



Cutting edge
technological solutions
for scientists and
engineers



Defence



Educational



Scientific



Industrial



Space



We are India's leading scientific instrument and solutions provider. With several years of experience in sales and after-sales technical support, we can help you in identifying the right instruments and solutions from across the globe for your complex scientific problems. We assure you of the best technical support throughout the life cycle of your instruments.

TECHNOLOGY PARTNERS

Tech-Éclair closely work with some of the world leaders in Laser technology, LIBS and PIV system manufacturers from across the globe to bring their world class products and services to your lab. We have partnered with Quantel Lasers (Lumibird Group) of France, ILA_5150 of Germany, and Light Age of USA. Together with our technology partners, we bring latest products to help you solve your complex scientific problems. We also assure you of the best technical support throughout the life cycle of your instruments.



LUMIBIRD is one of the world's leading specialists in lasers. With 50 years of experience and expertise in 3 key technologies - solid-state lasers, laser diodes, and fibre lasers. The group design, manufacture and market high-performance lasers for the industrial (manufacturing, LIDAR sensors), scientific (laboratories and universities), medical (ophthalmology), and defence markets.

Quantel laser range from Lumibird offers a wide range of products that meet the special requirements of industrial, military, and scientific applications. Their range includes:

- Pulsed solid-state lasers (Nd: YAG, Nd: YLF, and Nd: Glass)
- Tunable dye lasers and OPOs
- High power laser diodes.
- Lumibird also designs and manufactures custom lasers to meet unique application requirements.
- Laser Damage Test services (Laser Damage Threshold, Laser Durability Certification, Optical Density, Transmission Vs Fluence, Speciality testing, etc.)

More info at: www.quantel-laser.com



ILA GmbH was founded in 1995 as a small spin-off company of the Berlin Technical University. For years, the company was situated in Jülich, having customers in the field of LDA and PIV all around the globe. ILA_5150 GmbH was officially founded in April 2016, as the PIV branch of the former ILA GmbH and is located next to the city centre in Aachen, Germany. This was done after an internal restructuring process showed the potential to separate the two branches (LDA and PIV), to be able to focus more on the respective technology. They have more than 20 years of experience in supplying tailor-fit PIV solutions to their customers across the world.

They have broad expertise in the fields of:

- Mechanical Design
- Optics
- Electronics
- Software Development

They also have developed complex integrated PIV systems like RoboPIV- fully automated, tunnel management integrated PIV Solution that is up and running in wind tunnels of the major Formula 1 teams.

More info at: www.ila5150.de/en

Light Age, Inc. is a privately held US corporation, incorporated in California with principal offices in New Jersey. Light Age is a global supplier of advanced and state-of-the-art laser systems and related technologies. Today, Light Age is the leading supplier of alexandrite laser systems worldwide for almost every application from fundamental research to laser hair removal to atmospheric lidar. Products are sold under their own brands, OEM, and embedded products distributed by other device manufacturers. In addition to volume product manufacturing, Light Age develops custom laser systems and new laser capabilities under contract and in strategic partnerships. Their range includes:

- Pulsed Alexandrite Laser
- Advanced Raman Converter
- Photoacoustic Tomography

More info at: www.lightage.com



PRODUCTS

Laser systems from Quantel Laser by Lumibird, France

- High energy pulsed Nd: YAG Lasers up to 1.5J, air cooled, 10Hz
- Tunable Dye Laser System and OPOs
- Compact pulsed Nd: YAG lasers, up to 850mJ, air and water cooled, up to 400Hz
- Double pulse Nd: YAG Lasers, up to 850mJ, air cooled, up to 25Hz

Tunable Laser systems from Light Age, USA

- Pulsed Alexandrite Laser
- ARC™ - Advanced Raman Convertors



PIV Systems and Solutions from ILA_5150, Germany

Complete PIV solutions:

- 2 Dimensional - 2 Components PIV
- 2 Dimensional - 3 Components PIV
- High Speed PIV
- Industrial PIV
- Robo PIV
- LED Pulsing System PIV V3

Individual PIV Components:

- Cameras
- Software
- Laser systems/ LED Pulsing systems
- Timing units/ Synchronizer
- Move & Control units
- Optical components (Light sheet optics (LSO), Endoscopic LSO, Articulated mirror Arm etc.)
- Seeding/ Particles and many more

LIBS Systems and Components

Tech-Éclair can also supply complete LIBS systems and individual components to help you build your own LIBS set-up at very low cost. Please contact us for more details.

Accessories:

Tech-Éclair can also provide a wide range of essential Laser safety windows and goggles, Laser burn papers, IR Spot Targets, Low energy Paper targets, beam dumps, etc. Please contact us for more details.



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LASER SYSTEMS | PIV | LIBS