

RADIA Family



ENTRY-LEVEL INFRARED CAMERAS

KEY FEATURES



COOLED AND UNCOOLED SCIENTIFIC THERMAL IMAGING SYSTEMS



COMPREHENSIVE USER-SWAPPABLE LENS OFFERING



TELOPS FACTORY RADIOMETRIC CALIBRATION

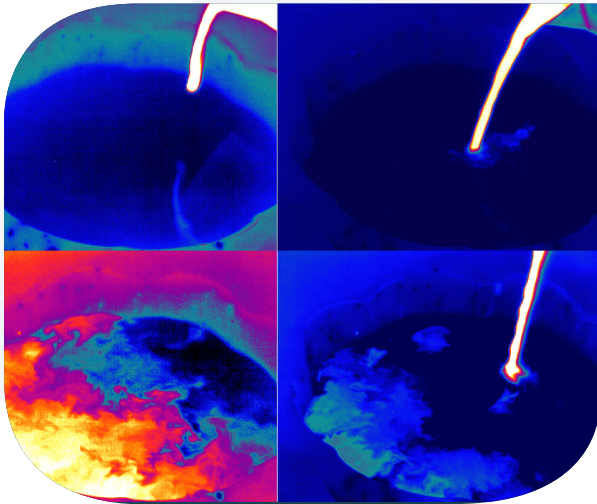


FULL INTEGRATION WITH REVEALIR SCIENTIFIC SOFTWARE FOR CAMERA CONTROL AND DATA ACQUISITION

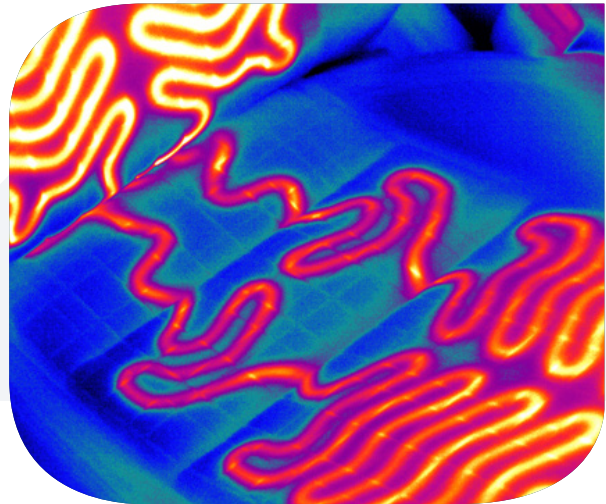
Designed as an accessible entry point into advanced thermal imaging, the Radia Family maintains the high standards of precision and reliability that Telops is known for, ensuring that users of all levels of expertise can achieve professional-grade results.



EXAMPLES OF TYPICAL USES



High sensitivity thermography measurement of fluid mechanics experiment



Automotive systems functionality testing

RADIA SERIES

SPECIFICATIONS	RADIA V60	RADIA M100
Detector Type	Uncooled Microbolometer	Cooled HOT MW SLS
Detector Format	640 x 480 pixels	640 x 512 pixels
Spectral Range	8.0 – 14.0 μm	3.6 – 4.15 μm
Max. Frame Rate (Full Window)	60 Hz	180 Hz
Max. Frame Rate (Subwindow)	-	340 Hz @ 320 x 256 1 000 Hz @ 132 x 4
Typical NETD	50 mK	30 mK
Standard Calibration Ranges	High sensitivity thermography: 10 °C to 40 °C Standard thermography: -20 °C to 120 °C High temperature thermography: 50 °C to 400 °C	Baseline: 0 °C to 850 °C Extended: Up to 2500 °C
Data Output Types	RAW, NUC, RT, IBR, IBI	RAW, NUC, RT, IBR, IBI
Data Transfer	GigE	USB 3.0
Lens Mount	Threaded, user-swappable	Threaded, user-swappable
Included Lens	Standard: 14 mm EFL FOV: 30.7° x 23.2°	Standard: 25 mm EFL FOV: 14.6° x 11.7°
Lens Options	Wide angle: 7.5 mm EFL FOV: 54.2° x 41.9° Telephoto: 25 mm EFL FOV: 17.5° x 13.1°	Wide angle: 13 mm EFL FOV: 27.7° x 22.3° Telephoto: 50 mm EFL FOV: 7.3° x 5.9°
Size	45 x 45 x 75 mm	84 x 94 x 96 mm
Weight	250 g	820 g
Operational Temperature	-40 °C to 70 °C (Thermography: 10 °C to 50 °C)	-20 °C to 55 °C
Storage Temperature	-40 °C to 85 °C	-40 °C to 70 °C

ABOUT US

Telops is a leading supplier of high-performance scientific infrared cameras for the defence, academic, industrial, and environmental research industries. Telops also offers R&D services for optical systems technology development.

Since its beginning in 2000, Telops has distinguished itself with the quality of its technical personnel and its innovative approach to many technological challenges in the optics field.

Today, Telops is part of the Exosens Group, expanding even more our technologies, innovation and capabilities.



FEATURES & OPTIONS

OUR INFRARED CAMERAS' KEY FEATURES & SPECS

All our RADIA infrared cameras offer advanced features to address the most demanding research applications. They include:

- Low SwaP packaging
- Cooled and uncooled detector options
- Full integration into Telops ReveallR scientific acquisition and camera control software
- Factory permanent radiometric calibration
- User-swappable, manual focus lens options

RADIA FAMILY LENS OPTIONS

Camera	Lens	EFL (mm)	FOV (deg)
RADIA V60	Standard	14 mm	30.7 x 23.2
	Wide Angle	7.5 mm	54.2 x 41.9
	Telephoto	25 mm	17.5 x 13.1
RADIA M100	Standard	25 mm	14.6 x 11.7
	Wide Angle	13 mm	27.7 x 22.3
	Telephoto	50 mm	7.3 x 5.9