

SIRAS™ Professional Drone with Thermal and Visible Camera Payload



SIRAS is an affordable, easy-to-fly, IP54-rated professional drone with an interchangeable payload system for industrial and utilities inspection, firefighting, law enforcement, and search and rescue missions. With front collision avoidance, hot swappable batteries, a 31-minute flight time, and no restrictive geofencing, professional UAV pilots can fly safely when and where the mission demands.

The quick-connect Vue® TV128 payload features patented MSX® technology, adding visible-light outlines to thermal imagery to provide critical information in real time. The 16MP visible camera delivers clear, pinpoint details with a 128x zoom. A 640x512-pixel, radiometric FLIR Boson® provides sharp thermal imagery, 5x digital zoom, accurate temperature-measurement, and compatibility with FLIR Thermal Studio™ analysis software.

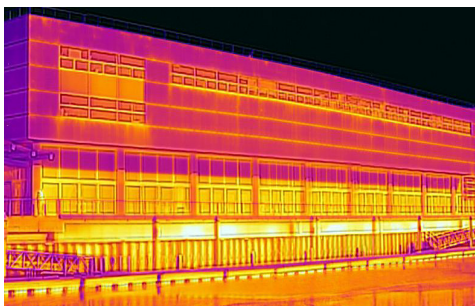
Designed for data security, SIRAS stores imagery on an onboard microSD card and does not include cloud connection capability. To further protect data chain of custody, pilots are not required to create an online profile, increasing ease of use and reducing potential unintended online data access. SIRAS provides best-in-class imagery, mission flexibility, secure data, and compatibility with the leading photogrammetry software enabling the pros to get the job done.



SECURE FLIGHT DATA FROM AN AFFORDABLE AND FLEXIBLE AIRCRAFT

Operate in rugged environments with data security and flexibility for future payload needs

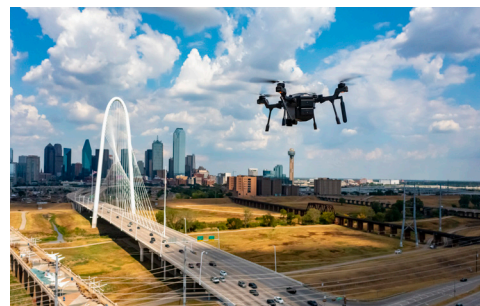
- Data safely stored on an onboard microSD card
- Online Teledyne FLIR account registration not required for flight
- Future proofed with quick-connect, swappable gimbal
- IP-54 rated dust and moisture resistance



SEE AND DO MORE WITH CLEAR THERMAL AND VISIBLE IMAGERY PLUS FLIR MSX*

Real time, high-resolution imagery provides critical data for immediate decision support and post processing

- Resolve critical detail in real time with FLIR MSX visible outlines on thermal images (photo mode only)
- Measure temperature and zoom up to 5x with 640x512 Boson thermal camera
- Pinpoint details with 16MP visible resolution and 128x zoom
- Post process imagery using FLIR Thermal Studio and leading photogrammetry software



FLY MISSIONS SAFELY WHERE AND WHEN NEEDED

Get in the air quickly without geofencing and fly for up to 31 minutes

- Fly within one minute of power on with no geofencing
- Maximize time in the air with 31 min flight time and hot-swappable batteries
- Maintain connection around obstacles with dual band 2.4/5.8 GHz
- Detect objects day and night with radar-based front collision avoidance

For more information visit:
www.flir.com/SIRAS

www.teledyneflir.com

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SPECIFICATIONS

Aircraft	
Takeoff Readiness	1 min after power ON
Geo-Fencing	None
Return To Home	Yes
Disconnect Return To Home	Yes
Hover Accuracy	Vertical: ± 0.5 m (± 1.6 ft) Horizontal: ± 1.5 m (± 5 ft)
Operating Environment	-10 °C to 40 °C (10 °F to 104 °F)
Maximum Ground Speed	18 m/sec (40 mph)
Default Ground Speed	5 m/sec (11.2 mph)
Wind Resistance	10 m/s (22.4 mph)
Maximum Ascent Speed	6 m/sec (13.4 mph)
Maximum Descent Speed	4 m/sec (9mph)
Ingress Protection	IP 54 (aircraft, controller & payload)
Foldable Props	Yes
Night Flight Beacons	Yes (red and white), on/off & blink options
Collision Avoidance	Front Facing Radar: up to 30 m, when flying <5 m/sec Ground detection via underside sensors
Imaging & Optical	
EO Camera Resolution	16MP with 20MP mapping mode, 128x zoom
EO Camera Optics	EFL 4.8 mm, 67° HFOV, F/# 1/2.3
IR Camera Resolution	640 x 512, radiometric, 5x zoom
IR Camera Optics	EFL 13.6mm, 32° HFOV, F/# 1.0
Radiometric Features	Spot meter, Isotherms, Region of Interest (ROI)
IR Video Frame Rate	60 Hz
FLIR MSX	Yes, photo mode only
Gimbal	Maximum Control Speed: 120°/sec Control Range: -90° to 15° Control Accuracy: $\pm 0.02^\circ$

Remote Controller & Transmission	
Operating Frequency	Dual Band: 2.4 GHz / 5.8 GHz
Operating Distance	9 km (6 miles) - zero interference and no obstructions 3.2 km (2 miles) is typical limit in most settings
Control Layout	Mode 2 (default)
Display Latency	<1 sec
Transmission Quality	1080P, 30 fps
Display Brightness	1,000 lumens
Built-In Battery	210 min
Battery	
25% Battery Warning	Yes, visual and audio signal
Return to Home (RTH)	Yes, 10% Battery
Hot Swappable Batteries	Yes
Maximum Flight Time	31 min (rated)
Maximum Hovering Time	28 min (rated)
Battery Power	6,000 mAh
Type	Li-Ion 4S
Charging Temperature Range	5 °C to 50 °C (41 °F to 122 °F)
Storage Temperature & Humidity	Room temperature and <70% is recommended
Max Charging Current	6 A
Charging Time (20%-90%)	<45 min
Storage	
SD Storage	Formatted 64 GB micro SD (provided with aircraft)
Internal Storage	1 GB

ACCESSORIES

Part Number	
4243187	Aircraft Battery Charger
4243188	Aircraft Batteries
4245519	Foldable Propellers (Clockwise)
4245520	Foldable Propellers (Counter Clockwise)

Specifications are subject to change without notice.
For the most up-to-date specs, go to www.flir.com/SIRAS



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