

One-Click to install on DJI M210 series drone, perfectly integrated with DJI's flight controller, GPS module, transmission system

Accurate temp. measurement, meet requirement of powerline inspection etc.,

Observe target from distance, meet the needs of public security, fire protection, environmental protection etc.,

High resolution infrared camera, detector resolution 640 x 480 pixels

16 bits full radiometric temp. measurement video

Highly integrated with DJI's App, convenient to use.





SATIR UAVs-P Infrared Inspections System

Apply to Powerline Inspection







UAVs-P Technical Feature



50mm lens, enable customer to capture more details and observe target from distance.



Image frequency up to 30Hz, record clear video under motion



Image dynamic display range adjustment function, satisfied different complicated application



Full temp. analysis function in real time



Display and record GPS information in real time

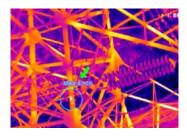


Corresponding APP and base station display software

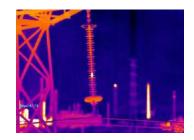


Support task management, data management and analysis software in different industries. Take power industry as an example, we direc tly added relevant modules in the APP, such as "inspection work tick et", "inspection data database import index" and "inspection work i nstruction", with corresponding ground analysis and processing soft ware and database system, and can be integrated with other inspect ion data.



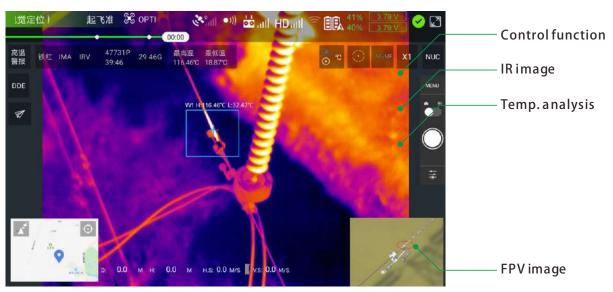




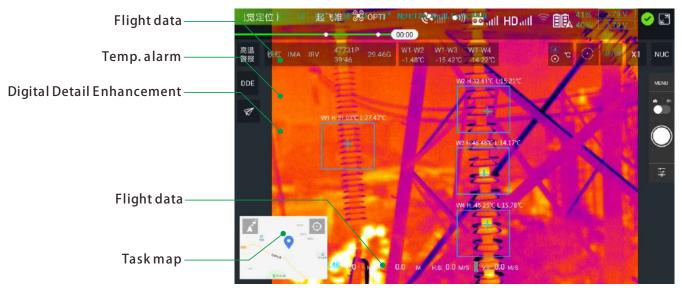




Complete function APP, integrated flight controller and temperature analysis function



Temp.measurementbox



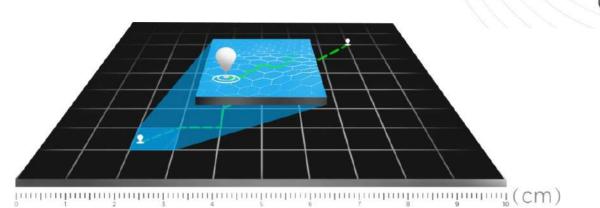
4 moveable points, size changeable boxes in the APP to compare and analysis target

Description
Replay ima, jpg
Single point temp. measurement
Multiple point temp. measurement
Support multiple box temp. measurement
Support multiple max. temp
Display max. temp
Display min. temp
Display Avg. temp
Set value of high temp. alarm
GPS/BEIDOU/GLONASS/GALILEO
Digital Detail Enhancement
Yes
Quantity statistic
Flight time statistic



RTK Mobile Station for powerline and substation inspection

RTK Mobile Station supports all major global satellite naviga tion systems(GPS,BEIDOU,G LONASS,GALILEO) providi ng real-time differential corre ctions that generate centimeterlevel positioning data for impro ved relative accuracy.



Centimeter-Level Positioning

RTK Mobile Station supports communication via 4G, OcuSync, WiFi, and LAN, ensuring un interrupted, stable data transmission under any application scenario. Up to 5 remote controlle rs can be connected to RTK Mobile Station sim ultaneously. This makes coordinated operations involving multiple drones a possibility, significan tly improving efficiency.



RTK MOBILE STATION SPECIFICATIONS

GNSS (Global Navigation Satellite S	vstem) RECEVIER
GNSS Frequency	Simultaneously receive:
GIUSS Hequency	GPS: LI C/A. L2 L5
	BEIDOU: B1, B2, B3
	GLONASS: F1, F2
	Galileo: E1, E5A, E5B
	Single Point
	Horizontal: 1.5 m(RMS)
	Vertical: 3.0 m(RMS)
	RTK
Positioning Accuracy	Horizontal: 1 cm+ 1 ppm(RMS)
	Vertical: 2 cm+1 ppm(RMS)
	1 ppm: For every 1 km increase in distance, the accuracy will be 1 mm less. For example, the horizontal accuracy is 1.1 cm
	when the receiving end is 1 km away from the base station.
Positioning Update Rate	1 Hz, 2 Hz, 5 Hz, 10 Hz and 20 Hz
Cold Start	<45 s
Hot Start	< 10 s
Recapture Time	
Initialization Reliability	>99.9%
Differential Data Format	RTCM 2.X/3.X
IMU (Inertial Measurement Unit)	Duit is high manipulation (avia conclusion star
Features	Built-in high-precision 6-axis accelerometer
	D-RTK 2 movement monitoring
	Sloping measurements
	Electronic bubble level
PHYSICAL CHARACTERISTICS	
Dimensions	168 mm×168 mm×1708 mm
(D-RTK 2 body with extension rod)	
IP Rating	IP65
COMMUNICATION AND DATA ST	ORAGE
Data Link	OcuSync, Wi-Fi, LAN, 4G
Operating Frequency	2.400 GHz to 2.483 GHz (China, United States, Australia, Europe, Japan, Korea)
	5.725 GHz to 5.850 GHz (China, United States, Australia)
	OcuSync
	2.4 GHz
	SRRC (Mainland China) / CE (Europe) / MIC (Japan) / KCC (Korea): < 20 dBm
	FCC (United States, Australia) / NCC (Taiwan, China): < 26 dBm
	5.8 GHz
EIRP	
	FCC (United States, Australia) / SRRC (Mainland China) / NCC (Taiwan, China): < 26 dBm
(Effective Isotropic Radiated Power)	FCC (United States, Australia) / SRRC (Mainland China) / NCC (Taiwan, China): < 26 dBm Wi-Fi
	FCC (United States, Australia) / SRRC (Mainland China) / NCC (Taiwan, China): < 26 dBm Wi-Fi 2.4 GHz
	FCC (United States, Australia) / SRRC (Mainland China) / NCC (Taiwan, China): < 26 dBm Wi-Fi 2.4 GHz SRRC (Mainland China) / CE (Europe) / MIC (Japan) / KCC (Korea): < 20 dBm
	 FCC (United States, Australia) / SRRC (Mainland China) / NCC (Taiwan, China): < 26 dBm Wi-Fi 2.4 GHz SRRC (Mainland China) / CE (Europe) / MIC (Japan) / KCC (Korea): < 20 dBm FCC (United States, Australia) / NCC (Taiwan, China): < 22 dBm
	FCC (United States, Australia) / SRRC (Mainland China) / NCC (Taiwan, China): < 26 dBm Wi-Fi 2.4 GHz SRRC (Mainland China) / CE (Europe) / MIC (Japan) / KCC (Korea): < 20 dBm
	 FCC (United States, Australia) / SRRC (Mainland China) / NCC (Taiwan, China): < 26 dBm Wi-Fi 2.4 GHz SRRC (Mainland China) / CE (Europe) / MIC (Japan) / KCC (Korea): < 20 dBm FCC (United States, Australia) / NCC (Taiwan, China): < 22 dBm
	 FCC (United States, Australia) / SRRC (Mainland China) / NCC (Taiwan, China): < 26 dBm Wi-Fi 2.4 GHz SRRC (Mainland China) / CE (Europe) / MIC (Japan) / KCC (Korea): < 20 dBm FCC (United States, Australia) / NCC (Taiwan, China): < 22 dBm 5.8 GHz
	 FCC (United States, Australia) / SRRC (Mainland China) / NCC (Taiwan, China): < 26 dBm Wi-Fi 2.4 GHz SRRC (Mainland China) / CE (Europe) / MIC (Japan) / KCC (Korea): < 20 dBm FCC (United States, Australia) / NCC (Taiwan, China): < 22 dBm 5.8 GHz FCC (United States, Australia) / SRRC (Mainland China) / NCC (Taiwan, China): < 22 dBm
(Effective Isotropic Radiated Power)	 FCC (United States, Australia) / SRRC (Mainland China) / NCC (Taiwan, China): < 26 dBm Wi-Fi 2.4 GHz SRRC (Mainland China) / CE (Europe) / MIC (Japan) / KCC (Korea): < 20 dBm FCC (United States, Australia) / NCC (Taiwan, China): < 22 dBm 5.8 GHz FCC (United States, Australia) / SRRC (Mainland China) / NCC (Taiwan, China): < 22 dBm OcuSync: 2 km (unobstructed and free of interference,
	FCC (United States, Australia) / SRRC (Mainland China) / NCC (Taiwan, China): < 26 dBm
(Effective Isotropic Radiated Power)	 FCC (United States, Australia) / SRRC (Mainland China) / NCC (Taiwan, China): < 26 dBm Wi-Fi 2.4 GHz SRRC (Mainland China) / CE (Europe) / MIC (Japan) / KCC (Korea): < 20 dBm FCC (United States, Australia) / NCC (Taiwan, China): < 22 dBm 5.8 GHz FCC (United States, Australia) / SRRC (Mainland China) / NCC (Taiwan, China): < 22 dBm OcuSync: 2 km (unobstructed and free of interference,
(Effective Isotropic Radiated Power) Communication Distance Memory Capacity	FCC (United States, Australia) / SRRC (Mainland China) / NCC (Taiwan, China): < 26 dBm
(Effective Isotropic Radiated Power)	FCC (United States, Australia) / SRRC (Mainland China) / NCC (Taiwan, China): < 26 dBm
(Effective Isotropic Radiated Power) Communication Distance Memory Capacity	FCC (United States, Australia) / SRRC (Mainland China) / NCC (Taiwan, China): < 26 dBm
(Effective Isotropic Radiated Power) Communication Distance Memory Capacity ELECTRICAL CHARACTERISTIC	FCC (United States, Australia) / SRRC (Mainland China) / NCC (Taiwan, China): < 26 dBm
(Effective Isotropic Radiated Power) Communication Distance Memory Capacity ELECTRICAL CHARACTERISTIC Power Consumption	FCC (United States, Australia) / SRRC (Mainland China) / NCC (Taiwan, China): < 26 dBm
(Effective Isotropic Radiated Power) Communication Distance Memory Capacity ELECTRICAL CHARACTERISTIC Power Consumption Power Supply	FCC (United States, Australia) / SRRC (Mainland China) / NCC (Taiwan, China): < 26 dBm
(Effective Isotropic Radiated Power) Communication Distance Memory Capacity ELECTRICAL CHARACTERISTIC Power Consumption	FCC (United States, Australia) / SRRC (Mainland China) / NCC (Taiwan, China): < 26 dBm
(Effective Isotropic Radiated Power) Communication Distance Memory Capacity ELECTRICAL CHARACTERISTIC Power Consumption Power Supply	FCC (United States, Australia) / SRRC (Mainland China) / NCC (Taiwan, China): < 26 dBm
(Effective Isotropic Radiated Power) Communication Distance Memory Capacity ELECTRICAL CHARACTERISTIC Power Consumption Power Supply	FCC (United States, Australia) / SRRC (Mainland China) / NCC (Taiwan, China): < 26 dBm
(Effective Isotropic Radiated Power) Communication Distance Memory Capacity ELECTRICAL CHARACTERISTIC Power Consumption Power Supply Battery Run Time	FCC (United States, Australia) / SRRC (Mainland China) / NCC (Taiwan, China): < 26 dBm
(Effective Isotropic Radiated Power) Communication Distance Memory Capacity ELECTRICAL CHARACTERISTIC Power Consumption Power Supply Battery Run Time ENVIRONMENTAL	FCC (United States, Australia) / SRRC (Mainland China) / NCC (Taiwan, China): < 26 dBm
(Effective Isotropic Radiated Power) Communication Distance Memory Capacity ELECTRICAL CHARACTERISTIC Power Consumption Power Supply Battery Run Time	FCC (United States, Australia) / SRRC (Mainland China) / NCC (Taiwan, China): < 26 dBm

DRONE SPECIFICATIONS

Model	M210 RTK V2
Dimensions	Unfolded, propellers and landing gears included, 883×886×427 mm Folded, propellers and landing gears excluded, 722×282×242 mm
Diagonal Wheelbase	643 mm
Weight	Approx. 4.91 kg (with two TB55 batteries)
Max Takeoff Weight	6.14 kg
Max Payload	1.23 kg
Operating Frequency	2.4000-2.4835 GHz; 5.725-5.850 GHz
EIRP	$2.4 \text{ GHz:} \leq 26 \text{ dBm (NCC/FCC)}; \leq 20 \text{ dBm (CE/MIC)}; \leq 20 \text{ dBm (SRRC)}$ $5.8 \text{ GHz:} \leq 26 \text{ dBm (NCC/FCC)}; \leq 14 \text{ dBm (CE)}; \leq 26 \text{ dBm (SRRC)}$
Hovering Accuracy (P-mode with GPS)	Vertical: ±1.64 feet (±0.5 m) or ±0.33 feet (±0.1 m, Downward Vision System enabled) Horizontal: ±4.92 feet (±1.5 m) or ±0.98 feet (±0.3 m, Downward Vision System enabled)
Hovering Accuracy	Vertical: ± 0.33 feet (± 0.1 m); Horizontal: ± 0.33 feet (± 0.1 m) with RTK turn on
Max Angular Velocity	Pitch: 300°/s, Yaw: 120°/s
	S-mode: 30°; P-mode: 30° (Forward Vision System enabled: 25°); A-mode: 30° S-mode: 35°; P-mode: 30° (Forward Vision System enabled: 25°); A-mode: 30°
Max Pitch Angle [Single Downward Gimbal (Gimbal Connector I)] Max Ascent Speed	16.4 ft/s (5 m/s)
Max Ascent Speed (vertical)	9.8 ft/s (3 m/s)
Max Speed (Dual Downward Gimbal/Single Upward Gimbal)	S-mode/A-mode: 73.8 kph (45.9 mph); P-mode: 61.2 kph (38 mph)
Max Speed [Single Downward Gimbal (Gimbal Connector]]	S-mode/A-mode: 91.5 kph (50.3 mph); P-mode: 61.2 kph (38 mph)
Max Speed [Single Downward Ginibar (Ginibar Connector)]	5000 meters
Max Wind Resistance	39.4 ft/s (12 m/s)
Max Flight Time (with two TB55 batteries)	38 min (no payload), 24 min (takeoff weight: 6.14 kg)
Supported Gimbal Configurations	Single Downward Gimbal, Dual Downward Gimbals, Single Upward Gimbal
IP Rating	IP43
GNSS	GPS+GLONASS+BeiDou+Galileo
Operating Temperature	-20° to 50° C
Storage Temperature	-20° to 60° C
DOWNWARD VISION SYSTEM	
Velocity Range	<32.8 ft/s (10 m/s) at the height of 6.56 feet (2 m)
Altitude Range	<32.8 feet (10 m)
Operating Range	<32.8 feet (10 m)
Operating Environment	Surfaces with clear patterns and adequate lighting (>15 lux)
Ultrasonic Sensor Operating Range	0.33-16.4 feet (0.1-5 m)
Ultrasonic Sensor Operating Environment	Non-absorbing material, rigid surfaces (thick indoor carpeting will adversely affect performance)
UPWARD INFRARED SENSING SYSTEM	
Obstacle Sensing Range	0-16.4 feet (0-5 m)
FOV	±5°
Operating Environment	Large, diffuse, and reflective obstacles (reflectivity >10%)
CHARGER (IN2C180)	
Voltage	26.1 V
Rated Power	180 W
REMOTE CONTROLLER	
	2 4000 2 4025 CM 5 725 5 050 CM
Operating Frequency Max Transmitting Distance(unobstructed, free of interference)	2.4000-2.4835 GHz; 5.725-5.850 GHz
	NCC/FCC: 5 mi (8 km); CE/MIC: 3.1 mi (5 km); SRRC: 3.1 mi (5 km) 2.4 GHz: $\leq 26 \text{ dBm} (\text{NCC/FCC}); \leq 20 \text{ dBm} (\text{CE/MIC}); \leq 20 \text{ dBm} (\text{SRRC})$
EIRP	$2.4 \text{ GHz} \le 26 \text{ dBm} (\text{NCC/FCC}); \le 20 \text{ dBm} (\text{CE/MIC}); \le 20 \text{ dBm} (\text{SRRC})$ $5.8 \text{ GHz} \le 26 \text{ dBm} (\text{NCC/FCC}); \le 14 \text{ dBm} (\text{CE}); \le 26 \text{ dBm} (\text{SRRC})$
Power Supply	$5.6 \text{ GH2} \approx 26 \text{ dBm} (\text{NCC/FCC}); \approx 14 \text{ dBm} (\text{CE}); \approx 26 \text{ dBm} (\text{SRC})$ Extended Intelligent Battery (Model: WB37-4920mAh-7.6V)
i onei Suppiy	Enconses intelligent Dattery (mousi. WDJ/TJ2011/All-7.0V)
	13 W (Without supplying power to monitor)
Output Power (max)	13 W (Without supplying power to monitor) 1 A= 5.2 V (max)
Output Power (max) USB Power Supply	1 A= 5.2 V (max)
Output Power (max) USB Power Supply Operating Temperature	
Output Power (max) USB Power Supply Operating Temperature FORWARD VISION SYSTEM	1 A= 5.2 V (max) -20° to 50° C
Output Power (max) USB Power Supply Operating Temperature FORWARD VISION SYSTEM Obstacle Sensing Range	1 A= 5.2 V (max) -20° to 50° C 2.3-98.4 feet (0.7-30 m)
Output Power (max) USB Power Supply Operating Temperature FORWARD VISION SYSTEM Obstacle Sensing Range FOV	1 A= 5.2 V (max) -20° to 50° C 2.3-98.4 feet (0.7-30 m) Horizontal 60°; Vertical: 54°
Output Power (max) USB Power Supply Operating Temperature FORWARD VISION SYSTEM Obstacle Sensing Range FOV Operating Environment	1 A= 5.2 V (max) -20° to 50° C 2.3-98.4 feet (0.7-30 m) Horizontal 60°; Vertical: 54° Surfaces with clear patterns and adequate lighting (> 15 lux)
Output Power (max) USB Power Supply Operating Temperature FORWARD VISION SYSTEM Obstacle Sensing Range FOV Operating Environment INTELLIGENT FLIGHT BATTERY (TB55-766	1 A= 5.2 V (max) -20° to 50° C 2.3-98.4 feet (0.7-30 m) Horizontal 60°; Vertical: 54° Surfaces with clear patterns and adequate lighting (> 15 lux) 0MAH-22.8V)
Output Power (max) USB Power Supply Operating Temperature FORWARD VISION SYSTEM Obstacle Sensing Range FOV Operating Environment INTELLIGENT FLIGHT BATTERY (TB55-766 Capacity	1 A= 5.2 V (max) -20° to 50° C 2.3-98.4 feet (0.7-30 m) Horizontal 60°; Vertical: 54° Surfaces with clear patterns and adequate lighting (> 15 lux) 0MAH-22.8V) 7660 mAh
Output Power (max) USB Power Supply Operating Temperature FORWARD VISION SYSTEM Obstacle Sensing Range FOV Operating Environment INTELLIGENT FLIGHT BATTERY (TB55-766 Capacity Voltage	1 A= 5.2 V (max) -20° to 50° C 2.3-98.4 feet (0.7-30 m) Horizontal 60°; Vertical: 54° Surfaces with clear patterns and adequate lighting (> 15 lux) 0MAH-22.8V) 7660 mAh 22.8 V
Output Power (max) USB Power Supply Operating Temperature FORWARD VISION SYSTEM Obstacle Sensing Range FOV Operating Environment INTELLIGENT FLIGHT BATTERY (TB55-766 Capacity Voltage Battery Type	1 A= 5.2 V (max) -20° to 50° C 2.3-98.4 feet (0.7-30 m) Horizontal 60°; Vertical: 54° Surfaces with clear patterns and adequate lighting (> 15 lux) 0MAH-22.8V) 7660 mAh 22.8 V LiPo 6S
Output Power (max) USB Power Supply Operating Temperature FORWARD VISION SYSTEM Obstacle Sensing Range FOV Operating Environment INTELLIGENT FLIGHT BATTERY (TB55-766 Capacity Voltage Battery Type Energy	1 A= 5.2 V (max) -20° to 50° C 2.3-98.4 feet (0.7-30 m) Horizontal 60°; Vertical: 54° Surfaces with clear patterns and adequate lighting (> 15 lux) 0MAH-22.8V) 7660 mAh 22.8 V LiPo 6S 174.6 Wh
Output Power (max) USB Power Supply Operating Temperature FORWARD VISION SYSTEM Obstacle Sensing Range FOV Operating Environment INTELLIGENT FLIGHT BATTERY (TB55-766 Capacity Voltage Battery Type Energy Net Weight (Single One)	1 A= 5.2 V (max) -20° to 50° C 2.3-98.4 feet (0.7-30 m) Horizontal 60°; Vertical: 54° Surfaces with clear patterns and adequate lighting (> 15 lux) OMAH-22.8V) 7660 mAh 22.8 V LiPo 6S 174.6 Wh Approx. 885 g
Output Power (max) USB Power Supply Operating Temperature FOR WARD VISION SYSTEM Obstacle Sensing Range FOV Operating Environment INTELLIGENT FLIGHT BATTERY (TB55-766 Capacity Voltage Battery Type Energy Net Weight (Single One) Operating Temperature	1 A= 5.2 V (max) -20° to 50° C 2.3-98.4 feet (0.7-30 m) Horizontal 60°; Vertical: 54° Surfaces with clear patterns and adequate lighting (> 15 lux) OMAH-22.8 V OMAH-22.8 V 7660 mAh 22.8 V LiPo 6S 174.6 Wh Approx. 885 g -20° to 50° C
Output Power (max) USB Power Supply Operating Temperature FORWARD VISION SYSTEM Obstacle Sensing Range FOV Operating Environment INTELLIGENT FLIGHT BATTERY (TB55-766 Capacity Voltage Battery Type Energy Net Weight (Single One) Operating Temperature Charging Temperature	1 A= 5.2 V (max) -20° to 50° C 2.3-98.4 feet (0.7-30 m) Horizontal 60°; Vertical: 54° Surfaces with clear patterns and adequate lighting (> 15 lux) OMAH-22.8 V OMAH-22.8 V 7660 mAh 22.8 V LiPo 6S 174.6 Wh Approx. 885 g -20° to 50° C 5° to 40° C
Output Power (max) USB Power Supply Operating Temperature FORWARD VISION SYSTEM Obstacle Sensing Range FOV Operating Environment INTELLIGENT FLIGHT BATTERY (TB55-766 Capacity Voltage Battery Type Energy Net Weight (Single One) Operating Temperature Charging Temperature Max Charging Power	1 A= 5.2 V (max) -20° to 50° C 2.3-98.4 feet (0.7-30 m) Horizontal 60°; Vertical: 54° Surfaces with clear patterns and adequate lighting (> 15 lux) OMAH-22.8 V OMAH-22.8 V 7660 mAh 22.8 V LiPo 6S 174.6 Wh Approx. 885 g -20° to 50° C
Output Power (max) USB Power Supply Operating Temperature FOR WARD VISION SYSTEM Obstacle Sensing Range FOV Operating Environment INTELLIGENT FLIGHT BATTERY (TB55-766 Capacity Voltage Battery Type Energy Net Weight (Single One) Operating Temperature Charging Temperature Max Charging Power CHARGING HUB (IN2CH)	1 A= 5.2 V (max) -20° to 50° C 2.3-98.4 feet (0.7-30 m) Horizontal 60°; Vertical: 54° Surfaces with clear patterns and adequate lighting (> 15 lux) OMAH-22.8 V OMAH-22.8 V 1660 mAh 22.8 V LiPo 6S 174.6 Wh Approx. 885 g -20° to 50° C 5° to 40° C 180 W
Output Power (max) USB Power Supply Operating Temperature FORWARD VISION SYSTEM Obstacle Sensing Range FOV Operating Environment INTELLIGENT FLIGHT BATTERY (TB55-766 Capacity Voltage Battery Type Energy Net Weight (Single One) Operating Temperature Charging Temperature Max Charging Power	1 A= 5.2 V (max) -20° to 50° C 2.3-98.4 feet (0.7-30 m) Horizontal 60°; Vertical: 54° Surfaces with clear patterns and adequate lighting (> 15 lux) OMAH-22.8 V OMAH-22.8 V 7660 mAh 22.8 V LiPo 6S 174.6 Wh Approx. 885 g -20° to 50° C 5° to 40° C

Z30 VISUAL CAMERA SPECIFICATIONS

GENERAL			
Dimensions	152×137×61 mm		
Weight	556 g		
CAMERA			
Sensor	CMOS, 1/2.8"		
	Effective Pixels: 2.13 M, 1080P HD Camera		
Lens	30x Optical Zoom+180x Digital Zoom		
	F1.6 (Wide) - F4.7 (Tele)		
	Zoom Movement Speed:		
	- Optical Wide – Optical Tele: 4.6 sec		
	- Optical Wide – Digital Tele: 6.4 sec		
	- Digital Wide – Digital Tele : 1.8 sec		
	Focus Movement Time:		
	∞ - near: 1.1 sec		
FOV	63.7°(Wide) - 2.3°(Tele)		
Min. Working Distance	10 mm - 1200 mm		
Photo Formats	JPEG		
Video Formats	MOV, MP4		
Working Modes	Capture, Record, Playback		
Still Photography Modes	Single shot, Burst shooting: 3/5 frames,		
own i notography nioado	Interval (2/3/4/7/10/15/20/30 sec)		
Exposure Mode	Exposure Mode Auto, Manual, Shutter priority,		
-	Aperture priority		
Exposure Compensation	± 2.3 (1/3 increments)		
Metering Mode	Center-weighted metering,		
_	Spot metering (Area option 12x8)		
AE Lock	Supported		
Electronic Shutter Speed	1/30 – 1/6000 s		
White Balance	Auto, Sunny, Cloudy, Incandescent, Custom (2000K - 10000K)		
Video Captions	Supported		
TapZoom	Supported		
TapZoom Range	1-5		
Defog	Supported		
One Key to 1x Image	Supported		
Anti-flicker	50 Hz, 60 Hz		
PAL/NTSC	Supported		
Summanted SD Canda	MicroSD (SD / SDHC / SDXC)		
Supported SD Cards	Max. Capacity: 64 GB, Class 10 or UHS-1		
Supported File Systems	FAT32 (\leq 32 GB)		
	exFAT (> 32 GB)		
GIMBAL			
Angular Vibration Range	±0.01°		
Mount	Detachable		
Controllable Range	Pitch : +30° to -120°, Yaw: ±320°		
Mechanical Range	Pitch : +50° to -140°, Yaw: ±330°, Roll: +90° to -50°		
Max Controllable Speed ENVIRONMENTAL	Pitch : 180°/s, Yaw: 180°/s		
Operating Temperature	-10° to 45° C		
Storage Temperature	-10 10 45 C		

IR640 INFRARED CAMERA SPECIFICATIONS

IMAGING PERFORMANCE	
Detector Type	Focal Plane Array (FPA), uncooled microbolometer 640×480 pixels
Thermal sensitivity	0.05°C at 30°C
Detector Framte Rate	30Hz
Optical Focus	50mm, electric focus, auto focus, 16x digital Zoom
Spectral Range	$7 \sim 14 \ \mu m$
Field of View	12°×9°
Spatial Resolution (IFOV)	0.34mrad
Temperature Range	-20°C∼ + 150°C
Accuracy	$\pm 2^{\circ}$ C or $\pm 2\%$ of reading
Palettes	white hot / black hot / iron
Mary Tama anothing Automatic Traching	Automatically capturing max temperature and showing
Max Temperature Automatic Tracking	specific data in display in-real time
GPS	GPS information can be retrieved by corresponding IR image data.
PAL/NTSC	Supported
Photo format	JPEG/IMA with radiometric data
Video format	16 bits full radiometric infrared temp. data 20Hz/MP4 30Hz
Storage	SD Card up to 32GB
ENVIRONMENTAL SPECIFICATION	
Operating Temperature Range	-20°C to +50°C
Storage Temperature Range	-40°C to +70°C
Humidity	Operating and storage 10% to 95%, non-condensing
Encapsulation	IP43(same as drone)
GIMBAL	
Gimbal Control accuracy	±0.01°
Movement range	pitch-90~+30°, course $\pm 150^\circ$, roll $\pm 25^\circ$
Control interface	PWM/ S-BUS/ Serial port
Connection port	DJI M210 SERIES port
VOLTAGE	
Working voltage	11~50V
Average power consumption	6W
PHYSICAL CHARACTERISTICS	
Size	112 x 61 x 72 (mm)
Weight	320g

