



**Inframet -
a metrology company
for photonic/microelectronic industry**

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Warsaw 2013

INFRAMET - basic information

- ◆ INFRAMET is an independent company created in Poland in 2002 year as a spin off company from a university group working in field of infrared metrology since year 1986.
- ◆ INFRAMET specializes mostly in three fields
 1. **Equipment for testing optronic imaging/laser systems**
(thermal imagers, night vision devices, TV/LLTV cameras, SWIR imagers, laser systems (laser range finders, laser designators, laser trackers, laser pointers, laser illuminators), multi-sensor surveillance systems, THz cameras, image intensifier tubes, IR FPA/ CCD/CMOS sensors, optical modules).
 2. **Computer simulators** of electro-optical imaging systems,
 3. **Test services** (testing electro-optical imaging systems).
- ◆ **Test equipment** is the most important business.

Optronic surveillance systems and modules



Thermal imagers



TV/LLLTV cameras



Night vision devices



Laser systems



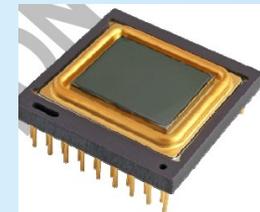
Multi-sensor systems



SWIR imagers



Image intensifier tubes



IR FPA/CCD/CMOS

- ◆ Test equipment is needed for quality control, design optimization, failure prevention, scientific research, etc

INFRAMET - market information

- ◆ **Testing E-O systems is difficult.** There are only several companies in the world that can manufacture equipment for testing optronic systems (USA, France, Israel, Poland).
- ◆ **Type of market:** narrow market of customers (manufacturers, scientific institutes, test laboratories) dispersed in countries all over the world; high cost of R&D, low production costs; high prices of test apparatus
- ◆ **Technical requirements:** only several small companies from most technologically advanced countries are active on optronic metrology market
- ◆ **Company was founded by a scientist looking** for a way to implement practically results of his scientific work.
- ◆ Inframet is a **global company** operating in over 30 countries all over the world.

INFRAMET test apparatus



Testers thermal imagers



DT 150 test system - tester of surveillance thermal imagers at laboratory/depot conditions



LAFT – field tester of thermal imagers



SAFT - tester of measurement imagers

Testers of image intensifier tubes



ITS stations for testing image intensifier tubes

Testers of optical systems



ORI system for testing optical modules

Testers of THz cameras

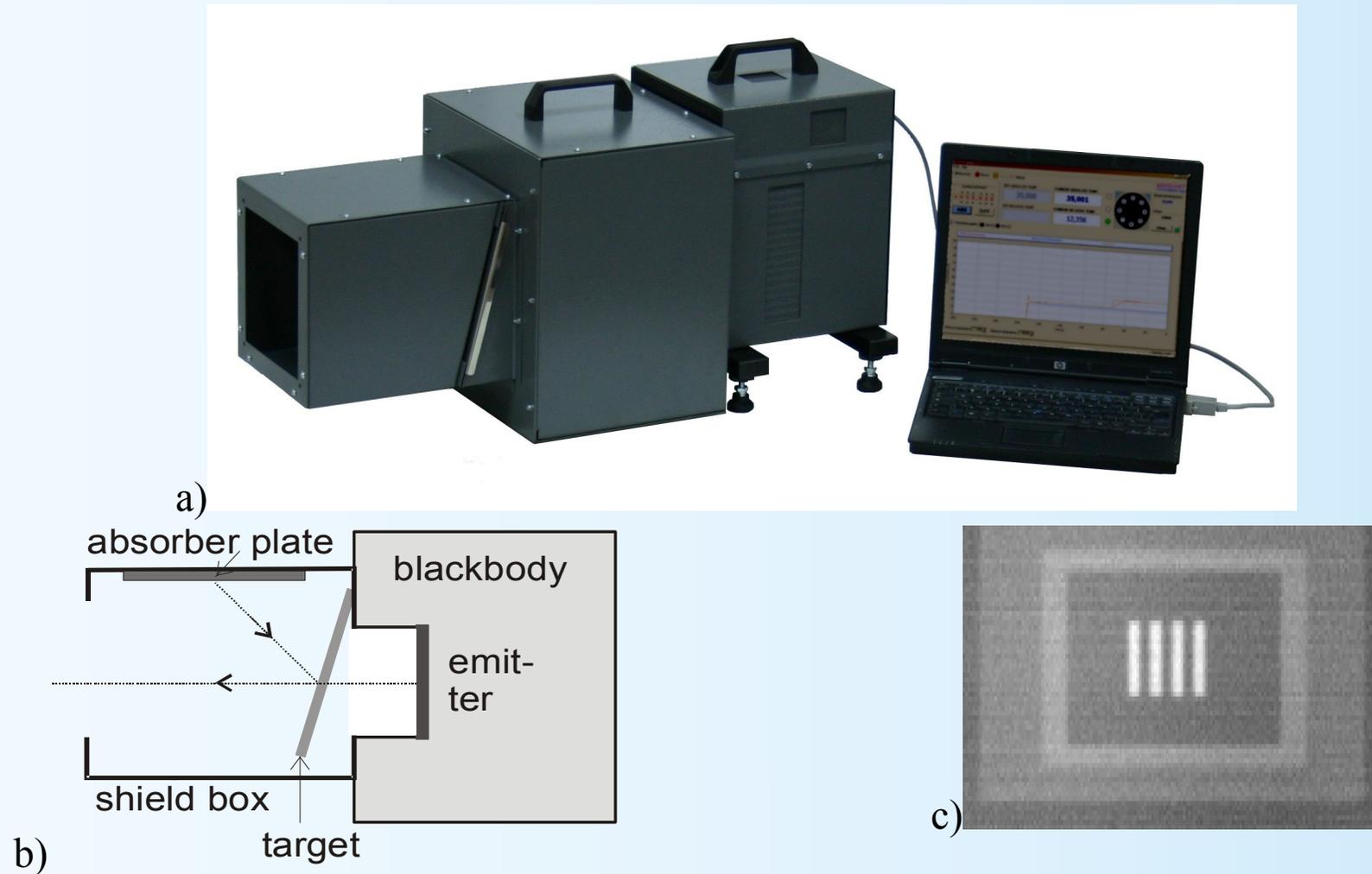
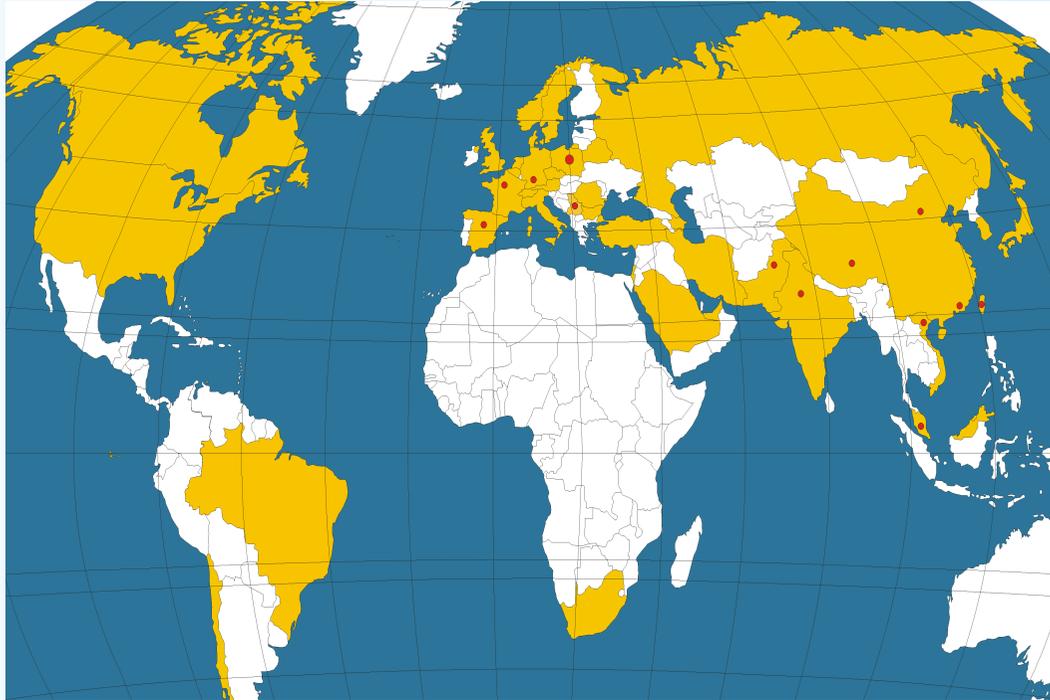


Fig.1 THP test system: a)photo, b)block diagram, c)image generated by tested THz camera

THP system - the first in the world system for testing THz cameras

INFRAMET - commercial status



Sales map: - export range > 30 countries

History:

- 2002 - INFRAMET company was founded (one person company)
- 2004 - first bigger international contract
- 2005 - start of creation process of international marketing network
- 2012 - Inframet is one of top leaders in optronic metrology

- Inframet - one of very few global high-tech companies from Eastern Europe

INFRAMET ↔ SMART FRAME

Present situation

Inframet is a small company that specializes in narrow metrological market that can offer:

1. Delivery of high tech equipment for testing optronic imaging&laser systems and modules, including imaging sensors.
2. Development of custom designed metrological apparatus to support EU photonic/microelectronic projects (particularly in area of imaging sensors).
3. Support in design of imaging&laser systems and imaging modules.

Possible future

1. Development and manufacturing of test apparatus needed in wide areas of photonics and micro/nanoelectronics.

Basically at this stage of company development we treat ourselves as a support company that can support bigger companies or university groups in photonic/microelectronic projects.

However we could possibly invest and start manufacturing in any photonic/microelectronic product developed by EU institutes that could be commercialized on world market (particular interest: high tech, expensive products optimized for narrow markets).

