HSC SYSTEMS
FOR A SAFER WORLD
حاضر لأنظمة الأمن والإتصالات ذ.م.م

DJI ENTERPRISE

DOCK 2

Easy Operation, Superior Results
Dock 2 is lightweight, offers high-level operation capabilities, and has cloud-based intelligent functions that bring efficiency and quality to automatic operations.

GENERAL

Weight: 34 kg (without aircraft)

Dimensions: Open 1228×583×412 mm (L×W×H)
Closed 570×583×465 mm (L×W×H)

Ingress Protection Rating: IP55

Max Operating Altitude: 4000 m

Positioning Accuracy Horizontal: 1 cm + 1 ppm (RMS)
of RTK Base Station: Vertical: 2 cm + 1 ppm (RMS)

Operating Temperature: -25° to 45° C

Input Voltage: 100-240V (AC), 50/60 Hz
Input Power: Max 1000 W

Number of Drones Accommodated: 1

Max Allowable Landing Wind Speed: 8 m/s

Receiving Frequency of RTK Base Station Satellite:
Simultaneously receive: GPS- L1 C/A, L2 | BeiDou2- B1I, B2I, B3I | BeiDou3- B1I, B3I | GLONASS- L1, L2 | Galileo- E1, E5B

CHARGING PERFORMANCE

Video Transmission System: O3 Enterprise

Antenna: Built-in 4 antennas, 2T4R,
supports intelligent switching

Operating Frequency: 2.4000-2.4835 GHz
5.725-5.850 GHz

Transmitter Power (EIRP):
2.4 GHz: < 33 dBm (FCC); < 33 dBm (FCC); < 20 dBm (CE/SRRC/MIC)
5.8 GHz: < 33 dBm (FCC); < 14 dBm (CE); < 23 dBm (SRRC)

AIR CONDITIONING SYSTEM

Operating Voltage: 28 V DC

Air Conditioning Type: TEC Air Conditioning

BACKUP BATTERY

Battery Capacity: 12 Ah

Output Voltage: 12 V

Battery Type: Lead-acid battery

Battery Life: > 5 hours

NETWORK ACCESS

Ethernet Access: 10/100/1000Mbps adaptive Ethernet port

SENSOR

Wind Speed Sensor: Supported

Rainfall Sensor: Supported

Ambient Temperature Sensor: Supported

Water Immersion Sensor: Supported

In-Cabin Temperature Sensor: Supported

In-Cabin Humidity Sensor: Supported

SECURITY CAMERA (External)

Resolution: 1920×1080

Field of View (FOV): 151°

Auxiliary Light: Auxiliary White Light

SECURITY CAMERA (Internal)

Resolution: 1920×1080

Field of View (FOV): 151°

Auxiliary Light: Auxiliary White Light

LIGHTNING PROTECTION

AC Power Port: 20 kA (rated value) - Meets EN 61643-11 Type 2 and IEC 61643-1 Class || protection level requirements

Ethernet Port: 10 kA (total) - Meets EN/IEC 61643-21 Category C protection level requirements

SUPPORTED SOFTWARE

Applications: DJI Pilot 2 (connects to DJI Dock 2 via DJI RC Pro Enterprise for deployment and commissioning)

Cloud Platform: DJI FlightHub 2 (supported by default)
Third-party cloud platforms (accessed through DJI Cloud API)

EXPANSION CAPABILITY

Open Protocol: DJI Cloud API

Edge Computing: Supports data communication with external switches

AIRCRAFT

GENERAL

Weight: 1410 g

Dimensions: without propellers 335×398×153 mm (LXWXH)

Max Take-off Weight: 1610 g

Max Take-off Altitude: 4000 m

Wheelbase:
Diagonal Wheelbase: 463.2mm
Left-Right Wheelbase: 359.9 mm
Front-Rear Wheelbase: 291.4 mm

Max Wind Speed Resistance: During Operation: 12 m/s
During Take-off/Landing: 8 m/s

Max Ascent Speed: 6 m/s (Normal Mode)
8 m/s (Sport Mode)

Max Descent Speed: 6 m/s (Normal Mode)

Max Horizontal Speed (at sea level, no wind):
Normal Mode, With Obstacle Sensing Enabled: 15 m/s flying forward, 12 m/s flying backward, 10 m/s flying sideways
Sport Mode: 21 m/s flying forward, 18 m/s flying backward, 16 m/s flying sideways

Max Flight Time: 50 minutes

Max Pitch Angle: 25° (Normal Mode)
25° (Sport Mode)

Max Hovering Time: 40 minutes

Max Flight Distance: 43 km

Max Angular Velocity: 250°/s

Hovering Accuracy Range:
Vertical
±0.1 m (with vision positioning)
±0.5 m (with GNSS positioning)
±0.1 m (with RTK positioning)

Horizontal
±0.3 m (with vision positioning)
±0.5 m (with GNSS positioning)
±0.1 m (with RTK positioning

Global Navigation Satellite System: GPS + Galileo + BeiDou + GLONASS
(GLONASS is supported only when the RTK module is enabled.)

Operating Temperature: -20° to 45° C

Ingress Protection Rating: IP54

Motor Model: 2607

Propeller Model: 1149, foldable, non-quick release

RTK Module: Integrated on the aircraft

Beacon: Integrated on the aircraft

WIDE-ANGLE CAMERA

		DJI Matrice 3D	DJI Matrice 3TD
Image Sensor:		4/3 CMOS Effective Pixels: 20 MP	1/1.32-inch CMOS
Lens:	FOV:	84°	82°
	Format Equivalent:	24 mm	24 mm
	Aperture:	f/2.8-f/11	f/1.7
	Focus:	1 m to ∞	1 m to ∞
Lens Defogging:		Supported by wide-angle camera	Supported by wide-angle camera
	ISO Range:	100-6400	100-25600
	Shutter Speed:	Electronic Shutter: 8-1/8000 s	8-1/8000 s
	Max Image Size:	5280×3956	8064×6048
	Still Photography Modes:		
	Single:	12 MP	12 MP
	Timed:	12 MP, 0.7/1/2/3/5/7/10/15/20/30/60 s	12 MP/48 MP, 0.7/1/2/3/5/7/10/15/20/30/60 s
	Smart Low-Light:	12 MP	12 MP
	Video Resolution:	H.264 4K: 3840×2160 @30fps FHD: 1920×1080 @30fps	H.264 4K: 3840×2160 @30fps FHD: 1920×1080 @30fps
	Video Resolution:	4K: 130 Mbps FHD: 70 Mbps	4K: 85 Mbps FHD: 30 Mbps
	Digital Zoom:	8x (56x hybrid zoom)	8x (56x hybrid zoom)

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DJI ENTERPRISE

INFRARED CAMERA

(DJI Matrice 3TD only)

Thermal Imager: Uncooled VOx Microbolometer

Frame Rate: 30 Hz

Lens: FOV: 61°

Format Equivalent: 40 mm

Aperture: f/1.0

Pixel Pitch: 12 µm

Sensitivity: ≤ 50 mK @F1.0

Temperature Measurement Method:

Spot & Area Measurement : 40 mm

Temperature Measurement Range:

20° to 150° C (High Gain Mode)

0° to 500° C (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 Format: MP4 (MPEG-4 AVC/H.264)

Video Bitrate: 6 Mbps

Video Resolution:

Normal Mode: 640×512@30fps

UHR Infrared Image Mode: 1280×1024@30fps

Digital Zoom: 28x

Still Photography Modes:

Single

Normal Mode: 640×512

UHR Infrared Image Mode: 1280×1024

Infrared Wavelength: 8-14 µm

Timed

Normal Mode: 640×512,
0.7/1/2/3/5/7/10/15/20/30/60 s

UHR Infrared Image Mode:
1280×1024, 0.7/1/2/3/5/7/10/15/20/30/60 s

Infrared Temp Measurement Accuracy:

±2° C or ±2% (using the larger value)

GIMBAL

Stabilization: 3-axis mechanical gimbal (tilt, roll, pan)

Max Control Speed (tilt): 100°/s

Controllable Range: Tilt: -90° to +35°

Pan: Not controllable

Mechanical Range: Tilt: -135° to +45°
Roll: -45° to +45°
Pan: -27° to +27°

SENSING: Sensing Type: The aircraft supports six-directional obstacle sensing

Operating Environment: Forward, Backward, Left, Right, and Upward: Surfaces with discernible patterns and adequate lighting (lux > 15) Downward: Diffuse reflective surface with diffuse reflectivity > 20% (e.g. walls, trees, people) and adequate lighting (lux > 15)

Forward: Measurement Range: 0.5-21 m
Detection Range: 0.5-200 m
Effective Sensing Speed: Flight Speed ≤ 15 m/s
FOV: Horizontal 90°, Vertical 90°

Lateral: Measurement Range: 0.5-15 m
Effective Sensing Speed: Flight Speed ≤ 10 m/s
FOV: Horizontal 104°, Vertical 90°

Downward: Measurement Range: 0.5-14 m
Effective Sensing Speed: Flight Speed ≤ 6 m/s
FOV: Horizontal 95°, Vertical 110°

Backward: Measurement Range: 0.5-23 m
Effective Sensing Speed: Flight Speed ≤ 12 m/s
FOV: Horizontal 90°, Vertical 90°

Upwards: Measurement Range: 0.5-21 m
Effective Sensing Speed: Flight Speed ≤ 6 m/s
FOV: Horizontal 90°, Vertical 90°

VIDEO TRANSMISSION

Video Transmission System: DJI O3 Enterprise Transmission

Live View Quality:
720p/30fps, 1080p/30fps (with DJI RC Pro Enterprise)
540p/30fps, 720p/30fps, 1080p/30fps (with DJI FlightHub 2)

Operating Frequency: 2.4000-2.4835 GHz
5.150-5.250 GHz (CE: 5.170-5.250 GHz)
5.725-5.850 GHz

Max Transmission Distance: (unobstructed, free of interference)
FCC: 15 km
CE: 8 km
SRRC: 8 km

Max Download Speed: 5 MB/s (with DJI Dock 2)
15 MB/s (with DJI RC Pro Enterprise)

Lowest Latency:
The video transmission latency from the aircraft to the dock is approximately 110 to 150 milliseconds (affected by the actual environmental conditions)

The video transmission latency from the dock to DJI FlightHub 2 is affected by the actual network Conditions and the computer's configuration.

Transmitter Power (EIRP): 2.4 GHz: < 33 dBm (FCC), < 20 dBm (CE/SRRC/MIC)

5.1 GHz: < 23 dBm (CE)
5.8 GHz: < 33 dBm (FCC/SRRC), < 14 dBm (CE)

Antenna: 4 antennas, 2T4R

STORAGE

Supported Memory Cards: U3/Class10/V30 or above is supported.
Recommended microSD Cards: 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

BATTERY

Capacity: 7811 mAh
Max Charging Voltage: 17.0 V
Chemical System: LiNiMnCoO2
Weight: 544 g
Charging Temperature: 5° to 45° C

Voltage: 14.76 V
Type: Li-ion 4S
Energy: 115.2 Wh
Cycle Count: 400

POWER ADAPTER

Input: 100-240 V (AC), 50/60 Hz, 2.5 A

Output: Max output power of 100 W (total)

Output Power: 100 W

CHARGING BASE

Input: USB-C: 5-20 V, 5.0 A

Rated Power: 100 W

Charging Temperature: 5° to 40° C

Output: Battery Port: 12-17 V, 8.0 A

Charging Type: One battery charged at a time