Corporate Overview for the Defense Industry

OZ Optics Limited

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Corporate Background

- Founded in 1985;
- Corporate headquarter 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, Fiber Optic Test Equipments, and Fiber Optic Sensor Systems
- Sales offices in Canada, USA, Europe, Turkey and China.
Corporate Statements and Quality Policy

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 to 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 465 employees worldwide:

- **OZ Canada**: 270+ employees
- **OZ China**: 105+ employees
- **OZ Turkey**: 90+ employees
Company Profile

Advanced Proprietary Processing Technology  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 (37 years)
  * Zahide Sezerman, VP of Human Resources
    * With OZ Optics since inception (37 years)
  * Garland Best, VP of Components Division
    * 30 years at OZ Optics
  * Gordon Youle, VP of Test Equipment Division
    * 23 years at OZ Optics
  * Onur Koca, General Manager of OZ Turkey
    * 6 months at OZ Optics
  * Bing Li, General Manager of OZ Optics China
    * 18 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
- 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,
Three Product Groups

- Fiber Optic Components, 85%
- Optical Test Equipments, 10%
- Fiber Optic Sensor, 5%

Over 1,000 Products

Leading Edge R&D
Leading Technology

Featured Products
Leading Technology

Innovative Products
Industry Standards

All products manufactured are in strict accordance with international industry standards:

- ISO 9001:2015 Certified (Canada, China and Turkey)
- 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
Using our strong direct sales and distributors, we address the following markets:
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 & Regions with over 10,000 customers worldwide:

- Austria
- Belgium
- Netherlands
- Luxembourg
- Brazil
- Canada
- China
- Denmark
- France
- Germany
- Greece
- Hong Kong
- India
- Ireland
- Italy
- Japan
- Norway
- Poland
- Portugal
- Singapore
- South Korea
- Switzerland
- Sweden
- United States
- Taiwan
- Turkey
- United Kingdom
- Thailand
Operation Strategy

Manufacturing Strategy

Customer
- OZ CND Qualification
- Customer Qualification

Made in China
- Sub-Components
- Worldwide Sourcing
- OZ CND Qualification
- Made in Turkey
- Customer Qualification

Sub-Components

OZ Canada
- R&D/Design/Engineering
- OZ CND Qualification

Customer
Marketing & Operation Strategy

Competitive Advantage

Superior Technology
Innovative Engineering

Exceptional Quality
And Service

Competitive Pricing

Extensive Experience
In Fiber Optics Manufacturing

Global Presence

Success
Branch Network

OZ OPTICS CANADA (Headquarters)

OZ OPTICS TR (Turkey Factory)

OZ OPTICS CHINA (Jiaxing Factory)
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 - Turkey Factory

Izmir, Turkey

- Operational since 2000
- 33,000 sq ft. Manufacturing Facility
- Located in Free Trade Zone
- Low Tax Rates
- Sub Component Parts Manufacturing
- High Quality Labor
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
    √ 300 sq meter – ESD Working Area

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
    √ 300 sq meter – ESD Working Area
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
Distributed Temperature and Strain Sensor

* Sophisticated sensor systems using stimulated Brillouin scattering in optical fibers to measure changes in both strain and temperature along the length of an optical fiber.

* Uses standard telecom single mode fibers for strain and/or temperature measurement.
Distributed Temperature and Strain Sensor

* Real-time measurement of strain and temperature
* High spatial resolution, strain, and temperature resolution and accuracy
* DLL available for system integrator
* As low as 0.1 m spatial resolution
* Max. 100 km sensing range with max. 200 km fiber length
* Available configurations: BODTA, BODTR and Combo (BODTA & BODTR)
Pigtail Style Collimators / Focusers

DTS0060: Collimators/Focusers – Pigtail Style
LPC-03-1550-8/125-P-0.44-2AS-40-3A-3-2 and LPF-01-1550-8/125-P-3-19.4-5AS-60-3A-3-1

• As Small as 2µm Spot Sizes, Up to 50W Power or Higher
• Up to -60dB Backreflection SMF, PMF & MMF
• 1.6mm, 2.5mm, 4mm, 8mm, 11mm, 12mm & 25.4 mm OD Housing
• 240 nm – 2200 nm
Fiber Pigtailed V-Groove Arrays

- Up to 96 Fibers in a Single Array
- 127, 250, 400 & 500 Micron and custom spacing
- SMF, MMF & PMF
Hermetically Sealable Patchcords with Metal Solder

- Meets Telcordia Specifications
- SMF, MMF & PMF Versions
- Fibers can be finished with ferrules, laser cleaved ends or tapered fiber tips.
- Customer Specific OEM Designs
Hermetically Sealable Patchcords with Glass Solder

- No Metalization Required, For Lower Costs
- Meets Telcordia Specifications SMF, MMF & PMF
- Fibers can be finished with ferrules, laser cleaved ends or tapered fiber tips.
- Customer Specific OEM Designs
Hermetically Sealable Patchcords with Glass Solder

- No Metalization Required, For Lower Costs
- Meets Telcordia Specifications SMF, MMF & PMF
- Customer Specific OEM Designs
Metalized Fibers

- SMF, MMF & PMF Versions
- Ideal for Hermetic Component Packaging
- Cleaved Fiber Endfaces, Masked Regions
- Midspan Metalization
Tapered/Lensed Fibers

• As Small As 2 Micron Spot Sizes
• Circular And Oval Spot Profiles
• Custom OEM Designs, Metalized Versions
Fused Fiber Optic Couplers

DTS0033: Fused Couplers – Fiber Optic
FUSED-14-532-3.5/125-25/25/25/25/25-3A3A3A3A3A-1-0.5-SP

* 1x2, 2x2 & 1xN Couplers Available

* 0.5dB Typical Insertion Losses, SMF & MMF

* 488nm to 2050nm Wavelengths
Polarization Maintaining Patchcords

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

- Splits Polarized Light into 2 PM or SM Fibers
- 0.6dB IL, -40, -50, -60dB Backreflection
- 1x2 & 2x2 Versions Available
- 375-2050 nm Versions
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
PM Fiber Optic Circulators

* 0.7dB Typical Insertion Loss
* 450 - 1550nm Wavelength Versions
* Up to 30dB Extinction Ratios
Penetrating Vacuum Feedthroughs

DTS0023: Vacuum Pressure Feedthrough – Fiber Optic
VAC-01-V-SMJ-3A3A-1300/1550-9/125-1-1.5

* No Intrinsic Insertion Loss or Backreflection
* Low Cost, Rugged & Compact Size
* Gas Leak Rate $10^{-8}$ scc/sec
Vacuum Feedthroughs – Receptacle Style

DTS0023: Vacuum Pressure Feedthrough – Fiber Optic
VAC-3S3S-IRVIS-105/125-M

- Singlemode & Multimode Versions
- Easy to Install & Use.
  Compact & Rugged
- Gas Leak Rate $10^{-8}$ scc/sec
High Power Fiber Patchcords

DTS0037: High Power Fiber Optic Patchcords
QMMJ-5HP5HP-UVVIS-200/240-3AS-4
QSMJ-A3HP,3S-320-2/125-3A-2
QPMJ-A3HPM,3S-488-3.5/125-3-5-1

* MMF, SMF & PMF Versions
* Armored Cable Available for Safety
* UV to Far Infrared Wavelengths
* Adjustable connector combination for extra flexibility
High Power Fiber Patchcords

DTS0037: High Power Fiber Optic Patchcords
QMMJ-A3AHP,2F-UVVIS-100/140-3-10
QMMJ-A3AHPM,3AF-IRVIS-50/125-3-2
QMMJ-A3AHPC,X-IRVIS-20/125-5AS-1-AR-CSP
QMMJ-A5HPL,5HPL-UVVIS-200/240-5AS-5

Versions Offered:

- **HP**: High Power Polish, Air Gap connector
- **HPM**: High Power Mechanical Cleave, Air Gap connector
- **HPC**: High Power Coreless Fiber End Cap, Air Gap connector
- **HPL**: High Power Laser Treated Endface, Air Gap connector
High Power Fiber Pigtailed Isolators

- Low Insertion Loss, Up to 100 Watts
- Available From 400 - 2000nm
- Polarization Independent, High Isolation
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 attenuators per unit
- Choose between broad and narrow wavelength
- Optional integrated power monitoring for precise output power control
- USB Interface
- 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.
Benchtop Digital Multichannel Attenuator

- Your choice of up to 4 attenuators per unit
- Choose between broad and narrow wavelengths
- Optional integrated power monitoring for precise output power control
- USB Interface
- 0.6dB to 60dB Attenuation Range
- Available from 350 nm – 2000 nm wavelengths for SM, PM and MM fibers.
- Can be calibrated for up to four individual wavelengths
- Maintains Attenuation with Power Off.
Fiber Modules/Systems/Routings
Thank You for Choosing OZ Optics

Please Contact Our Sales Dept:

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