

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 provides visible and thermal imagery 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 zoom, and accurate temperature measurement. Use patented MSX® to further improve thermal imagery and improve situational awareness.

Designed for data security, SIRAS stores imagery on an onboard microSD card and does not include cloud connection capability. 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 thermal imagery, mission flexibility, and secure data, 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
- No online account 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 + FLIR MSX

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

- Measure temperature from the air
- Zoom up to 5x with 640x512 FLIR Boson thermal camera
- Pinpoint details with 16MP visible resolution and 128x zoom
- Compatible with AirData™ UAV and DroneLogbook™ software



FLY MISSIONS SAFELY WHERE AND WHEN NEEDED

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

- Fly within two minutes of power on with no geofencing
- Maximize time in the air with 31-minute 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

SPECIFICATIONS

Aircraft	
Takeoff Readiness	2 mins 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
Weight	3.1 kg (6.8 lb) with 2 batteries
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
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, 25% 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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For more information visit:
www.flir.com/SIRAS

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