

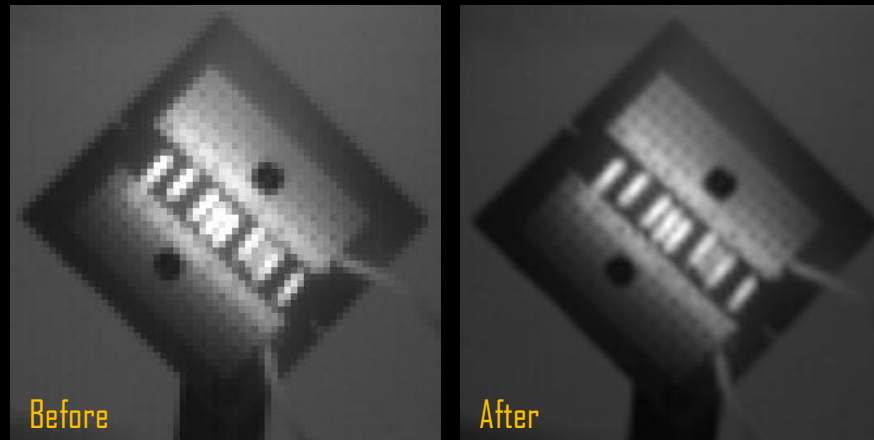
# LIGHTNICS\*

\*A unique and patented technology to:

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- Upgrade and boost in a low cost logic every existing sensor in the market.
  - Improve resolution on all kind of infrared sensors.
  - Develop, in a short time-to-market way, high resolution infrared sensors.
  - Quickly introduce high added value products with specific functions.
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The best High Resolution Technology for infrared arrays.



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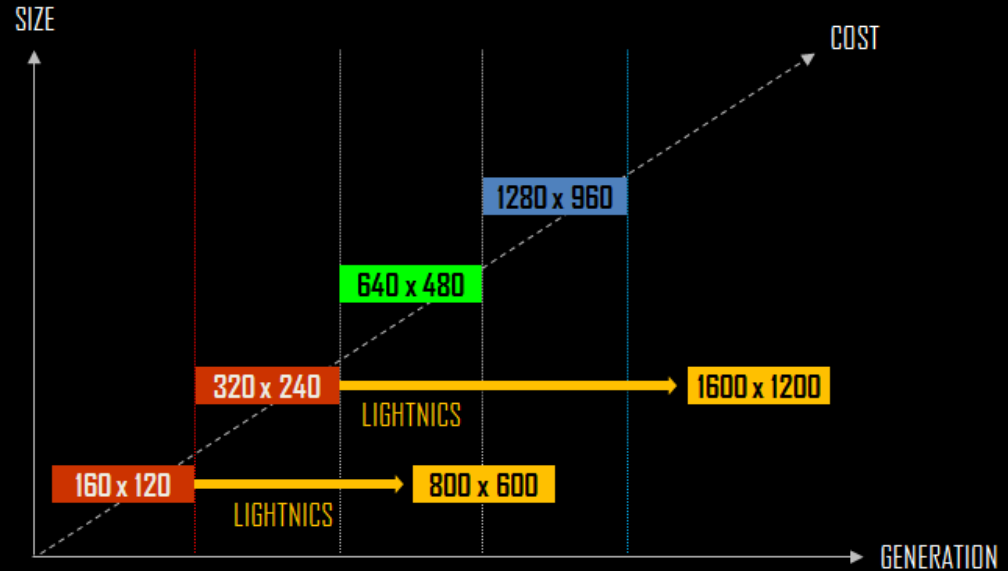
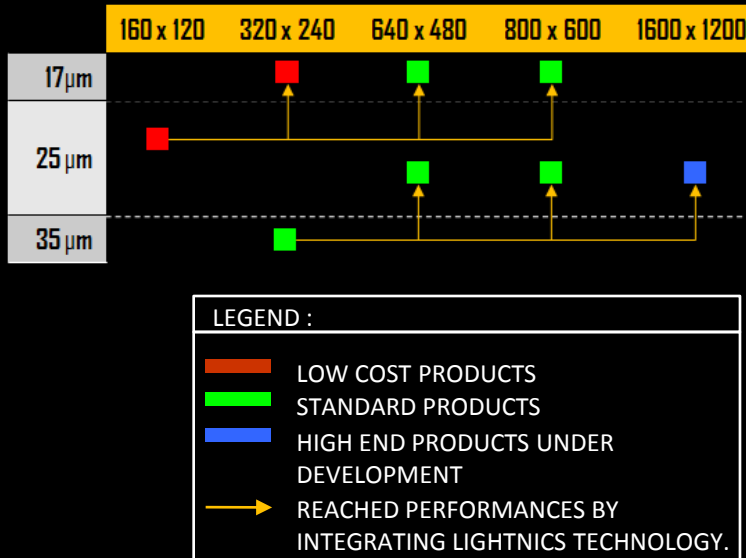
## CONTACT

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# LIGHTNICS Technology enables to:

**Decrease pixel size** **+** **Increase image size** **+** **Increase viewing range** **+** **Reduce sensor's noise**  
(+ 30% range increase)



## BENEFITS:

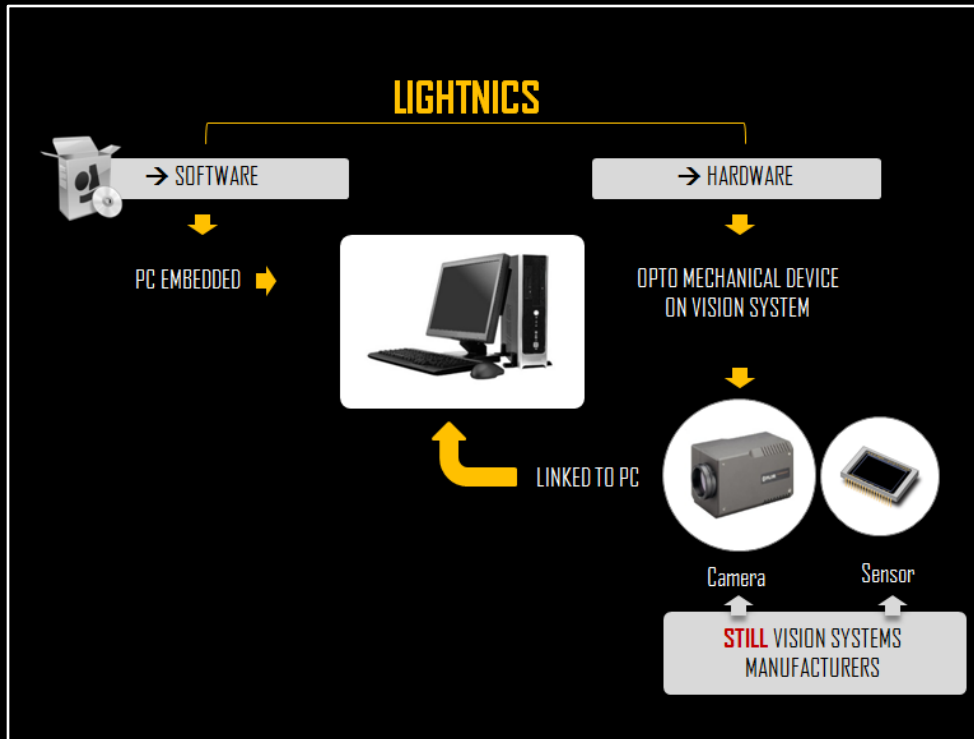
- Perceive smaller details.
- Zoom range increase.
- Replacement for zooms or decrease in current zooms' weight/size.
- Earlier target detection.
- Visualization of enlarged tracked target.
- Easier identification of microscopic defects (chip development, R&D, medicine).

# Global solution operating immediately.

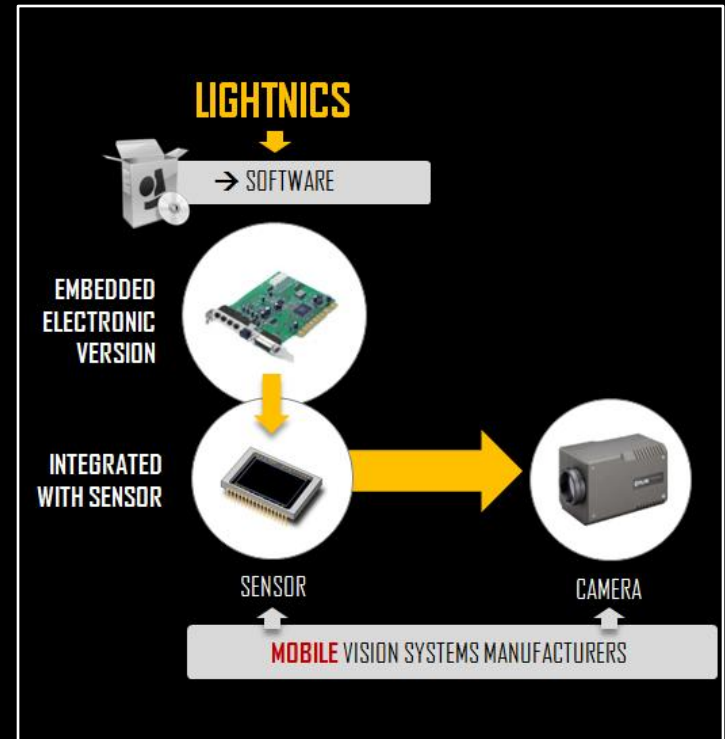
Flexible, our technology can be integrated according to specific needs and constraints:

Ready to plug in a mobile or still vision system.

## LIGHTNICS Technology embedded in a still vision system



## ... In a mobile vision system



Compatible with real time video  
(25 frames/sec.)

# LIGHTNICS Technology for all:

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**For all end users who want to upgrade their vision systems in a low cost way:**

- MILITARY
- BUILDING CONTROL
- R&D LABORATORIES
- HOMELAND SECURITY
- SURVEILLANCE
- INDUSTRIAL QUALITY CONTROL
- INDUSTRIAL MAINTENANCE
- OLD CAMERAS UPGRADING
- MEDICAL IMAGERY
- ...

**For all manufacturers who want to develop new generation of value added products:**

- SENSOR MANUFACTURERS
- INFRA RED SYSTEMS MANUFACTURERS
- VISION SYSTEMS MANUFACTURERS

## ABOUT

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LIGHTNICS : **a unique concentration of expert skills** for a global offering, dedicated to vision devices' enhancement.

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### HARDWARE PRODUCT DEVELOPMENT



- High Resolution vision devices
- Measuring devices (photometer, colorimeter ...)
- Image quality assessment

### SOFTWARE PRODUCT DEVELOPMENT



- Design and development of sophisticated algorithms for software dedicated to:
- Image processing (image quality enhancement, pattern recognition, object tracking)
  - Image quality assessment
  - Image based measurements

### ENGINEERING SERVICES



- Technical integration (optics, mechanics, electronics)
- Performance evaluation and measurement
- Modelling,
- Technical choices
- Optics and optoelectronics systems characterization