

Appendix

Specifications

Aircraft	
Takeoff Weight	< 249 g (including the Intelligent Flight Battery, propellers, and a microSD card)
Dimensions (L×W×H)	Folded: 145×90×62 mm Unfolded (without propellers): 171×245×62 mm Unfolded (with propellers): 251×362×70 mm
Diagonal Distance	247 mm
Max Ascent Speed	S Mode: 5 m/s N Mode: 3 m/s C Mode: 2 m/s
Max Descent Speed	S Mode: 5 m/s N Mode: 3 m/s C Mode: 1.5 m/s
Max Horizontal Speed (near sea level, no wind)	S Mode: 16 m/s N Mode: 10 m/s C Mode: 6 m/s
Max Service Ceiling Above Sea Level	With Intelligent Flight Battery: 4,000 m (13,123 ft) With Intelligent Flight Battery Plus: 3,000 m (9,843 ft) With Intelligent Flight Battery and propeller guard: 1,500 m (4,921 ft)
Max Flight Time	34 minutes (with Intelligent Flight Battery and a flight speed of 21.6 kph in windless conditions) 47 minutes (with Intelligent Flight Battery Plus and a flight speed of 21.6 kph in windless conditions)
Max Hovering Time	30 minutes (with Intelligent Flight Battery and in windless conditions) 40 minutes (with Intelligent Flight Battery Plus and in windless conditions)
Max Flight Distance	18 km (with Intelligent Flight Battery and measured while flying at 43.2 kph in windless conditions) 25 km (with Intelligent Flight Battery Plus and measured while flying at 43.2 kph in windless conditions)
Max Wind Speed Resistance	10.7 m/s
Max Tilt Angle	S Mode: 40° (flying forward); 35° (flying backward) N Mode: 25° C Mode: 25°
Max Angular Velocity	S Mode: 130°/s by default (the adjustable range on DJI Fly is 20-250°/s) N Mode: 75°/s by default (the adjustable range on DJI Fly is 20-120°/s) C Mode: 30°/s by default (the adjustable range on DJI Fly is 20-60°/s)
Operating Temperature	-10° to 40° C (14° to 104° F)
GNSS	GPS + BEIDOU + GALILEO

Hovering Accuracy Range	Vertical: Vision Positioning: ± 0.1 m GNSS Positioning: ± 0.5 m Horizontal: Vision Positioning: ± 0.3 m High Accuracy System Positioning: ± 0.5 m
Transmission	
Video Transmission System	O3
Operating Frequency	2.400-2.4835 GHz, 5.725-5.850 GHz
Transmitter Power (EIRP)	2.4 GHz: <26 dBm (FCC), <20 dBm (CE/SRRC/MIC) 5.8 GHz: <26 dBm (FCC/SRRC), <14 dBm (CE)
Wi-Fi	
Protocol	802.11 a/b/g/n/ac
Operating Frequency	2.400-2.4835 GHz, 5.725-5.850 GHz
Transmitter Power (EIRP)	2.4 GHz: <19 dBm (FCC/CE/SRRC/MIC) 5.8 GHz: <20 dBm(FCC/SRRC), <14 dBm(CE)
Bluetooth	
Protocol	Bluetooth 5.2
Operating Frequency	2.400-2.4835 GHz
Transmitter Power (EIRP)	<8 dBm
Gimbal	
Mechanical Range	Tilt: -135° to $+80^{\circ}$ Roll: -135° to $+45^{\circ}$ Pan: -30° to $+30^{\circ}$
Controllable Range	Tilt: -90° to $+60^{\circ}$ Roll: 0° or -90° (Landscape or Portrait)
Stabilization	3-axis (tilt, roll, pan)
Max Control Speed (tilt)	$100^{\circ}/s$
Angular Vibration Range	$\pm 0.01^{\circ}$
Sensing System	
Forward Vision System	Precision Measurement Range: 0.39 m to 25 m Effective Sensing Speed: Flight speed < 10.5 m/s FOV: 106° (horizontal), 90° (vertical)
Backward Vision System	Precision Measurement Range: 0.36 m to 23.4 m Effective Sensing Speed: Flight speed < 8 m/s FOV: 58° (horizontal), 73° (vertical)
Downward Vision System	Precision Measurement Range: 0.15 m to 9 m Precision Hovering Range: 0.5 m to 12 m Effective Sensing Speed: Flight speed < 3 m/s FOV: Front and back 104.8° , left and right 87.6°
Operating Environment	Non-reflective, discernible surfaces with diffuse reflectivity of >20%, and adequate illuminance of >15 lux
Camera	
Image Sensor	1/1.3-in CMOS, Effective Pixels: 48 MP

Lens	FOV: 82.1° Format Equivalent: 24 mm Aperture: f/1.7 Shooting Range: 1 m to ∞
ISO	Video: 100-6400 Photo: 100-6400
Electronic Shutter Speed	1/8000-2 s
Max Image Size	4:3: 8064×6048 (48 MP); 4032×3024 (12 MP) 16:9: 4032×2268 (12 MP)
Still Photography Modes	Single Interval: 2/3/5/7/10/15/20/30/60 s (JPEG) 2/3/5/7/10/15/20/30/60 s (JPEG+RAW) Automatic Exposure Bracketing (AEB): 3/5 bracketed frames at 0.7 EV Step Pano: Sphere, 180°, Wide Angle, Vertical
Video Resolution	4K: 3840×2160@24/25/30/48/50/60 fps 2.7K: 2720×1530@24/25/30/48/50/60 fps FHD: 1920×1080@24/25/30/48/50/60 fps Slow Motion: 1920×1080@120 fps
Max Video Bitrate	150 Mbps
Supported File System	FAT32 (≤32 GB) exFAT (>32 GB)
Photo Format	JPEG/DNG
Video Format	MP4/MOV (H.264/H.265)
DJI RC-N1 Remote Controller	
Transmission	
Video Transmission System	When used with different aircraft hardware configurations, the DJI RC-N1 Remote Controller will automatically select the corresponding firmware version for updating, and support the following transmission technologies depending on the linked aircraft model: a. DJI Mini 2/ DJI Mavic Air 2: O2 b. DJI Air 2S: O3 c. DJI Mavic 3: O3+ d. DJI Mini 3 Pro: O3
Operating Frequency	2.400 - 2.4835 GHz, 5.725 - 5.850 GHz
Transmitter Power (EIRP)	2.4 GHz: <26 dBm (FCC), <20 dBm (CE/SRRC/MIC) 5.8 GHz: <26 dBm (FCC), <23 dBm (SRRC), <14 dBm (CE)
Max Transmission Distance (unobstructed, free of interference)	12 km (FCC); 8 km (CE/SRRC/MIC)
Transmission Distance (in common scenarios)	Strong interference (e.g., city center): 1.5-3 km Moderate interference (e.g., suburbs, small towns): 3-7 km No interference (e.g., rural areas, beaches): 7-12 km

General	
Operating Temperature	-10° to 40° C (14° to 104° F)
Battery Capacity	5,200 mAh
Battery Type	Li-ion
Chemical System	LiNiMnCoO ₂
Operating Current/Voltage	1200 mA@3.6 V (with Android device) 700 mA@3.6 V (with iOS device)
Supported Mobile Device Size	180×86×10 mm (Height×Width×Thickness)
Supported USB Port Types	Lightning, Micro USB (Type-B), USB-C
DJI RC Remote Controller	
Transmission	
Video Transmission System	When used with different aircraft hardware configurations, the DJI RC Remote Controller will automatically select the corresponding firmware version for updating. It supports the O3 transmission technology when linked with DJI Mini 3 Pro.
Operating Frequency	2.400 - 2.4835 GHz, 5.725 - 5.850 GHz
Transmitter Power (EIRP)	2.4 GHz: <26 dBm (FCC), <20 dBm (CE/SRRC/MIC) 5.8 GHz: <26 dBm (FCC), <23 dBm (SRRC), <14 dBm (CE)
Max Transmission Distance (unobstructed, free of interference)	12 km (FCC); 8 km (CE/SRRC/MIC)
Transmission Distance (in common scenarios)	Strong interference (e.g., city center): 1.5-3 km Moderate interference (e.g., suburbs, small towns): 3-7 km No interference (e.g., rural areas, beaches): 7-12 km
Wi-Fi	
Protocol	802.11a/b/g/n
Operating Frequency	2.400-2.4835 GHz; 5.150-5.250 GHz; 5.725-5.850 GHz
Transmitter Power (EIRP)	2.4 GHz: <23 dBm (FCC); <20 dBm (CE/SRRC/MIC) 5.1 GHz: <23 dBm (FCC/CE/SRRC/MIC) 5.8 GHz: <23 dBm (FCC/SRRC), <14 dBm (CE)
Bluetooth	
Protocol	Bluetooth 4.2
Operating Frequency	2.400-2.4835 GHz
Transmitter Power (EIRP)	<10 dBm
General	
Operating Temperature	-10° to 40° C (14° to 104° F)
GNSS	GPS + BEIDOU + GALILEO
Battery Capacity	5,200 mAh
Battery Type	Li-ion
Chemical System	LiNiMnCoO ₂
Operating Current/Voltage	1250 mA@3.6 V
Storage Capacity	microSD card supported

Supported microSD Cards for DJI RC Remote Controller	UHS-I Speed Grade 3 rating microSD card
Recommended microSD Cards for DJI RC Remote Controller	SanDisk Extreme 64GB V30 A1 microSDXC SanDisk Extreme 128GB V30 A2 microSDXC SanDisk Extreme 256GB V30 A2 microSDXC SanDisk Extreme 512GB V30 A2 microSDXC SanDisk Extreme Pro 64GB V30 A2 microSDXC SanDisk Extreme Pro 256GB V30 A2 microSDXC SanDisk Extreme Pro 400GB V30 A2 microSDXC SanDisk High Endurance 64GB V30 microSDXC SanDisk High Endurance 256GB V30 microSDXC Kingston Canvas Go Plus 64GB V30 A2 microSDXC Kingston Canvas Go Plus 256GB V30 A2 microSDXC Lexar High Endurance 64GB V30 microSDXC Lexar High Endurance 128GB V30 microSDXC Lexar 633x 256GB V30 A1 microSDXC Lexar 1066x 64GB V30 A2 microSDXC Samsung EVO Plus 512GB microSDXC
Intelligent Flight Battery	
Battery Capacity	2453 mAh
Standard Voltage	7.38 V
Max Charging Voltage	8.5 V
Battery Type	Li-ion
Chemical System	LiNiMnCoO ₂
Energy	18.10 Wh
Weight	Approx. 80.5 g
Charging Temperature	5° to 40° C (41° to 104° F)
Intelligent Flight Battery Plus	
Battery Capacity	3850 mAh
Standard Voltage	7.38 V
Max Charging Voltage	8.5 V
Battery Type	Li-ion
Chemical System	LiNiMnCoO ₂
Energy	28.4 Wh
Weight	Approx. 121 g
Charging Temperature	5° to 40° C (41° to 104° F)
Two-Way Charging Hub	
Input	USB-C: 5V = 3A, 9V = 3A, 12V = 3A
Output	USB: 5V = 2A
Rated Power	30 W
Charging Type	Charge three batteries in sequence
Charging Temperature	5° to 40° C (41° to 104° F)

Supported Batteries	DJI Mini 3 Pro Intelligent Flight Battery (BWX162-2453-7.38) DJI Mini 3 Pro Intelligent Flight Battery Plus (BWX162-3850-7.38)
App	
Name	DJI Fly
Required Operating System	iOS v11.0 or later; Android v6.0 or later
Storage	
Supported microSD Cards for Aircraft	UHS-I Speed Grade 3 rating microSD card
Recommended microSD Cards for Aircraft	SanDisk Extreme 64GB V30 A1 microSDXC SanDisk Extreme 128GB V30 A2 microSDXC SanDisk Extreme 256GB V30 A2 microSDXC SanDisk Extreme 512GB V30 A2 microSDXC SanDisk Extreme Pro 64GB V30 A2 microSDXC SanDisk Extreme Pro 256GB V30 A2 microSDXC SanDisk Extreme Pro 400GB V30 A2 microSDXC SanDisk High Endurance 64GB V30 microSDXC SanDisk High Endurance 256GB V30 microSDXC SanDisk Max Endurance 32GB V30 microSDHC SanDisk Max Endurance 128GB V30 microSDXC SanDisk Max Endurance 256GB V30 microSDXC Kingston Canvas Go Plus 64GB V30 A2 microSDXC Kingston Canvas Go Plus 256GB V30 A2 microSDXC Lexar High Endurance 64GB V30 microSDXC Lexar High Endurance 128GB V30 microSDXC Lexar 667x 64GB V30 A1 microSDXC Lexar 633x 256GB V30 A1 microSDXC Lexar 1066x 64GB V30 A2 microSDXC Lexar 1066x 128GB V30 A2 microSDXC Lexar 1066x 256GB V30 A2 microSDXC Samsung PRO Plus 128GB V30 A2 microSDXC Samsung EVO Plus 512GB microSDXC



- Different shooting modes may support different ISO ranges. See the actual adjustable ISO range for different shooting modes in DJI Fly.
- The photos taken in Single Shot mode have no HDR effect in the following situations:
 - a) When the aircraft is in motion or stability is affected due to high wind speeds;
 - b) When using FocusTrack;
 - c) When white balance is set to manual mode;
 - d) The camera is in Auto mode and the EV setting is adjusted manually;
 - e) The camera is in Auto mode and the AE lock is turned on;
 - f) The camera is in Pro mode.
- DJI Mini 3 Pro doesn't include a built-in fan, which effectively reduces the drone's power consumption and increases the battery life. Meanwhile, it uses the wind generated by the propellers to dissipate heat during the flight, ensuring excellent heat dissipation effects and preventing overheating. When DJI Mini 3 Pro stays in standby mode for a long time, its temperature may continuously rise. With a built-in temperature control system, the drone, when in standby mode can detect the current temperature and decide whether to automatically power off to prevent overheating. The common standby time periods of DJI Mini 3 Pro in the stationary state are as follows. If the time is exceeded, the drone may automatically power off to prevent overheating (tested in an indoor environment with an ambient temperature of 25°C).

- a) When in standby mode on the ground: about 22 minutes;
 - b) When updating firmware: about 19 minutes (sufficient for 3 times of upgrades);
 - c) When using QuickTransfer immediately after powering on: about 35 minutes;
 - d) When using QuickTransfer after landing: about 35 minutes;
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Firmware Update

Use DJI Fly or DJI Assistant 2 (Consumer Drones Series) to update the aircraft and the remote controller firmware.

Using DJI Fly

When connecting the aircraft or remote controller to DJI Fly, you will be notified if a new firmware update is available. To start updating, connect your remote controller or mobile device to the internet and follow the on-screen instructions. Note that you cannot update the firmware if the remote controller is not linked to the aircraft. An internet connection is required.

Using DJI Assistant 2 (Consumer Drones Series)

Update the aircraft and remote controller firmware separately using DJI Assistant 2 (Consumer Drones Series).

Follow the instructions below to update the aircraft firmware:

1. Launch DJI Assistant 2 (Consumer Drones Series) on your computer and log in with your DJI account.
2. Power on the aircraft and connect the aircraft to the computer via the USB-C port within 20 seconds.
3. Select DJI Mini 3 Pro and click Firmware Updates.
4. Select the firmware version.
5. Wait for the firmware to download. The firmware update will start automatically.
6. Wait for the firmware update to complete.

Follow the instructions below to update the remote controller firmware:

1. Launch DJI Assistant 2 (Consumer Drones Series) on your computer and log in with your DJI account.
2. Power on the remote controller and connect it to the computer via the USB-C port.
3. Select the corresponding remote controller and click Firmware Updates.
4. Select the firmware version.
5. Wait for the firmware to download. The firmware update will start automatically.
6. Wait for the firmware update to complete.



- Make sure to follow all the steps to update the firmware, otherwise the update may fail.
 - The firmware update will take approximately 10 minutes. It is normal for the gimbal to go limp, aircraft status indicators to blink, and the aircraft to reboot. Wait patiently until the update is complete.
 - Make sure the computer is connected to the internet during the update.
 - Before performing an update, make sure the Intelligent Flight Battery has at least 40% power and the remote controller 20%.
 - Do not unplug the USB-C cable during an update.
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Aftersales Information

Visit <https://www.dji.com/support> to learn more about aftersales service policies, repair services, and support.

FAR Remote ID Compliance Information

The aircraft complies with the requirements of 14 CFR Part 89:

- The aircraft automatically broadcasts Remote ID messages from takeoff to shut down. An external device such as a cell phone or tablet is required to be connected as a location source to DJI mobile devices without an integrated GNSS system ^[1], and must run the DJI flight control app such as DJI Fly in the foreground and always allow the DJI flight control app to obtain its accurate location information. The connected external device must minimally be one of the following:
 - a) FCC Certified personal wireless device that uses GPS with SBAS (WAAS) for location services; or
 - b) FCC Certified personal wireless device with integrated GNSS.Also, the external device must be operated in a way that does not interfere with the location reported and its correlation to the operator location.
- The aircraft automatically initiates a pre-flight self-test (PFST) of the Remote ID system before takeoff and cannot take off if it does not pass the PFST ^[2]. The results of the PFST of the Remote ID system can be viewed in either a DJI flight control app such as DJI Fly or DJI goggles.
- The aircraft monitors the Remote ID system functionality from pre-flight to shut down. If the Remote ID system malfunctions or has a failure, an alarm will be displayed in either a DJI flight control app such as DJI Fly or DJI goggles.

Footnotes

[1] DJI mobile devices without an integrated GNSS system such as DJI RC-N1, DJI FPV Goggles V2, and DJI Goggles 2.

[2] The pass criterion for PFST is that the hardware and software of the Remote ID required-data source and transmitter radio in the Remote ID system are functioning properly.

DJI Support
<http://www.dji.com/support>

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<http://www.dji.com/mini-3-pro>

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