

Vis-Imalagic: The "Visible" Imagers of the Future

Background

Improvements in CMOS circuitry have opened up new opportunities, sparked advances in integration and packaging technologies, and driven the development of new detection materials that have a profound impact on the imaging field.

Semiconductor manufacturer e2v has staked out a leading global position in "visible" imaging.

In parallel to the Imalagic project, Vis-Imalagic will enable Minalogic members to offer a global professional-grade imaging sensor solution that covers all spectra (visible, x-ray, and infra-red).

Partners

Corporate

e2v Semiconductors
Soitec / Tracit Technologies

Research laboratories

CEA Leti - TIMA

Other partners

Rhône-Alpes Optics Cluster

Key figures

Budget: €14.5 million

Duration: 3 years

Human resources allocated : 60 people per year

Innovation

Provide the professional-grade market (mainly industrial imaging) with detection solutions based on CMOS technology that combine:

- Excellent detection and signal reading performance to speed up the move from CDD to CMOS on these markets,
- A high level of on-chip function integration, including digital high-dynamic conversion, fault correction and calibration, image pre-processing and pre-diagnostics, and various optical functions,

The goal is to take these capabilities to levels never before seen on these extremely demanding markets so as to pave the way for major systems improvements in terms of compactness, battery life, and interface simplicity.

