



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.

DOCK

GENERAL

Weight:	34 kg (without aircraft)	Operating Temperature:	-25° to 45° C
Dimensions:	Open 1228x583x412 mm (LxWxH) Closed 570x583x465 mm (LxWxH)	Input Voltage:	100-240V (AC), 50/60 Hz
Ingress Protection Rating:	IP55	Input Power:	Max 1000 W
Max Operating Altitude:	4000 m	Number of Drones Accommodated:	1
Positioning Accuracy of RTK Base Station:	Horizontal: 1 cm + 1 ppm (RMS) Vertical: 2 cm + 1 ppm (RMS)	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); < 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
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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
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OPTRON (Pty) Ltd

Tel: +27 12 683 4500
Email: info@optron.com
Website: www.optron.com

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Ambient Temperature Sensor: Supported
In-Cabin Temperature Sensor: Supported

Water Immersion 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 II 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	Max Take-off Weight:	1610 g
Dimensions:	without propellers 335×398×153 mm (LXWXH)	Max Take-off Altitude:	4000 m
Wheelbase:	Diagonal Wheelbase: 463.2 mm 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) 6 m/s (Sport 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 Hovering Time:	40 minutes
Max Pitch Angle:	25° (Normal Mode) 25° (Sport Mode)	Max Flight Distance:	43 km
		Max Angular Velocity:	250°/s

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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 Effective Pixels: 48 MP
Lens:	FOV: 84° Format Equivalent: 24 mm Aperture: f/2.8-f/11 Focus: 1 m to ∞	FOV: 82° Format Equivalent: 24 mm Aperture: f/1.7 Focus: 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 Mechanical Shutter: 8-1/2000 s	Electronic Shutter: 8-1/8000 s
Max Image Size:	5280×3956	8064×6048
Still Photography Modes:		
Single:	20 MP	Single: 12 MP, 48 MP
Timed:	20 MP, 0.7/1/2/3/5/7/10/15/20/30/60 s	Timed: 12 MP/48 MP, 0.7/1/2/3/5/7/10/15/20/30/60 s
Smart Low-Light:	20 MP	Smart Low-Light: 12 MP
Panorama:	20 MP (raw image) 100 MP (stitched image)	Panorama: 12 MP (raw image) 100 MP (stitched image)
Video Resolution:	H.264 4K: 3840×2160 @30fps FHD: 1920×1080 @30fps	H.264 4K: 3840×2160 @30fps FHD: 1920×1080 @30fps
Video Bitrate:	4K: 130 Mbps FHD: 70 Mbps	4K: 85 Mbps FHD: 30 Mbps
Supported File System:	exFAT	exFAT
Photo Format:	JPEG	JPEG
Video Format:	MP4 (MPEG-4 AVC/H.264)	MP4 (MPEG-4 AVC/H.264)

WIDE-ANGLE CAMERA

	DJI Matrice 3D	DJI Matrice 3TD
Image Sensor:	1/2-inch CMOS Effective Pixels: 12 MP	1/2-inch CMOS Effective Pixels: 12 MP

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Lens:	FOV: 15° Format Equivalent: 162 mm Aperture: f/4.4 Focus: 3 m to ∞	FOV: 15° Format Equivalent: 162 mm Aperture: f/4.4 Focus: 3 m to ∞
Lens Defogging:	Supported by tele camera	Supported by tele camera
ISO Range:	100-6400	100-25600
Shutter Speed:	Electronic Shutter: 8-1/8000 s	Electronic Shutter: 8-1/8000 s
Max Image Size:	4000×3000	4000×3000
Photo Format:	JPEG	JPEG
Video Format:	MP4 (MPEG-4 AVC/H.264)	MP4 (MPEG-4 AVC/H.264)
Still Photography Modes:		
Single:	12 MP	Single: 12 MP
Timed:	12 MP, 0.7/1/2/3/5/7/10/15/20/30/60 s	Timed: 12 MP/48 MP, 0.7/1/2/3/5/7/10/15/20/30/60 s
Smart Low-Light:	12 MP	Smart Low-Light: 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)

INFRARED CAMERA

(DJI Matrice 3TD only)

Thermal Imager:	Uncooled VOx Microbolometer	Pixel Pitch:	12 μm
Frame Rate:	30 Hz	Sensitivity:	≤ 50 mK @F1.0
Lens:	FOV: 61° Format Equivalent: 40 mm Aperture: f/1.0 Focus: 5 m to ∞	Temperature Measurement Method:	Spot & Area Measurement
		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 Resolution:	Normal Mode: 640×512@30fps
Video Format:	MP4 (MPEG-4 AVC/H.264)		UHR Infrared Image Mode: 1280×1024@30fps
Video Bitrate:	6 Mbps	Digital Zoom:	28x
Still Photography Modes:			
Single		Timed	
Normal Mode: 640×512		Normal Mode: 640×512, 0.7/1/2/3/5/7/10/15/20/30/60 s	
UHR Infrared Image Mode: 1280×1024		UHR Infrared Image Mode: 1280×1024, 0.7/1/2/3/5/7/10/15/20/30/60 s	
Infrared Wavelength:	8-14 μm	Infrared Temp Measurement Accuracy:	±2° C or ±2% (using the larger value)

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GIMBAL

Stabilization:	3-axis mechanical gimbal (tilt, roll, pan)	Max Control Speed (tilt):	100°/s
Mechanical Range:	Tilt: -135° to +45° Roll: -45° to +45° Pan: -27° to +27°	Controllable Range:	Tilt: -90° to +35° Pan: Not controllable
Angular Vibration Range:	±0.005°		

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°	Backward:	Measurement Range: 0.5-23 m Effective Sensing Speed: Flight Speed ≤ 12 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°	Upwards:	Measurement Range: 0.5-21 m Effective Sensing Speed: Flight Speed ≤ 6 m/s FOV: Horizontal 90°, Vertical 90°
Downward:	Measurement Range: 0.5-14 m Effective Sensing Speed: Flight Speed ≤ 6 m/s FOV: Horizontal 95°, Vertical 110°		

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
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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)
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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

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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	Voltage:	14.76 V
Max Charging Voltage:	17.0 V	Type:	Li-ion 4S
Chemical System:	LiNiMnCoO ₂	Energy:	115.2 Wh
Weight:	544 g	Cycle Count:	400
Charging Temperature:	5° to 45° C		

POWER ADAPTER

Input:	100-240 V (AC), 50/60 Hz, 2.5 A	Output Power:	100 W
Output:	Max output power of 100 W (total)		

CHARGING BASE

Input:	USB-C: 5-20 V, 5.0 A	Output:	Battery Port: 12-17 V, 8.0 A
Rated Power:	100 W	Charging Type:	One battery charged at a time
Charging Temperature:	5° to 40° C		

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