

Technical Description & Performance Limitations of DJI Mini 2

AIRCRAFT	
Takeoff Weight [1]	< 249 g
Dimensions	Folded: 138x81x58 mm (LxWxH) Unfolded: 159x203x56 mm (LxWxH) Unfolded (with propellers): 245x289x56 mm (LxWxH)
Diagonal Distance	213 mm
Max Ascent Speed	5 m/s (S Mode) 3 m/s (N Mode) 2 m/s (C Mode)
Max Descent Speed	3.5 m/s (S Mode) 3 m/s (N Mode) 1.5 m/s (C Mode)
Max Speed (near sea level, no wind)	16 m/s (S Mode) 10 m/s (N Mode) 6 m/s (C Mode)
Max Service Ceiling Above Sea Level	4000 m
Max Flight Time	31 mins (measured while flying at 4.7 m/s in windless conditions)
Max Wind Speed Resistance	8.5-10.5 m/s (Scale 5)
Max Tilt Angle	40° (S Mode) 25° (N Mode)* 25° (C Mode)* * Up to 40° under strong winds
Max Angular Velocity (by default)*	130°/s (S Mode) 60°/s (N Mode)



	30°/s (C Mode) * Can be adjusted to 250°/s with the DJI Fly app
Operating Temperature	0° to 40°C (32° to 104°F)
Operating Frequency [2]	2.400-2.4835 GHz, 5.725-5.850 GHz
Transmitter Power (EIRP)	2.400-2.4835 GHz FCC ≤ 26 dBm CE ≤ 20 dBm SRRC ≤ 20 dBm 5.725-5.850 GHz FCC ≤ 26 dBm CE ≤ 14 dBm SRRC ≤ 26 dBm
Global Navigation Satellite System (GNSS)	GPS+GLONASS+GALILEO
Hovering Accuracy Range	Vertical: ±0.1 m (with Vision Positioning), ±0.5 m (with GPS Positioning) Horizontal: ±0.3 m (with Vision Positioning), ±1.5 m (with GPS Positioning)

GIMBAL	
Mechanical Range	Tilt: -110° to 35° Roll: -35° to 35° Pan: -20° to 20°
Controllable Range	Tilt: -90° to 0° (default setting) -90° to +20° (extended)
Stabilization	3-axis (tilt, roll, pan)
Max Control Speed (tilt)	100°/s
Angular Vibration Range	±0.01°



SENSING SYSTEM	
Downward	Hovering Range: 0.5-10 m
Operating Environment	Non-reflective, discernible surfaces Diffuse reflectivity (> 20%, such as cement pavement) Adequate lighting (lux > 15, Normal exposure environment of indoor fluorescent lamp)
CAMERA	
Sensor	1/2.3" CMOS Effective Pixels: 12 MP
Lens	FOV: 83° 35 mm format equivalent: 24 mm Aperture: f/2.8 Focus range: 1 m to ∞
ISO	Video: 100-3200 (Auto) 100-3200 (Manual) Photos: 100-3200 (Auto) 100-3200 (Manual)
Still Photography Modes	Single Shot Interval: JPEG: 2/3/5/7/10/15/20/30/60 s JPEG+RAW: 5/7/10/15/20/30/60 s Auto Exposure Bracketing (AEB): 3 bracketed frames at 2/3 EV Bias Panorama: Sphere, 180°, and Wide-angle
Max Image Size	4:3: 4000×3000 16:9: 4000×2250
Video Resolution	4K: 3840×2160 @ 24/25/30fps 2.7K: 2720×1530 @ 24/25/30/48/50/60fps FHD: 1920×1080 @ 24/25/30/48/50/60fps
Max Video Bitrate	100 Mbps
Zoom Range	4K: 2x 2.7K: 3x



	FHD: 4x
QuickShot Modes	Dronie, Helix, Rocket, Circle, Boomerang
Supported File Formats	FAT32 (\leq 32 GB) exFAT ($>$ 32 GB)
Photo Formats	JPEG/DNG (RAW)
Video Formats	MP4 (H.264/MPEG-4 AVC)
REMOTE CONTROLLER & VIDEO TRANSMISSION	
Operating Frequency	2.400-2.4835 GHz, 5.725-5.850 GHz
Max Transmission Distance (unobstructed, free of interference) [3]	10 km (FCC) 6 km (CE) 6 km (SRRC) 6 km (MIC)
Signal Transmission Ranges (FCC) [4]	Strong Interference (urban landscape, limited line of sight, many competing signals): Approx. 3 km Medium Interference (suburban landscape, open line of sight, some competing signals): Approx. 6 km Low Interference (open landscape abundant line of sight, few competing signals): Approx. 10 km
Operating Temperature	-10° to 40° C (14° to 104° F)
Transmission Power (EIRP)	2.400-2.4835 GHz: <26 dBm (FCC), <20 dBm (CE/SRRC/MIC) 5.725-5.850 GHz: <26 dBm (FCC), <23 dBm (SRRC), <14 dBm (CE)
Battery Capacity	5200 mAh
Voltage	1200 mA 3.6 V (Android) 700 mA 3.6 V (iOS)
Supported Mobile Device Size	180x86x10 mm (HeightxWidthxThickness)



Supported USB Port Types	Lightning Micro USB (Type-B) USB-C
Video Transmission System	When used with different aircraft hardware configurations, both remote controllers will automatically select the corresponding firmware version for updating and support the following transmission technologies enabled by the hardware performance of the linked aircraft models: <ul style="list-style-type: none">a. DJI Mini 2/ DJI Mavic Air 2: O2b. DJI Air 2S: O3c. DJI Mavic 3: O3+
Live View Quality	Remote Controller: 720p/30fps
Max Bitrate	8 Mbps
Latency (depending on environmental conditions and mobile device)	About 200 ms
CHARGER	
Input	100-240 V, 50/60 Hz, 0.5 A
Output	12V 1.5 A / 9V 2A / 5V 3A
Rated Power	18 W
INTELLIGENT FLIGHT BATTERY	
Battery Capacity	2250 mAh
Voltage	7.7 V
Charging Voltage Limit	8.8 V
Battery Type	LiPo 2S
Energy	17.32 Wh
Weight	86.2 g
Charging Temperature	5° to 40°C (41° to 104°F)
Max Charging Power	29 W
APP	
Name	DJI Fly
Required Operating System	iOS v10.0 or later Android v6.0 or later
SUPPORTED SD CARDS	
Supported SD Cards	UHS-I Speed Class 3 or above is required. A list of recommended microSD cards can be found below.



Recommended microSD Cards	<p>16 GB: SanDisk Extreme</p> <p>32 GB: Samsung Pro Endurance, Samsung Evo Plus, SanDisk Industrial, SanDisk Extreme V30 A1, SanDisk Extreme V30 A2, SanDisk Extreme Pro V30 A1, SanDisk Extreme Pro V30 A2, Lexar 633x, Lexar 667x</p> <p>64 GB: Samsung Pro Endurance, Samsung Evo Plus, SanDisk Extreme V30 A2, Lexar 633x, Lexar 667x, Lexar 1000x, Lexar High Endurance, Toshiba EXCERIA M303 V30 A1, Netac Pro V30 A1, Kingston Canvas Go!Plus V30 A2 microSDXCS</p> <p>128 GB: Samsung Evo Plus, SanDisk Extreme V30 A2, SanDisk Extreme Plus V30 A1, SanDisk Extreme Plus V30 A2, Lexar 633x, Lexar 667x, Lexar 1000x, Lexar High Endurance, Toshiba EXCERIA M303 V30 A1, Netac Pro V30 A1, Kingston Canvas Go!Plus V30 A2 microSDXCS</p> <p>256 GB: SanDisk Extreme V30 A2, Samsung PRO Plus V30 A2 microSDXC</p>
---------------------------	--