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

Fiber Optic Distributed Strain and Temperature Sensors

- 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 temperature up to 100 km sensing range
- Uses standard telecommunication fiber to minimize costs

OZ Optics

Global Leader in Fiber Optic Products since 1965

Fiber Optic Fault Finder for Optical Network Safeguard™

- 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 (WiFi, GPRS, 3G, SMS, or RS-232)
- Early alert and outage reports via cellular phone, email, IM, SMS, or text messaging

OZ Optics

Global Leader in Fiber Optic Products since 1965

OZ Guard Automated Test Solution

Remote Monitoring a WDM Network

Remotely Accessible Wireless Fault Finders

GPS Locator
Product Innovation

Global Leader in Fiber Optic Products since 1965

2 micron Fiber Optic Components for PM and SM Fibers

- Fiber Optic Patchcords
- Fused Couplers / Taps / Beam Splitters / Combiners
- Polarizers
- Pigtailed Laser Diode Sources
- Pigtailed / Receptacle Style Collimators / Focusers
- Isolators
- Manual / Electrically Controlled Variable Attenuators

Fiber Optic Products for OCT Applications

- OCT Modules
- Manual / Electrically Controlled Fiber Optic Delay Lines
- Manual / Electrically Controlled Polarization Controllers
- Fiber Pigtailed Broadband SLED Sources
- Broadband Fused Couplers

OZ Optics
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Product Innovation

New Products, OCT Products, 2 Micron Products

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

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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
**Company Profile**

**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

- Customer
  - OZ CND Qualification
  - Customer Qualification

- Made-in China
  - World-Wide Sourcing
  - Made-in Turkey
  - OZ CND Qualification
  - Customer Qualification

- OZ Canada
  - R&D Design Engineering
  - Sub-Components
  - Final Assembly Quality Assurance
  - Customer
Industry Standards

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

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

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

Success

- Exceptional Quality & Service
- Extensive Experience In Fiber Optics Manufacturing
- Superior Technology
- Innovative Engineering
- Competitive Pricing
- Global Presence
Fiber Optic Attenuators

OZ Optics Offers the Broadest Range of Attenuator Products on the Market.

Competitive Advantages:

• High Power Handling Capability: Up to 10 Watts CW at 1550nm
• Wavelength Flattened Response Over the S, C & L Bands (1470-1620nm)
• Available from 350 nm – 2000 nm wavelengths
• Very Low Polarization Dependent Loss (PDL): As low loss 0.01dB
• High Volume Manufacturing Capability
• Exceptional Quality
• Superior Service
• Low Cost
Inline Variable Attenuators

- 0.6dB to 80dB Attenuation Range SMF, PMF & MMF
- Available from 350 nm – 2000 nm wavelengths
- Up to 10W Power, Flat Wavelength Response
- As low as 0.01dB PDL
- High Power Version up to 10 Watts at 1550nm
- Meets Telcordia Specifications
Miniature Inline Variable Attenuators

- 0.6dB to 80dB Attenuation Range SMF, PMF & MMF
- Available from 350 nm – 2000 nm wavelengths
- Up to 2W Power, Flat Wavelength Response
- As low as 0.01dB PDL, Meets Telcordia Specifications
- Ideal for patch panels, DWDM Systems
Inline Neutral Density Variable Attenuators

- Mode Independent Attenuation (Ideal for MMF)
- 0.6dB to >40 dB Attenuation Range
- SMF, PMF & MMF Versions
Reflective Style Variable Attenuators

• 0.8dB to 60dB Attenuation Range
• Available from 350 nm – 2000 nm wavelengths
• 0.01dB Resolution, SMF & MMF Versions
• -40dB, -50dB, -60dB Backreflection
Receptacle Style Variable Attenuators

- 2dB to 80dB Attenuation Range
- Available from 350 nm – 2000 nm wavelengths
- 0.01dB Resolution, SMF & MMF Versions
- Wide Variety of Receptacles Available
Air Gap Variable Attenuators

- Very Compact Size
- Patch Panel Mountable
- FC/PC, SC & ST Connector Styles
MEMS Based Variable Attenuators

- 0.8 – 40 dB Attenuation Range, Low Cost
- Multi Channel Variable Attenuators
- Power Monitors at Input and/or Output End
- SM and PM fiber versions.
Electrically Controlled Attenuators

- 0.6dB to 60dB Attenuation Range SMF, PMF & MMF
- Available from 350 nm – 2000 nm wavelengths
- Maintains Attenuation with Power Off, Up to 2W Power
- Low Cost, High Speed, Rugged & Compact Size
Reflective Style Motor Driven Attenuators

- 0.8dB - 60dB Attenuation Range
- Available from 350 nm – 2000 nm wavelengths
- Up to 2W Power Handling SMF, PMF & MMF
- High Speed, Rugged & Compact Size
OEM Motor Driven Variable Attenuators

- 0.6dB to 60dB Attenuation Range SMF, PMF & MMF
- Available from 350 nm – 2000 nm wavelengths
- Maintains Attenuation with Power Off, Up to 2W
- Low Cost, High Speed, Rugged & Compact Size
Digital Variable Attenuators

- 0.01dB Resolution, Fast Response Time
- 0.6dB to 60dB Attenuation Range
- Available from 350 nm – 2000 nm wavelengths for SM, PM and MM fibers.
- USB Interface
- Up to four calibrated wavelengths
MULTICHANNEL ELECTRICALLY CONTROLLED VARIABLE ATTENUATOR (RACK MOUNT)

• Your choice of up to 32 individual attenuators per unit

• USB Interface

• Optional integrated power monitoring for precise output power control

• 0.6dB to 60dB Attenuation Range

• Available from 350 nm – 2000 nm wavelengths for SM, PM and MM fibers.

• Calibrated for dual wavelengths,

• Maintains Attenuation with Power Off.
Your choice of up to 4 individual types of attenuators per unit

USB Interface

0.6dB to 60dB Attenuation Range

Can be calibrated for up to four individual wavelengths,

Optional integrated power monitoring for precise output power control

Available from 350 nm – 2000 nm wavelengths for SM, PM and MM fibers.

Maintains Attenuation with Power Off.
Fiber Optic Shutters

- Up to 100W Optical Power SMF, PMF & MMF
- Fast Response Time
- Ideal for Safety Interlocks
- Available from 350 nm – 2000 nm wavelengths
Source to Fiber Couplers
- with Electrically Controlled Attenuators

- > 60% Coupling Efficiency for SM & PM Fiber
- 60dB Attenuation Range
- Available from 350 nm – 2000 nm wavelengths
- 0.5dB Accuracy. 0.01dB Resolution
Source to Fiber Couplers with Shutters

- > 60% Coupling Efficiency for SM & PM Fiber
- Up to 3 Watts Optical Power
- Ideal for Safety Interlocks, Remote Control
- Available from 350 nm – 2000 nm wavelengths
Attenuating Fiber Patchcord

- Simplifies Your Layout
- 0.1dB to 20dB Attenuation in 0.1dB Increments
- Capable of Handling up to 2 Watts of Optical Power
- Available from 350 nm – 2000 nm wavelengths
- For SM and PM fibers only.
Plug Type Fixed Attenuators

- Low Cost, Rugged & Compact Size for SMF & MMF
- $<-50\text{dB}$ Backreflection (for SMF)
- $-1\text{dB}$ to $-25\text{dB}$ Attenuation Levels,
- $1300 \, \& \, 1550\text{nm}$ for SMF, $850, 1300 \, \& \, 1550\text{nm}$ for MMF
Loopback Style Fixed Attenuators

- Mode Independent Attenuation
- Rugged, Compact Housing
- SMF & MMF Versions
Fixed and Removable Neutral Density Attenuators

- Mode Independent Attenuation
- Pigtail & Receptacle Styles
- SMF, MMF & PMF Versions
Fiber Optic Terminators

• Designed to Kill Backreflection in Unused Ends
• 50dB Return Loss, 1300/1550 SM Fiber Only
• Ultra, FC/PC, LC/PC & SC Connectors
Hybrid Patchcords

- Angled, Super, Ultra, FC/PC, ST, SC Connectors
- Male to Male, Male to Female Versions
- Low Cost, Rugged & Compact Size
Universal Connectors

- Less than 0.5dB Insertion Loss
- Ultra, Super, Angled FC/PC, LC, SC, ST & SMA
- Low Cost, Rugged & Compact Size
Your solution provider for existing and next generation fiber optic components and test equipment

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Thank You for Choosing OZ!