



# UAS THERMAL IMAGING KITS

Featuring DJI Matrice 200 Series V2 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 Series V2 DJI M200, M210, 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 add the optional single upward gimbal. All FLIR kits include the new Cendence S remote featuring OCUSYNC™ 2.0 technology and 7.8" CrystalSky display.



## FLIR M200 V2 336-9 mm

M200 V2 airframe, XT2 IR camera, 336 × 256 (9 mm) IR and 12 MP visual, Cendence RC, 7.8" CrystalSky display, 2 TB55 batteries

Applications: fire, SAR, basic structural inspections



## FLIR M210 V2 640-13 mm, 640-19 mm, or 640-25 mm

M210 V2 airframe, XT2 IR camera, 640 × 512 (13, 19, or 25 mm) IR and 12 MP visual, Cendence RC, 7.8" CrystalSky display, 2 TB55 batteries

Applications: fire, SAR, building/roofing inspection



## FLIR M210 V2 640-13 mm, 640-19 mm, or 640-25 mm

M210 V2 airframe, XT2 IR camera, 640 × 512 (13, 19, or 25 mm) IR and 12 MP visual, Cendence RC, 7.8" CrystalSky display, 2 TB55 batteries

Dual downward mount standard, optional top mount available

Dual camera operation

Applications: building/roofing, utility, solar inspection



## FLIR M210RTK V2 640-13 mm, 640-19 mm, or 640-25 mm

M210RTK\* V2 airframe, XT2 IR camera, 640 × 512 (13, 19, or 25 mm) IR and 12 MP visual, Cendence RC, 7.8" CrystalSky display, 2 TB55 batteries

Dual downward mount standard, optional top mount available

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:



DroneSense

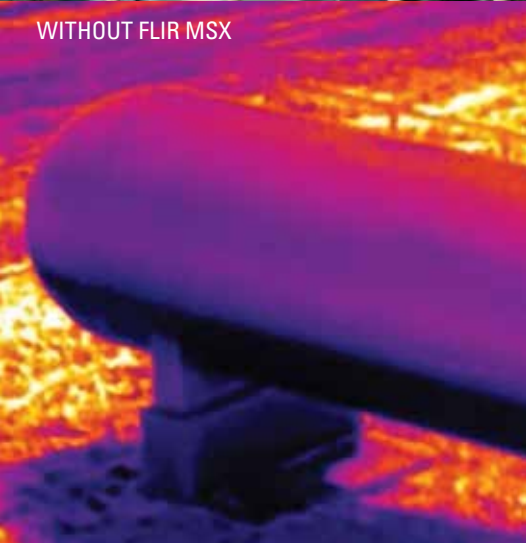
FLIR EDITION

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

All versions available in 9 Hz or 30 Hz configurations.



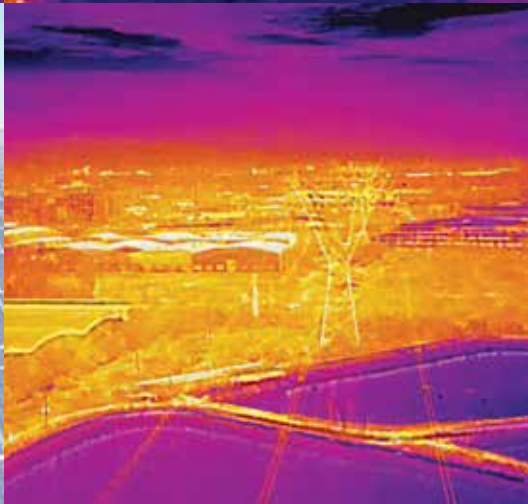
Another aircraft is approaching. Descend as soon as possible.



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 Thermal Studio software

### Key Stats for Controlled Operation

<b>8 km</b> (5 mi)	<b>38 min</b>	<b>IP43</b>	<b>1.45 kg†</b> (3.2 lbs)
Max Transmission Range	Max Flight Time	Ingress Protection	Max Payload Capacity

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

† Max. payload capacity by model: 1.45 kg (M200), 1.34 kg (M210), 1.23 kg (M210RTK)

# SPECIFICATIONS

AVAILABLE KITS	FLIR M200 XT2 R 336-9 mm	FLIR M200 XT2 R 640-13 mm, 640-19 mm, or 640-25 mm	FLIR M210 XT2 R 640-13 mm, 640-19 mm, or 640-25 mm	FLIR M210RTK XT2 R 640-13 mm, 640-19 mm, or 640-25 mm
Aircraft Model <sup>1</sup>	DJI Series V2 M200 <sup>1</sup>	DJI Series V2 M200	DJI Series V2 M210 <sup>1</sup>	DJI Series V2 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 Cendence S	DJI Cendence S	DJI Cendence S	DJI Cendence S
Aircraft Battery	Qty 2 TB 55 batteries (7660 mAh)	Qty 2 TB 55 batteries (7660 mAh)	Qty 2 TB 55 batteries (7660 mAh)	Qty 2 TB55 (7660 mAh)
Gimbal Mount (IR & Visual)	Single downward	Single downward	Single downward, Dual downward	Single downward, Dual downward
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 × 256 – 9 mm FOV 35° × 27°</b>	<b>XT2 640 × 512 – 13 mm FOV 45° × 37°</b> <b>XT2 640 × 512 – 19 mm FOV 32° × 26°</b> <b>XT2 640 × 512 – 25 mm FOV 25° × 20°</b>	<b>XT2 640 × 512 – 13 mm FOV 45° × 37°</b> <b>XT2 640 × 512 – 19 mm FOV 32° × 26°</b> <b>XT2 640 × 512 – 25 mm FOV 25° × 20°</b>	<b>XT2 640 × 512 – 13 mm FOV 45° × 37°</b> <b>XT2 640 × 512 – 19 mm FOV 32° × 26°</b> <b>XT2 640 × 512 – 25 mm FOV 25° × 20°</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/1.0	<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° × 42.44°	12 MP, 1/1.7" CMOS, FOV 57.12° × 42.44°	12 MP, 1/1.7" CMOS, FOV 57.12° × 42.44°	12 MP, 1/1.7" CMOS, FOV 57.12° × 42.44°
Visual Photo/Video	4K Ultra HD: 3840 × 210, 29.97p FHD: 1920 × 1080, 29.97p	4K Ultra HD: 3840 × 210, 29.97p FHD: 1920 × 1080, 29.97p	4K Ultra HD: 3840 × 210, 29.97p FHD: 1920 × 1080, 29.97p	4K Ultra HD: 3840 × 210, 29.97p FHD: 1920 × 1080, 29.97p
File Storage	JPEG/MOV, MP4 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	JPEG/MOV, MP4 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	JPEG/MOV, MP4 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	JPEG/MOV, MP4 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
Weight (Gimbal)	588 g (20.7 oz)	588 g (20.7 oz)	588 g (20.7 oz)	588 g (20.7oz)

Software	
FLIR Tools+	Download from flir.com to manage and analyze thermal images
FLIR Thermal Studio	Included with all FLIR Kits to speed thermal image processing & reporting

#### Notes:

1. Full airframe details can be found at [www.dji.com/matrice-200-series-v2/specs](http://www.dji.com/matrice-200-series-v2/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<sup>®</sup>

#### 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.

Equipment described herein may require US Government authorization for export purposes. Diversion contrary to US law is prohibited. Imagery for illustration purposes only. Specifications are subject to change without notice. ©2019 FLIR Systems, Inc. All rights reserved. 19-0630 – Updated 05/13/2019

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