



Optical, Opto-mechanical and
Electro-Optical Equipment Production,
Development and Research Company

PRO OPTICAS.A.



PRO OPTICA - A short presentation

Who is PRO OPTICA S.A.

PRO OPTICA S.A. is private joint-stock company, playing a leading role on the Romanian market of electro-optic systems and leader of a group of five partner companies acting in the Defense & Security domain.

The activity field of the group ranges from research and development to production of:

- Day and Night Vision systems (Image Intensifier or Infra Red based),
- Electro-optical systems incorporating various sensors, for pan and tilt platforms remote controlled,
- Dedicated software for these systems,
- Turnkey solutions,
- Optical components or assemblies.

The **main activities** performed by PRO OPTICA and the affiliated companies are directed to:

- Research activities (conducted by a Research company in the group) in the benefit of all group companies, or for other companies;
- Development of new equipments based on electro-optical devices and new technologies including thin optical coatings;
- Design and manufacture of optical, mechanical and electro-optic systems for different applications;
- Optical and Photometric Measurements involved in testing procedures of the products.

The **capabilities** of the group are:

- Optical design and manufacturing of optical components and assemblies for different systems;
- Design and manufacturing of thin layers deposition for optical components (mirrors, windows, filters);
- Design and manufacturing of opto-mechanic assemblies, including experimental setups, and prototypes for optical, opto mechanical and electro-optic systems;
- Integration of electro-optical systems providing innovative solutions for Security and Defense;
- Optical and photometric measurements in a our national accredited lab;
- Management of R&D projects (National or International).

Existing facilities in R&D are laboratory tools, instruments and testing procedures. We are using several software: for optical design "Zemax" and own "Winoptic", for thin layers deposition on optical components own "Strat v6.2", for 3D CAD design "Solid Works", for programming "Visual C" and others;

PRO OPTICA has manufacturing facilities in optics, mechanics, electro optic assembly.

Based on its technical expertise, R&D and production facilities, creative application of engineering concepts, well-developed computer expertise and teamwork environment, PRO OPTICA has successfully developed many products in the security field that are currently delivered to Romanian and foreign market.

Previous experience in space activities

Pro Optica, contributed to the first Romanian micro satellite GOLIAT which was successfully launched on February 9, 2012 at the base in French Guyana. It designed and manufactured the objective for a camera with a resolution of 3 MPix. The objective is for visible spectral range, has the focal length of 57mm and produce images of Earth at altitudes between 300 and 1450 km.

GOLIAT was developed by a research consortium led by the Romanian Space Agency (ROSA) in a collaboration with the European Space Agency (ESA).

Acknowledgement

PRO OPTICA is certified by the National Authority for Scientific Research to carry on research and development activities.

PRO OPTICA is certified ISO 9001: 2000 by TÜV CERT Germany.

PRO OPTICA holds the secretariat of the Romanian Technical Committee (CT 230), member of ISO/TC 172 "Optics and Photonics".

PRO OPTICA is member of the Bucharest Chamber of Commerce and Industry.

PRO OPTICA is also member of the Romanian Standardization Society (ASRO).

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