



# UAS THERMAL IMAGING KITS

*Featuring DJI M200 Series and Zenmuse XT2 Thermal Imagers*



# MORE ACCESSIBLE THAN EVER BEFORE

By combining the flight stability, gimbal technology, mobile app integration, and image transmission of the powerful DJI M200, M210, and M210RTK with the industry-leading thermal imaging technology of FLIR, these packages offer you the ultimate solution for reliable, rapidly-deployable aerial thermal imaging. The M210 and M210RTK kits let you deploy two imagers below the aircraft so you can fly thermal and visible cameras at the same time, or single upward-facing gimbal, and the upgraded Cendence control unit.



**FLIR M200 XT2  
336-9 mm**

M200 airframe, XT2 IR camera, 336 × 256 9 mm IR and 12 MP visual, 7.8" CrystalSky display, 2 TB50 batteries

Applications: Fire, SAR, basic structural inspections



**FLIR M210 XT2 R  
640-13 mm or 640-19 mm**

M210 airframe, XT2 IR camera, 640 × 512 (13 or 19 mm) IR and 12 MP visual, 7.8" CrystalSky display, 2 TB50 batteries

Applications: Fire, SAR, building, roofing inspection



**FLIR M210 XT2 R  
640-13 mm or 640-19 mm**

M210 airframe, XT2 IR camera, 640 × 512 (13 or 19 mm) IR and 12 MP visual, Cendence RC, 7.8" CrystalSky display, 2 TB50 and 2 TB55 batteries

Single-, dual-, or top-mount thermal/visible gimbal mounts

Dual camera operation

Applications: building/roofing, utility, solar inspection



**FLIR M210RTK XT2 R  
640-13 mm or 640-19 mm**

M210RTK\* airframe, XT2 IR camera, 640 × 512 (13 or 19 mm) IR and 12 MP visual, Cendence RC, 7.8" CrystalSky display, 2 TB50 and 2 TB55 batteries

Single-, dual-, or top-mount thermal/visible gimbal mounts

Dual camera operation

Applications: Areas where GPS may be obscured or additional GPS accuracy is required

\*The built-in RTK unit on the M210 RTK model enables the drone to hover with centimeter-level accuracy due to the improved GPS data, making slight interferences to the transmission system potentially less dangerous.

All Models Compatible with:



[www.flir.com/dronesense](http://www.flir.com/dronesense)



WITHOUT FLIR MSX

WITH FLIR MSX\*



Zenmuse XT2

## All FLIR UAS Thermal Imaging Kits Include:

- Zenmuse XT2 thermal camera with MSX®
- 7.8" CrystalSky display
- FLIR Tools+ imaging software

## Key Stats for Controlled Operation



\* FLIR MSX® Multi-Spectral Dynamic Imaging embosses visible image edge details onto thermal images to enhance perspective and safety

# SPECIFICATIONS

AVAILABLE KITS	FLIR M200 XT2 R 336-9 mm	FLIR M200 XT2 R Choice of 640-13 mm or 640-19 mm	FLIR M210 XT2 R Choice of 640-13 mm or 640-19 mm	FLIR M210 RTK XT2 R Choice of 640-13 mm or 640-19 mm
Aircraft Model <sup>1</sup>	DJI M200 <sup>1</sup>	DJI M200	DJI M210 <sup>1</sup>	DJI M210RTK <sup>1</sup>
Included Tablet Interface	DJI CrystalSky display 7.85"	DJI CrystalSky display 7.85"	DJI CrystalSky display 7.85"	DJI CrystalSky display 7.85"
RC Unit- 1 Included	DJI GL6D10A	DJI GL6D10A	DJI Cendence RC	DJI Cendence RC
Aircraft Battery	Qty 2 TB50 (4280 mAh)	Qty 2 TB50 (4280 mAh)	Qty 2 TB50 (4280 mAh) & Qty 2 TB55 (7660 mAh)	Qty 2 TB50 (4280 mAh) & Qty 2 TB55 (7660 mAh)
Gimbal Mount (IR & Visual)	Single downward	Single downward	Single downward, Dual downward, Single upward	Single downward, Dual downward, Single upward
Compatible Cameras	Zenmuse XT2 (included) Zenmuse X5S (optional)* Zenmuse X30 (optional)*	Zenmuse XT2 (included) Zenmuse X5S (optional)* Zenmuse X30 (optional)*	Zenmuse XT2 (included) Zenmuse X5S (optional)* Zenmuse X30 (optional)*	Zenmuse XT2 (included) Zenmuse X5S (optional)* Zenmuse X30 (optional)*
<b>Zenmuse XT2 Camera</b>	<b>XT2 336 x 256 – 9 mm FOV 35° x 27°</b>	<b>XT2 640 x 512 13mm FOV 45° x 37° Or XT2 640 x 512 19mm FOV 32° x 26°</b>	<b>XT2 640 x 512 13mm FOV 45° x 37° Or XT2 640 x 512 19mm FOV 32° x 26°</b>	<b>XT2 640 x 512 13mm FOV 45° x 37° Or XT2 640 x 512 19mm FOV 32° x 26°</b>
Frame Rate	30 Hz or 9 Hz (region-dependent)	30 Hz or 9 Hz (region-dependent)	30 Hz or 9 Hz (region-dependent)	30 Hz or 9 Hz (region-dependent)
Thermal Imager	Uncooled VOx microbolometer, 7.5 – 13.5 μm	Uncooled VOx microbolometer, 7.5 – 13.5 μm	Uncooled VOx microbolometer, 7.5 – 13.5 μm	Uncooled VOx microbolometer, 7.5 – 13.5 μm
IR Sensitivity	<50 mK at f/1.0	<50 mK at f/1.1	<50 mK at f/1.0	<50 mK at f/1.0
Scene Range (High Gain)	-25°C to 100°C (-13°F to 212°F)	-25°C to 135°C (-13°F to 275°F)	-25°C to 135°C (-13°F to 275°F)	-25°C to 135°C (-13°F to 275°F)
Scene Range (Low Gain)	-40°C to 550°C (-40°F to 1022°F)	-40°C to 550°C (-40°F to 1022°F)	-40°C to 550°C (-40°F to 1022°F)	-40°C to 550°C (-40°F to 1022°F)
Thermal Photo/Video Format	JPEG, TIFF, R-JPEG/8-bit MOV, MP4/14-BIT TIFF sequence, SEQ	JPEG, TIFF, R-JPEG/8-bit MOV, MP4/14-BIT TIFF sequence, SEQ	JPEG, TIFF, R-JPEG/8-bit MOV, MP4/14-BIT TIFF sequence, SEQ	JPEG, TIFF, R-JPEG/8-bit MOV, MP4/14-BIT TIFF sequence, SEQ
Visual Camera	12 MP, 1/1.7" CMOS, FOV 57.12° x 42.44°	12 MP, 1/1.7" CMOS, FOV 57.12° x 42.44°	12 MP, 1/1.7" CMOS, FOV 57.12° x 42.44°	12 MP, 1/1.7" CMOS, FOV 57.12° x 42.44°
Visual Photo/Video	4K Ultra HD: 3840 x 210, 29.97p FHD: 1920 x 1080, 29.97p	4K Ultra HD: 3840 x 210, 29.97p FHD: 1920 x 1080, 29.97p	4K Ultra HD: 3840 x 210, 29.97p FHD: 1920 x 1080, 29.97p	4K Ultra HD: 3840 x 210, 29.97p FHD: 1920 x 1080, 29.97p
File Storage	JPEG/MOV, MP4	JPEG/MOV, MP4	JPEG/MOV, MP4	JPEG/MOV, MP4
Weight (Gimbal)	Micro SD, max. capacity: 128 GB. UHS-3 required. SanDisk Extreme 16/32 GB UHS-3 micro-SDHC or SanDisk Extreme 16/128 GB UHS-3 microSDXC recommended	Micro SD, max. capacity: 128 GB. UHS-3 required. SanDisk Extreme 16/32 GB UHS-3 micro-SDHC or SanDisk Extreme 16/128 GB UHS-3 microSDXC recommended	Micro SD, max. capacity: 128 GB. UHS-3 required. SanDisk Extreme 16/32 GB UHS-3 micro-SDHC or SanDisk Extreme 16/128 GB UHS-3 microSDXC recommended	Micro SD, max. capacity: 128 GB. UHS-3 required. SanDisk Extreme 16/32 GB UHS-3 micro-SDHC or SanDisk Extreme 16/128 GB UHS-3 microSDXC recommended

Software	
FLIR Tools+	FLIR Tools+ included with all FLIR Kits to manage and analyze IR images

## Notes:

1. Full airframe details can be found at <http://www.dji.com/matrice-200-series/info#specs> and are subject to change by DJI

\*Contact your FLIR dealer for pricing on optional accessories such as the Z30, X5S, additional batteries, or remote control units.



The World's *Sixth Sense*®

## U.S. MARKETS

Please note operation of the Small Unmanned Aerial Systems sold by FLIR Systems into U.S. markets in most all cases constitutes commercial use and requires the appropriate FAA registrations which may include a pilot's license requirement. Registrations or certifications are not conveyed with a camera purchase and must be obtained by the buyer. Operator training is strongly recommended.

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