## **OZ Optics Limited**

#### FIBER OPTIC FAULT FINDER AND SMART PATCHCORD June 2017



- 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





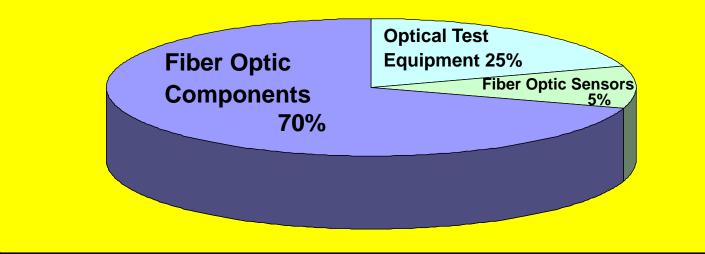




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v.ozoptics.com

#### > Three Product Groups:



> Over 1,000 products> Leading Edge R&D



#### **OZ Optics Products**





#### **OZ Optics Products**



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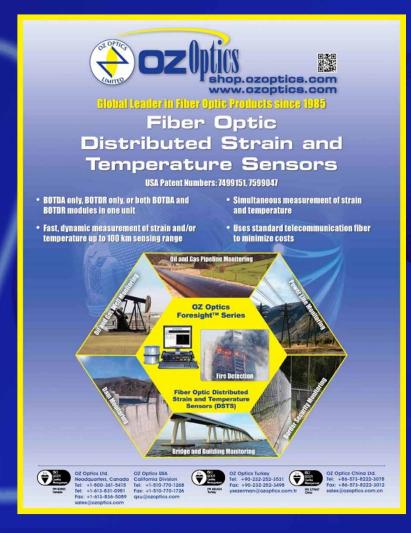
#### **OZ Optics Products**







#### **Product Innovation**





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#### **Product Innovation**





#### **OZ** Canada

#### Over 470 employees worldwide:

- 260 in Ottawa and US
- ➢ 50 in Turkey
- ➢ 160 in China



#### **OZ** China



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#### **OZ Turkey**



#### OZ Optics is lead by an experienced team:

- Ömür Sezerman, Chairman, President & CEO
  - Founder and CEO since inception (32 years)
- Zahide Sezerman, VP of Human Resources
  - With OZ Optics since inception (32 years)
- Garland Best, VP of Components Division
  - 25 years at OZ Optics
- Gordon Youle, VP of Test Equipment Division
  - 18 years at OZ Optics
- Martin Powell, Operation Manager
  - 13 years at OZ Optics
- Sarah Miller, Controller
  - 4 years at OZ Optics
- Metin Sezerman, General Manager of OZ Turkey
  - 16 years at OZ Optics
- Bing Li, General Manager of OZ Optics China
- 13 years at OZ Optics PRIVATE AND CONFIDENTIAL



 ISO 9001:2015 certified
 Broad patent portfolio
 Advanced proprietary processing technology

QUALITY MANAGEMENT SYST	EM - ISO 9001:2008
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Using our strong direct sales and distributors, we address the following markets:





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**



#### **Clean Room**

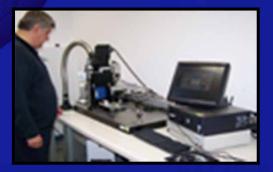


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#### AR Coating



#### Laser Conditioning/Cleaving



#### Femtosecond Laser Lab



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### **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 Facility
- R&D, Product Design, Engineering, Final Assembly & QA

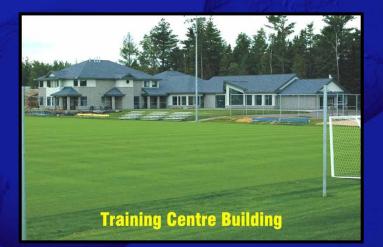






#### Facility – Ottawa Headquarters











### **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



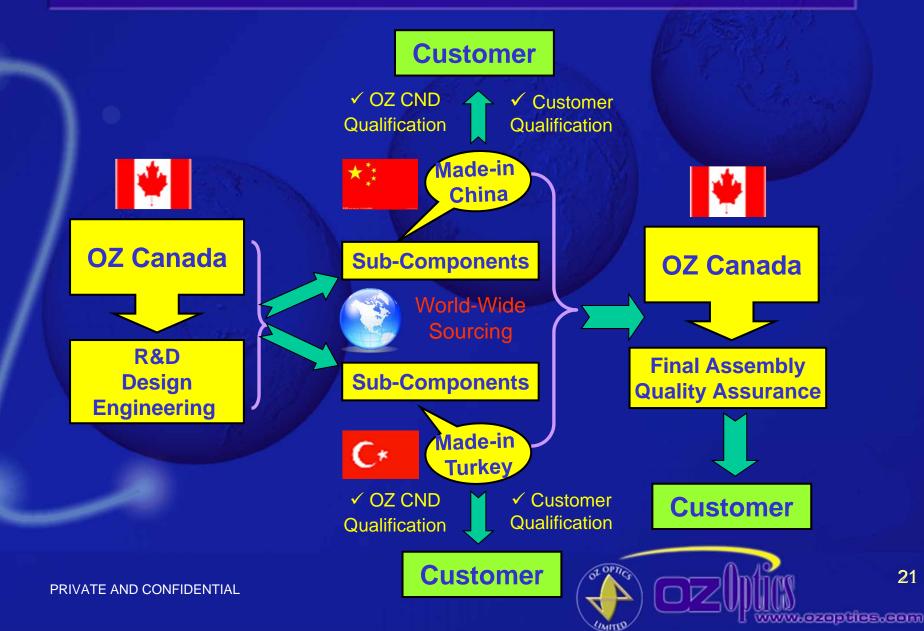








### Manufacturing Strategy



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### **Industry Standards**

🚰 Telcordia.

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

- Telecordia Compliance
- CE Compliance
- RoHS Compliance
- ISO 9001:2008 Certified (China and Turkey)

CE

- ISO 9001:2015 Certified (Canada)
- Controlled Goods Directorate Registered

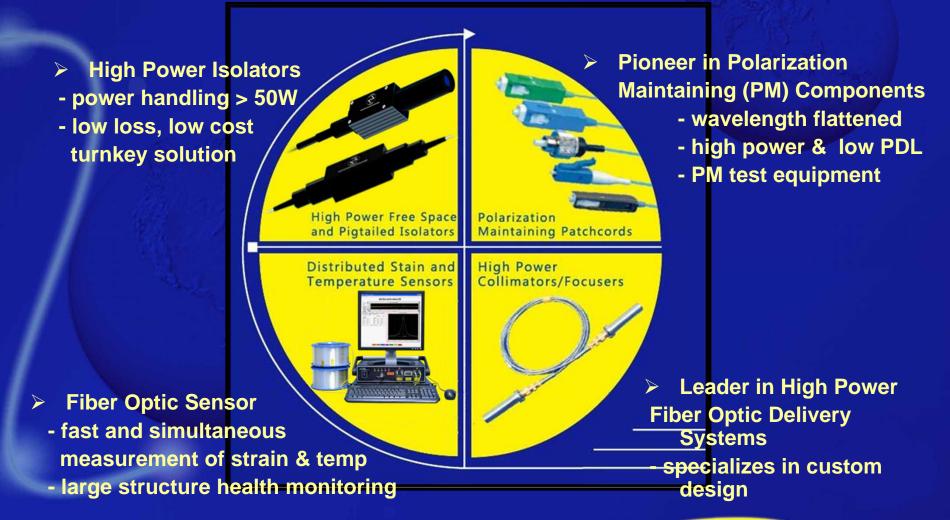


### **Core Competencies**

- 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



## Leading Technology





#### **OUR VISION**

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

#### **OUR CORE VALUES**

- Leadership
- Teamwork
- Boldness
- Commitment
- Innovation
- Rewards

#### **OUR MISSION**

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

#### **OUR QUALITY POLICY**

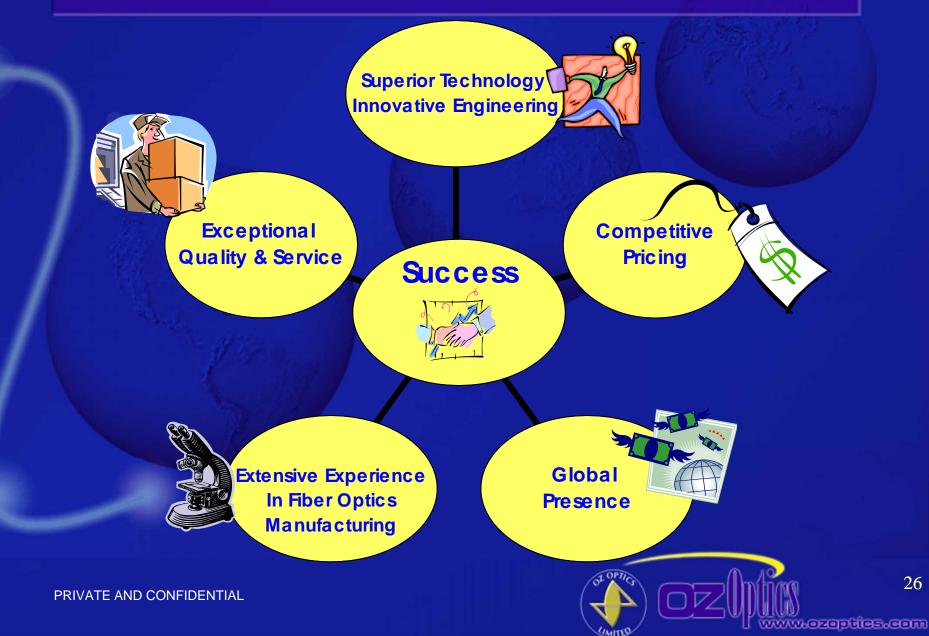
- Provide our Customers with a competitive advantage, leveraging performance, price and delivery, through a continuous process of Quality advancement in all areas of our Company
- Communicate effectively to our Customers, Suppliers and Shareholders our commitment to Quality and continuous improvement
- Promote opportunities of professional development for all members of our Company through education, training and personal challenge

Ömür Sezerman President



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### **Competitive Advantage**



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#### **Smart Patchcord**

Embedded intelligence providing in-line optical monitoring, with remote reporting capability





#### **Smart Patchcord**

#### **Applications:**

- Optical ultra long haul
- Long haul
- Metro transport
- Fiber broadband access networks



#### Wireless Fiber<sup>™</sup>

OZ Wireless Fiber<sup>™</sup> - a Smart Patchcord with a wireless communication interface. Provides network health monitoring independent from the communications channel(s) under test.

Compatible with OZ-Guard<sup>™</sup> Solution



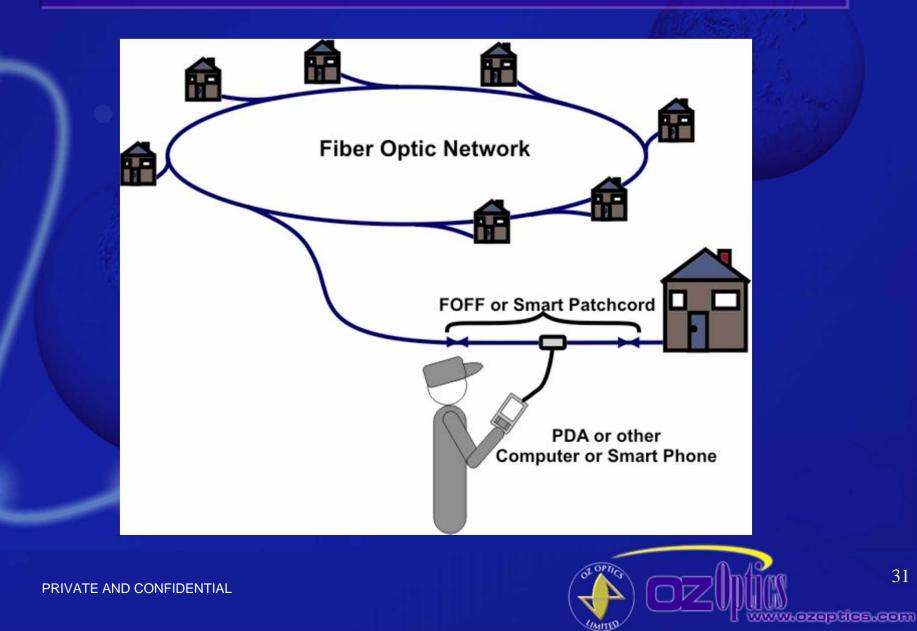
### Wireless Fiber<sup>™</sup>

- One-time permanent installation
- Low cost solution
- Full-time availability
- Remote access to power-level readings
- Accelerates measurement-taking
- No direct physical connection required
- Reduces debugging costs
- Eliminates connection repeatability problems





## **Remote Monitoring for WDM Networks**



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### **OZ-Guard<sup>™</sup>** Fiber Optic Fault Finder

The OZ-Guard<sup>™</sup> Fault Finder provides continuous real-time fiber optic health monitoring for your network.





#### **Fault Finder Application Software**





### **OZ-Guard<sup>™</sup> Fault Finder**

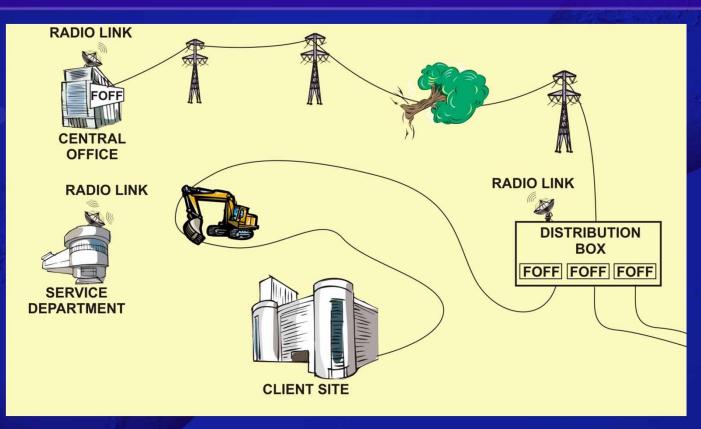
#### **Product Features:**

- Automatic determination of faults
- Fault alerts send via email, SMS and IM
- Priced for compatibility with permanent installation

Allows field engineers to focus on more complex issues and effecting new installations



### OZ Guard<sup>™</sup> Fault Finder System

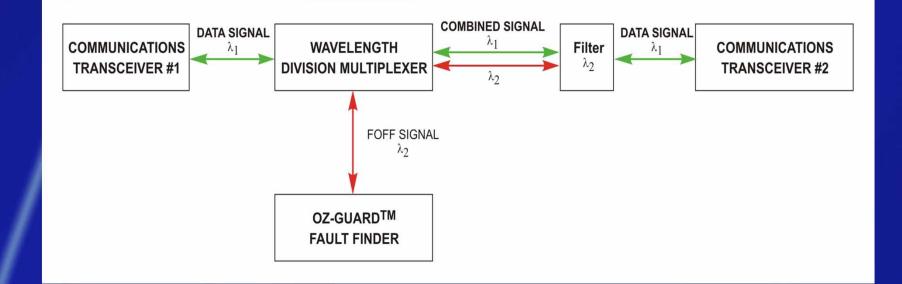


#### Remote monitoring of a WDM network

A Fault Finder cannot "see" beyond a splitter or filter, but due to the low cost and remote monitoring, individual Fault Finders can be used on each leg of the network.



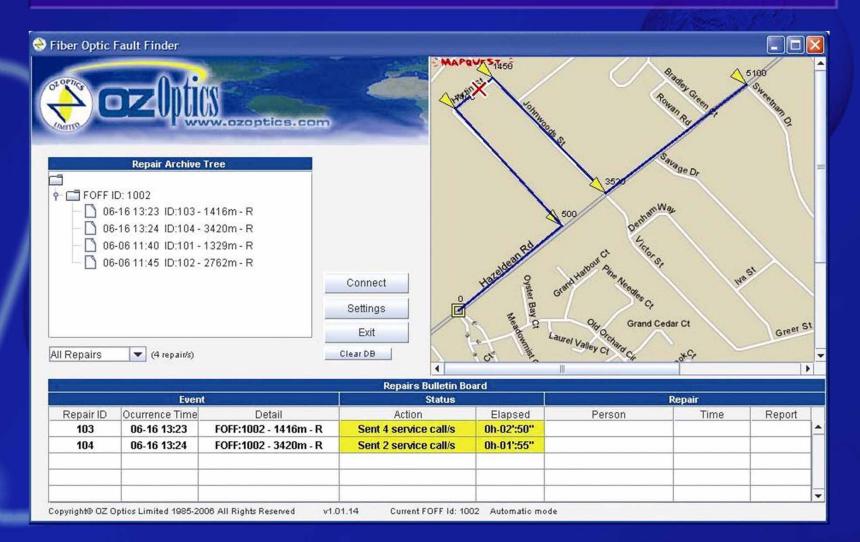
### OZ Guard<sup>™</sup> Fault Finder System



#### Combining data and FOFF signals together.



#### **GPS Locator**





### **OZ-Guard<sup>™</sup> Key Features**

- Monitor fiber optic health via power & OTDR data
- Transforms data into actionable information
- Sends time and location stamped alerts
- Escalates alarms until problem solved



### **Optical Network Safeguard**

#### The OZ-Guard<sup>™</sup> Total System Solution

Reduces network operating expenses

 minimize field repairs

 Improving network availability

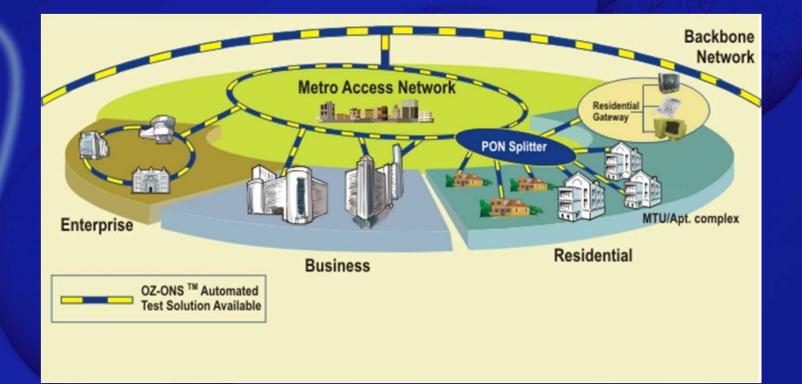
 immediate notification of faults, reduce downtime

 Optimizes field engineering resources

 Automates routine maintenance



#### Fiber Optic Fault-Finder for Optical Network Safeguard<sup>™</sup>

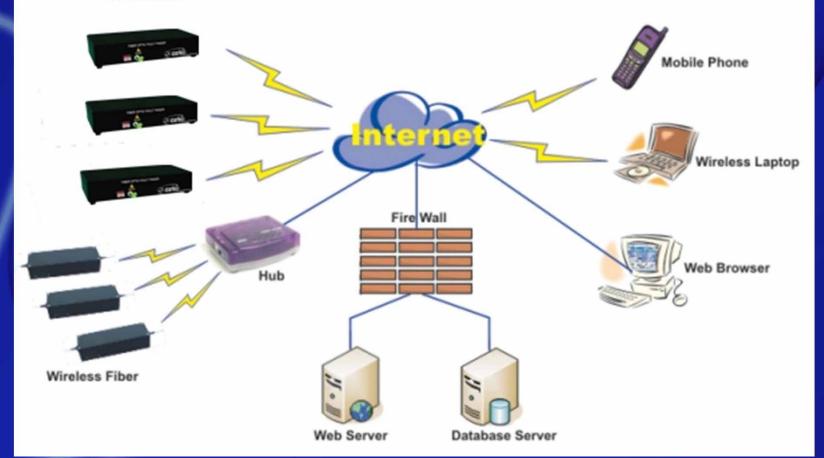


Innovative and Complete Solution for Fiber Network Health Monitoring



### **OZ-Guard<sup>™</sup>** System Architecture

Fault Locator





#### **The OZ Optics Commitment**

Fiber Optic Network Operators can rest assured that OZ Optics is committed to providing a complete solution, lab evaluations, and field trials to meet the requirements of their specific network



### **OZ Optics**

Your solution provider for existing and next generation fiber opticcomponents and test equipment

Please Contact Our Sales Dept: Tel: 613-831-0981 ext 3370 Toll Free: 1-800-361-5415 Email: <u>sales@ozoptics.com</u>.



# Thank You for Choosing OZ!



