MATRICE 4 Series

The Age of Intelligent Flight

DJI's latest compact, intelligent multi-sensor flagship drone series for enterprise industries. The series includes the Matrice 4T and Matrice 4E, each equipped with advanced features including smart detection and measurement with laser range finder.

AIRCRAFT

Dimensions:	260.6×113.7×138.4 mm (Folded) ; 307.0×387.5×149.5 mm (Unfolded, propellers excluded)		
Max. Take-off Weight:	1420 g (Standard propellers) ; 1430 g (Low-Noise propellers)		

Propeller size:	27,4 cm	**Max Altitude:**	6000 m ; 4000 m (with payload)
Max Payload:	200 g	**Max Horizontal Speed:**	21 m/s forward
Max Ascent Speed:	10 m/s ; 6 m/s (with accessories)		18 m/s backward
Max Decent Speed:	8 m/s ; 6 m/s (with accessories)		19 m/s sideways
Diagonal Wheelbase:	438.8 mm	**Max Wind Speed Resistance:**	12 m/s
Max Flight Time:	49 min (standard propellers)	**Max Hover Time:**	42 min (standard propellers)
	46 min (low-noise propellers)		39 min (low-noise propellers)
Max Pitch Angle:	35°	**Operating Temperature:**	-10℃ to 40℃
GNSS:	GPS;Galileo;BeiDou;GLONASS	**Hovering Accuracy Range:**	±0.1 m (with Vision System)
RTK GNSS Accuracy:	Hor: 1 cm + 1 ppm		±0.5 m (with GNSS)
	Vert: 1.5 cm + 1 ppm (vertical)		±0.1 m (with RTK)
Propeller Model:	1157F (standard propellers)	**Beacon:**	Built into the aircraft
	1154F (low noise propeller)		

Ports:
E-Port interface × 1: Supports official accessories and third-party PSDK devices (hot-swapping is not supported)
E-Port Lite interface × 1: supports USB connection to DJI tuning software and some third-party PSDK devices.

CAMERA

Image Sensor	DJI Matrice 4T	Wide:	1/1.3-inch CMOS, Effective Pixels: 48 MP
		Medium Tele Camera:	1/1.3-inch CMOS, Effective Pixels: 48 MP
		Telephoto:	1/1.5-inch CMOS, Effective Pixels: 48 MP
	DJI Matrice 4E	Wide:	4/3-inch CMOS Effective Pixels: 20 MP
		Medium Tele Camera:	1/1.3-inch CMOS, Effective Pixels: 48 MP
		Telephoto:	1/1.5-inch CMOS, Effective Pixels: 48 MP
Lens	DJI Matrice 4T:	FOV:	82°
		Equivalent Focal Length:	24 mm
		Aperture:	f/1.7
		Focus:	1 m to ∞

	DJI Matrice 4E:	FOV:	84°
		Equivalent Focal Length:	24 mm
		Aperture:	f/2.8-f/11
		Focus:	1 m to ∞
	- Medium Tele Camera:	FOV:	35°
		Equivalent Focal Length:	70 mm
		Aperture:	f/2.8
		Focus:	3 m to ∞
	- Tele Camera:	FOV:	35°
		Equivalent Focal Length:	70 mm
		Aperture:	f/2.8
		Focus:	3m to ∞

ISO Range	Normal Mode:	ISO 100 to ISO 25600	
	Night Scene Mode:	DJI Matrice 4T	DJI Matrice 4E
	- Wide Camera:	ISO 100 to ISO 409600	ISO 100 to ISO 204800
	- Medium Tele Camera:	ISO 100 to ISO 409600	ISO 100 to ISO 409600
	- Tele Camera:	ISO 100 to ISO 819200	ISO 100 to ISO 409600

Shutter Speed	DJI Matrice 4T:	2-1/8000 s	
	DJI Matrice 4E:	Electronic Shutter:	2-1/8000 s
	(Wide Camera)	Mechanical Shutter:	2-1/2000 s
		Medium Telephoto:	2-1/8000 s
		Telephoto:	2-1/8000 s

Max Photo Size		DJI Matrice 4T	DJI Matrice 4E
	- Wide:	8064 × 6048	5280 × 3956
	- Medium Telephoto:	8064 × 6048	8064 × 6048
	- Telephoto:	8192 × 6144	8192 × 6144

Minimum Photo Interval	0.7 s	0.5 s

Still Photography Modes		DJI Matrice 4T	DJI Matrice 4E
	- Single:	12 MP/48 MP	20MP
	- Interval:	12 MP/48 MP	20MP
	- JPEG:	0.7/1/2/3/5/7/10/ 15/20/30/60 s	0.5/0.7/1/2/3/5/7/10/ 15/20/30/60 s
	- Smart Shooting:	12MP	20MP
	- Panorama:	12 MP (raw image) 100 MP (stitched image)	20 MP (raw image) 100 MP (stitched image)

Medium Tele Camera

	- Single:	12 MP and 48 MP	12 MP and 48 MP
	- Interval:	12 MP/48 MP	12 MP/48 MP
	- JPEG:	0.7/1/2/3/5/7/10/ 15/20/30/60 s	0.5/0.7/1/2/3/5/7/10/ 15/20/30/60 s
	- Smart Shooting:	12MP	12 MP

Telephoto

	- Single:	12 MP and 48 MP	12 MP and 48 MP
	- Interval:	12 MP/48 MP	12 MP/48 MP
	- JPEG:	0.7/1/2/3/5/7/10/ 15/20/30/60 s	0.5/0.7/1/2/3/5/7/10/ 15/20/30/60 s
	- Smart Shooting:	12MP	12 MP

Video Codec and Resolution:	Video Coding Format:	H.264/H.265	Max Video Bitrate:	H.264: 60Mbps
	Coding Strategy:	CBR, VBR		H.265: 40Mbps
	Resolution:	4K: 3840 × 2160@30fps		
	FHD:	1920 × 1080@30fps	Supported File System: exFAT	

Photo Format:	DJI Matrice 4T		DJI Matrice 4E	
	JPEG		Wide:	JPEG/DNG (RAW)
			Medium Tele Camera:	JPEG
			Telephoto:	JPEG
Video Format:	MP4 (MPEG-4 AVC/H.264)		Digital Zoom	
			Telephoto:	16x (112x hybrid zoom)

NIR AUXILIARY LIGHT

Infrared Illumination:	DJI Matrice 4T : FOV: 5.7°±0.3°

LASER MODULE

Laser Rangefinding

Measurement Range:	1800 m (1 Hz) @20% reflectivity target*
Oblique Incidence Range (1 : 5 Oblique Distance):	600 m (1 Hz)
Blind Zone:	1 m
Distance Measurement Accuracy:	1-3 m: System Error <0.3 m, Random Error <0.1 meters @1σ
Other Distances:	±(0.2+0.0015D) (D represents the measurement distance in meters)

INFRARED THERMAL CAMERA (DJI Matrice 4T only)

Thermal Imager: Uncooled vanadium oxide (VOx)

Lens :	DFOV:	45°±0.3°	**Resolution:**	640 × 512
	Equivalent focal length:	53 mm	**Pixel Pitch:**	12 μm
	Aperture:	f/1.0	**Frame Rate:**	30 Hz
	Focus:	5 m to ∞	**Sensitivity:**	≤50mk@F1.0

Temperature Measurement Method: Spot Meter, Area Measurement

Temperature Measurement Range	High Gain Mode: -20℃ to 150 ℃	Low Gain Mode: 0℃ to 550 ℃

Palette:	White Hot/Black Hot/Tint/Iron Red/Hot Iron/Arctic/Medical/Fulgurite/Rainbow 1/Rainbow 2

Photo Format:	JPEG (8bit) ; R-JPEG (16bit)

Video Resolution:	1280 × 1024@30fps (Super Resolution enabled, Night Mode not activated)
	Other conditions: 640 × 512@30fps

Video Bitrate:	6.5Mbps (H.264 640 × 512@30fps)
	5Mbps (H.265 640 × 512@30fps)
	12Mbps (H.264 1280 × 1024@30fps)
	8Mbps (H.265 1280 × 1024@30fps)

Video Format :	MP4	**Digital Zoom :**	28x

Still Photography Modes		**Photo Resolution (Infrared):**	1280 × 1024 (Super Resolution on)
- Single:	1280 × 1024/640 × 512		640 × 512 (Super Resolution off)
- Interval:	1280 × 1024/640 × 512		
- JPEG:	0.7/1/2/3/5/7/10/15/20/30/60 s	**Infrared Wavelength :**	8um to 14um

Infrared Temperature Measurement Accuracy:	High Gain:	±2℃ or ±2%, whichever is greater
	Low Gain:	±5℃ or ±3%, whichever is greater

GIMBAL

Stabilization System	DJI Matrice 4T	DJI Matrice 4E
	3-axis (tilt, roll, pan)	3-axis (tilt, roll, pan)

Mechanical Range	DJI Matrice 4T	DJI Matrice 4E
Gimbal Mechanical Limits:		
Tilt:	-140° to 113°	-140° to 50°
Roll:	-52° to 52°	-52° to 52°
Pan:	-65° to 65°	-65° to 65°
Soft Limits:		
Tilt:	-90° to 35°	-90° to 35°
Roll:	-47° to 47°	-47° to 47°
Pan:	-60° to 60°	-60° to 60°

Controllable Rotation Range	DJI Matrice 4T	DJI Matrice 4E
Tilt:	±-90° to 35°	-90° to 35°
Pan:	Not controllable	Not controllable

Max Control Speed (tilt):	100°/s	Angular Vibration Range:	±0.007°
Ingress Protection Rating:	No Standard Protection Level	Operating Temperature:	Standard: -10°C to 40°C

Yaw Axis: Manual operation is uncontrollable
The MSDK interface program is controllable

SENSING

Sensing Type: Omnidirectional binocular vision system, supplemented with a 3D infrared sensor the bottom of the aircraft.

Forward
Binocular Measurement Range:	0.4-22.5 m
Measurement Range:	0.4-200 m
Obstacle Avoidance Speed:	Flight Speed ≤21 m/s
FOV:	90° (horizontal), 135° (vertical)

Backward
Measurement Range:	0.4-22.5 m
Measurement Range:	0.4-200 m
Obstacle Avoidance Speed:	Flight Speed ≤21 m/s Field of View (FOV)-90° (horizontal), 135° (vertical)

Lateral
Measurement Range:	0.5-32 m
Measurement Range:	0.5-200 m
Obstacle Avoidance Speed:	Flight Speed ≤21 m/s
FOV:	90° (horizontal), 90° (vertical)

Downward
Measurement Range:	0.3-18.8 m
Obstacle Avoidance Speed:	Flight Speed ≤10 m/s
	The FOV to the front and rear is 160° and 160° to the right and left.

Operating Environment
Forward, Backward, Left, Right, and Upward: Delicate texture on the surface, adequate light.

Downward: The ground has rich textures and sufficient lighting conditions*, with a diffuse reflection surface and a reflectivity > 20% (eg walls, trees, people, etc.)

VIDEO TRANSMISSION

Video Transmission System:	O4 Enterprise	Operating Frequency:	2.400-2.4835 GHz
			2.400-2.4835 GHz
Live View Quality			5.725-5.850 GHz
Remote Controller:	1080p/30fps		5.150-5.250 GHz (CE)

Transmitter Power (EIRP):
2.4 GHz: ≤33 dBm (FCC), ≤20 dBm (CE/SRRC/MIC)
5.8 GHz: <33 dBm (FCC), <30 dB (SRRC) , <14 dBm (CE)
5.15-5.25: < 23 dBm (FCC/CE)

Max Transmission Distance (with interference)
Strong Interference:	City Centers (approx. 1.5-5 km)
Medium Interference:	Suburban Areas (approx. 5-15 km)
Micro interference:	Suburbs/Seasides (approx. 15-25 km)

Max Transmission Distance (unobstructed, no interference):
25 km (FCC)
12 km (CE)
12 km (SRRC)
12 km (MIC)

Max Download Speed: 100°/s
Antenna: 8 antennas, 2T4R
Other: Cellular Dongle Compartment

Latency (depending on environmental conditions and mobile device): 130 ms

MEMORY CARD

Supported SD Cards U3/Class10/V30 or above is required or use a memory card from the recommended list.

Recommended microSD Cards
Lexar 1066x 64GB U3 A2 V30 microSDXC
Lexar 1066x 128GB U3 A2 V30 microSDXC
Lexar 1066x 256GB U3 A2 V30 microSDXC
Lexar 1066x 512GB U3 A2 V30 microSDXC

Kingston Canvas GO! Plus 64GB U3 A2 V30 microSDXC
Kingston Canvas GO! Plus 128GB U3 A2 V30 microSDXC
Kingston Canvas GO! Plus 256GB U3 A2 V30 microSDXC
Kingston Canvas GO! Plus 512GB U3 A2 V30 microSDXC

INTELLIGENT FLIGHT BATTERY

Capacity: 6741 mAh
Max Charging Voltage: 17.0 V
Energy: 99.5 Wh
Recharging Temperature: 5°C to 40°C
Max Charging Power: 1.8C
Cycle Count: 200

Standard Voltage: 14.76 V
Cell Type: Li-ion 4S
Weight: 401 g
Discharge Rate: 4C
Supports low-temperature charging: Not supported

POWER ADAPTER (100W)

Input: 100-240 V (AC), 50-60 Hz, 2.5 A
Rated Power: 100 W

Output: Max. 100 W (total)

CHARGING HUB

Input: USB-C : 5-20 V, max 5A
Rated Power: 100 W

Output: Battery Interface: 11.2 V to 17 V
Charging Temperature: 5° to 40°C

Compatible Battery: DJI Matrice 4E/T Series Intelligent Flight Battery
Recharging Type: 4 batteries charging in sequence | Support Standard Mode (100% SOC) and Standby Mode (90% SOC)

DJI RC PLUS 2 ENTERPRISE

Video Transmission System: O4 Enterprise

Antenna: 2T4R, built-in multi-beam high-gain antenna

Max Transmission Distance: 25 km (FCC)
(unobstructed, free of interference) 12 km (CE)
12 km (SRRC)
12 km (MIC)

Operating Band of Image Transmission:
2.4000-2.4835 GHz
5.725 - 5.850 GHz
5.1GHz (receive only)

Video Transmission 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), <14 dBm (CE), <30 dBm (SRRC)

4G Transmission:	DJI Cellular Dongle 2		
Wi-Fi Protocol:	Wi-Fi Direct, Wireless Display, IEEE 802.11a/b/g/n/ac/ax Support 2 × 2 MIMO Wi-Fi, Dual Band Simultaneous (DBS) with dual MAC, up to 1774.5 Mbps data rate (2 × 2 + 2 × 2 11ax DBS)		
Wi-Fi Operating Band:	2.4000-2.4835 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: <23 dBm (FCC) 5.8 GHz ＜23 dBm (FCC/SRRC), ＜14 dBm (CE)		

Bluetooth Protocol:	Bluetooth 5.2	**Bluetooth Operating Frequency:**	2.400-2.4835 GHz
Bluetooth Transmitter Power (EIRP):	<10 dBm	**Screen Resolution:**	1920 × 1200
Screen Size:	7.02 inches	**Screen Frame Rate:**	60 fps
Brightness:	1400 nits	**Touchscreen Control:**	10 Points Multi-touch

Built-in Battery:	2S2P High Energy Density 18650 Lithium-ion Battery (6500 mAh @ 7.2 V) 46.8 Wh
External Battery:	Optional, WB37 (4920 mAh @ 7.6 V) 37 Wh
Recharging Type:	Supports PD fast charging, with a maximum specification of 20 V/3.25 A USB Type-C charger.
Storage Capacity:	ROM 128 G + expandable storage via microSD card
Charging Time:	2 hrs for internal battery or internal and external battery.

Internal Battery Runtime:	3.8 hrs	**External Battery Runtime:**	3.2 hrs
Output Port:	HDMI 1.4	**Speaker:**	Supports buzzer
Audio:	Array MIC	**Operating Temperature:**	-20° to 50°C

Storage Temperature		**Dimensions:**	268×163×94.5 mm (L×W×H)
Within one month:	-30° to 45° C	**Weight:**	1.15 kg (without external battery)
One to three months:	-30° to 35° C	**Model:**	TKPL 2
Three months to one year:	-30° to 30° C	**System Version:**	Android 11

Recharging Temperature:	5° to 40° C	**Accessory:**	Optional strap/waist support
Supported Aircraft Models:	Support for Matrice 4T/4E		
GNSS:	GPS, Galileo, and BeiDou triple-mode, supports dynamic Home Point refresh.		
External Interfaces:	HDMI 1.4, SD3.0, Type-C supports OTG, supports PD charging, maximum power 65W, USB-A supports USB 2.0 interface.		

AL1 SPOTLIGHT

Weight:	92.5 g (including bracket) Approx. 90 g (excluding bracket)	**Dimensions:**	73×70×52 mm (L×W×H,including bracket) 73×70×47 mm (L×W×H, without bracket)
Max. Power:	15 W	**Effective Broadcast Distance:**	300 m
Max. Volume:	At 1 meter, it can reach 114 decibels	**Operating Temperature:**	-20°C to 50°C
Weight:	99 g (including bracket) Approx. 91 g (excluding bracket)	**Dimensions:**	95×164×30 mm (L×W×H,including bracket) 79×164×28 mm (L×W×H, without bracket)
Max. Power:	32 W	**Illuminance:**	4.3±0.2 lux @ 100 meters, 17±0.2 lux @ 50m
Operating Mode:	Supports always-on and strobe modes.	**Gimbal Structural Design Range:**	Tilt: -140° to 50°

Controllable Range:	Tilt: -90° to 35°	**Max Control Speed (tilt):**	120°/s
Gimbal Alignment Accuracy:	±0.1°	**Operating Temperature:**	-20°C to 50°C
Mounting:	Quick-release hand-tightened screws	**Effective Illumination Angle:**	23° (10% relative illumination)

Effective Illumination Area: 1,300 square meters @ 100 meters (10% relative illumination, Normal Mode)
2,200 square meters @ 100 meters (10% central illuminance, Wide fov Mode)

AS1 SPEAKER

Weight:	92.5 g (including bracket) Approx. 90 g (excluding bracket)	**Dimensions:**	73×70×52 mm (L×W×H, including bracket) 73×70×47 mm (L×W×H, without bracket)
Max. Power:	15 W	**Effective Broadcast Distance:**	300 m
Max. Volume:	At 1 meter, it can reach 114 decibels (114dB@1m)	**Operating Temperature:**	-20°C to 50°C
Mounting:	Quick-release hand-tightened screws	**Operating Temperature:**	-20°C to 50°C

MATRICE 4 Series

Epoca zborului inteligent

Cea mai recentă serie de drone compacte, inteligente, multi-senzor de la DJI, destinate industriilor enterprise. Seria include Matrice 4T și Matrice 4E, fiecare echipată cu funcții avansate, inclusiv detectare și măsurare inteligentă cu telemetru laser.

AERONAVA

Dimensiuni: 260.6×113.7×138.4 mm (pliat) ; 307.0×387.5×149.5 mm (nepliat, elice incluse)
Max. Greutate de decolare: 1420 g (elice standard) ; 1430 g (elice silentioase)

Marime elice:	27,4 cm	**Altitudine Max:**	6000 m ; 4000 m (cu incarcatura)

Incarcatura maxima: 200 g   **Viteza orizontala maxima:**   21 m/s inainte
Viteza max. de ascensiune: 10 m/s ; 6 m/s (cu accesorii)   18 m/s inapoi
Viteza max. de coborare: 8 m/s ; 6 m/s (cu accesorii)   19 m/s lateral

Ampatament diagonal: 438.8 mm   **Rezistență maximă la viteza vântului:** 12 m/s

Timp max. de zbor: 49 min (elice standard)   **Tim max. de planare:** 42 min (elice standard)
                46 min (elice silentioase)   39 min (elice silentioase)

Unghiul maxim de înclinare: 35°   **Temperatura de functionare:** de la -10℃ la 40℃

GNSS: GPS;Galileo;BeiDou;GLONASS   **Interval de precizie al planării:** ±0.1 m (cu Vision System)
Acuratete RTK GNSS :   Hor: 1 cm + 1 ppm   ±0.5 m (cu GNSS)
             Vert: 1.5 cm + 1 ppm (vertical)   ±0.1 m (cu RTK)

Model elice: 1157F (elice standard)   **Lumina:**   Integrata in aparat
           1154F (elice silentioase)

Porturi:
Interfață E-Port × 1: Acceptă accesorii oficiale și dispozitive PSDK terțe (schimbarea la cald nu este acceptată)
Interfață E-Port Lite × 1: acceptă conexiune USB la software-ul de reglare DJI și la unele dispozitive PSDK terțe.

CAMERA

Senzor de imagine	DJI Matrice 4T	Wide:	1/1.3-inch CMOS, Effective Pixels: 48 MP
		Medium Tele Camera:	1/1.3-inch CMOS, Effective Pixels: 48 MP
		Telephoto:	1/1.5-inch CMOS, Effective Pixels: 48 MP
	DJI Matrice 4E	Wide:	4/3-inch CMOS Effective Pixels: 20 MP
		Medium Tele Camera:	1/1.3-inch CMOS, Effective Pixels: 48 MP
		Telephoto:	1/1.5-inch CMOS, Effective Pixels: 48 MP
Lentila	DJI Matrice 4T:	FOV:	82°
		Equivalent Focal Length:	24 mm
		Aperture:	f/1.7
		Focus:	1 m to ∞

	DJI Matrice 4E:	FOV:	84°
		Equivalent Focal Length:	24 mm
		Aperture:	f/2.8-f/11
		Focus:	1 m to ∞
	- Medium Tele Camera:	FOV:	35°
		Equivalent Focal Length:	70 mm
		Aperture:	f/2.8
		Focus:	3 m to ∞
	- Tele Camera:	FOV:	35°
		Equivalent Focal Length:	70 mm
		Aperture:	f/2.8
		Focus:	3m to ∞

Intervale ISO	Modul normal:	ISO 100 to ISO 25600	
	Modul de noapte:	DJI Matrice 4T	DJI Matrice 4E
	- Camera Wide:	ISO 100 to ISO 409600	ISO 100 to ISO 204800
	- Camera Medium Tele:	ISO 100 to ISO 409600	ISO 100 to ISO 409600
	- Camera Tele:	ISO 100 to ISO 819200	ISO 100 to ISO 409600

Viteză obturator	DJI Matrice 4T:	2-1/8000 s	
	DJI Matrice 4E:	Obturator electronic:	2-1/8000 s
	(Camera Wide)	Obturator mecanic:	2-1/2000 s
		Medium Telephoto:	2-1/8000 s
		Telephoto:	2-1/8000 s

Dimensiune maximă a fotografiei		DJI Matrice 4T	DJI Matrice 4E
	- Wide:	8064 × 6048	5280 × 3956
	- Medium Telephoto:	8064 × 6048	8064 × 6048
	- Telephoto:	8192 × 6144	8192 × 6144

| **Interval minim foto** | | 0.7 s | 0.5 s |

Moduri de fotografiere statică		DJI Matrice 4T	DJI Matrice 4E
	- Single:	12 MP/48 MP	20MP
	- Interval:	12 MP/48 MP	20MP
	- JPEG:	0.7/1/2/3/5/7/10/ 15/20/30/60 s	0.5/0.7/1/2/3/5/7/10/ 15/20/30/60 s
	- Smart Shooting:	12MP	20MP
	- Panorama:	12 MP (imagine bruta) 100 MP (imagine compusa)	20 MP (imagine bruta) 100 MP (imagine compusa)

Medium Tele Camera			
	- Single:	12 MP and 48 MP	12 MP and 48 MP
	- Interval:	12 MP/48 MP	12 MP/48 MP
	- JPEG:	0.7/1/2/3/5/7/10/ 15/20/30/60 s	0.5/0.7/1/2/3/5/7/10/ 15/20/30/60 s
	- Smart Shooting:	12MP	12 MP

Telephoto	- Single:	12 MP and 48 MP	12 MP and 48 MP
	- Interval:	12 MP/48 MP	12 MP/48 MP
	- JPEG:	0.7/1/2/3/5/7/10/ 15/20/30/60 s	0.5/0.7/1/2/3/5/7/10/ 15/20/30/60 s
	- Smart Shooting:	12MP	12 MP

Codec Video si Resolutie: FHD:1920 × 1080@30fps **Sistem de fisiere suportat:** exFAT
Formatul Video Coding: H.264/H.265 60Mbps **Rata de biti video maxima:** H.264: H.265: 40Mbps
Strategie Coding: CBR, VBR Resolutie:4K: 3840 × 2160@30fps
FHD:1920 × 1080@30fps **Sistem de fisiere suportat:** exFAT

Format Foto:	DJI Matrice 4T		DJI Matrice 4E	
	JPEG		Wide:	JPEG/DNG (RAW)
			Medium Tele Camera:	JPEG
			Telephoto:	JPEG
Format Video:	MP4 (MPEG-4 AVC/H.264)		**Zoom Digital**	
			Telephoto:	16x (112x zoom hybrid)

LUMINĂ AUXILIARĂ NIR

Iluminare în infraroșu: DJI Matrice 4T : FOV: 5.7°±0.3°

MODUL LAZER

Telemetru laser

Diapazon de masurare:	1800 m (1 Hz) @20% tinta de reflectivitate*
Interval de incidență oblic (1 : 5 Distanta Oblica):	600 m (1 Hz)
Zona oarba:	1 m
Precizia măsurării distanței:	1-3 m: System Error <0.3 m, eroare aleatorie <0.1 metri @1σ
Alte distante:	±(0.2+0.0015D) (D reprezintă distanța de măsurare în metri)

CAMERĂ TERMICĂ CU INFRAROȘU (doar pentru DJI Matrice 4T)

Senzor: Oxid de vanadiu nerăcit (VOx)

Lentila :	DFOV:	45°±0.3°	**Rezolutie:**	640 × 512
	Equivalent focal length:	53 mm	**Pixel Pitch:**	12 μm
	Apertura:	f/1.0	**Frame Rate:**	30 Hz
	Focusare:	5 m to ∞	**Sensibilitate:**	≤50mk@F1.0

Metoda de măsurare a temperaturii: Spotmetru, măsurarea suprafeței

Interval de măsurare a temperaturii	High Gain Mode: -20℃ to 150 ℃	Low Gain Mode: 0℃ to 550 ℃

Paleta: White Hot/Black Hot/Tint/Iron Red/Hot
Iron/Arctic/Medical/Fulgurite/Rainbow 1/Rainbow 2

Format foto: JPEG (8bit) ; R-JPEG (16bit)

Video Resolutie: 1280 × 1024@30fps (Super rezoluție activată, modul nocturn nu este
activat) Alte conditii: 640 × 512@30fps

Video Bitrate: 6.5Mbps (H.264 640 × 512@30fps)
5Mbps (H.265 640 × 512@30fps)
12Mbps (H.264 1280 × 1024@30fps)
8Mbps (H.265 1280 × 1024@30fps)

Format Video:	MP4	**Zoom Digital :**	28x

Moduri de fotografiere statică   **Resolutie foto (Infrarosu):** 1280 × 1024 (Super rezoluție on)

- Single:	1280 × 1024/640 × 512		640 × 512 (Super rezoluție off)
- Interval:	1280 × 1024/640 × 512		
- JPEG:	0.7/1/2/3/5/7/10/15/20/30/60 s	**Lungime de undă în infraroșu**:	8um to 14um

Precizia măsurării temperaturii în infraroșu:	High Gain:	±2℃ or ±2%, oricare este mai mare
	Low Gain:	±5℃ or ±3%, oricare este mai mare

Stabilization System	DJI Matrice 4T	DJI Matrice 4E
	3-axis (tilt, roll, pan)	3-axis (tilt, roll, pan)

Mechanical Range		DJI Matrice 4T	DJI Matrice 4E
Gimbal Mechanical Limits:			

Tilt:	-140° to 113°	-140° to 50°
Roll:	-52° to 52°	-52° to 52°
Pan:	-65° to 65°	-65° to 65°
Soft Limits:		
Tilt:	-90° to 35°	-90° to 35°
Roll:	-47° to 47°	-47° to 47°
Pan:	-60° to 60°	-60° to 60°

Controllable Rotation Range	DJI Matrice 4T	DJI Matrice 4E
Tilt:	±-90° to 35°	-90° to 35°
Pan:	Not controllable	Not controllable

Max Control Speed (tilt):	100°/s	**Angular Vibration Range:**	±0.007°
Ingress Protection Rating:	No Standard Protection Level	**Operating Temperature:**	Standard: -10°C to 40°C

Yaw Axis: Manual operation is uncontrollable
The MSDK interface program is controllable

DETECȚIE

Tip de detectare: Sistem de vedere binoculară omnidirecțională, suplimentat cu un senzor infraroșu 3D în partea de jos a aeronavei.

Înainte
Interval de măsurare binoculară:	0.4-22.5 m
Interval de măsurare:	0.4-200 m
Viteza de evitare a obstacolelor:	Viteza de zbor ≤21 m/s
View FOV:	90° (horizontal), 135° (vertical)

Înapoi
Interval de măsurare:	0.4-22.5 m
Interval de măsurare:	0.4-200 m
Viteza de evitare a obstacolelor:	Viteza de zbor ≤21 m/s Field of (FOV)-90° (horizontal), 135° (vertical)

Lateral
Interval de măsurare:	0.5-32 m
Interval de măsurare:	0.5-200 m
Viteza de evitare a obstacolelor:	Viteza de zbor ≤21 m/s
FOV:	90° (horizontal), 90° (vertical)

În Jos
Interval de măsurare:	0.3-18.8 m
Viteza de evitare a obstacolelor:	Viteza de zbor ≤10 m/s FOV fata-spate 160° si 160° stanga-dreapta.

Mediu de functionare
Înainte, Înapoi, Stânga, Dreapta, și în Sus: Textură delicată la suprafață, lumină adecvată.

În jos: Solul are texturi bogate și condiții de iluminare suficiente*, cu o suprafață de reflexie difuză și o reflectivitate > 20% (de exemplu, pereți, copaci, oameni etc.)

TRANSMISIE VIDEO

Sistem de transmisie video:	O4 Enterprise	**Frecvența de funcționare:**	2.400-2.4835 GHz
			2.400-2.4835 GHz
Calitatea vizualizării în timp real			5.725-5.850 GHz
Telecomandă:	1080p/30fps		5.150-5.250 GHz (CE)

Putere emițător (EIRP):
2.4 GHz: ≤33 dBm (FCC), ≤20 dBm (CE/SRRC/MIC)
5.8 GHz: <33 dBm (FCC), <30 dB (SRRC) , <14 dBm (CE)
5.15-5.25: < 23 dBm (FCC/CE)

Distanță maximă de transmisie (cu interferențe)
Interferență puternică:	City Centers (approx. 1.5-5 km)
Interferență medie:	Suburban Areas (approx. 5-15 km)
Microinterferență:	Suburbii/Litoral (aprox. 15-25 km)

Distanță maximă de transmisie (fără obstacole, fără interferențe):		**Viteză maximă de descărcare:**	100°/s
25 km (FCC)		**Antena:**	8 antene, 2T4R
12 km (CE)		**Alte:**	Compartiment pentru dongle celular
12 km (SRRC)			
12 km (MIC)			

Latență (în funcție de condițiile de mediu și de dispozitivul mobil): 130 ms

CARD DE MEMORIE

Carduri SD acceptate	Este necesar U3/Class10/V30 sau o versiune ulterioară sau utilizați un card de memorie din lista recomandată.

Carduri microSD recomandate

Lexar 1066x 64GB U3 A2 V30 microSDXC	Kingston Canvas GO! Plus 64GB U3 A2 V30 microSDXC
Lexar 1066x 128GB U3 A2 V30 microSDXC	Kingston Canvas GO! Plus 128GB U3 A2 V30 microSDXC
Lexar 1066x 256GB U3 A2 V30 microSDXC	Kingston Canvas GO! Plus 256GB U3 A2 V30 microSDXC
Lexar 1066x 512GB U3 A2 V30 microSDXC	Kingston Canvas GO! Plus 512GB U3 A2 V30 microSDXC

BATERIE INTELIGENTĂ DE ZBOR

Capacitate:	6741 mAh	**Standard Voltage:**	14.76 V
Voltage Max. de incarcare:	17.0 V	**Tip Celula:**	Li-ion 4S
Energy:	99.5 Wh	**Masa:**	401 g
Temperatura de reincarcare:	5°C to 40°C	**Rata de descarcare:**	4C
Putere max. de incarcare:	1.8C	**Suportă încărcarea la temperatură scăzută:**	Nu suporta
Cicluri:	200		

ADAPTOR DE ALIMENTARE (100W)

Input:	100-240 V (AC), 50-60 Hz, 2.5 A	**Output:**	Max. 100 W (total)
Putere nominală:	100 W		

CONSOLA DE ÎNCĂRCARE

Input:	USB-C : 5-20 V, max 5A	**Output:**	Interfața bateriei: 11.2 V to 17 V
Putere nominală:	100 W	**Temperatura de incarcare:**	5° to 40°C
Baterie compatibilă:	Baterie inteligentă de zbor DJI Matrice seria 4E/T		
Tip de reîncărcare:	4 baterii se încarcă în secvență | Acceptă modul standard (100% SOC) și modul standby (90% SOC)		

DJI RC PLUS 2 ENTERPRISE

Sistem de transmisie video:	O4 Enterprise	**Antena:**	2T4R, antenă multi-fascicul cu gain ridicat încorporată
Distanța maximă de transmisie:	25 km (FCC)	**Banda de operare a transmisiei imaginii:**	
(fără obstacole, fără interferențe)	12 km (CE)		2.4000-2.4835 GHz
	12 km (SRRC)		5.725 - 5.850 GHz
	12 km (MIC)		5.1GHz (receive only)
Puterea transmițătorului de transmisie video (EIRP):			2.4 GHz: ＜33 dBm (FCC), ＜20 dBm (CE/SRRC/MIC)
			5.1 GHz: <23 dBm (CE)
			5.8 GHz: <33 dBm (FCC), <14 dBm (CE), <30 dBm (SRRC)

Transmisie 4G:	DJI Cellular Dongle 2		
Wi-Fi Protocol:	Wi-Fi Direct, Wireless Display, IEEE 802.11a/b/g/n/ac/ax Support 2 × 2 MIMO Wi-Fi, Dual Band Simultaneous (DBS) with dual MAC, pana la 1774.5 Mbps data rate (2 × 2 + 2 × 2 11ax DBS)		
Banda de Operare Wi-Fi:	2.4000-2.4835 GHz 5.150-5.250 GHz 5.725-5.850 GHz		
Putere transmițător Wi-Fi (EIRP):	2.4 GHz: ＜26 dBm (FCC), ＜20 dBm (CE/SRRC/ MIC) 5.1 GHz: <23 dBm (FCC) 5.8 GHz ＜23 dBm (FCC/SRRC), ＜14 dBm (CE)		

Protocol Bluetooth:	Bluetooth 5.2	**Frecventa de Operare Bluetooth:**	2.400-2.4835 GHz
Putere transmițător Bluetooth (EIRP):	<10 dBm	**Rezoluția ecranului:**	1920 × 1200
Dimensiunea ecranului:	7.02 inches	**Rata cadrelor pe ecran:**	60 fps
Luminozitate:	1400 nits	**Controlul ecranului tactil:**	10 Points Multi-touch

Baterie încorporată:	2S2P Baterie litiu-ion 18650 cu densitate energetică ridicată (6500 mAh @ 7.2 V) 46.8 Wh
Baterie externă:	Optional, WB37 (4920 mAh @ 7.6 V) 37 Wh
Tip de reîncărcare:	Suportă încărcare rapidă PD, cu o specificaţie maximă de încărcător USB Type-C de 20 V/3,25 A.
Capacitate de stocare:	ROM 128 G + stocare extensibilă prin card microSD
Timp de încărcare:	2 ore pentru bateria internă sau bateria internă şi externă.

Durata de funcţionare a bateriei interne:	3.8 hrs	**Durata de funcţionare a bateriei externe:**	3.2 hrs
Output Port:	HDMI 1.4	**Speaker:**	Suportă sonerie
Audio:	Array MIC	**Temperatura de funcţionare:**	-20° to 50°C

Temperatura de depozitare		**Dimensiuni:**	268×163×94.5 mm (L×W×H)
Timp de o luna:	-30° to 45° C	**Masa:**	1.15 kg (without external battery)
2-3 luni:	-30° to 35° C	**Model:**	TKPL 2
De la 3 la 12 luni:	-30° to 30° C	**Versiune System:**	Android 11
Temperatura de reîncărcare:	5° to 40° C	**Accesorii:**	Optional strap/waist support
Modele de aeronave acceptate:	Suport pentru Matrice 4T/4E		
GNSS:	GPS, Galileo, and BeiDou triple-mode, suportă actualizarea dinamică a punctului de pornire.		
Interfeţe externe:	HDMI 1.4, SD3.0, Type C acceptă OTG, acceptă încărcare PD, putere maximă 65W, USB-A acceptă interfaţă USB 2.0.		

REFLECTOR AL1

Masa:	92.5 g (including bracket) Aprox. 90 g (excluding bracket)	**Dimensiuni:**	73×70×52 mm (L×W×H,including bracket) 73×70×47 mm (L×W×H, without bracket)
Putere max:	15 W	**Distanţa efectivă de difuzare:**	300 m
Zgomot max.:	La 1 metru, poate atinge 114 decibeli	**Temperatura de funcţionare:**	-20°C to 50°C
Masa:	99 g (including bracket) Approx. 91 g (excluding bracket)	**Dimensiuni:**	95×164×30 mm (L×W×H,including bracket) 79×164×28 mm (L×W×H, without bracket)
Putere max:	32 W	**Iluminare:**	4.3±0.2 lux @ 100 meters, 17±0.2 lux @ 50m
Modul de operare:	Acceptă modurile mereu pornit şi stroboscop.	**Gama de design structural Gimbal:**	Tilt: -140° to 50°

Interval controlabil:	Tilt: -90° to 35°	Viteză maximă de control (înclinare):	120°/s
Precizia alinierii gimbalului:	±0.1°	Temperatura de funcționare:	-20°C to 50°C
Montare:	Șuruburi strânse manual cu eliberare rapidă	Unghi de iluminare efectivă:	23° (10% iluminare relativa)
Zona de iluminare efectivă:	1.300 de metri pătrați la 100 de metri (iluminare relativă de 10%, mod normal)		
	2.200 de metri pătrați la 100 de metri (iluminare centrală 10%, mod câmp vizual larg)		

SPEAKER AS1

Masa:	92.5 g (inclusiv clema) Aprox. 90 g (fara clema)	Dimensiuni:	73×70×52 mm (L×W×H, inclusiv clema) 73×70×47 mm (L×W×H, fara clema)
Putere max.:	15 W	Distanța efectivă de difuzare:	300 m
Zgomot max.:	La 1 metru, poate atinge 114 decibeli (114dB la 1m)	Temperatura de funcționare:	-20°C to 50°C
Montare:	Șuruburi strânse manual cu eliberare rapidă		