

New Infrared Technologies: A vertically integrated company supplying innovative mid-IR detectors, cameras and industrial solutions

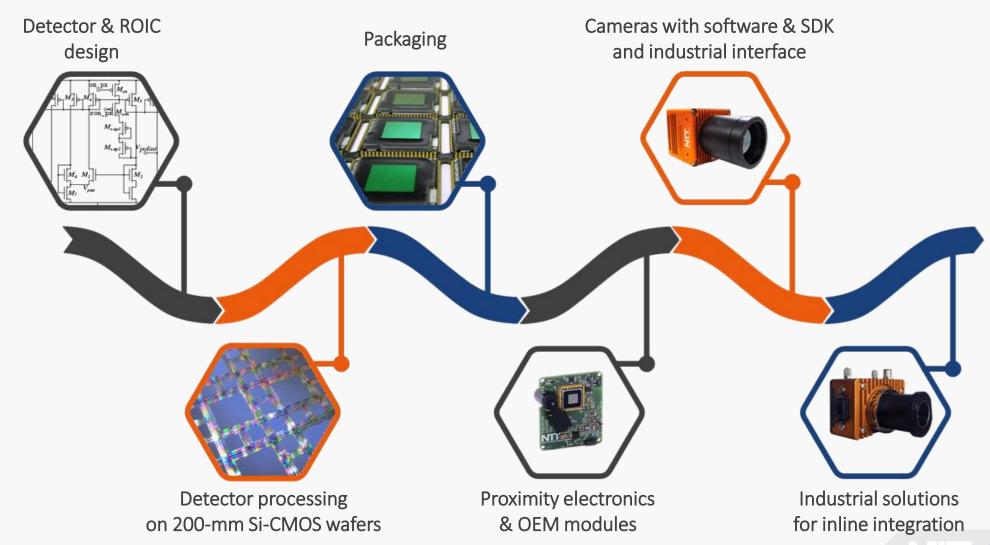
Self-produced IR sensors (VPD PbSe)

MWIR detection (1-5 microns)

High-speed capabilities

Uncooled operation

Affordable solutions



New Infrared Technologies: Product and Solutions portfolio targeted to Integrators, Solution developers and End-users

Single pixel

Linear array (256 px)

OEM modules (1x256, 32x32)

TACHYON 1024 microCAMERA





CLAMIR

Quality assurance of L-DED 3D metal printing Closed-loop control of

Real time monitoring of melt pool width

laser power

Direct integration in laser optics



TACHYON 16k CAMERA PLUS

128x128 px, pixel size: 50 um, uncooled operation

Max. frame rate: 4,000 fps

Snapshot acquisition

GigE VISION & GenICam compliant

Power-over-Ethernet







I3MS monitoring system

Continuous monitoring of melt pool width

Analog output proportional to melt pool width

Warning and Failure alarm levels



New Infrared Technologies: Industrial applications

- Quality assurance of laser-based processes
 - Laser DED 3D metal printing & laser cladding process monitoring and control
 - Laser welding with real-time Machine Learning processing
 - SLM processes (melt pool geometry, position and cooling rate monitoring)
- Arc welding & WAAM process monitoring
- Glass manufacturing quality control
- Spectroscopy & dual-comb hyperspectral imaging
- Strong collaboration with the industry in H2020 projects:











New Infrared Technologies

Calle Vidrieros 30, nave 2 28660 Boadilla del Monte SPAIN

****** +34 91 632 4363

□ sales@niteurope.com

www.niteurope.com www.clamir.com www.i3ms.eu