



## UAS THERMAL IMAGING KITS


*Featuring DJI M200 Series and Zenmuse XT 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 M210 RTK 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 M210 RTK 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.



**M200 336-6.8 mm**

M200 Airframe, 336 x 256 6.8 mm Performance Thermal Camera, X4S 4K Color Camera

Applications: Fire, SAR, basic structural inspections




**M200 640-13 mm**

M200 Airframe, 640 x 512 13 mm Radiometric Thermal Camera, X4S 4K Color Camera

73% more IR pixels than a 336 x 256

Applications: Fire, SAR, building/roofing inspections




**M210 640-13 mm [Radiometric]**

M210 Airframe, 640 x 512 13 mm Radiometric Thermal Camera, X4S 4K Color Camera, Cendence Controller

Single, dual, or top mount Thermal/Visible gimbal mounts

Dual camera operation

Applications: Fire, SAR, building, roofing inspection




**M210 640-19 mm [Radiometric]**

M210 Airframe, 640 x 512 19 mm Radiometric Thermal Camera, X4S 4K Color Camera, Cendence Controller

Single, dual, or top mount Thermal/Visible gimbal mounts

Dual camera operation

Narrow IR FOV Applications: building/roofing, utility, solar inspection



**M210-RTK\* 640-19 mm [Radiometric]**

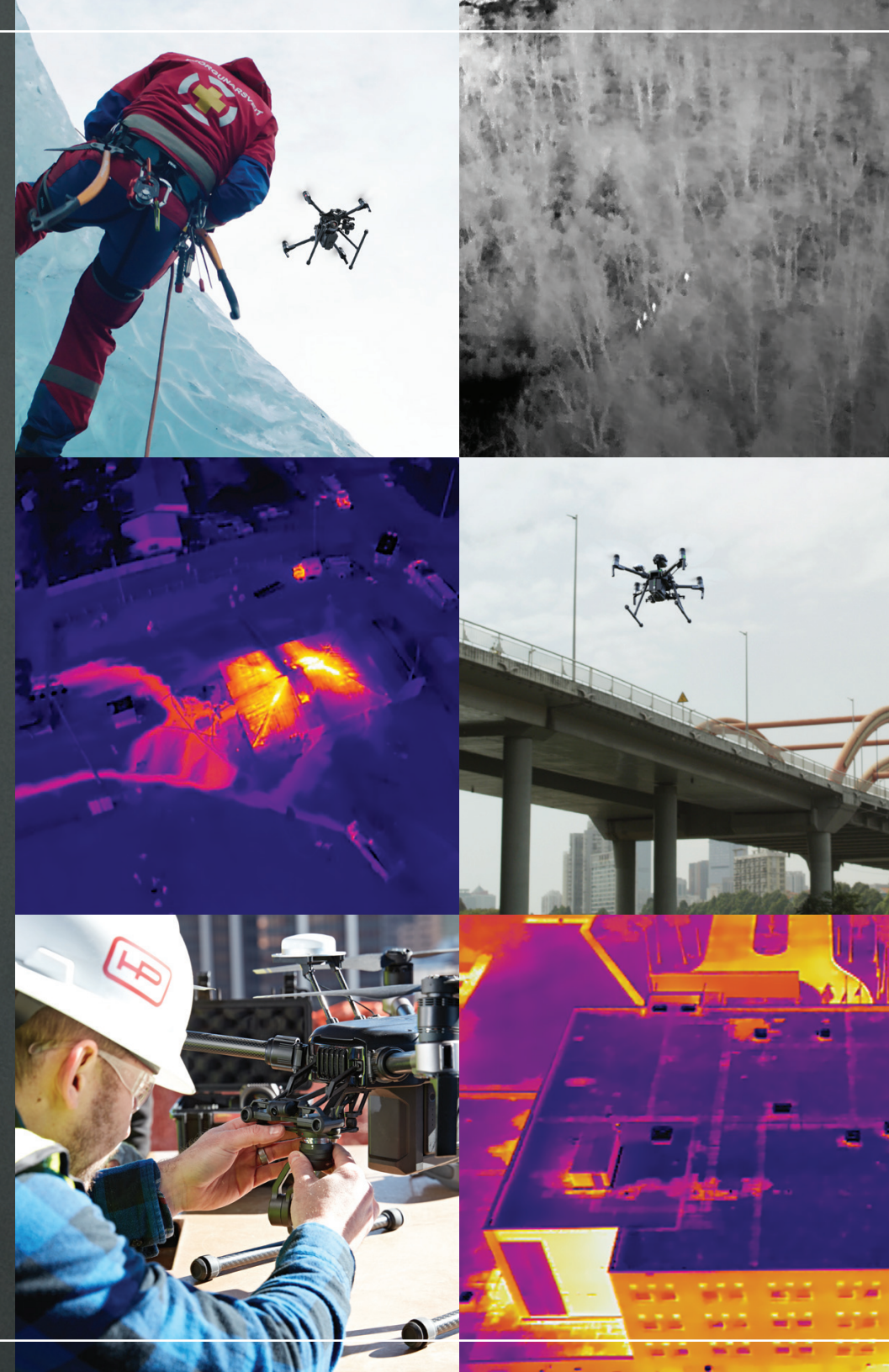
M210-RTK Airframe, 640 x 512 19 mm Radiometric Thermal Camera, X4S 4K Color Camera, Cendence Controller

Single, dual, or top mount Thermal/Visible gimbal mounts

Dual camera operation

Narrow IR FOV Applications: utility, tower work, wind turbines

\*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 less potentially dangerous.



All FLIR UAS Thermal Imaging Kits include:

- Zenmuse X4S 4K color camera
- Zenmuse XT thermal camera
- 7.8" CrystalSky display
- FLIR Tools Plus imaging software

## Key Stats for Controlled Operation

**7 km**

Operating Range

**38 min**

Max Flight Time

**IP43**

Ingress Protection

**2 kg**

Max Payload Capacity



# SPECIFICATIONS

AVAILABLE KITS	M200 336 - 6.8 mm	M200 640 - 13 mm	M210 640 - 13 mm (Radiometric)	M210 640 - 19 mm (Radiometric)	M210-RTK 640 - 19 mm (Radiometric)
Aircraft Model <sup>1</sup>	DJI M200 <sup>1</sup>	DJI M200 <sup>1</sup>	DJI M210 <sup>1</sup>	DJI M210 <sup>1</sup>	DJI M210 <sup>1</sup>
Included Tablet Interface	DJI Crystal Sky Display 7.87"	DJI Crystal Sky Display 7.87"	DJI Crystal Sky Display 7.87"	DJI Crystal Sky Display 7.87"	DJI Crystal Sky Display 7.87"
RC Unit- 1 included	DJI GL6D10A RC	DJI GL6D10A RC	DJI Cendence RC	DJI Cendence RC	DJI Cendence RC
Aircraft Battery	Qty 2 TB50 (4280 mAh)	Qty 2 TB50 (4280 mAh)	Qty 4 TB50 (4280 mAh) & Qty 2 TB55 (7660 mAh)	Qty 4 TB50 (4280 mAh) & Qty 2 TB55 (7660 mAh)	Qty 4 TB50 (4280 mAh) & Qty 2 TB55 (7660 mAh)
Visual Camera Gimbal	DJI X4S 20MP, 4K/60 H.264 4K/30 H.265 videos at a 100Mbps	DJI X4S 20MP, 4K/60 H.264 4K/30 H.265 videos at a 100Mbps	DJI X4S 20MP, 4K/60 H.264 4K/30 H.265 videos at a 100Mbps	DJI X4S 20MP, 4K/60 H.264 4K/30 H.265 videos at a 100Mbps	DJI X4S 20MP, 4K/60 H.264 4K/30 H.265 videos at a 100Mbps
Gimbal Mount (IR & Visual)	Single Downward	Single Downward	Single Downward, Dual Downward, Single Upward	Single Downward, Dual Downward, Single Upward	Single Downward, Dual Downward, Single Upward
Compatible Cameras	Zenmuse X4S (included) Zenmuse XT (included) Zenmuse X5S (optional)* Zenmuse X30 (optional)*	Zenmuse X4S (included) Zenmuse XT (included) Zenmuse X5S (optional)* Zenmuse X30 (optional)*	Zenmuse X4S (included) Zenmuse XT (included) Zenmuse X5S (optional)* Zenmuse X30 (optional)*	Zenmuse X4S (included) Zenmuse XT (included) Zenmuse X5S (optional)* Zenmuse X30 (optional)*	Zenmuse X4S (included) Zenmuse XT (included) Zenmuse X5S (optional)* Zenmuse X30 (optional)*
IR CAMERA	ZENMUSE XT V2	ZENMUSE XT V2	ZENMUSE XT V2	ZENMUSE XT V2	ZENMUSE XT V2
Thermal Gimbal	Performance IR Camera 336 x 256 Resolution 6.8 mm (45° x 35° FOV) Lens	Performance IR Camera 640 x 512 Resolution 13 mm (45° x 35° FOV) Lens	Radiometric IR Camera 640 x 512 Resolution 13 mm (45° x 35° FOV) Lens	Radiometric IR Camera 640 x 512 Resolution 19 mm (32° x 26°FOV) Lens	Radiometric IR Camera 640 x 512 Resolution 19 mm (32° x 26°FOV) Lens
Thermal imager	Uncooled VOx Microbolometer	Uncooled VOx Microbolometer	Uncooled VOx Microbolometer	Uncooled VOx Microbolometer	Uncooled VOx Microbolometer
IR Sensivity	<50 mK at f/1.0	<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)	-13° to 212°F (-25° to 100°C)	-13° to 212°F (-25° to 100°C)	-13° to 212°F (-25° to 100°C)	-13° to 212°F (-25° to 100°C)	-13° to 212°F (-25° to 100°C)
Scene Range (Low Gain)	-40° to 1022°F (-40° to 550°C)	-40° to 1022°F (-40° to 550°C)	-40° to 1022°F (-40° to 550°C)	-40° to 1022°F (-40° to 550°C)	-40° to 1022°F (-40° to 550°C)
Spot Meter	Temperatures measured in central 4x4-pixel spot	Temperatures measured in central 4x4-pixel spot	Temperatures measured in central 4x4-pixel spot	Temperatures measured in central 4x4-pixel spot	Temperatures measured in central 4x4-pixel spot
File Storage	Micro SD Card	Micro SD Card	Micro SD Card	Micro SD Card	Micro SD Card
Photo/Video Format	Radiometric JPEG, TIFF, MP4	Radiometric JPEG, TIFF, MP4	Radiometric JPEG, TIFF, MP4	Radiometric JPEG, TIFF, MP4	Radiometric JPEG, TIFF, MP4
Operating Temperature Range	14° to 104°F (-10° to 40°C)	14° to 104°F (-10° to 40°C)	14° to 104°F (-10° to 40°C)	14° to 104°F (-10° to 40°C)	14° to 104°F (-10° to 40°C)
Weight	270 g	270 g	270 g	270 g	270 g

## Software

FLIR Tools Plus	FLIR Tools Plus included with all FLIR Kits to manage and analyze IR images
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## 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 like the Z30, X5S, additional batteries, or remote control units.

## 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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