

OZ Optics Limited

October 2024



Company Background

OL OPTICS VIMITED

- Founded in 1985
- Corporate Headquarter Located in Ottawa, Canada
- Manufacturing Facility in Ottawa, Canada | Izmir, Türkiye | Jiaxing, China
- Ten 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
 - OCT
 - BioPhotonics
 - Quantum
- Sales Offices in Canada, USA, Europe, Türkiye 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.

Over 467 employees worldwide



OZ Canada OZ China OZ Türkiye







243+ Employees

87+ Employees

137+ Employees







Advanced Proprietary Processing Technology



Canada Certificate: FM 63463



Certificate: FM 577647



Turkey Certificate: FM 601414

ISO9001:2015 Certified

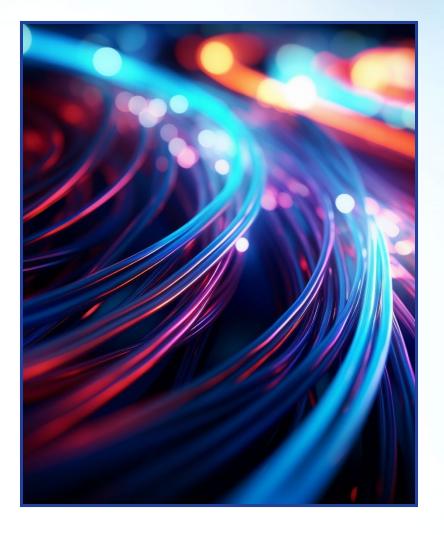


Broad Patent Portfolio

OZ Optics is Lead by an Experienced Team:

- Omür 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
 - 3 months 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





OL OPTICS MINTED

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





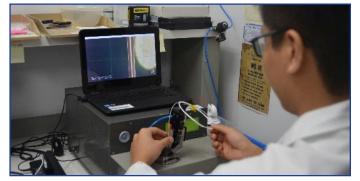
Clean Room



Femto-Second Laser Lab



Laser Conditioning/Cleaving



> AR Coating

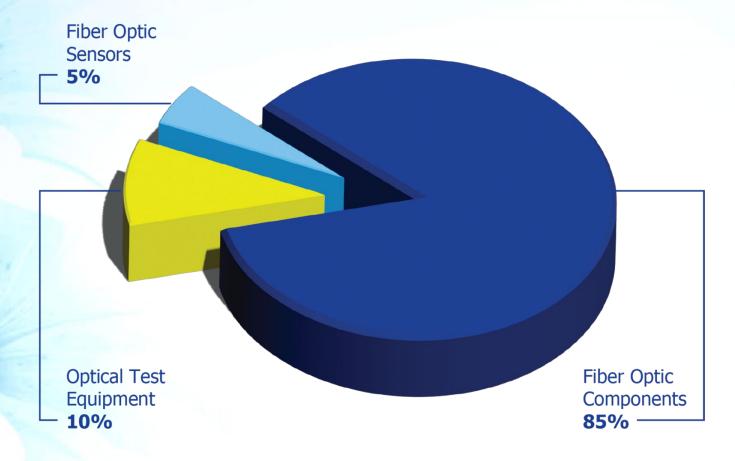


Core Competencies



- 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 OCT, Gyroscope
 & BioPhotonics applications & 2 Micron
- Now available: Spectrometers and Quantum Light Sources









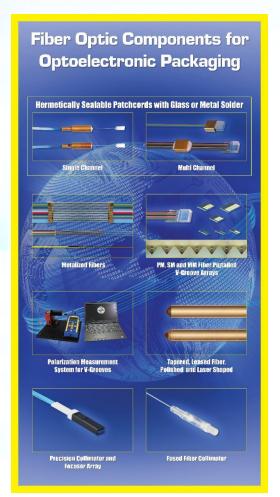
























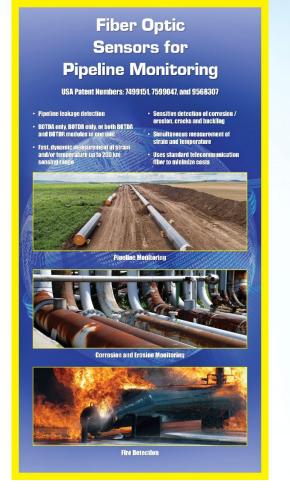






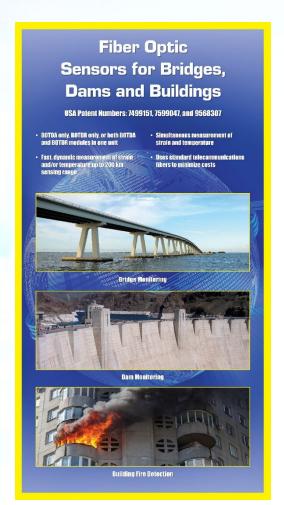






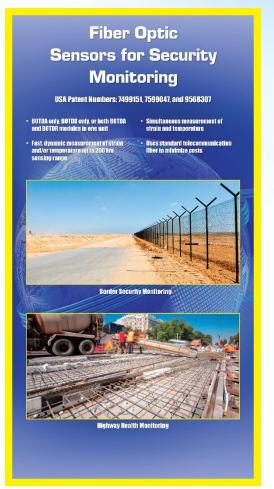














OLOPHCS

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 StrategyApplication Market

By leveraging the technology and expertise gained since its inception, OZ Optics has attracted a broad range of customers in the telecom / datacom, medical, military, security, industrial, construction, aerospace, power utilities, petrochemical and educational sectors.



Marketing Strategy

Global Sales Network



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



Austria



Belgium



Brazil



Canada



China



Denmark



France



Germany



Greece



Hong Kong



India



Ireland



Italy



Japan



Luxembourg



Netherlands



Norway



Poland



Portugal



Singapore



South Korea



Sweden



Switzerland



Taiwan



Thailand



Türkiye





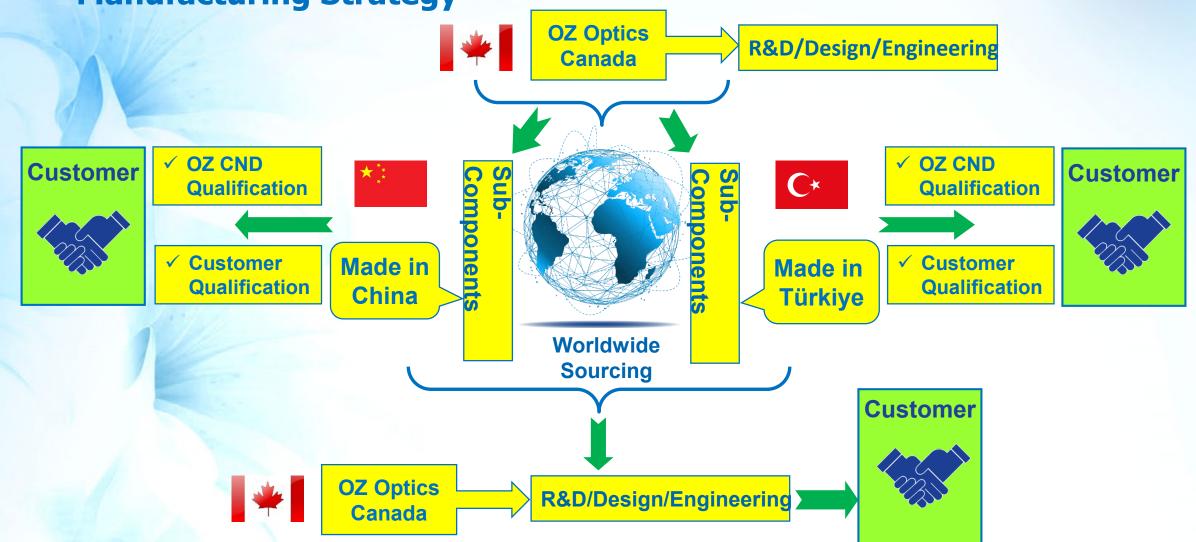
Kingdom

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











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







Facility - Ottawa Headquarters













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











Facility - China Factory (Jiaxing, China)

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









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

√ 300 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















USA Patent # 7499151 on March 3, 2009 USA Patent # 7599047 on October 6, 2009





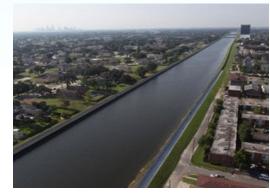


Applications – Innovative Solutions





Oil and Gas Pipeline Monitoring



Dam Monitoring



Oil and Gas Well Monitoring



Bridge and Building Monitoring



Power Line Monitoring



Border Security
Monitoring





Innovative and Complete Solution for Monitoring Tiny Cracks









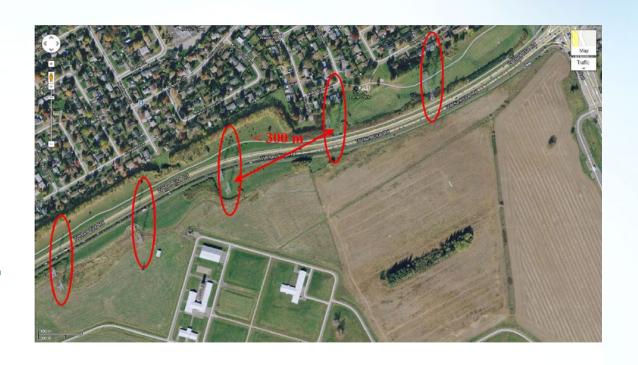
- Monitoring the working status of OPGW
- Abnormal event found and located
- Event caused by broken strand, lightning, frost covering, change of strain, etc..



OPGW Status Monitoring



- The OPGW is located from Smith Falls to Merivale-Ottawa, Ontario, Canada.
- The total fiber length was close to 140 km.
- The BOTDA located in Merivale-Ottawa made measurements as often as once every 60 minutes starting in June 2012 and continuing till July 2013.







- Example: Druzhba Pipeline July 2006
- Small 50 cubic meter leak results in:
 - Interruption of \$100M/day pipeline
 - Global spike in oil prices
 - Report of environmental catastrophe
 - Months of investigation and ecological monitoring
- Single point of failure in 3000 km pipeline



Total System Solution Provides

- **Reduced Operating Expenses**
 - Centralized monitoring
- Reduced Danger of Catastrophic Failure
 - Real-time continuous monitoring
 - Corrosion and leak detection
- Optimized Field Engineering Resources
 - Automated dispatch with GPS coordinates





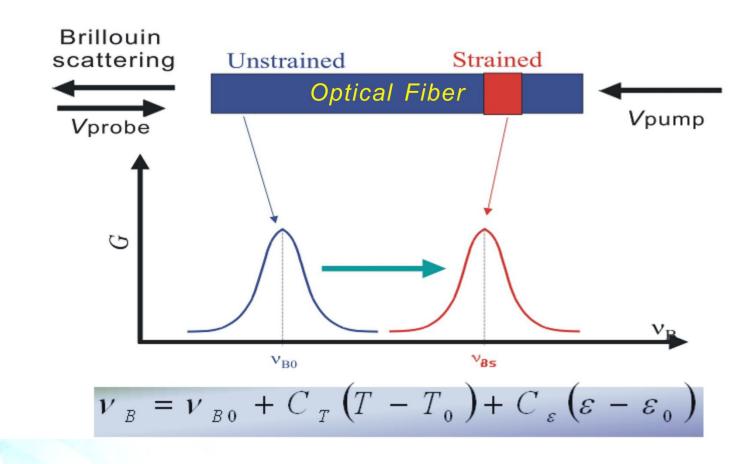
OZ Optics ForesightTM DSTS Features



- Temperature and strain in a single telecom fiber
- High resolution over lengths up to 100 km/sensor
- Sends time and location stamped alerts
- Escalates alarms until problem solved

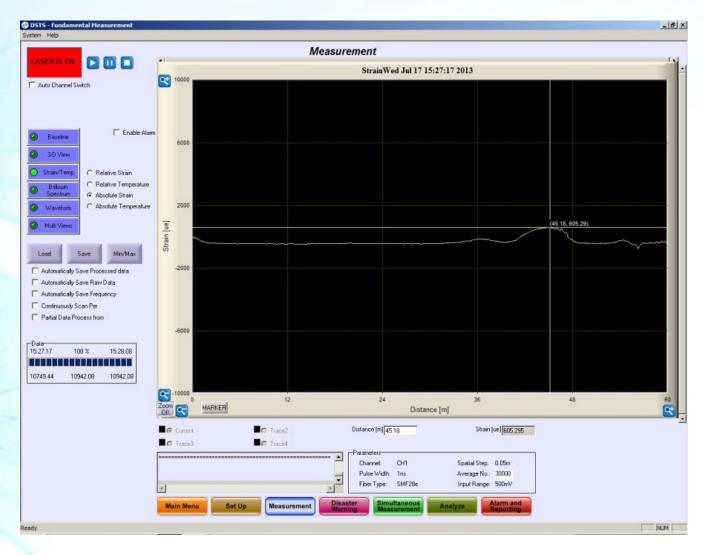
Working Principle — BOTDA





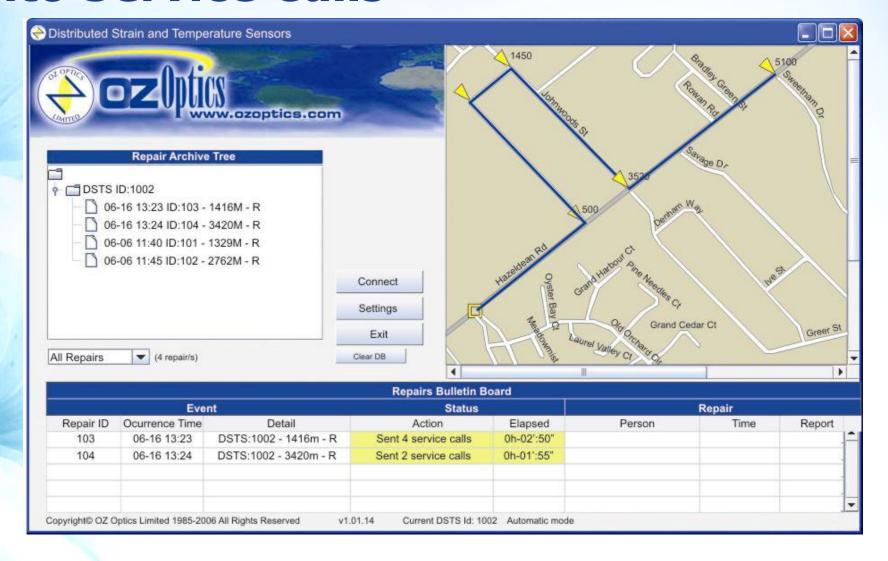
OZ Software Translates Raw Data...





...Into Service Calls







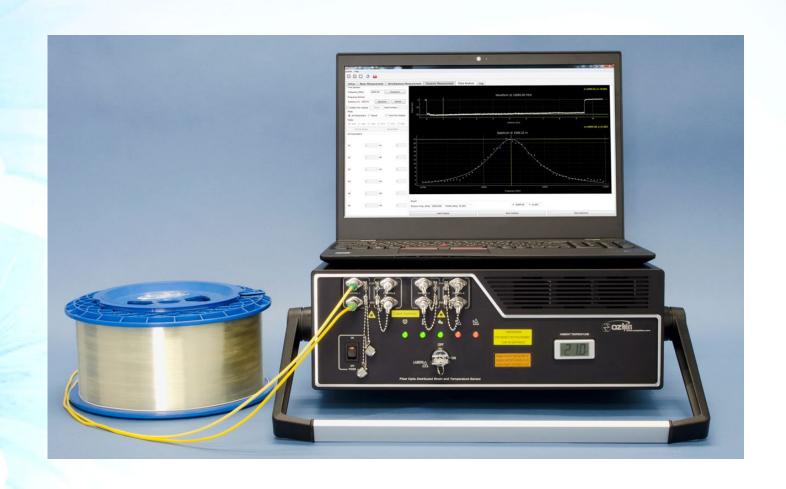






Compact 3ULT Model Package







Quantifiable Value Proposition (QVP)



- **Example 1: Druzhba Pipeline**
- 10 hour service interruption = \$43M
- Clean-up, repair & site surveys = \$3M
- Fines and penalties (Unknown)
- Brillouin installation < \$2/meter</p>
- Single 50 cubic meter spill costs much more than sensor installation.



QVP Continued



- **Example 2: Nigerian Pipeline July 2006**
- Accidental leak
- 180,000 barrels / day shutdown
- 180,000 * \$74 = \$13M per day
- 10-day shutdown = \$130M
- Brillouin operation << \$1/m/year</p>
- Single production shutdown far exceeds lifetime sensor operating costs.



Getting Started with DSTS



- Review OZ Optics reference material
- Contact OZ with your needs
- Consult with OZ on system design
- Request customized QVP estimate
- Receive OZ system quotation



The OZ Optics Commitment



OZ Optics is committed to providing a complete solution, lab evaluation, and field trial to meet your structural health monitoring requirements

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

