TELEDYNE FLIR

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.

IP54 RATED	31-MIN FLIGHT TIME	HOT SWAP POWER	16 MP W/ 128x ZOOM 640 X 512 THERMAL RADIOMETRIC

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 ⁰C to 40 ⁰C (10 ⁰F to 104 ⁰F)
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 Decent Speed	4 m/sec (9mph)
Ingress Protection	IP 54
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
IR Camera Resolution	640 x 512, radiometric, 5x zoom
Radiometric Features	Spot meter, Isotherms, Region of Interest (ROI)
IR Video Frame Rate	60 Hz
FLIR MSX	Yes
Gimbal	Maximum Control Speed: 120⁰/sec Control Range: -90⁰ to 15⁰ Control Accuracy: ± 0.02⁰

Remote Controller & Transmission

Operating Frequency	Dual Ban: 2.4 GHz / 5.8 GHz
Operating Distance	9 km (6 miles)
Layout	Mode 2
Display Latency	<1 sec
Transmission Quality	1080P, 30 fps
Display Brightness	1,000 lumens
Built-In Battery	180 min

Battery

20% 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	LIPO 4S
Charging Temperature Range	5 ⁰C to 50 ⁰C (41 ⁰F to 122 ⁰F)
Storage Temperature & Humidity	Room temperature and <70% is recommended
Max Charging Current	6 A
Charging Time	45 min

Storage

SD Storage	Formatted 64 GB micro SD (provided with aircraft)
Internal Storage	1 GB

The information contained in this page pertains to products that may be subject to the International Traffic in Arms Regulations (ITAR) (22 C.F.R. Sections 120-130) or the Export Administration Regulations (EAR) (15 C.F.R. Sections 730-774) depending upon specifications for the final product; jurisdiction and classification will be provided upon request.

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NDAA COMPLAINT

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