

IRView

GATE INNOV GROUP

innovative and smart technologies



IR camera technology.

A new world vision.

www.irview.fr



SWIR technology

SWIR

0.9 TO 1.7

InAsGa : SENSOR

NIR

SWAP

LOW CONSUMPTION

EASY TO INTEGRATE

LIGHT

EMBEDDED APPLICATION

REDUCED SIZE

SMART

MULTI-SENSOR

DATA FUSION

SMART CAMERA

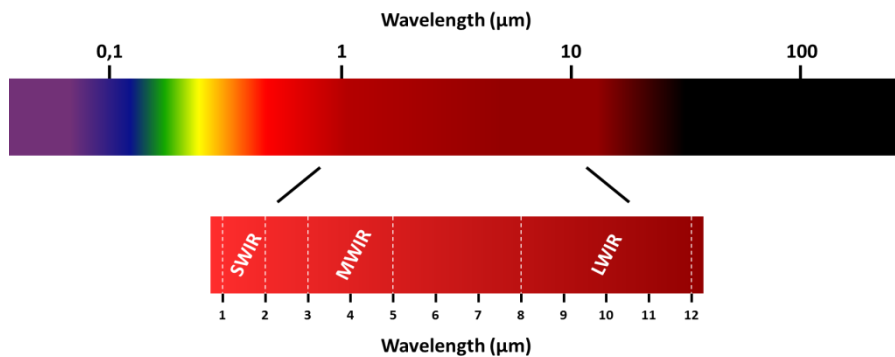
IMAGE PROCESSING EMBEDDED



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PERSONALIZED
SOLUTIONS

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LIGHT SPECTRUM DISTRIBUTION



SWAP & SMART

Sizes, weight and the power are optimized in IRVIEW product. Moreover, the range proposes only smart camera with internal processing capability and image analysis. IRVIEW camera also allow to manage external devices.

FLEXIBILITY

Each cameras offer an embedded IHM and a remote connection allowing quickly integration with a easy handling,

PORTABLE

Due to embedded Image processing and the functioning of the camera on battery, the mechanism is autonomous and portable for security and surveillance application.

NEW PATENTED SYSTEM



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SWIR cameras solution



- ADVANTAGES**
- Embedded image processing
 - Selective data storage
 - Ethernet video output
 - 2 triggers outputs

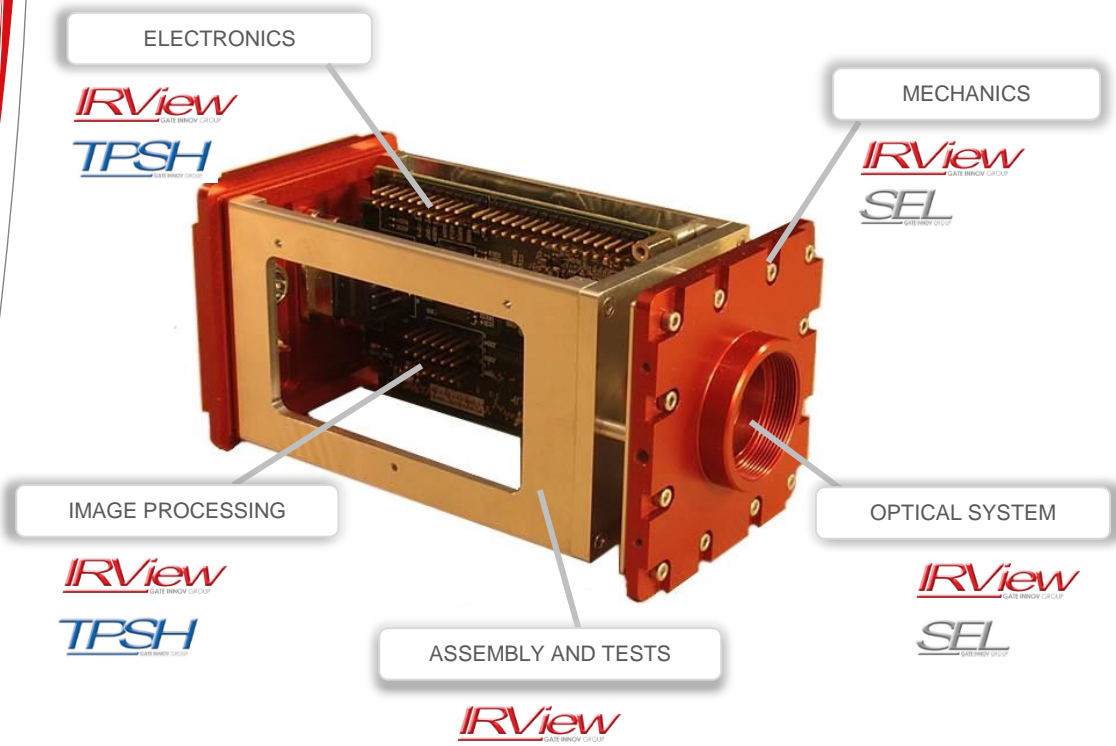
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PRODUCT SPECIFICATIONS

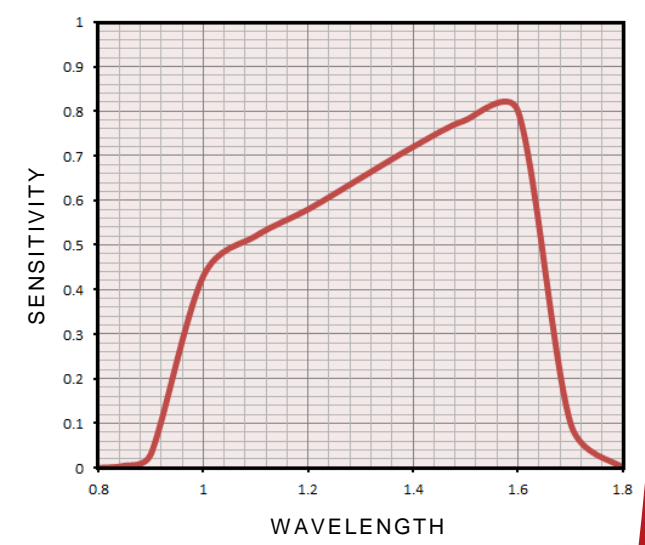
SENSOR	Resolution	128 x 128 pixels
	Pixel pitch	20 μm
	Image size	2,56 mm x 2,56 mm
	Pixel operability	99 %
CAMERA	Size ¹	60 mm x 60 mm x 124 mm
	Weight	< 470 g
	Frame rate	50 - 250 Hz
	Exposure control	50 μs – 15 ms
OPERATING CONDITIONS	Power requirements (external)	DC 7 V to 28 V via 4-pin connector
	Power consumption	Up to 2 W when cooling is ON
	Operating temperature	-10 to 60 °C
	Storage temperature	-20 to 70 °C
MECHANICAL CHARACTERISTICS	Lens mount	C
	Fixture	6 x M2 thread 3 x M3 thread
BATTERY	The operating time will be established to the Order	

¹ without lens

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A REACTIVE ACCOMPANIMENT ALONG YOUR PROJECTS



SPECTRAL RESPONSE



All conception steps are made by the subsidiaries of Gate Innov Group along the production.

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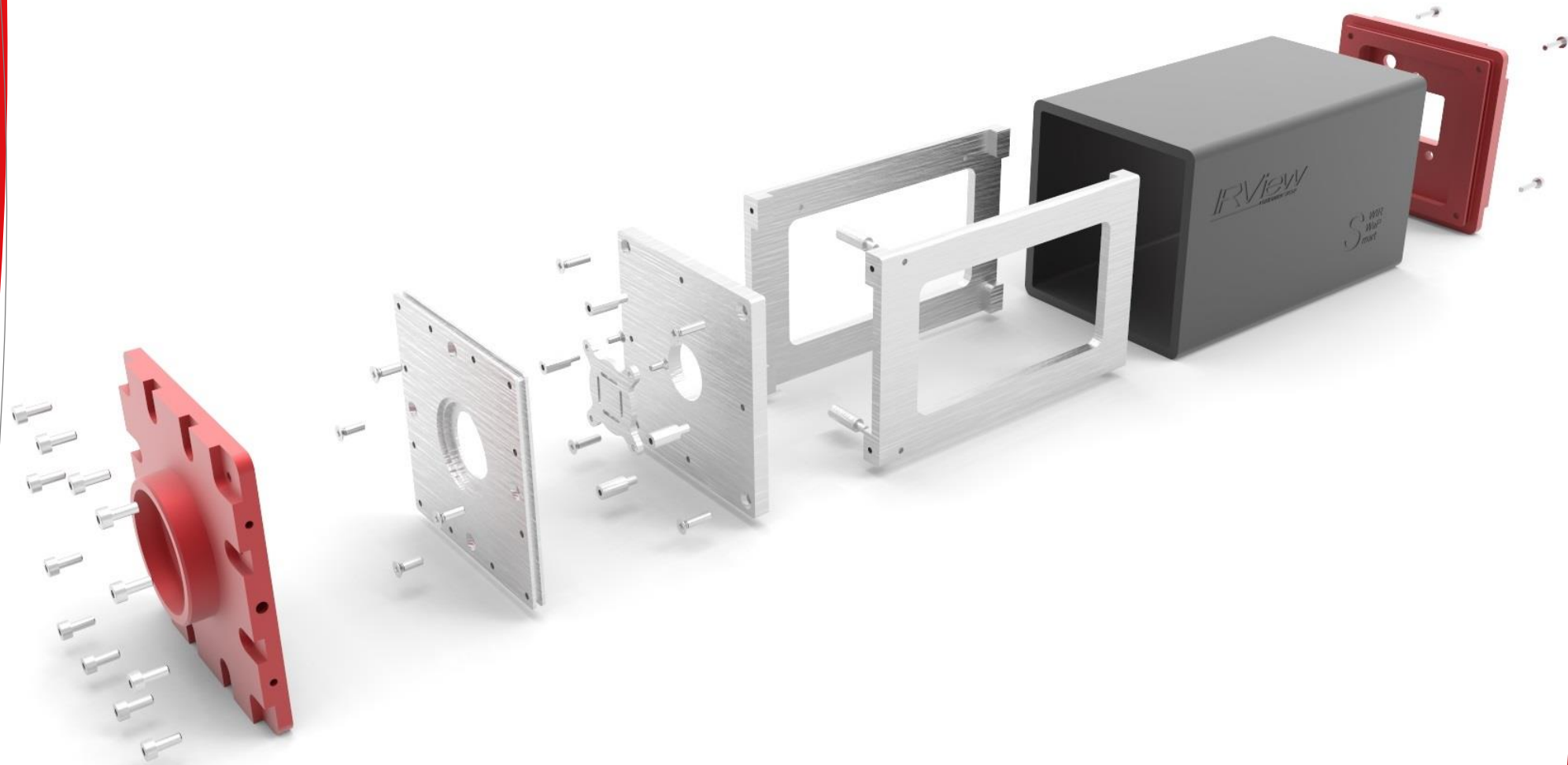
Mechanical Design

STRENGTH AND LIGHTNESS

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OUR QUALITY
ADVICES

MAIN FEATURES

- Robust frame designed to protect the smart core against harsh environments
- Embedded advanced image processing
- Powered by battery to improve autonomy
- 10-bit digital processing
- Selective data storage



DIMENSIONS

The volume of the camera is reduced for ease of integration.

Size [WxHxL]mm: 60 x 60 x 121

Software interface

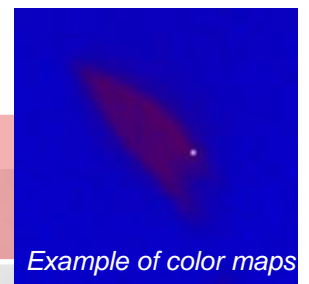
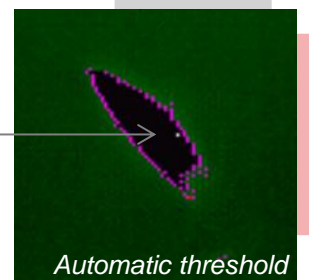
SIMPLY THE ESSENTIEL

The software HMI works like a real time programming interface. HMI proposes to the user basics functions (save, review, snap, configuration), image processing functions and image analysis tools.



IRVIEW cameras include several functions of conventional image processing:

- Double threshold
- Edges detection
- Heat point detection
- Number of objects detection
- Dimensions of detected objects
- Area of detected objects
- Coordinates of detected objects
- Live processing result on the displayed image
- Only image processing data saving
- 4 color maps
- Gamma cursor
- ...

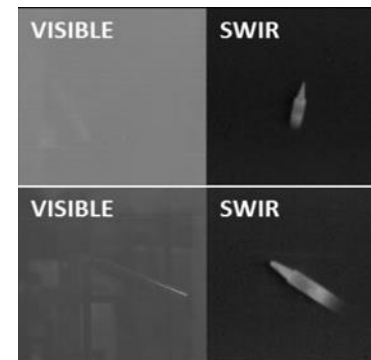


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SWIR applications

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IMAGING BEYOND THE SMOKE

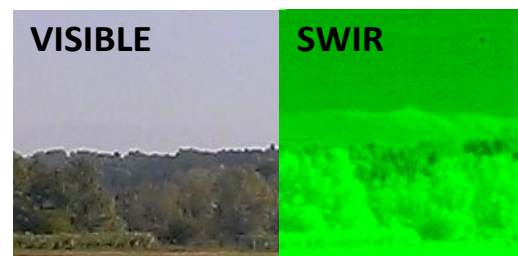


Significant improvement in vision through smoke:

Smoke not disturbs the vision in the infrared and the heat source remains perfectly visible compared to the observation in the visible.

► Vision test of a heat source in the visible range and in the SWIR

VISION THROUGH THE MIST



Significant improvement in vision through the mist:

The mist diffused least SWIR radiation than visible radiation thereby increasing the scope of vision device in degraded visibility conditions

► View of "Mont Ventoux" in the visible and SWIR range (distance: 40km)

HIGH CONTRAST WITH WATER



High absorption of SWIR radiation by water:

Strong contrast between the water and the environment improving detection from shore or the edge of the maritime / inland areas in degraded visual conditions: vegetation, cliff, rocks...

► Differentiation water / vegetation (altitude 700m) (distance: 40km)

Strong contrast between water and surface objects illuminated by ambient SWIR radiation, facilitating their detection / identification in degraded visibility conditions

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