

# AdvEOLife

## EXAMPLES OF PROJECTS

### SERVICES:

#### Test campaigns performed in our laboratories

##### • Lifetime evaluation:

- Optoelectronic Chip on carrier
- RF and Microwave components
- Specific fixture design and fabrication

##### • Component module Lifespan:

- Accelerated ageing conditions optimisation (temperature, current, pulse...)
- In-situ monitoring of optical and electrical performances
- Component lot management

### INDUSTRY:

#### Expertise and Products

- Measurement systems for high electrical or magnetic field environments
- Transportable bench for optoelectronic component measurement
- Pulse operation lifetest with in-situ monitoring
- High temperature lifetest under vacuum with optoelectronic performance monitoring
- Instrumentation for ultra low dark current measurement

### SECTORS:

- **R&D:** high-speed optoelectronic components
- **Telecom:** optoelectronic components
- **Space:** optoelectronic components dedicated to satellite applications
- **Defence:** Components with both fiber and electrical interconnects
- **RF& Microwave:** components
- **Health/Biotechnologies:** systems using optoelectronic technologies



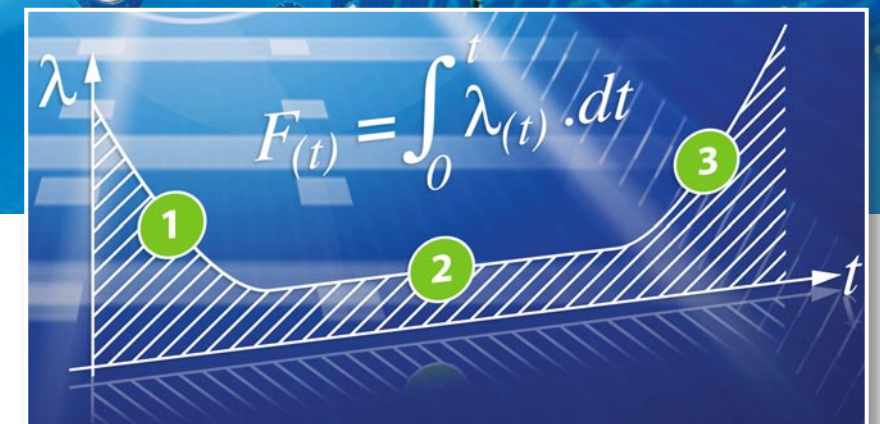
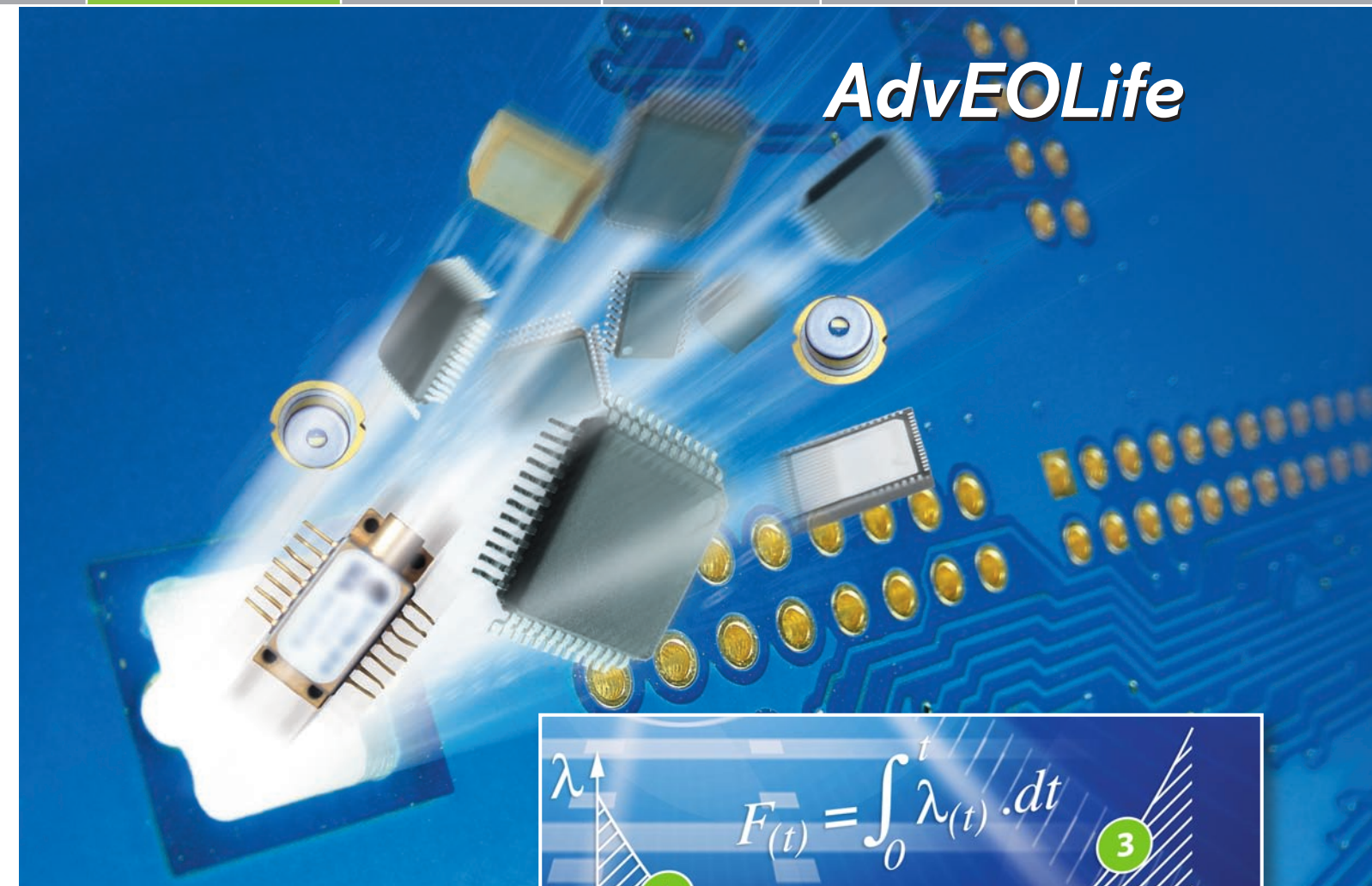
C005A003\_003\_02

AdvEOTec is specialized in measurement of optoelectronics and in optoelectronics for measurements. Its activities are mainly oriented to demanding environments. For many years now, AdvEOTec has been providing

advanced systems and services to various industrial sectors such as telecommunications, defence, space, aeronautics, energy, biotechnologies and transportation.

### CONTACT

6 - 8, rue de la Closerie, Lisses  
ZAC Clos aux Pois CE5270 - F-91052 EVRY Cedex - France  
Tel. +33 (0)1 60 86 43 61 - Fax +33 (0)1 60 86 43 87  
www.adveotec.com - contact@adveotec.com



## AdvEOLife Accelerated LifeTest Equipment for optoelectronic components and related services

Optoelectronic applications are in constant growth in many industrial and scientific sectors. As such, devices have to be qualified before their large scale deployment or their deployment in harsh environments.

With AdvEOLife, AdvEOTec proposes to its clients its human resources, its modern equipment and its rich experience to:

- Check functionality and performances in harsh environments
- Perform accelerated ageing tests
- Qualify components and systems.





# AdvEOLife

# AdvEOLife

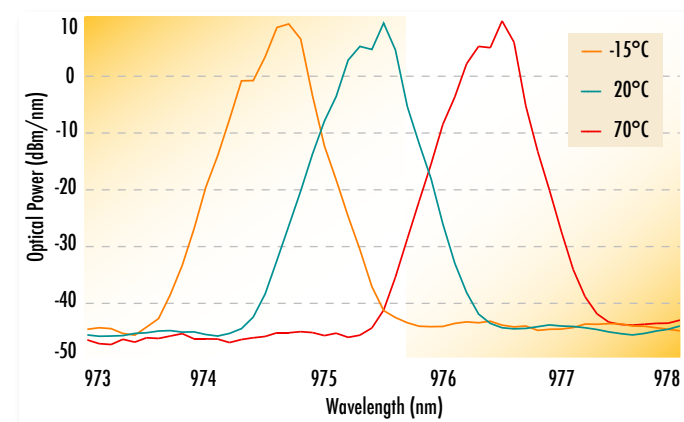
## MODULARITY OF CHARACTERISATION BENCHES

AdvEOLife consists of a complete range of modular solutions designed by AdvEOTec that permit tests, qualifications and endurance testing on optoelectronic components. Thanks to its expertise in the field of characterisation, modelling and simulation, AdvEOTec has developed an in-house methodology and ergonomic tools to track the variation in performance of components under test. Proposed solutions range from transportable bench for individual testing to complete systems for monitoring simultaneously a series of optoelectronic components.

AdvEOLife covers a wide range of needs ranging from qualification campaigns of components that are still in development phase to qualification tests and standard measurement of mass-produced components.

AdvEOLife is suitable for all types of optoelectronic components :

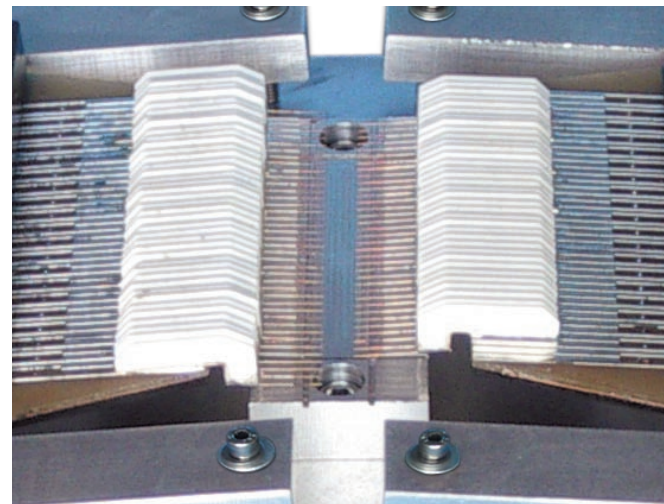
- Electro-optic modulators
- Photodiodes: PIN, APD, ...
- Laser diodes: single or multi-emitters
- LED, SLED
- Optocouplers
- Phototransistors
- MMICs
- Oscillators
- Interconnects
- Transmission Lines



## AN EVOLUTIVE AND INDUSTRIAL SYSTEM

Specialised in characterisation bench design and computer engineering, AdvEOTec has automated various operations to ensure the monitoring of component performances and the real time measurements of key parameters. AdvEOLife is composed of industrial modules related to measurements:

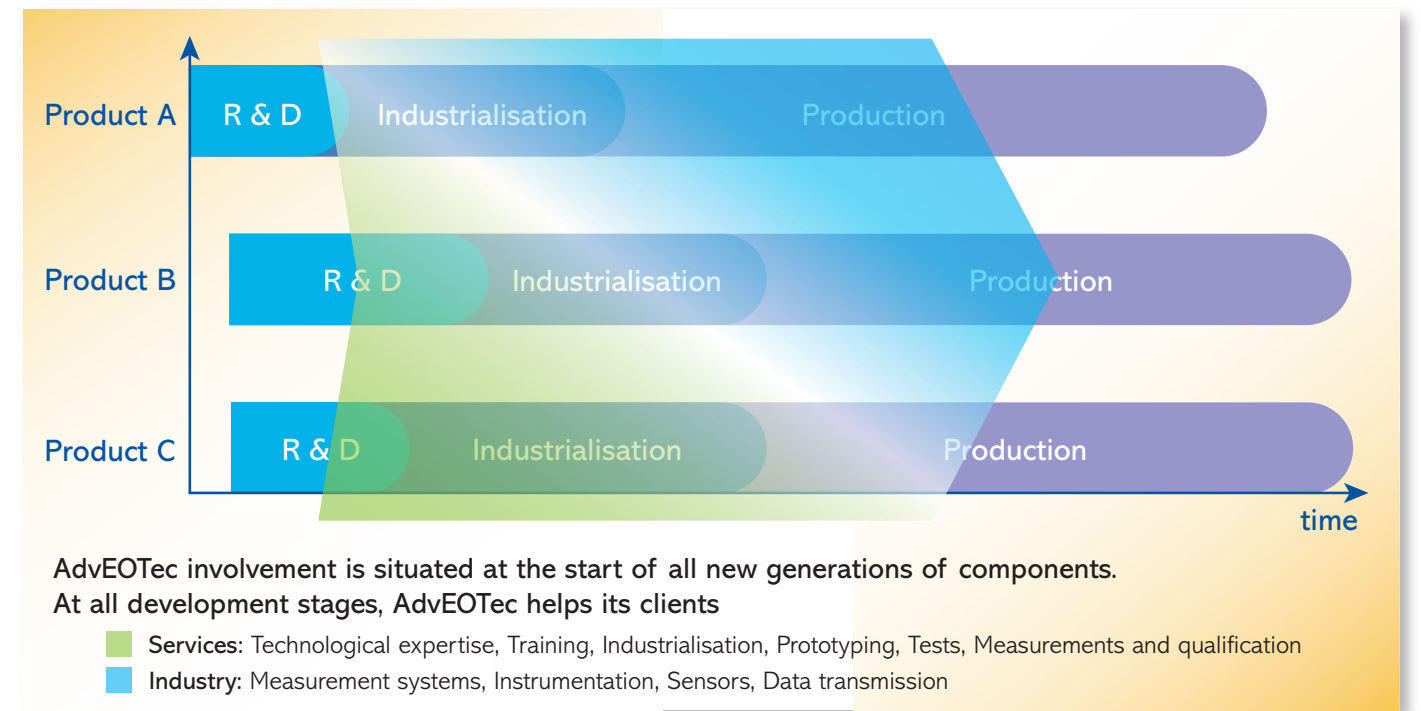
- Measurement fixtures: AdvEOProbe
- Ultra Low noise multiplexer
- Combs of multiprobes
- Reliable instrumentation



Beyond standard solutions that are proven by the numerous projects accomplished by AdvEOTec, the company is in a process of continuous innovation and is hence able to develop specific modules adapted to new technological feats.

The modular and compact characteristics of AdvEOLife make it suitable for numerous environments. It can be used by our clients or partners having complementary competencies. AdvEOLife applications are numerous:

- Thermal cycling and performance dependence with temperature
- Low and high temperature storage



AdvEOTec involvement is situated at the start of all new generations of components. At all development stages, AdvEOTec helps its clients

- Services: Technological expertise, Training, Industrialisation, Prototyping, Tests, Measurements and qualification
- Industry: Measurement systems, Instrumentation, Sensors, Data transmission

- Damp heat
- Vacuum ageing
- Mechanical tests
- Vibrations
- EMC Electromagnetic compatibility
- Ionising and non-ionising dose radiation

## LONG TERM PARTNERSHIP

AdvEOTec is an essential actor in the industrialisation of optoelectronic components. Thanks to its experience and to its competencies in optics, electronics and physical measurements, AdvEOTec has been working for several years with major component and system manufacturers in reliability programmes and in the analysis and the modeling of components.

## TEST BENCHES AT OUR CLIENTS

In addition to its services, AdvEOTec is ready to build any turn-key equipment according to customer specifications. AdvEOTec takes in charge the specification validation, the equipment and software development, the industrialisation, fabrication, installation and training of operators. AdvEOTec ensures the regular servicing and updates.

## AVAILABLE SERVICES AT ADVEOTEC

Whatever the mission, from qualification to burn-in, whatever the components to be tested, AdvEOTec puts in place a partnership with its clients based on a rigorous project management.

