

RADIA Family



*ENTRY-LEVEL INFRARED
CAMERAS POWERED BY TELOPS*

KEY FEATURES



**COOLED AND UNCOOLED SCIENTIFIC
THERMAL IMAGING SYSTEMS**



**COMPREHENSIVE USER-SWAPPABLE
LENS OFFERING**



**TELOPS FACTORY RADIOMETRIC
CALIBRATION**

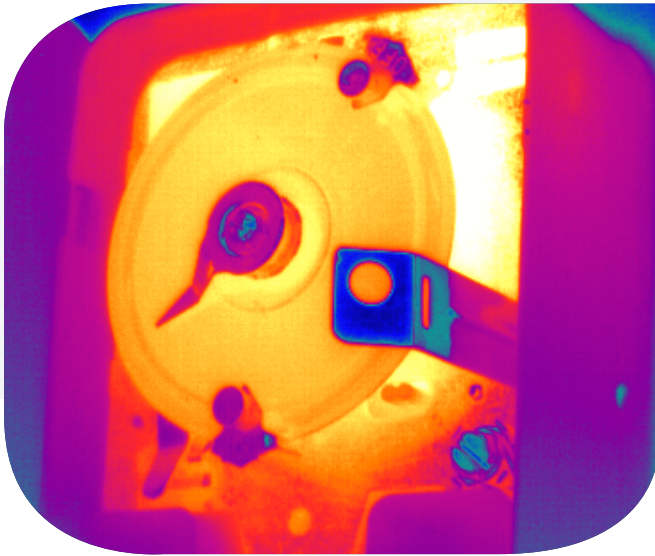


**FULL INTEGRATION WITH REVEALIR
SCIENTIFIC SOFTWARE FOR CAMERA
CONTROL AND DATA ACQUISITION**

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.

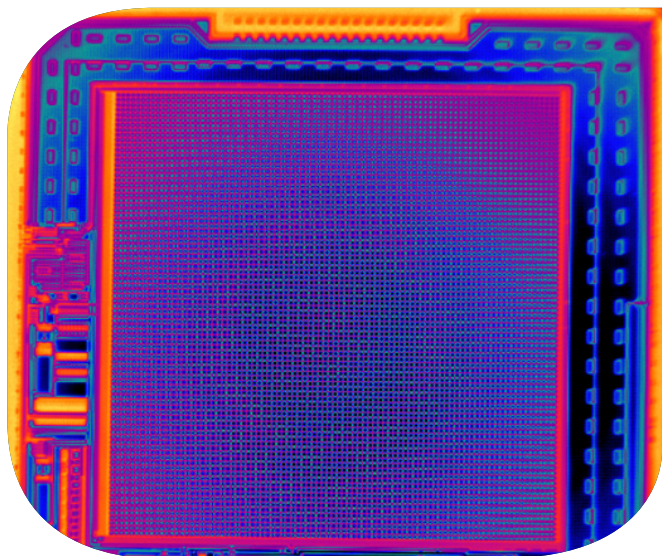


APPLICATIONS

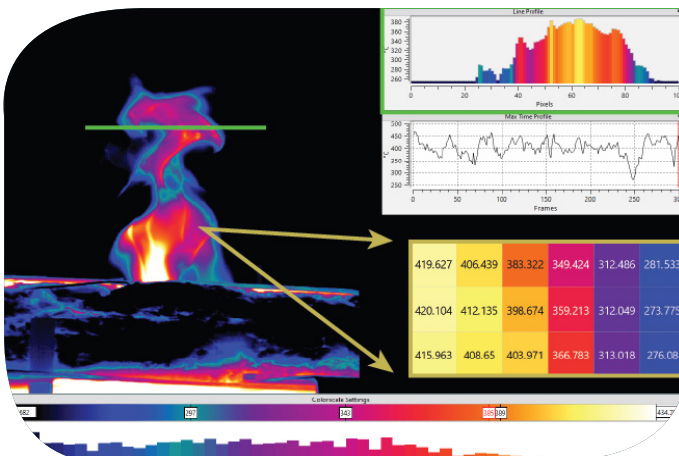


Designed for both industrial and scientific applications, the Radia Family cameras are ideal for measurements in fields such as automotive R&D, train inspection, predictive maintenance, quality control, and fire protection engineering. Delivered with Telops factory radiometric calibration, Radia cameras provide precise thermal imaging measurements across a wide range of conditions.

Versatility is at the core of the Radia Family, thanks to the comprehensive selection of user-swappable lenses. With the Radia Family, high-performance thermal imaging is more accessible than ever, combining a user-focused design and ease of use with the scientific precision Telops is known for.

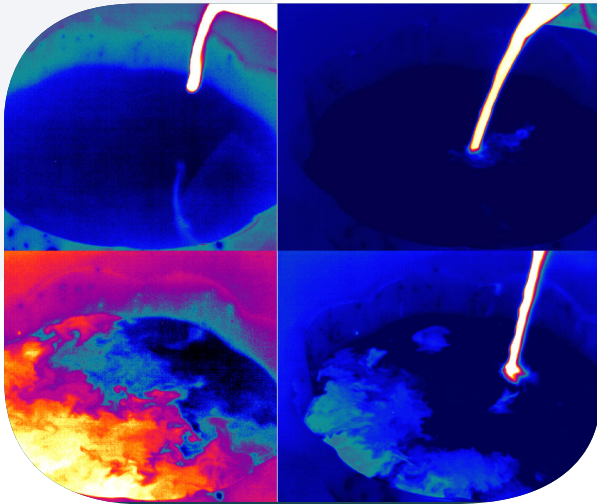


REVEAL IR

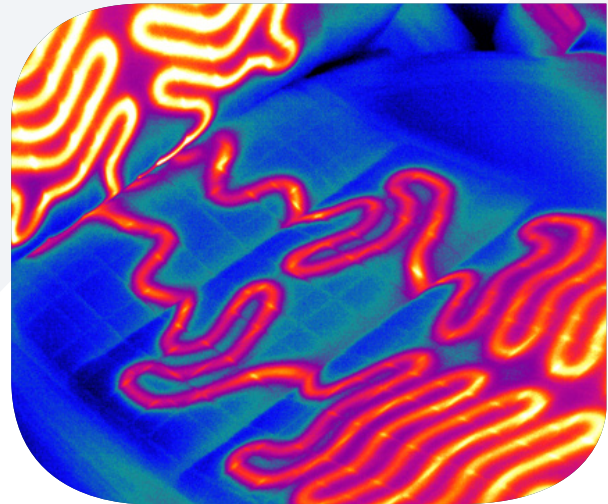


Additionally, Telops' Radia cameras integrate seamlessly with ReveallR software, ensuring intuitive camera control and efficient data acquisition for an accessible thermal imaging experience. As a fully license-free solution, ReveallR allows users to operate their cameras and analyze data effortlessly across multiple computers and locations.

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	45 mK	30 mK
Standard Calibration Ranges	High sensitivity thermography: 10 °C to 40 °C Standard thermography: -20 °C to 120 °C Extended thermography: 50 °C to 400 °C <i>New!</i> High temperature thermography: up to 1100 °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
Lens Options	Standard: 15 mm EFL FOV: 30.7° x 23.2° Wide angle: 7.5 mm EFL FOV: 54.2° x 41.9° Telephoto: 25 mm EFL FOV: 17.5° x 13.1°	Standard: 25 mm EFL FOV: 14.6° x 11.7° 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	-30 °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

Exosens Canada (formerly known as Telops), is a leading supplier of high-performance scientific infrared cameras for the defense, academic, industrial, and environmental research industries. Exosens also offers R&D services for optical systems technology development.

Since its founding in 2000, Telops, now Exosens, has distinguished itself through its highly skilled personnel and innovative approach to the technological challenges in optics and photonics.

Today, its experts and cutting-edge infrared cameras and hyperspectral imagers are internationally recognized.



FEATURES & OPTIONS

OUR INFRARED CAMERAS: KEY FEATURES & SPECIFICATIONS

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 RevealIR 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	15 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

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exosens.com

EXOSENS
REVEAL THE INVISIBLE