

THERMAL FIREFIGHTING

Handheld - Aerial - Fixed Mounted

FLIR THERMAL IMAGING CAMERAS

GET THE MOST COMPREHENSIVE VIEW FROM INSIDE, OUTSIDE, AND ABOVE THE SCENE

Visibility is a chief concern for maintaining firefighter safety, whether you're in the thick of fighting a fire or coordinating resources as the incident commander. Thanks to the FLIR lineup of cost-effective handhelds, and mounted or UAS aerial thermal imaging options, fire departments can now afford to outfit more firefighters with TICs and monitor all angles of the scene.

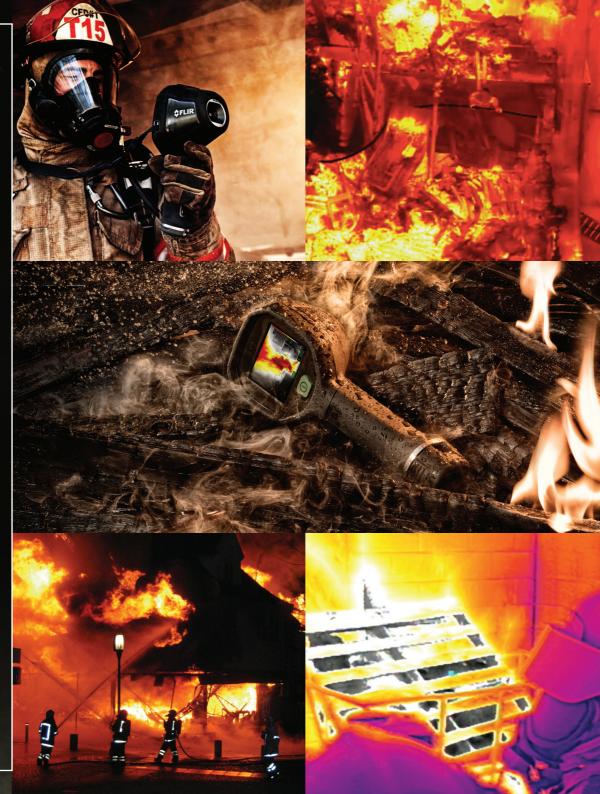
This is about more than seeing through a smoke-filled room: viewing the entire scene from multiple viewpoints helps incident commanders make better decisions. And, since FLIR TICs clearly visualize heat sources, they're also an important tool for hazmat and search-and-rescue operations.

With FLIR handheld, drone-mounted, and truck-mounted TICs, you get:

- A Clear View: Navigate better thanks to the bright LCD and an image frequency that keeps up with the action.
- Ultra-Sharp Thermals: Extra image detail for easier visual orientation with FLIR MSX^{\circledast} or FSX^{\circledast} enhancement.
- **Early Warning:** Truck- and ladder-mounted cameras allow you to detect fire intensity from a safe distance.
- Better View, Better Planning: Visualizing an overview of the entire scene from a drone-mounted TIC will help you better coordinate resources.
- **Rugged Reliability:** FLIR designed its line of TICs to withstand the toughest firefighting conditions whether it's a two-meter drop, heavy water spray, or blazing-hot temperatures.



— Thermal Coverage From The Ground Up —







K-SERIES

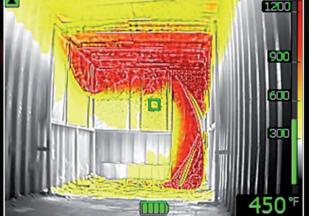
AFFORDABLE, DEPENDABLE, ESSENTIAL

Just like your air pack, radio, and protective gear, FLIR TICs are essential tools for firefighting. With a TIC in hand, you can attack fires more strategically, maneuver through smoke more easily, and save lives. And with a range of technologies and prices from the FLIR K1 Situational Awareness Camera through the NFPA®-compliant FLIR K65, it's easier than ever for departments to afford to issue a TIC to every firefighter.

FSX® - FLEXIBLE SCENE ENHANCEMENT*

Digital image processing enhances the thermal image in the camera, producing an ultra-sharp view with more scene detail. FSX makes it easier for firefighters to find their way in smoke-filled rooms, even in scenes with extreme temperature dynamics.

WITH FSX





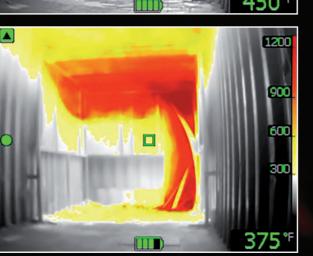


IMAGE MODES

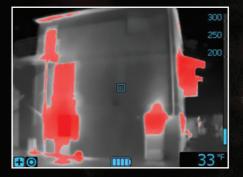
TI BASIC

For initial fire attack and rescue operations; colors represent temperature.



HEAT DETECTION

Used for finding hotspots. The hottest 20% of the scene is colored red.



SEARCH & RESCUE

For use with lower temperature situations, such as initial rescue efforts after traffic accidents, searches in wooded areas, etc.



BLACK & WHITE

Same representations of temperature as the TI Basic mode, but in grayscale.



FIRE

For scenes with higher background temps where open flames are present, particularly in structural fires.



COLD DETECTION*

Colorizes coldest 20% of the scene to aid in finding drafts and determining air flows. *K2 only



ADVANCED TECHNOLOGY WITHOUT COMPROMISE

The FLIR Kx5-Series with FSX[®] displays detail-rich imagery on a large, bright 4-inch LCD to help you navigate the smokiest environments, instantly distinguish people and room features, and make critical decisions.



FLIR K45 240 × 180 pixel detector

RUGGED AND RELIABLE

The K45 meets the challenges of intense fire scenes with a drop-resistant, water-resistant design made to operate in 500°F heat for up to five minutes. This affordable TIC saves thermal JPEGs you can play back in the camera or download for later review.



K55

HIGH-PERFORMANCE

The K55 produces uncompromising, detail-rich imagery you can view in real-time, save as JPEGs, or record as video. Choose one of five image modes designed to help you better navigate heavy smoke, find hidden hot spots, or search for potential victims.

FULL PROTECTION:

- FLIR'S 2-5-10 Warranty
- 2 Years Battery
- 5 Years Parts and Labor
- 10 Years Detector





FLIR K65 320 × 240 pixel detector

NFPA 1801 COMPLIANT*

With fully-sealed connectors and a secured battery, the K65 is designed to be fully compliant with the NFPA 1801-2018 Standard for Thermal Imagers covering usability, image quality, and durability.

* National Fire Protection Association and NFPA are registered trademarks of the National Fire Protection Association. The NFPA does not test, certify, or approve any products

POWERFUL, AFFORDABLE TICS

These low-cost, easy-to-use TICs offer glove-friendly controls for quick operation, but are also enhanced with premium features that help improve situational awareness and give firefighters a greater sense of confidence and safety.



FLIR K33 240 × 180 pixel detector

FIREPOWER SIMPLIFIED

Start the K33 in TI-Basic mode with just a press of the button, and freeze the image on-screen with a trigger-pull. This affordable handheld produces crisp imagery with FSX enhancement, helping you navigate fire scenes safely.



FLIR K53 320 × 240 pixel detector

PREMIUM FEATURES, LOWER PRICE

The K53 combines simplified, one-button controls with advanced features such as FSX enhancement and smooth, 60 Hz image capture to provide reliable vision at an affordable price.



FLIR Truck Charger

POWER ON THE GO

FLIR in-truck chargers help ensure your Kxx Series TIC and Spare Battery are always powered up and ready to go.

RELIABLE SITUATIONAL AWARENESS

FLIR K1 compact thermal cameras make 360° assessment possible in complete darkness and through smoke. Quickly detect and document key findings with internal recording of up to 10,000 thermal/visible image sets.



FLIR'S 2-10 Warranty

10 Years Detector

FLIR K1 160 × 120 pixel detector

POCKET-PORTABLE AND RUGGED

The FLIR K1 helps you quickly assess the scene without losing line of sight and then document key findings with internal recording of up to 10,000 thermal/visual image sets. Designed to withstand a two-meter drop onto concrete and water resistant (IP67), the K1 offers up to 5.5 hours of radiometric thermal imaging.



VISION FOR EVERY FIREFIGHTER

FLIR is on a mission to make TICs standard-issue equipment for every firefighter. With modern fires progressing faster than ever, equipping each crew member with a TIC could be the difference between disorientation and life-saving vision.



K2 Mount



- 2 Years Battery
- 5 Years Parts and Labor
- 10 Years Detector



FLIR K2 160 × 120 pixel detector

EASY TO HANDLE

The K2 offers a glove-friendly, one-button control for quick access to the simplified interface, so you can focus on the challenging, fast-changing job at hand. Lightweight but rugged, the K2 can withstands a twometer drop onto concrete, is water resistant (IP67) and is fully operational up to 500°F (three minutes).



GET A STRATEGIC VIEW OF THE SCENE

Steer clear of danger and assess the scene from a new vantage point with the FLIR KF6 – the industry's first thermal imager built specifically for aerial apparatus applications. This specially designed camera feeds thermal video from aerial buckets or ladders for a strategic angle of rooftops, upper stories, and tall structures.

Producing vivid thermal imagery with fine detail, the FLIR KF6 makes it easier to target the hottest areas and identify structures through thick smoke or total darkness – for better situational awareness and tactical firefighting efforts.

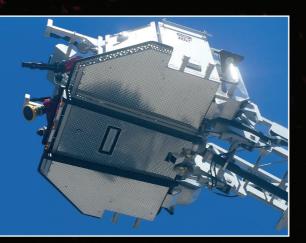


Securely attaches to aerial

platforms or to the end of straight sticks.

OVERHEAD ADVANTAGE

High-angle thermal view provides situational awareness and helps your team plan effective targeting.







FLIR KF6 Mountable Vision

HIGH-RES FOR CRITICAL DETAIL

High-resolution 640×480 thermal imagery allows firefighters to evaluate fires from a distance evaluate overall scene safety, help identify where resources are needed, target the seed of the fire for the aerial master stream, liquid level check when hazardous materials are present. Also offers FSX® digital enhancement for easy identification of buildings and locations.

SIMPLE TO VIEW AND CONTROL

View thermal video from inside the truck, at ground level, or atop the aerial platform. The KF6 connects with just one cable to your in-truck LCD or to a monitor positioned outside - or connects over Wi-Fi to wireless-enabled systems.

MOUNTS WITH FOUR BOLTS

Easy to mount and connect to existing systems atop platforms, under platforms, to ladders and elevated waterways.

CDMQ RUGGEDNESS

FLIR built its apparatus-mounted cameras to meet the toughest requirement: the Commercially Developed, Military Qualified (CDMQ) standards.

FULL PROTECTION:

FLIR'S 2-5-10 Warranty* 5 Years Parts and Labor 10 Years Detector

*KF6 does not have a battery and therefore does not qualify for 2 Years Battery protection







QUICK TO MOUNT, EASY TO FLY

FLIR AERIAL FIRST RESPONDER KITS

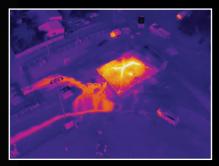
FLIR's Aerial Thermal Imaging Kits combine the easy-to-fly M200 / M210 V2 drone from DJI with the Zenmuse XT2 thermal imaging camera. These drone-mounted cameras have the resolution and optics you need to gain a better understanding of a fire scene, assess a hazardous spill, or aid in a search-and-rescue operation. By combining the flight stability and powerful video transmission system of a DJI drone with FLIR thermal technology, these kits provide the ultimate solution for reliable, rapidly-deployable aerial thermal imaging.

UNOBSTRUCTED VIEWS

SAFER ASSESSMENTS

of attack

Scan rooftops and tall buildings from the best vantage point.



WIDE AREA COVERAGE Reach the unreachable with the M210's extended flight times.





View the enite scene safely before making your plan

SEARCH & RESCUE Thermal imaging and visual zoom option help you find missing people faster.





M200 or M210 V2

Multiple Payload Configurations

MISSION-READY

Be ready to launch within minutes! These kits combine the DJI M200 or M210 V2 airframe with the Zenmuse XT2 thermal payload, providing everything needed to mount the camera and fly. The DJI drone comes with the powerful OcuSync 2.0 system for video transmission, camera control, and digital recording.

FLIR MULTI-SPECTRAL DYNAMIC IMAGING (MSX®)

This kit features both a visible and infrared camera with MSX technology. MSX embosses visible image edge details onto thermal images to enhance perspective and safety.

CLEAR, COMPREHENSIVE VIEW

FLIR Aerial Thermal Imaging Kits offer cameras with optimized resolution and wide-angle optics, ensuring you'll have the right combination of situational awareness, magnification, and area coverage to monitor any scene.

VITAL FOR DAY OR NIGHT

The Zenmuse XT2 thermal camera can see through smoke, allowing incident commanders to easily monitor personnel at large scenes or check roof conditions while firefighters are inside. Because it visualizes heat and features a 12 MP visual camera, Zenmuse XT2 is also a must-have for search and rescue operations any time of day.

Specifications

MODEL	K1	K2	K33	K45	K53	K55	
IR resolution	160 × 120 pixels	160 × 120 pixels	240 × 180 pixels	240 × 180 pixels			
Thermal sensitivity	<100 mK	<100 mK @ 30°C (86°F)	<40 mK @ 30°C (86°F)	<40 mK @ 30°C (86°F)			
Image or contrast optimization	Digital image enhancement with MSX®	Digital image enhancement with MSX®	Digital image enhancement with FSX®	Digital image enhancement with FSX®	Digital image enhancement with FSX®	Digital	
Field of view (FOV)	57° × 44°	47° × 35°	51° × 38°	51° × 38°	51° × 38°	51° × 31	
Image storage	Yes	No	No	Up to 200 JPEG images on internal flash memory	Up to 200 JPEG images on internal flash memory (co-dependent on the number of saved video clips)	Up to 2 memory saved v	
Video storage	No	No	No	No	200 files in total, with a maximum duration of 5 min per video clip	200 file of 5 mir	
In-camera video recording	No	No	No	No	MPEG-4 to internal flash memory	MPEG-	
IMAGE PRESENTATION							
Display	Backlit 2.4 in, 320 × 240 pixel LCD	Backlit 3 in, 320 × 240 pixel LCD			Backlit 4 in, 320 × 240 pixel LCD		
IR image modes	T1 Basic (White hot with isotherm), White hot, Iron	Basic firefighting mode, Cold detection mode, Building analysis mode, Black-and- white firefighting mode, Fire mode, Search and rescue mode, Heat detection mode	TI Basic firefighting mode	TI Basic firefighting mode, Black-and- white firefighting mode, Fire mode, Search and rescue mode, Heat detection mode Thumbnail gallery	TI Basic firefighting mode	TI Basic firefight rescue Thumbr	
Auto range	No	Yes, Non-selectable			Yes, selectable on/off using FLIR Tools		
MEASUREMENT		· · · · · · · · · · · · · · · · · · ·			, in the second s		
Object temperature range	High Gain Mode: -10°C to 140°C (14°F to 284°F) Low Gain Mode: -10°C to 400°C (14°F to 752°F) (at room temperature)	-20°C to 150°C (-4°F to 302°F) 0°C to 500°C (32°F to 932°F)	–20°C to 150°C (-4°F to 302°F) 0°C to 650°C (32°F to 1,202°F)				
Accuracy	Accuracy for ambient temperatures of 10°C to 35°C (50°F to 95°F): High Gain Mode: ±5°C or ±5% Low Gain Mode: ±10°C or ±10%		±4°C (±7.2°F) or ±4% of reading for ambient temperature, 10°C to 35°C (50°F to 95°F)				
Spotmeter	Center spot	1 spotmeter	1 spotmeter	1 spotmeter			
SAFETY TESTING							
NFPA 1801:2018 Compliant	No	No	No	No	No	No	
POWER SYSTEM							
Battery type	Li-ion, 3.7 V rechargeable	Li Ion, > 4 hours operating time	Li lon, > 4 hours operating time				
Charging time	4 hours to 90%, 6 hours to 100%	2.5 h to 90% capacity			2 hours to 85% capacity, status indicated by LEE	Ds	
ENVIRONMENTAL DATA							
Operating temperature range		1000 . 5500 (1105 . 10105)	−20°C to 85°C (−4°F to 185°F) 150°C (302°F): 15 min 260°C (500°F): 5 min				
	10°C to 90°C (14°F to 194°F)— up to 10 min, flashlight on -10°C to 115°C (14°F to 239°F)— up to 2 min, flashlight on	–10°C to 55°C (14°F to 131°F) 85°C (185°F): 15 min 150°C (302°F): 10 min 260°C (500°F): 3 min			150°C (302°F): 15 min		
Storage temperature range	min, flashlight on -10°C to 115°C (14°F to	85°C (185°F): 15 min 150°C (302°F): 10 min			150°C (302°F): 15 min		
Storage temperature range Humidity (operating and storage/relative)	min, flashlight on -10°C to 115°C (14°F to 239°F)— up to 2 min, flashlight on	85°C (185°F): 15 min 150°C (302°F): 10 min 260°C (500°F): 3 min	IEC 60068-2-30/24 h 95	% relative humidity 25°C to 40°C (77°F to 104°F) / :	150°C (302°F): 15 min 260°C (500°F): 5 min –40°C to 85°C (-40°F to 185°F)	°F to 104°F	
· ·	min, flashlight on -10°C to 115°C (14°F to 239°F)— up to 2 min, flashlight on -30°C to 55°C (-22°F to 131°F) 0°C to 37°C (32°F to 99°F) 37°C to 45°C (99°F to 113°F)	85°C (185°F): 15 min 150°C (302°F): 10 min 260°C (500°F): 3 min	IEC 60068-2-30/24 h 95'		150°C (302°F): 15 min 260°C (500°F): 5 min –40°C to 85°C (-40°F to 185°F)		
Humidity (operating and storage/relative)	min, flashlight on -10°C to 115°C (14°F to 239°F)— up to 2 min, flashlight on -30°C to 55°C (-22°F to 131°F) 0°C to 37°C (32°F to 99°F) 37°C to 45°C (99°F to 113°F) 45°C to 55°C (113°F to 131°F) IP67 (IEC 60529), 25 g (IEC 60068-2-27), 2 g	85°C (185°F): 15 min 150°C (302°F): 10 min 260°C (500°F): 3 min -40°C to 70°C (-40°F to 158°F) IP 67 (IEC 60529), 25 g (IEC 60068-2-27), 2 g (IEC 60068-2-6), 2.0 m / 6.6 ft, on concrete floor (IEC 60068-2-31)	IEC 60068-2-30/24 h 95		150°C (302°F): 15 min 260°C (500°F): 5 min –40°C to 85°C (-40°F to 185°F) 2 cycles 95% relative humidity 25°C to 40°C (77 068-2-27), 2 g (IEC 60068-2-6), 2.0 m / 6.6 ft, on	n concrete fl	
Humidity (operating and storage/relative) Encapsulation, shock, vibration, and drop PHYSICAL DATA Camera weight, incl. battery	min, flashlight on -10°C to 115°C (14°F to 239°F)— up to 2 min, flashlight on -30°C to 55°C (-22°F to 131°F) 0°C to 37°C (32°F to 99°F) 37°C to 45°C (99°F to 113°F) 45°C to 55°C (113°F to 131°F) IP67 (IEC 60529), 25 g (IEC 60068-2-27), 2 g	85°C (185°F): 15 min 150°C (302°F): 10 min 260°C (500°F): 3 min -40°C to 70°C (-40°F to 158°F) IP 67 (IEC 60529), 25 g (IEC 60068-2-27), 2 g (IEC 60068-2-6), 2.0 m / 6.6 ft, on concrete floor (IEC 60068-2-31) 0.7 kg (1.54 lb)	IEC 60068-2-30/24 h 95 IEC 60068-2-30/24 h 95 III ±0.05 kg (2.4 ±0.1lb)		150°C (302°F): 15 min 260°C (500°F): 5 min -40°C to 85°C (-40°F to 185°F) 2 cycles 95% relative humidity 25°C to 40°C (77 068-2-27), 2 g (IEC 60068-2-6), 2.0 m / 6.6 ft, on 1.1 ±0.05 k	n concrete fl kg (2.4 ±0.11	
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Humidity (operating and storage/relative) Encapsulation, shock, vibration, and drop PHYSICAL DATA Camera weight, incl. battery Camera size (L × W × H) PACKAGING Contents Encapsulation	min, flashlight on -10°C to 115°C (14°F to 239°F)— up to 2 min, flashlight on -30°C to 55°C (-22°F to 131°F) 0°C to 37°C (32°F to 99°F) 37°C to 45°C (99°F to 113°F) 45°C to 55°C (.113°F to 131°F) IP67 (IEC 60529), 25 g (IEC 60068-2-27), 2 g (IEC 60068-2-6), 2 m (6.6 ft) 0.410 kg (0.904 lb) 208 × 85 × 65 mm (8.19 × 3.3 × 2.6 in) K1 infrared camera, printed documentation, wrist strap lanyard,	85°C (185°F): 15 min 150°C (302°F): 10 min 260°C (500°F): 3 min -40°C to 70°C (-40°F to 158°F) IP 67 (IEC 60529). 25 g (IEC 60068-2-27), 2 g (IEC 60068-2-6), 2.0 m / 6.6 ft, on concrete floor (IEC 60068-2-31) 0.7 kg (1.54 lb) 250 × 105 × 90 mm (9.8 × 4.1 × 3.5 in) Infrared camera, battery (×2), battery charger, lanyard strap, power supply,	1.1 ±0.05 kg (2.4 ±0.1lb) 120 × 125 × 280 mm (4.7 x 4.9 x 11 in)	IP 67 (IEC 60529), 25 g (IEC 60	150°C (302°F): 15 min 260°C (500°F): 5 min -40°C to 85°C (-40°F to 185°F) 2 cycles 95% relative humidity 25°C to 40°C (77 068-2-27), 2 g (IEC 60068-2-6), 2.0 m / 6.6 ft, on 1.1 ±0.05 k 120 × 125 × 280 n	n concrete fl kg (2.4 ±0.11 nm (4.7 x 4.	
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	K65		KF6
320 × 240 pixels		640 × 480 pixels	
<30 mK @ 30°C (86°F)			<100 mK @f/1.4
hage enhancement with FSX®	Digital image enhancement with FSX®		Digital image enhancement with FSX®
	51° × 38°		69° × 56°
) JPEG images on internal flash	Up to 200 JPEG images on internal flash		No
co-dependent on the number of	memory (co-dependent on the number of		
leo clips)	saved video clips)		
in total, with a maximum duration	200 files in total, with a maximum duration		No
per video clip	of 5 min per video clip		N-
to internal flash memory	MPEG-4 to internal flash memory		No
			N / A
irefighting mode, Black-and-white 1g mode, Fire mode, Search and ode, Heat detection mode il gallery	TI Basic NFPA firefighting mode, Black-and- white firefighting mode, Fire mode, Search and rescue mode, Heat detection mode Thumbnail gallery		TI Basic firefighting mode
			Yes
			High-gain range: -25°C to 135°C (-13°F to 275°F) Low-gain range: 0°C to 550°C (32°F to 1022°F)
			±10°C (±18°F) or ±10% in high gain range
			1
	Yes		No
		Γ	-32°C to 65°C (-26°F to 149°F)
			-40°C to 70°C (-40°F to 158°F)
non-condensing			IEC 600 68-2-30, 24 hours, 95% relative
			humidity, 25°C to 40°C (77°F to 104°F),
			two cycles
or (IEC 60068-2-31)			IP 67 (IEC 605 29), IEC 600 68-2-27, 25 g
			peak half sine wave, IEC 600 68-2-6, 0.15 mm 10 Hz to 58 Hz and 2 g 58 to 500 Hz
			sinusoidal
			1.2 ±0.1 kg (2.6 ±0.2 lb)
x 11 in)			$158 \times 112 \times 89 \text{ mm} (6.2 \times 4.4 \times 3.5 \text{ in})$
	Infrared camera, hard transport case,		K6 infrared camera, printed documentation
	battery (2x), battery charger, power		
documentation	supply, retractable lanyard, USB cable,		
	carabiner strap, Torx screwdriver, printed		
	documentation		

FLIR Aerial First Responder Kits

Models	FLIR M200/M210 V2-Series		
Aircraft model ¹	DJI M200 V2, DJI M210 V2		
Included tablet interface	DJI CrystalSky Display 7.87"		
RC unit- 1 included	DJI Cendence RC		
Aircraft battery	Qty 2 TB55 (7660 mAh)		
Visual camera gimbal	DJI X4S 20 MP, 4K/60 H.264 4K/30 H.265 videos at a 100 Mbps		
	12 mp visual camera supplies MSX to thermal images		
Gimbal mount (IR & visual)	Model dependent, single and/or dual downward		
Compatible cameras	Zenmuse XT2 (included)		
	Zenmuse X5S (optional)*		
_	Zenmuse X30 (optional)*		
Thermal gimbal	Radiometric IR Camera		
	336 × 256 (M200) or 640 × 512 IR resolution		
	Focal length & FOV: model dependent		
Thermal imager	Uncooled VOx Microbolometer		
IR sensitivity	<50 mK at f/1.0		
Scene range (high gain)	-25°C to 135°C (-13°F to 275°F) [M200 range: -25°C to 100°C]		
Scene range (low gain)	-40°C to 550°C (-40°F to 1022°F)		
Spot meter	Temperature measured in 4 × 4 pixel spot		
File storage	Micro SD Card		
Photo/video format	Radiometric JPEG, TIFF, MP4		
Compatible software	DroneSense FLIR Edition		
Operating temperature range	-10°C to 40°C (14°F to 104°F)		
Weight (gimbal)	588 g (20.7 oz)		

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Specifications are subject to change without notice

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