



ELECTRO-OPTICS TECHNOLOGY, INC.



Welcome!



ELECTRO-OPTICS TECHNOLOGY, INC.



ELECTRO-OPTICS

TECHNOLOGY, INC.

COMPANY OVERVIEW



ELECTRO-OPTICS TECHNOLOGY, INC.

MISSION STATEMENT



“EOT COLLABORATES WITH CUSTOMERS TO PROVIDE INNOVATIVE ENABLING PHOTONICS PRODUCTS THAT ARE THE BEST VALUE IN TERMS OF PERFORMANCE, RELIABILITY, DELIVERY, AND COST.”



ELECTRO-OPTICS TECHNOLOGY, INC.

COMPANY PROFILE

- EOT IS A GLOBAL PROVIDER OF ENABLING PRODUCTS FOR LASER SYSTEMS.
- EOT'S OPTICAL ISOLATORS ARE USED TO PROTECT LASERS FROM ASE, OPTICAL FEEDBACK AND BACK REFLECTIONS.
- EOT'S PHOTODETECTORS ARE USED TO MEASURE THE PULSEWIDTH OR FREQUENCY RESPONSE FOR A VARIETY OF LASERS.
- WITH ALMOST 30 YEARS OF EXPERIENCE, EOT POSSESSES THE RESOURCES AND PROCESSES NECESSARY TO MEET THE NEEDS OF LASER MANUFACTURERS AND USERS.



ELECTRO-OPTICS TECHNOLOGY, INC.

COMPANY OVERVIEW

- FOUNDED IN 1987 IN FREMONT, CA
- RELOCATED TO TRAVERSE CITY, MI IN 1992
- >85 EMPLOYEES
- 40,000 SQUARE FT. NEWLY CONSTRUCTED FACILITY
- 15,000 SQUARE FT. ISO 6, STATE-OF-THE-ART CLEAN ROOM





ELECTRO-OPTICS TECHNOLOGY, INC.

PRODUCT DEVELOPMENT

PEOPLE

13 FULL-TIME ENGINEERS

FACILITIES & EQUIPMENT

LABS INCLUDE:

- NUMEROUS LASERS UP TO 1KW AT 1 μ M AND VARIOUS WAVELENGTHS
- BEAM PROFILERS AND ANALYZERS
- ZEMAX OPTICAL MODELING
- COMSOL MAGNET MODELING;
SOLID WORKS SOFTWARE
- AN ENVIRONMENTAL CHAMBER
- FIBER SPLICING AND FUSING
EQUIPMENT
- ON-SITE MACHINE SHOP

PROCESSES

EOT UTILIZES A GATED DESIGN REVIEW PROCESS WITH FOCUS ON **QUICK RESPONSE MANUFACTURING** TO SERVE FAST MOVING MARKETS AND CUSTOM NEEDS.

CORE COMPETENCIES

- MAGNETO-OPTICAL
- OPTICAL
- ELECTRO-OPTICAL
- THERMAL MANAGEMENT
- FIBER OPTIC DESIGN
- PROTOTYPE MACHINING



ELECTRO-OPTICS TECHNOLOGY, INC.

QUALITY MANAGEMENT SYSTEM

- ISO 9001:2008 CERTIFICATION
- TEAM CONSISTS OF:
 - QUALITY CONTROL MANAGER
 - QUALITY ENGINEER
 - MULTIPLE PROCESS ENGINEERS
- CORRECTIVE ACTION AND PREVENTATIVE ACTION PLANS
- COMPLIANCE AUDITING/PROCESS MONITORING





ELECTRO-OPTICS TECHNOLOGY, INC.

MANUFACTURING PROCESS & CONTROLS

CORE COMPETENCIES

- OPTICAL INSPECTION
- MAGNET ASSEMBLY
- FIBER OPTIC MANUFACTURING
- MACHINING

SYSTEMS & PROCESSES

- **PLEX** COMPREHENSIVE ENTERPRISE RESOURCE PLANNING SOFTWARE
- MULTIPLE PROCESS ENGINEERS
- PASS/FAIL TESTS FOR ALL FINAL ASSEMBLIES
- A LOCAL COLLEGE FEATURING AN OPTICS CURRICULUM FOR TRAINING

TESTING

- EOT POSSESSES ALL THE NECESSARY RESOURCES AND PROCESSES TO ASSURE COMPLIANCE WITH PRODUCT SPECIFICATIONS.
- PROCESS ENGINEERING TEAM ASSURES CONSISTENT, REPEATABLE PRODUCTION PROCESSES.





ELECTRO-OPTICS TECHNOLOGY, INC.

MARKET APPLICATIONS

RESEARCH & DEVELOPMENT

- SPECTROSCOPY
- INTERNAL CONFINEMENT FUSION

MATERIALS PROCESSING

- MARKING, ENGRAVING, WELDING, AND CUTTING
- SOLAR CELL SCRIBING, EDGE DELETION, LINK BLOWING, AND MASK REPAIR

BIOPHOTONICS

- DNA SEQUENCING
- PROTEIN FLUORESCENCE
- PARTICLE SIZING
- RAMAN SPECTROSCOPY

INSPECTION & MEASUREMENT

- 3D METROLOGY
- THZ IMAGING

MEDICAL

- OPTICAL COHERENT TOMOGRAPHY
- FS LASIK

DEFENSE

- STRATEGIC ILLUMINATION
- LIDAR
- STANDOFF DETECTION

DRONES

- DEMAND FOR MORE COMPACT AND HEARTY TECHNOLOGY FOR USE IN DRONE APPLICATIONS INVOLVING HYPERSPECTRAL IMAGING, SPECTROSCOPY, AND OTHER FOR USE IN DEFENSE-RELATED ACTIVITIES, GEOGRAPHIC MAPPING, STRUCTURAL AND SAFETY INSPECTION, PRECISION AGRICULTURE, LAW ENFORCEMENT, AND MANY MORE.
- HIGH GROWTH MARKET WITH IMMEDIATE AND LONG-TERM POSSIBILITIES.



ELECTRO-OPTICS TECHNOLOGY, INC.

PRODUCTS



FREE SPACE OPTICAL ISOLATORS



FIBER LASER ISOLATORS



PHOTODETECTORS



CUSTOM SOLUTIONS



ELECTRO-OPTICS TECHNOLOGY, INC.

FREE SPACE OPTICAL ISOLATORS

APPLICATIONS

- ULTRAFAST, HIGH PULSE ENERGY AND HIGH AVERAGE POWER SOLID-STATE LASERS IN THE 500-1100NM REGION
- 1900-2100NM AND 4500-4600NM PULSED AND CW QCLS, DFBS, AND SOLID-STATE LASERS
- COMPACT LASER DIODE ISOLATORS FROM 532NM-980NM
- CUSTOM FARADAY ROTATORS AND ISOLATORS



FEATURES

- MOST DEVICES ARE COMPLETELY PASSIVE; NO TUNING REQUIRED.
- ALL ISOLATORS CONTAIN ESCAPE PORTS; ALL REJECTED BEAMS ARE DEFLECTED AT 90°.
- OPTIONAL $\lambda/2$ PLATE AVAILABLE FOR ALL ISOLATORS.

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ELECTRO-OPTICS TECHNOLOGY, INC.

FIBER LASER ISOLATORS

APPLICATIONS

PROTECT FIBER LASERS FROM BACK REFLECTIONS FROM HIGHLY REFLECTIVE MATERIALS

FEATURES

- POLARIZATION INSENSITIVE ISOLATORS AVAILABLE
- FREE SPACE AND FIBER INPUT/FREE SPACE OUTPUT ISOLATORS AVAILABLE
- AVAILABLE WITH SMF, MMF, AND LMA FIBER
- POWER HANDLING UP TO 80W WITH MINIMAL THERMAL LENSING OR M^2 DEGRADATION



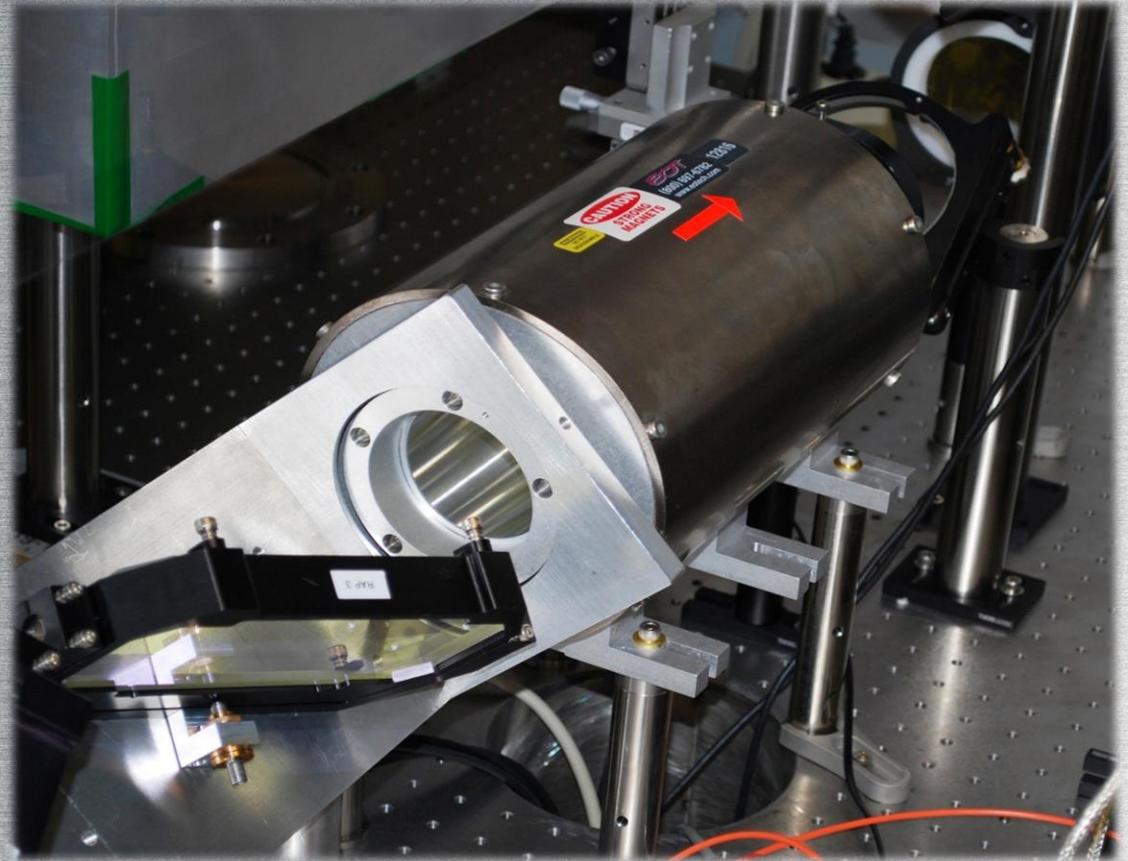


ELECTRO-OPTICS TECHNOLOGY, INC.

CUSTOM PRODUCTS

CAPABILITIES

- VERY LARGE APERTURE FREE SPACE FARADAY ROTATORS
- HIGH ASPECT RATIO FARADAY ROTATORS FOR SLAB LASERS OR HIGH AVERAGE POWER LASERS
- WORK WITH CUSTOM FIBERS
- NON-STANDARD WAVELENGTHS
- CUSTOMIZE MECHANICAL DESIGN
- CUSTOM SOLUTIONS TEAM DEDICATED TO CUSTOM PRODUCTS





ELECTRO-OPTICS TECHNOLOGY, INC.

PHOTODETECTORS

APPLICATIONS

- MONITORING OUTPUT OF Q-SWITCHED, MODE-LOCKED, AND EXTERNALLY MODULATED CW LASERS
- TTL DETECTORS ENABLE TRIGGERING APPLICATIONS.
- LARGE AREA DETECTORS CAN PROVIDE POWER MEASUREMENTS.

FEATURES

- FREQUENCY RESPONSES $>12.5\text{GHz}$ AND RISE TIMES OF 35PS
- SPECTRAL COVERAGE FROM 190-5000NM
- AMPLIFIED DETECTORS AVAILABLE WITH A POWER GAIN OF 20.
- MOST MODELS AVAILABLE WITH AN INTERNAL BIAS SUPPLY OR WALL PLUG-IN POWER SUPPLY.





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THANK

YOU!