^{FLIR}Duo[™]Pro R

High-Resolution Thermal and Visible-Light Imager for sUAS

The new FLIR Duo[™] Pro R transforms any airframe into an industrial tool, expanding its value and uses. It is a powerful dual-sensor thermal and visible-light imager. designed for a wide range of high-performance commercial, industrial, and public safety drone applications. Featuring thermal and a high-definition 4K color video camera in a single integrated package, Duo Pro R gives professional operators the ability to capture actionable thermal and visible data in a single flight.

Beyond its class-leading imaging performance, Duo Pro R includes an on-board sensor suite to create a self-contained airborne mapping package. These fully integrated sensors provide an on-board source for all the vital data needed to create accurate maps and 3D models from an airborne platform. By geo-tagging each captured image within the camera Duo Pro R eliminates the complexity, data loss, and latency that can come from integrating to external flight control systems.

High resolution thermal and 4K visible-light imaging and recording in a rugged, compact package

Capture video & still imagery in both thermal and video simultaneously for improved understanding of every scene

- Airborne dual sensor thermal and video imaging and recording in a single component
- Wide 5-26 VDC power input range
- MSX blending for greater image detail in daylight conditions
- Live analog or digital (micro-HDMI) video output

Fully-integrated thermal and visible airborne mapping system

Get accurate metadata, including GPS, temperature, and altitude, for every image

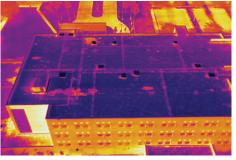
- On-board GPS receiver, IMU, temperature, humidity, and altitude sensors
- Tightly coupled integration ensures the most accurate image geo-tagging possible
- Convenient integration to MAVLink-compatible flight controllers

Flexible, powerful camera control and configuration options

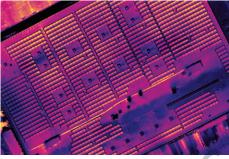
Multiple thermal resolution and lens options give you the optimal configuration for your missions

- Control camera functions with PWM inputs imagery color palettes, recording start/stop, still image capture, or video streaming switch (thermal, visible, MSX, PIP)
- Configure your camera's recording and control settings over Bluetooth with the FLIR UAS mobile app
- Field-upgradeability make sure you'll always have the latest features





Find problems with buildings like water and insulation damage in roofs



Use the on-board sensor suite to make more accurate orthomosaics of large installations like this solar farm



Duo Pro R is an invaluable tool for fire fighters and other first responders.



Specifications

Uncooled VOx M	
UNCOULED VOX IVI	icrobolometer
7.5 – 13.5 µm	
< 50 mK	
640 × 512	336 x 256
13 mm: 45° x 37°	9 mm: 35° x 27°
19 mm: 32° x 26°	13 mm: 25° x 19°
25 mm: 25° x 20°	19 mm: 17° x 13°
30 Hz	
4000 × 3	3000
56° × 45°	56° x 45°
+/- 5 C or 5% of readings in t +/- 20 C or 20% of readings in	
85 × 81.3 × 85 × 86.5 × 68.5 mm (6	
325 g 375 g (640-25 mm only)	325 g
ntrols	
IR-only, Vis-only, Picture	e-in-Picture (IR in Vis)
Yes	
Yes – Adjustable in App and via PWM	
Yes (GPS, GLONASS)	
Accelerometer, Gyroscope, N	Aagnetometer, Barometer
Power in, USB N	Aass Storage
Power in, Analog Video	Out, PWM, MAVLink
Digital Vid	eo Out
5.5 - 26.0 VDC (10	D-pin JST Port)
5.0 VDC (US	B-C Port)
10 W	10 W
Yes - PWM (3 char	nnels), MAVLink
Yes	;
1080p60, 1080p	
1/4"-20 TPI Tripod Mounts	(qty 2, bottom surface)
-20°C to -	+50°C
-20°C to +60°C	
+38,000) feet
en	
	< 50 r 640 × 512 13 mm: 45° × 37° 19 mm: 32° × 26° 25 mm: 25° × 20° 30 F 4000 × 3 56° × 45° +/- 5 C or 5% of readings in t +/- 20 C or 20% of readings in t +/- 20 C or 20% of readings in t 325 g 375 g (640-25 mm only) ntrols IR-only, Vis-only, Picture Yes Yes – Adjustable in A Yes (GPS, Gi Accelerometer, Gyroscope, N Power in, USB N 2.5 - 26.0 VDC (US 10 W Yes - PWIM (3 char Yes 1080p60, 1080 1/4"-20 TPI Tripod Mounts -20°C to -20°C to

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