelengths
- Singlemode or PM Fiber Versions
- Polarizing or Polarization Independent Versions
Faraday Mirrors and Rotators

- Used in EDFA, Tunable Lasers, Etc.
- 0.7dB Typical Insertion Loss
- -40, -50, -60dB Backreflection
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)
Variable Optical Delay Lines

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

- Varies the Delay Between Two Polarizations
- $\pm 50$ps Delay, 0.1ps Resolution
- $< 1.2$dB Losses over the Delay Range
Polarization Measurement Systems

- Includes Source, Meter & Master PM Patchcord
- Measures up to 40dB Extinction Ratios
- Available for 400 – 2000 nm
- FC, SC, LC, MU, E2000 or Custom Connectors & Ferrules
- Test Systems for PM Fiber Pigtailed V-Groove Assemblies
Polarization Measurement Systems

• Includes Source, Meter & Master PM Patchcord
• Measures up to 40dB Extinction Ratios
• Available for 400 – 2000 nm
• FC, SC, LC, MU, E2000 or Custom Connectors & Ferrules
• Test Systems for PM Fiber Pigtailed V-Groove Assemblies
Polarization Dependent Loss Emulator

- 0.05dB to 10dB polarization dependent loss
- Fixed or manually variable PDL
- Broad wavelength range, compact, and low cost
- PMD Free Version Available
PM Fiber Power Monitors/Tap Couplers

- Wide Wavelength Range, up to 2 Watts Power Handling
- Single Channel
- Digital Display Version Used to Monitor and Measure Power Simultaneously
- Allows optical monitoring without disconnecting
- Can be locally or remotely accessed
- Ideal for FTTH networks
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- Wide Wavelength Range, up to 2 Watts Power Handling
- Single Channel
- Digital Display Version Used to Monitor and Measure Power Simultaneously
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PM Components for OCT Applications

- Complete Module or Separate Components such as:
  - Broadband Isolators
  - Sources
  - Attenuators
  - Collimators
  - Fused Splitters
  - Delay Lines
Fiber Modules/Systems/Routings

- Advanced fusion splicers for multimode, singlemode, polarization maintaining and specialty fibers.
- 3D CAD capabilities for enclosure and mounting hardware design.
- Extensive inventory of test and measurement equipment, including broadband and tunable laser sources, optical power meters, return loss meters, optical spectrum analyzers, polarization meters and controllers, etc.
- Skilled technicians well versed in fiber routing and layout.
Fiber Modules/Systems/Routings
OZ Optics

Your solution provider for existing and next generation fiber optic components and test equipment

Please Contact Our Sales Dept:
Tel: 613-831-0981 ext 3370
Toll Free: 1-800-361-5415
Email: sales@ozoptics.com.
Thank You for Choosing OZ!