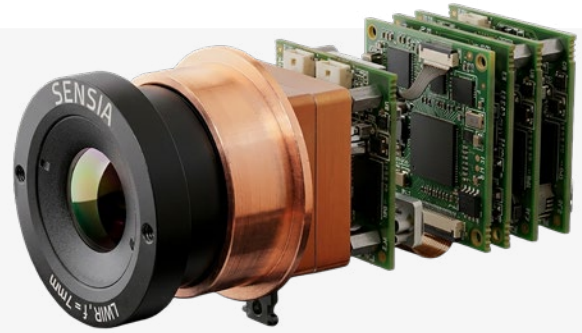


Capella

Cost effective | Seamless integration | High performance

Available in bulk quantities



Capella USB



Capella GigE



IMAGER SPECIFICATIONS	
Detector Type	Uncooled, 640 x 480 px
Pixel Pitch	12 μm
Spectral Region	LWIR, 8 - 14 μm
Thermal Sensitivity (NETD)	< 35 mK @ 25 °C
Frame Rate	60 Hz
Maximum Scene Temperature	120 °C
OPTICAL & IMAGE PROCESSING	
Focal Lengths Available	5.5 mm 7 mm 15 mm
Field of View	80.0° x 60.0° 62.8° x 47.2° 29.3° x 22.0°
Lens Type	Athermalized
Zoom	Digital zoom
Module Operation	TECless Continuous NUC processing Integrated mechanical shutter for periodic FFC
POWER & INTERFACING	
Communication Interfaces	Ethernet USB
Data Protocol (Video & Control)	GigE Embedded over USB3Vision
Input Voltage	PoE @ 48 VDC (PoE+ Capable) USB powered
Power Disipation	2W < 500 mW
Video Output	Raw video NUC correction NUC + BPR Test Pattern
SOFTWARE & FUNCTIONALITIES	
Included Software	Sensia_BridgeUI
SDK Available	SENSIA API
Data Export Formats	.raw, .rlk, .mp4
Visualization Processing	DRC, DEE
MECHANICAL SPECIFICATIONS	
Dimensions (L×W×H)	30 x 30 x 18 mm (without lens, output interface or shutter)
Weight	30 gr. (without lens, output interface or shutter)
Precision Mounting Holes	Four tapped M2x2 mm
ENVIROMENTAL CONDITIONS	
Operating temperature Range (°C)	-20 °C to 85 °C
Storage Temperature Range (°C)	-55 °C to 85 °C

CERTIFICATIONS

Ingress Protection (IP)	IP65 (sealed lens)
RoHS / REACH	2011/65/EU
WEEE	2012/19/EU

FEATURES UNDER DEMAND

Peripheral Interfaces (Under Demand)	Shutter Mototized Lens Range Finder GPS Compass
Shutterless	Available trough calibration
Radiometric Calibration for Temperature Measurement	Accuracy ± 5 °C or 2% WIG
Engineering Support for System Integration	Mechanical, Electronic & Software
Lower Detector Frequency	9 Hz
Housing	Anodized Aluminium, 3D Printed

APPLICATIONS

Primary Industries	Defense, Safety, Unmanned Systems
--------------------	-----------------------------------

All system components are manufactured in Europe, and additional configurations and tailor-made adaptations can be defined according to each customer's operational requirements.

Who are we?

SENSIA is a European OEM manufacturer with a long-standing background in advanced infrared (IR) imaging technology.

Our expertise is rooted in the design and in-house development of high-performance thermal imaging cores, with full control over hardware, firmware, and software.

Capella builds on this technological foundation, translating SENSIA's core imaging expertise into a compact and robust IR camera conceived for integration within complex systems and adaptable to specific customer needs.



+50 countries

with active deployments



+40 partners

in collaboration



+15 years

of experience

Our Advantages

Image stability & responsiveness

Optimized for dynamic airborne operation, delivering stable, low-latency thermal imagery that ensures reliable target detection during flight and fast-changing scenes.

Integrability

Designed for seamless integration of the imaging core into third-party systems through widely adopted image acquisition and camera control standards such as GenICam, reducing integration effort and deployment time.

Customization capability

Modular hardware and software architecture allowing Capella to be tailored to specific OEM projects, specific use cases, and system-level requirements.

Program-oriented industrial supply

Conceived for industrial programs, with in-house controlled production and the ability to align manufacturing planning and delivery schedules with customer program timelines.

Proprietary technology

End-to-end control of hardware, firmware, and software, enabling optimized performance, and platform continuity across program phases.

With full control over its technology, SENSIA delivers controlled and repeatable imaging building blocks for integration into complex and demanding systems.



HEADQUARTERS

SENSIA Solutions S.L.
Calle Margarita Salas,12
28919 Leganés, Madrid, Spain

+34 91 055 92 90
www.sensia-solutions.com
contact@sensia-solutions.com



SENSIA STANDARDS & CERTIFICATIONS

Management System
ISO 9001:2015
ISO 14001:2015
www.tuv.com
ID: 9108637923

