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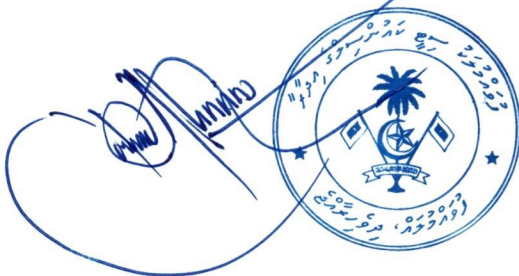
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procurement@fuvahmulah.gov.mv ފުވާދުމުލާހުގެ ސަރުކާރުގެ ފޮތް

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03 ستمبر 2024



بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

Secretariate of the Fuvahmulah City Council
Fuvahmulah, Republic of Maldives



ދުވަހުގެ ސަރުކާރުގެ ސިޓީގެ ނަންބަރު 468-APS/468/2024/244
ދިވެހިރާއްޖޭގެ ޖުމްހޫރިއްޔާ

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رِسْتَرِيه رِسَو دَرَرِگَ مَرَد

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	• LD (אסאך אראפגענומען) אסאך אראפגענומען געווארן $\checkmark$
	• $\checkmark$ אסאך אראפגענומען געווארן אסאך אראפגענומען געווארן 15% אראפגענומען געווארן. אסאך אראפגענומען געווארן אסאך אראפגענומען געווארן אסאך אראפגענומען געווארן.
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D-RTK 2 BASE STATION

IN THE BOX ITEMS

D-RTK 2 Body × 1
Extension Rod × 1
Charging Hub × 1
AC Power Adapter × 1
Intelligent Battery (WB37) × 2
Battery Cover × 1
AC Power Cable × 1
USB-C Cable × 1
USB-C OTG Cable × 1
Hex Key × 1
Tripod × 1



BASE STATION SPECIFICATIONS

RTK 2 Specification

GNSS Receiver

GNSS Frequency	Simultaneously receive : GPS: L1 C/A, L2, L5 BEIDOU: B1, B2, B3 GLONASS: F1, F2 Galileo: E1, E5A, E5B
Positioning Accuracy	Single Point Horizontal : 1.5 m(RMS) Vertical : 3.0 m(RMS) RTK 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	<1 s
Initialization Reliability	>99.9%
Differential Data Format	RTCM 2.X/3.X

IMU

Features	Built-in high-precision 6-axis accelerometer D-RTK 2 movement monitoring Sloping measurements Electronic bubble level
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Physical Characteristics

Dimensions (D-RTK 2 body with extension rod)	68 mm×168 mm×1708 mm
IP Rating	IP65

Communication and Data Storage

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)
EIRP	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 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
Communication Distance	Operating Mode 1/3 SRRC/NCC/FCC/MIC/KCC/CE: 2 km (Unobstructed and free of interference, when the D-RTK 2 Mobile Station is used as a base station and the distance from the D-RTK 2 antenna to the bottom of the tripod is 1.8 m, when the difference in height between the remote controller and D-RTK 2 is less than 2 m, and when the remote controller is 1.2 m from ground level) Operating Mode 4 Between the aircraft and mobile station: NCC/FCC: 7 km; SRRC/MIC/KCC/CE: 5 km Between the remote controller and mobile station: 200 m (Unobstructed and free of interference at a flying altitude of about 120 m, when the distance from the D-RTK 2 antenna to the bottom of the tripod is 1.8 m, and when the remote

	controller is 1.2 m from ground level) Operating Mode 5 NCC/FCC: 12 km; SRRC/MIC/KCC/CE: 6 km (Unobstructed and free of interference, when the distance from the D-RTK 2 antenna to the bottom of the tripod is 1.8 m)
Memory Capacity	16 GB

Electrical Characteristics

Power Consumption	12 W
Power Supply	16.5 to 58.8VDC
Battery	Type: Lithium-ion battery Capacity: 4920 mAh Energy: 37.3 WH
Run Time	WB37 battery : > 2 h MG-12000P battery : > 50 h

Operating Temperature

Operating Temperature	4° to 131° F (-20° to 55° C)
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D-RTK 2 Mobile Station

OPTIMIZED ACCURACY. ULTIMATE RELIABILITY.

D-RTK 2 Mobile Station is DJI's upgraded high-precision GNSS receiver that supports all major global satellite navigation systems, providing real-time differential corrections that generate centimeter-level positioning data for improved relative accuracy.

CENTIMETER-LEVEL POSITIONING

D-RTK 2 Mobile Station fully supports GPS, GLONASS, Beidou, and GALILEO signals. Easy and quick to set up, the D-RTK 2 Mobile Station provides real-time differential data for drones to achieve centimeter-level positioning accuracy. The built-in high-gain antenna offers better signal reception from more satellites even when obstructions are present.



Stay Connected for Any Mission

D-RTK 2 Mobile Station supports communication via 4G, OcuSync, WiFi, and LAN, ensuring uninterrupted, stable data transmission under any application scenario. Up to 5 remote controllers* can be connected to D-RTK 2 Mobile Station simultaneously. This makes coordinated operations involving multiple drones a possibility, significantly improving efficiency.

Durability You Can Trust

Featuring IP65 level ingress protection and a lightweight carbon fiber body, the D-RTK 2 Mobile Station is ultra-portable and up for any task, no matter how tough. The built-in IMUs monitor movements and calibrate the tilt sensors to alert the operator of any abnormalities during the mission, minimizing risks.

A Comprehensive Solution

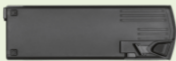
D-RTK 2 Mobile Station is compatible with Phantom 4 RTK and MG-1P RTK*. It can be used as a Continuously Operating Reference Station (CORS), which provides high precision positioning data within the cover range of the base station, making it the ideal tool for surveying, aerial inspections, agriculture, and other industrial applications.





SURVEY DRONE

IN THE BOX ITEMS

WHATS INCLUDED		
	Aircraft	X 1
	RC Pro	X 1
	Intelligent Flight Battery	X 3
	Propellers (pair)	X 3
	USB-C Power Adapter	X 1
	Gimbal Protector	X 1
	100W Power Adapter AC Cable	X 1
	USB-C Cable	X 1

	USB-C to USB-C Cable	X 1
	microSD Card 64GB	X 1
	Screwdriver	X 1
	Protector Case	X 1



SPECIFICATION

NOTE: THE SPECIFICATIONS ARE GIVEN ACCORDING TO THE DJI

Aircraft

Weight (with propellers, without accessories)	915 g
Max Takeoff Weight	1050 g
Dimensions (Folded/Unfolded)	Folded (without propellers): 221×96.3×90.3 mm (L×W×H) Unfolded (without propellers): 347.5×283×107.7 mm (L×W×H)
Diagonal Length	380.1 mm
Max Ascent Speed	6 m/s (Normal mode), 8 m/s (Sport mode)
Max Descent Speed	6 m/s (Normal mode), 6 m/s (Sport mode)
Max Flight Speed (at sea level, no wind)	15 m/s (Normal mode), 19 m/s (Sport Mode)
Max Wind Speed Resistance	12 m/s
Max Take-off Altitude Above Sea Level	6000 m (without payload)
Max Flight Time (no wind)	45 minutes
Max Hovering Time (no wind)	38 minutes
Max Flight Distance	32 km
Max Tilt Angle	30° (Normal mode), 35° (Sport mode)
Max Angular Velocity	200°/s
GNSS	GPS + Galileo + BeiDou + GLONASS (GLONASS is supported only when the RTK module is enabled)
Hovering Accuracy Range	Vertical: ±0.1 m (with Vision System); ±0.5 m (with GNSS); ±0.1 m (with RTK)

	Horizontal: ± 0.3 m (with Vision System); ± 0.5 m (with High-Precision Positioning System); ± 0.1 m (with RTK) Horizontal: ± 0.3 m (with Vision Positioning); ± 0.5 m (with High-Precision Positioning System)
Operating Temperature Range	-10° to 40° C (14° to 104° F)
Internal Storage	N/A
Motor Model	2008
Propeller Model	9453F Propellers for Enterprise
Beacon	Built into the Aircraft

Wide Camera

Sensor	4/3 CMOS, Effective pixels: 20 MP
Lens	FOV: 84° Format Equivalent: 24 mm Aperture: f/2.8 to f/11 Focus: 1 m to ∞
ISO Range	100-6400
Shutter Speed	Electronic Shutter: 8-1/8000 s Mechanical Shutter: 8-1/2000 s
Max Image Size	5280 x 3956
Still Photography Modes	Single: 20 MP Photos Timed: 20 MP JPEG: : 0.7/1/2/3/5/7/10/15/20/30/60 s JPEG+RAW: 3/5/7/10/15/20/30/60 s Smart Low-light Shooting: 20 MP Panorama: 12 MP (raw image), 100 MP (stitched image) * Shooting 48MP photo does not support 2s interval

Video Resolution	H.264 4K: 3840×2160@30fps FHD: 1920×1080@30fps
Bitrate	4K: 85 Mbps FHD: 30 Mbps
Supported File Formats	exFAT
Photo Format	JPEG
Video Formats	MP4 (MPEG-4 AVC/H.264)

Tele Camera

Sensor	1/2-inch CMOS, Effective pixels: 12 MP
Lens	FOV: 15° Format Equivalent: 162mm Aperture: f/4.4 Focus: 3 m to ∞
ISO Range	Video: 100-25600
Shutter Speed	Electronic Shutter: 8-1/8000 s
Max Image Size	4000×3000
Photo Format	JPEG
Video Formats	MP4 (MPEG-4 AVC/H.264)
Still Photography Modes	Single: 12 MP Photos Timed: 12 MP JPEG: 2/3/5/7/10/15/20/30/60 s Smart Low-light Shooting: 12 MP
Video Resolution	H264 4K: 3840×2160@30 fps FHD: 1920×1080@30 fps
Bitrate	4K: 85 Mbps FHD: 30 Mbps

Digital Zoom	8x (56x hybrid zoom)
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Thermal Camera

Thermal Imager	Uncooled Vox Microbolometer
Pixel Pitch	12 μm
Frame Rate	30 Hz
Lens	DFOV: 61° Format Equivalent: 40 mm Aperture: f/1.0 Focus: 5 m to ∞
Sensitivity	≤50 mk@F1.1
Temperature Measurement Method	Spot Meter, Area Measurement
Temperature Measurement Range	-20° to 150° C (-4° to 302° F, High Gain Mode) 0° to 500° C (32° to 932° F, Low Gain Mode)
Palette	White Hot/Black Hot/Tint/Iron Red/Hot Iron/Arctic/Medical/Fulgurite/Rainbow 1/Rainbow 2
Photo Format	JPEG (8-bit) R-JPEG (16-bit)
Video Resolution	640x512@30fps
Bitrate	6 Mbps
Video Format	MP4 (MPEG-4 AVC/H.264)
Still Photography Modes	Single: 640x512 Timed: 640x512 JPEG: 2/3/5/7/10/15/20/30/60 s
Digital Zoom	28x
Infrared Wavelength	8-14 μm
Infrared Temperature Measurement Accuracy	±2° C or ±2% (using the larger value)

Gimbal

Stabilization	3-axis (tilt, roll, pan)
Mechanical Range	Tilt: -135° to 45° Roll: -45° to 45° Pan: -27° to 27°
Controllable Range	Tilt: -90° to 35° Pan: Not controllable
Max Control Speed (tilt)	100°/s
Angular Vibration Range	±0.007°

Sensing

Sensing System	Omnidirectional binocular vision system, supplemented with an infrared sensor at the bottom of the aircraft
Forward	Measurement Range: 0.5-20 m Detection Range: 0.5-200 m Effective Sensing Speed: Flight Speed ≤ 15m/s FOV: Horizontal 90°, Vertical 103°
Backward	Measurement Range: 0.5-16 m Effective Sensing Speed: Flight Speed ≤ 12m/s FOV: Horizontal 90°, Vertical 103°
Lateral	Measurement Range: 0.5-25 m Effective Sensing Speed: Flight Speed ≤ 15m/s FOV: Horizontal 90°, Vertical 85°
Upward	Measurement Range: 0.2-10 m Effective Sensing Speed: Flight Speed ≤ 6m/s FOV: Front and Back 100°, Left and Right 90°

Downward	Measurement Range: 0.3-18 m Effective Sensing Speed: Flight Speed $\leq$ 6m/s FOV: Front and Back 130°, Left and Right 160°
Operating Environment	Forward, Backward, Left, Right, and Upward: Surface with a clear pattern and adequate lighting (lux>15) Downward: Diffuse reflective surface with diffuse reflectivity>20% (e.g., wall, tree, person) and adequate lighting (lux>15)

Video Transmission

Video Transmission System	DJI O3 Enterprise Transmission
Live View Quality	Remote Controller: 1080p@30fps
Operation Frequency	2.400-2.4835 GHz 5.725-5.850 GHz
Max Transmission Distance (unobstructed, free of interference)	FCC: 15 km CE: 8 km SRRC: 8 km MIC: 8 km
Max Transmission Distance (Obstructed)	Strong Interference (dense buildings, residential areas, etc.): 1.5-3 km (FCC/CE/SRRC/MIC) Medium Interference (suburban areas, city parks, etc.): 3-9 km (FCC), 3-6 km (CE/SRRC/MIC) Low Interference (open spaces, remote areas, etc.): 9-15 km (FCC), 6-8 km (CE/SRRC/MIC)
Max Download Speed	15MB/s
Latency (depending on environmental conditions and mobile device)	Approx. 200 ms
Antenna	4 antennas, 2T4R

Transmitter Power (EIRP)	2.4 GHz: ≤33 dBm (FCC); ≤20 dBm (CE/SRRC/MIC) 5.8 GHz: ≤33 dBm (FCC), ≤30 dBm(SRRC), ≤14 dBm(CE)
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RC Pro Enterprise

Video Transmission System	Enterprise Transmission
Max Transmission Distance (unobstructed, free of interference)	FCC: 15 km CE / SRRC / MIC: 8 km
Video Transmission Operating Frequency	2.400-2.4835 GHz 5.725-5.850 GHz
Antenna	4 antennas, 2T4R
Video Transmission Transmitter Power (EIRP)	2.4 GHz: ≤33 dBm (FCC); ≤20 dBm (CE/SRRC/MIC) 5.8 GHz: ≤33 dBm (FCC), ≤14 dBm(CE), ≤23 dBm(SRRC)
Max Download Speed	15MB/s (with RC Pro Enterprise)
Wi-Fi Protocol	802.11 a/b/g/n/ac/ax Support 2×2 MIMO Wi-Fi
Wi-Fi Operating Frequency	2.400-2.4835 GHz 5.150-5.250 GHz 5.725-5.850 GHz
Wi-Fi Transmitter Power (EIRP)	2.4 GHz: <26 dBm (FCC), <20 dBm (CE/SRRC/MIC) 5.1 GHz: <26 dBm (FCC), <23 dBm (CE/SRRC/MIC) 5.8 GHz: <26 dBm (FCC/SRRC), <14 dBm (CE)
Bluetooth Protocol	Bluetooth 5.1
Bluetooth Operating Frequency	2.400-2.4835 GHz
Bluetooth Transmitter Power (EIRP)	< 10 dBm
Screen Resolution	1920×1080

Screen Size	5.5 inches
Screen	60 fps
Brightness	1,000 nits
Touchscreen Control	10-point multi-touch
Battery	Li-ion (5000 mAh @ 7.2 V)
Charging Type	Recommended to be charged with the included DJI USB-C Power Adapter (100W) or USB charger at 12 V or 15 V
Rated Power	12 W
Storage Capacity	Internal Storage (ROM): 64 GB Supports a microSD card for expanded capacity.
Charging Time	Approx. 1 hour 30 minutes (with the included DJI USB-C Power Adapter (100W) only charging the remote controller or a USB charger at 15 V) Approx. 2 hours (with a USB charger at 12 V) Approx. 2 hours 50 minutes (with the included DJI USB-C Power Adapter (100W) charging the aircraft and remote controller simultaneously)
Operating Time	Approx. 3 hours
Video Output Port	Mini-HDMI port
Operating Temperature Range	-10° to 40° C (14° to 104° F)
Storage Temperature	-30° to 60° C (-22° to 140° F) (within one month) -30° to 45° C (-22° to 113° F) (one to three months) -30° to 35° C (-22° to 95° F) (three to six months) -30° to 25° C (-22° to 77° F) (more than six months)
Charging Temperature	5° to 40° C (41° to 104° F)
Supported Aircraft	Mavic 3E Mavic 3T
GNSS	GPS + Galileo + GLONASS

Dimensions	Antennas folded and controller sticks unmounted: 183.27×137.41×47.6 mm (L×W×H) Antennas unfolded and controller sticks mounted: 183.27×203.35×59.84 mm (L×W×H)
Weight	Approx. 680 g
Model	RM510B

Battery

Capacity	5000 mAh
Standard Voltage	15.4 V
Max Charging Voltage	17.6 V
Type	LiPo 4S
Chemical System	LiCoO2
Energy	77 Wh
Weight	335.5 g
Charging Temperature	5° to 40° C (41° to 104° F)

Charger

Input	100-240 V AC, 50-60 Hz, 2.5 A
Output Power	100 W
Output	Max. 100 W (total) When both ports are used, the maximum output power of each interface is 82 W, and the charger will dynamically allocate the output power of the two ports according to the load power.

Charging Hub

Input	USB-C: 5-20 V, 5.0 A
Output	Battery Port: 12-17.6 V, 8.0 A
Rated Power	100 W
Charging Type	Three batteries charged in sequence.
Charging Temperature Range	5° to 40° C (41° to 104° F)

RTK Module

Dimensions	50.2 x 40.2 x 66.2 mm (LxWxH)
Weight	24 ±2 g
Interface	USB-C
Power	Approx. 1.2 W
RTK Positioning Accuracy	RTK Fix: Horizontal: 1 cm + 1 ppm; Vertical: 1.5 cm + 1 ppm

Storage

Supported Memory Cards	Aircraft: U3/Class10/V30 or above is required. A list of recommended microSD cards can be found below.
Recommended microSD Cards	Remote Controller: SanDisk Extreme PRO 64GB V30 A2 microSDXC SanDisk High Endurance 64GB V30 microSDXC SanDisk Extreme 128GB V30 A2 microSDXC SanDisk Extreme 256GB V30 A2 microSDXC SanDisk Extreme 512GB V30 A2 microSDXC Lexar 667x 64GB V30 A2 microSDXC Lexar High-Endurance 64GB V30 microSDXC Lexar High-Endurance 128GB V30 microSDXC

	Lexar 667x 256GB V30 A2 microSDXC
	Lexar 512GB V30 A2 microSDXC
	Samsung EVO Plus 64GB V30 microSDXC
	Samsung EVO Plus 128GB V30 microSDXC
	Samsung EVO Plus 256GB V30 microSDXC
	Samsung EVO Plus 512GB V30 microSDXC
	Kingston Canvas Go! Plus 128GB V30 A2 microSDXC
	Kingston Canvas React Plus 128GB V90 A1 microSDXC
	Aircraft:
	SanDisk Extreme 32GB V30 A1 microSDHC
	SanDisk Extreme PRO 32GB V30 A1 microSDHC
	SanDisk Extreme 512GB V30 A2 microSDXC
	Lexar 1066x 64GB V30 A2 microSDXC
	Kingston Canvas Go! Plus 64GB V30 A2 microSDXC
	Kingston Canvas React Plus 64GB V90 A1 microSDXC
	Kingston Canvas Go! Plus 128GB V30 A2 microSDXC
	Kingston Canvas React Plus 128GB V90 A1 microSDXC
	Kingston Canvas React Plus 256GB V90 A2 microSDXC
	Samsung PRO Plus 256GB V30 A2 microSDXC

RTK Module For Survey drone

RTK Module compatible with aircraft. It provides centimeter-level precision positioning when used with the Network RTK service, Custom Network RTK service, or RTK Mobile Station.

RTK Module × 1

Specifications

Dimensions: 50.2×40.2×66.2 mm (L×W×H)

Weight: 24±2 g

Interface: USB-C

Rated Power: Approx. 1.2 W

RTK Positioning Accuracy: RTK fix: Horizontal: 1 cm + 1 ppm; Vertical: 1.5 cm + 1 ppm

System and Frequency Points:

GPS: L1C/A L2C/L2P

BDS: B1I B2I

GLO: G1 G2

GAL: E1 E5b

QZSS: L1 L2

