Clifton Cameras Product Specification

DJI Mini 4 Pro

MODEL	Z 8
Takeoff Weight	< 249 g ^{Standard aircraft weight (including the Intelligent Flight Battery, propellers, and a microSD card). The actual product weight may vary due to differences in batch materials and external factors. Registration is not required in some countries and regions. Always check local laws and regulations before use. Always check and strictly abide by local laws and regulations before flying.}
Dimensions	Folded (without propellers): 148×94×64 mm (L×W×H) Unfolded (with propellers): 298×373×101 mm (L×W×H)
Max Ascent Speed	5 m/s (S Mode) 5 m/s (N Mode) 3 m/s (C Mode)
Max Descent Speed	5 m/s (S Mode) 5 m/s (N Mode) 3 m/s (C Mode)
Max Horizontal Speed (at sea level, no wind)	16 m/s (S Mode) 12 m/s (N Mode) 12 m/s (C Mode) ^{The max horizontal speed is subject to dynamic local restrictions. Always abide by local laws and regulations when flying.}
Max Takeoff Altitude	With DJI Mini 4 Pro Intelligent Flight Battery: 4000 m ^{Increase in aircraft weight can affect flight propulsion. When the aircraft is using the Intelligent Flight Battery Plus, do not mount additional payloads like a propeller guard or third-party accessories to avoid diminished propulsion.}
Max Flight Time	34 minutes (with Intelligent Flight Battery) ^{Measured in a controlled test environment. Specific test conditions are as follows: flying forward at a constant speed of 21.6 kph in a windless laboratory environment at 20 meters above sea level, in photo mode (without photo taking operation during flight), with Obstacle Avoidance Action set to Off, and from 100% battery level until 0%. Results may vary depending on the environment, actual use, and firmware version.}
Max Hovering Time	30 minutes (with Intelligent Flight Battery) ^{Measured in a controlled test environment. Specific test conditions are as follows: hovering in a windless laboratory environment at 20 meters above sea level, in photo mode (without photo taking operation during flight), with Obstacle Avoidance Action set to Off, and from 100% battery level until 0%. Results may vary depending on the environment, actual use, and firmware version.}

Max Flight Distance	18 km (with Intelligent Flight Battery and measured while flying at 40.7 kph in a windless environment at 20 meters above sea level)
Max Wind Speed Resistance	10.7 m/s
Max Pitch Angle	35°
Operating Temperature	-10° to 40° C (14° to 104° F)
Global Navigation Satellite System	GPS + Galileo + BeiDou
Hovering Accuracy Range (windless or breezy)	Vertical: ±0.1 m (with vision positioning) ±0.5 m (with GNSS positioning) Horizontal: ±0.1 m (with vision positioning) ±0.5 m (with GNSS positioning)
Internal Storage	2 GB
Image Sensor	1/1.3-inch CMOS, Effective Pixels: 48 MP
Lens	FOV: 82.1° Format Equivalent: 24 mm Aperture: f/1.7 Focus: 1 m to ∞
ISO Range	Video Normal and Slow Motion: 100-6400 (Normal) 100-1600 (D-Log M) 100-1600 (HLG) Night: 100-12800 (Normal) Photo 12 MP: 100-6400 48 MP: 100-3200
Shutter Speed	12MP Photo: 1/16000-2 s (2.5-8 s for simulated long exposure) 48MP Photo: 1/8000-2 s
Max Image Size	8064×6048
Still Photography Modes	Single Shot: 12 MP and 48 MP Burst Shooting: 12 MP, 3/5/7 frames 48 MP, 3 frames Automatic Exposure Bracketing (AEB): 12 MP, 3/5/7 frames at 0.7 EV step 48 MP, 3 frames at 0.7 EV step Timed: 12 MP, 2/3/5/7/10/15/20/30/60 s 48 MP, 5/7/10/15/20/30/60 s
Photo Format	JPEG/DNG (RAW)
Video Resolution	H.264/H.265 4K: 3840×2160@24/25/30/48/50/60/100*fps FHD: 1920×1080@24/25/30/48/50/60/100*/200*fps ^{* Recording frame rates. The corresponding video plays as slow-motion video. 4K/100fps and HLG/D-Log M only support H.265 coding.}
Video Format	MP4 (MPEG-4 AVC/H.264, HEVC/H.265)
Max Video Bitrate	H.264/H.265: 150 Mbps
Supported File System	exFAT
Color Mode and Sampling Method	Normal: 8-bit 4:2:0 (H.264/H.265)

	HLG/D-Log M: 10-bit 4:2:0 (H.265)
Digital Zoom	12MP Photo: 1-2x 4K: 1-3x FHD: 1-4x
Stabilization	3-axis mechanical gimbal (tilt, roll, pan)
Mechanical Range	Tilt: -135° to 80° Roll: -135° to 45° Pan: -30° to 30°
Controllable Range	Tilt: -90° to 60° Roll: -90° or 0°
Max Control Speed (tilt)	100°/s
Angular Vibration Range	±0.01°
Sensing Type	Omnidirectional binocular vision system, supplemented with a 3D infrared sensor at the bottom of the aircraft
Forward	Measurement Range: 0.5-18 m Detection Range: 0.5-200 m Effective Sensing Speed: Flight Speed ≤ 12 m/s FOV: Horizontal 90°, Vertical 72°
Backward	Measurement Range: 0.5-15 m Effective Sensing Speed: Flight Speed ≤ 12 m/s FOV: Horizontal 90°, Vertical 72°
Lateral	Measurement Range: 0.5-12 m Effective Sensing Speed: Flight Speed ≤ 12 m/s FOV: Horizontal 90°, Vertical 72°
Upward	Measurement Range: 0.5-15 m Effective Sensing Speed: Flight Speed ≤ 5 m/s FOV: Front and Back 72°, Left and Right 90°
Downward	Measurement Range: 0.3-12 m Effective Sensing Speed: Flight Speed ≤ 5 m/s FOV: Front and Back 106°, Left and Right 90°
Operating Environment	Forward, Backward, Left, Right, and Upward: Surfaces with discernible patterns and adequate lighting (lux > 15) Downward: Surfaces with discernible patterns, diffuse reflectivity > 20% (e.g. walls, trees, people), and adequate lighting (lux > 15)
3D Infrared Sensor	Measurement Range: 0.1-8 m (reflectivity > 10%) FOV: Front and Back 60°, Left and Right 60°
Video Transmission System	O4
Live View Quality	Remote Controller: Up to 1080p/60fps (available when the aircraft is flying in Photo or Video mode) Up to 1080p/30fps (available when the aircraft is flying in Video mode) Up to 1080p/24fps (available when the aircraft is in standby mode on the ground)
Operating Frequency	2.4000-2.4835 GHz 5.170-5.250 GHz 5.725-5.850 GHz ^{5.170-5.250 GHz can be used only in countries and regions where permitted by local laws and regulations.}
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) < 30 dBm (SRRC) < 14 dBm (CE)
Max Transmission Distance (unobstructed, free of interference)	FCC: 20 km CE: 10 km SRRC: 10 km MIC: 10 km ^{Measured in an unobstructed outdoor environment free of interference. The above data shows the farthest communication range for one-way, non-return flights under each standard. Always pay attention to RTH reminders in the DJI Fly app during your flight.}
Max Transmission Distance (unobstructed, with interference)	Strong Interference: urban landscape, approx. 1.5-4 km Medium Interference: suburban landscape, approx. 4-10 km Low Interference: suburb/seaside, approx. 10-20 km ^{Data tested under FCC standard in unobstructed environments with typical interference. Used for reference purposes only and provides no guarantee for actual transmission distance.}
Max Transmission Distance (obstructed, with interference)	Low Interference and Obstructed by Buildings: approx. 0-0.5 km Low Interference and Obstructed by Trees: approx. 0.5-3 km ^{Data tested under FCC standard in obstructed environments with typical low interference. Used for reference purposes only and provides no guarantee for actual transmission distance.}
Max Download Speed	O4: 10 MB/s (with DJI RC-N2) 10 MB/s (with DJI RC 2) Wi-Fi 5: 30 MB/s* ^{* Measured in a laboratory environment with little interference in countries/regions that support both 2.4 GHz and 5.8 GHz, with footage saved to the internal storage. Download speeds may vary depending on the actual conditions.}
Lowest Latency	Aircraft + Remote Controller: approx. 120 ms ^{Depending on the actual environment and mobile device.}
Antenna	4 antennas, 2T4R
Compatible Battery	DJI Mini 4 Pro Intelligent Flight Battery.
Capacity	Intelligent Flight Battery: 2590 mAh
Weight	Intelligent Flight Battery: approx. 77.9 g
Nominal Voltage	Intelligent Flight Battery: 7.32 V
Max Charging Voltage	Intelligent Flight Battery: 8.6 V
Type	Li-ion
Energy	Intelligent Flight Battery: 18.96 Wh
Charging Temperature	5° to 40° C (41° to 104° F)

Charging Time	Intelligent Flight Battery: 70 minutes (with the DJI 30W USB-C Charger and the battery mounted to the aircraft) 58 minutes (with the DJI 30W USB-C Charger and the battery inserted into the Two-Way Charging Hub)
Recommended Charger	DJI 30W USB-C Charger or other USB Power Delivery chargers (30 W)* ^{* When you charge the battery mounted to the aircraft or inserted into the Two-Way Charging Hub, the maximum charging power supported is 30 W.}
Pixel counts	45.7 MP (stacked)
ISO sensitivity	Lo1, 64-25600 to Hi 2
Still image recording modes	RAW (including high efficiency)/JPEG/HEIF (10 bit)
AF points, AF area	493 points, approx. 81% coverage area
AF detection range (at f/1.2)	EV -7 to 19/-9.0 with starlight view
Subject detection	People (upper body/head/face/eye), dogs, cats, birds, cars, bycicles, bikes, cars, trains, airplanes
Continuous shooting speed	20 fps, High-Speed Frame Capture+ (30fps/120fps in JPEG only), Pre-Release Capture
Vibration reduction	5-axis in-camera VR, Synchro VR, 6.0 *stops faster
Number of continuous shooting (JPEG)	More than 1000 shots
No. of shots per single charge (EVF)	330 shots
Shutter speed	1/32000 to 30s, up to 900 s
Shutter	Electronic only
USB charging and power delivery	Yes (compatible with PD)
Video shooting mode	8.3K/60P (in N-RAW only), 8K UHD/30P , 4K UHD/120P N-RAW, ProRes RAW (in-camera recording), ProRes422HQ, H.265, H.264 (in FullHD only), N-Log, HLG
Continuous video recording time	4K UHD /60p：125min（25℃,in normal mode）
Monitor	3.2-in., 2100k-dot 4-axis tilting
Viewfinder magnification, eyepoint	0.80×, 23mm
EVF	3690k-dot OLED (high brightness 3000 cd/m^2), Lo1, Lo2
Viewfinder refresh rate	120 fps, 60 fps
Media	CFexpress Type B (XQD) + SD (UHS-II)
Network	Wi-Fi (2.4GHz, 5GHz)/BT/USB-LAN
HDMI output	10-bit
External battery pack	Available
Dust- and drip-resistant performance	Equivalent to the D850
Dimensions (approx.)	144 × 118.5 × 83 mm/5.6 × 4.6 × 3.2 in.
Weight (approx.)	910 g/2lb. 0.1oz.

Temperature	-10-40℃/+14-104°F
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