IR cameras for Vision and Industrial Systems

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Xenics
Infrared Solutions

Xenics activities

"Xenics a supplier of leading-edge infrared solutions"

Large portfolio (10 product families) covering different applications including:

- Highest speed linescan SWIR
  - 2k pixels, 256kHz
- Highest speed 2D array SWIR
  - VGA 1,7kHz
- Ultra SWAP VGA LWIR:
  - only 6g, 800mW
  - shutterless

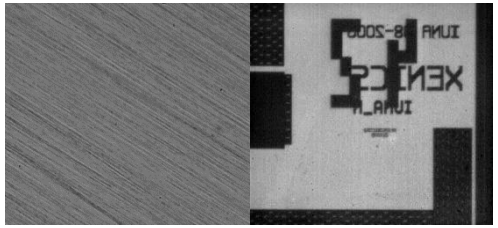
"Xenics designs and delivers several integration blocks"

Visible

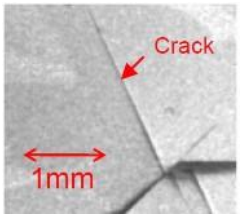
Infrared vision: a major benefit for customers

See Inside

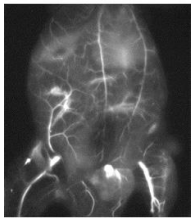
SWIR can see through silicon



Visible camera SWIR Wildcat camera



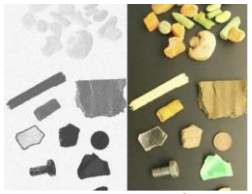
Medical: OCT, Fluorescence



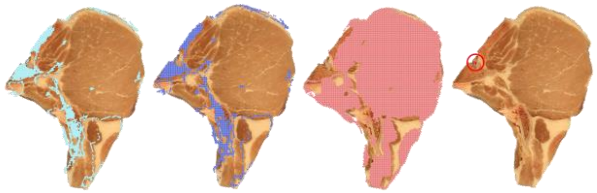
www.an.shimadzu.co.jp/bio/sai-1000.htm

See What

Food sorting and processing



(Image courtesy of Tomra.)



(Image courtesy of P&P Optica.)

Recycling

Image from CTR

See Ahead

Transport

Opportunities: identified next steps

- Wavelength extension in SWIR:
  - Visible-SWIR
  - Up to 1,9µm or even 2,5µm
- Increase resolution:
  - Trade-off between format and other characteristics
- Adaptation to the specific need:
  - Different form-factor (not the standard 4/3 or linear)
- System cost reduction opportunities:
  - Joint specification of pixel operability (selection of bins)
  - Embedded filters
  - Additional intelligence on the sensor or on the camera

NEED USERS TECHNICAL + BUSINESS INPUT

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