APPLICATIONS

IDIL Fibres Optiques combines long-time experience designing and manufacturing lasers and optical fibers technologies for the most demanding markets.

- Astronomy
- Space
- Aeronautics
- Transportation
- Infrastructure
- Industry
- Energy
- Environment
- Natural resources
- Agri-food
- Biotechnology & Pharmacology
- Life sciences
- Defence & Security

ENGINEERING SERVICES

We should be pleased to assist you with the following:

- Designing / CAD
- Prototyping
- Manufacturing (small & large-scale quantities)
- Subcontracting
- Performance characterization
- Quality inspection and report writing
- Maintenance and scheduling
- Training

HIGH EXPERTISE

Our employees are recognized for their project management and realization of innovative and financially profitable solutions for our customers.

IDIL HEADQUARTER

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IDIL SOUTH EAST

710 rue de Paris
01170 Gex / FRANCE

LASERS & OPTICAL FIBERS TECHNOLOGIES
WWW.IDIL.FR

CRÉATION GRAPHIQUE
CUSTOM MADE PRODUCTS

As many of our customers face very individual and demanding challenges regarding their applications, all our products can be customized, according to their needs.

Fiber Optics & Components

- Connectors
- Graded index expanded beam connectors
- Fiber optic cables, pigtails
- Launch-fibers
- Optical bundles
- Optical probes
- Collimators / Focusers
- Lensed fibers
- End fiber shaping
- 2D fiber arrays
- Optical delay lines
- Fiber stretchers
- Variable optical attenuators
- PM tunable filters
- Couplers / Splitters
- Circulators
- Fiber Bragg gratings

Optoelectronic Systems

- Photonic Doppler Velocimeters (PDV)
- Optical shutters
- Optical programmable pulse generators
- Phase modulation systems
- Amplitude modulation systems
- Instrumentation systems
- Electrical-optical synchronization converters

Spectroscopy & Microscopy

IDIL provides sensing solutions and multiple measurements techniques:

- Absorbance
- LIBS (Laser Induction Beam Spectroscopy)
- Reflectance & Transmittance
- Fluorescence
- Raman
- Colorimetry
- Irradiance
- Oxygen & pH sensing
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- Circulators  
- Fiber Bragg gratings  
- Fiber Bragg Gratings sensors  
- Brillouin scattering of light sensors  
- Rayleigh and Raman scattering  
- Optical probes  
- Interrogation units

IDIL has an extensive and recognized experience within laser sources and systems with the development of the Megajoule laser source for the CEA or other international standing projects.

- Narrow bandwidth lasers  
- Fiber lasers (Er/Yb)  
- Laser diode sources  
- SLED sources  
- Fiber amplifiers  
- ns/ps lasers  
- ASE sources  
- Front-end, seeders  
- Custom electronic laser drivers

Whatever the application is, IDIL delivers customized and complete sensing solutions (sensors and interrogation units) that perfectly meet customer needs.

Measurement:  
- Temperature  
- Strain  
- Displacement  
- Vibration  
- Acceleration  
- Pressure  
- Load  
- Ablation  
- pH  
- Oxygen  
- CO2 ...

FIBER TERMINATION
IDIL has a great know-how as regards fiber optics termination. Define your custom fiber optic cable, pigtail, fiber end…

Custom:  
- Connectors  
- Beam expanders  
- Polishing type  
- Fiber type  
- Fiber quantity  
- Jacket / cable style / buffer  
- Required length

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Lasers & Amplifiers

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1064 nm pulsed laser

Fiber Sensors

- Fiber Bragg Gratings sensors  
- Brillouin scattering of light sensors  
- Rayleigh and Raman scattering  
- Optical probes  
- Interrogation units

Optical FBG sensor

Education Systems

- Erbium doped fiber  
- Wavelength demultiplexing / multiplexing  
- Low coherence interferometry  
- Fiber optic gyroscope  
- FBG training kit  
- Fiber optic training kit interferometry  
- Fiber optic training kit reflectometry  
- Optical spectrum analyzer ASO series

Erbium doped fiber amplifier training kit
OPTICAL SENSORS

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Measurement:
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