

DJI MINI 2 SE REVIEW



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Intro



DJI hasn't had a true budget-minded drone in its lineup for a while, but the Mini 2 SE (\$339 with remote) breaks that streak. This compact flier offers hi-res 2.7K recordings at up to 30fps, flight times of around 30 minutes, and convenient USB-C charging for both the drone and remote. It doesn't include obstacle detection sensors or all the latest features from its higher-end siblings, but it's still an excellent value in light of disappointing competitors in this price range like the \$239.99 Holy Stone HS360. The Mini 2 SE is thus worthy of our Editors' Choice award for budget-friendly drones, an honor we last gave to the discontinued Mini 2.

OVERVIEW

VIEW

- Up to 6.2-Mile Range with OcuSync 2.0
- Withstands up to 24 mph Winds
- 0.55 lb Lightweight & Foldable Design
- 3-Axis Gimbal with 2.7K30 Video
- Capture 12MP Stills in JPG & Raw
- QuickShots & Panorama Modes
- One-Tap Takeoff & Return to Home
- Up to 31 Minutes of Flight Time
- Up to 36 mph Flight Speed
- Up to 4x Digital Zoom

Take stunning aerial videos at up to 2.7K30 resolution with the palm-sized Mini 2 SE from DJI. The Mini 2 SE is a more affordable option than the Mini 2, yet it keeps much of its functionality with the same 36 mph flight speed, up to 6.2-mile OcuSync 2.0 video transmission, and more. The Mini 2 SE also delivers on convenience, making it easy and fun for beginners and experts alike. QuickShots and panorama intelligent pre-programmed flight modes allow for pro results with just one tap. Even with its lightweight frame, the Mini 2 SE is safe to use with robust wind resistance and return-to-home functionality.

***Additional* Features**

- 3-axis gimbal with 1/2.3" CMOS sensor
- Captures 12MP still photos
- Automatic takeoff and landing with one tap
- Smart return to home, low-battery return to home, and failsafe return to home
- Up to 31 minutes of flight time

WHAT'S IN THE BOX?



1 x DJI Mini 2 SE

1 x DJI RC-N1 Remote Controller

1 x DJI RC-N1 RC Cable (USB-C Connector)

1 x DJI RC-N1 RC Cable (Lightning Connector)

1 x DJI Mini 2 Intelligent Flight Battery

1 x Spare Propellers (Pair)

6 x Spare Screws

1 x Gimbal Protector

1 x Screwdriver

1 x USB-C Data Cable

DJI MINI 2 SE REVIEW: WHAT'S NEW?

The DJI Mini 2 SE offers quite a few improvements over its predecessor. It can ascend (5 m/s vs 4 m/s), descend (3.5 m/s vs 3 m/s), and fly faster (16 m/s vs 13 m/s) than the Mini SE. Max takeoff altitude has also been increased to 4,000m from 3,000m, and flight time has been improved by one minute (31 vs 30 minutes).

A new addition is the RC-N1 Remote Controller (pictured above). This is an updated version of the remote controller that was included with the original Mini SE. It's more ergonomic with an improved button layout - it certainly felt easier to hold and operate with my huge monkey hands.

The DJI Mini 2 SE added a new global satellite system (it uses GPS, GLONASS and Galileo). Most importantly, the DJI Mini Se 2 can now shoot in RAW (DNG), which wasn't an option with the Mini SE.

DJI MINI 2 SE REVIEW: DESIGN



From a physical point of view, the DJI Mini 2 SE is almost identical to both the Mini SE and the Mini 2. It's a hair heavier than those two at 246g (including the battery, propellers, and a microSD card). The DJI Mini 2 SE is light enough to fly in the UK without a Flyer ID (you still need the Operator ID, though).

Dimensions of all three versions are the same (L245×W289×H56 mm when unfolded). When folded, the DJI Mini 2 SE can fit in your palm (folded dimensions L138×W81×H58 mm) - it definitely fits in mine.

The DJI Mini 2 SE's battery capacity and size are also the same as those (2,250 mAh, 82.5g). The body is made of hard plastic to protect the drone's internals from occasional bumps but is light enough not to weigh it down. I'm not sure why all drones need to stay light grey, as it makes them impossible to spot in the sky, but what do I know? I like my gadgets to be colourful with a lot of personality; that's all.

DJI MINI 2 SE REVIEW: FLIGHT PERFORMANCE



There are three flying modes: Normal, Sport and Cine. You'll need to set the drone in Sport mode to reach maximum ascend, descend and flight speeds, whereas, in Cine mode, flight speed is limited for more stable video capturing. I'd recommend using Cine mode for absolute beginners, at least until you get used to controlling the DJI Mini 2 SE.

The drone also has a few different return-to-home (RTH) modes. Smart RTH uses GPS to find its way back to the controller, while Low Battery RTH is triggered when the battery is depleted to the point that might risk the return of the DJI Mini 2 SE if not performed immediately. There is also a Failsafe RTH option that backtracks the drone's flight path if it loses connection to the controller (up to 50 metres).

To make beginner pilots' life easier, the drone has Auto Takeoff and Auto Landing functions. These can be initiated via the DJI Fly app. For landing, the drone uses its Downward Vision System to determine if it's safe for the Mini 2 SE to descend; however, you can force land the drone by pressing the left joystick down. I don't recommend this to beginner drone pilots, but I thought I'd mention it in case someone starts panicking that they can't land the aircraft.

DJI MINI 2 SE REVIEW: CAMERA PERFORMANCE

Despite the cheaper price, the DJI Mini 2 SE inherited many of the Quickshot modes of the Mini 2, including Helix (the drone ascends around an object in a spiral fashion), Circle (spiralling movement at a set altitude) and Boomerang (the Mini 2 SE ascends and then descends along an elongated oblong circle route). You can also shoot Sphere, Wide Angle, and 180° panoramas using the aircraft. Interestingly, the Mini 2 SE uses the same 12 MP 1/2.3-inch CMOS sensor as the Mini 2, the latter of which can shoot videos in 4K, whereas the Mini 2 Se can only shoot 2.7K footage up to 30 fps. Sadly, the DJI Mini 2 SE hasn't got a True Vertical Shooting option either - as found on the [DJI Mini 3 Pro](#) - so you'll need to crop the videos if you prefer to post vids on Instagram/TikTok.

Drone photographers will be delighted to hear that the Mini 2 SE can shoot photos in RAW, allowing you to edit your pictures in more detail using software such as Adobe Lightroom and the like. RAW capability is the main reason I recommend the DJI Mini 2 SE, not just for beginners but also avid photographers; under the correct light conditions, you can shoot pretty decent photos with the drone.

SPECIFICATION

AIRCRAFT

- Takeoff Weight
- 246 g
- Dimensions
- Folded (without propellers): 138×81×58 mm (L×W×H)
- Unfolded (with propellers): 245×289×56 mm (L×W×H)
- Max Flight Distance
- 15.7 km
- Max Ascent Speed
- 5 m/s
- Max Descent Speed
- 3.5 m/s
- Max Horizontal Speed (at sea level, no wind)
- 16 m/s
- The max horizontal speed is subject to dynamic local restrictions. Please abide by local laws and regulations when flying.
- Max Takeoff Altitude
- 4000 m
- 2000 m when taking off with propeller guards.
- Max Flight Time
- 31 minutes
- Measured in a controlled test environment. Specific test conditions are as follows: flying forward at a constant speed of 17 kph in a windless laboratory environment, in photo mode (without photo taking operation during flight), and from 100% battery level until 0%. Results may vary depending on the environment, actual use, and firmware version.
- Max Wind Speed Resistance
- 10.7 m/s (Level 5)
- Max Pitch Angle
- 40°

SPECIFICATION

CAMERA

- Image Sensor
- 1/2.3-inch CMOS, Effective Pixels: 12 MP
- Lens
- FOV: 83°
- Format Equivalent: 24 mm
- Aperture: f/2.8
- Focus: 1 m to ∞
- ISO Range
- Video:
- 100-3200
- Photo:
- 100-3200
- Shutter Speed
- Electronic Shutter: 4-1/8000 s
- Max Image Size
- 4000×3000
- Still Photography Modes
- Single Shot: 12 MP
- Timed: 12 MP
- JPEG: 2/3/5/7/10/15/20/30/60 s
- JPEG + RAW: 5/7/10/15/20/30/60 s
- Automatic Exposure Bracketing (AEB): 12 MP, 3 frames at 2/3 EV step
- Panorama: Sphere, 180°, and Wide Angle
- Photo Format
- JPEG/DNG (RAW)
- Video Resolution
- 2.7K: 2720×1530@24/25/30 fps
- FHD: 1920×1080@24/25/30/48/50/60 fps
- Video Format
- MP4 (MPEG-4 AVC/H.264)
- Max Video Bitrate
- 40 Mbps

SPECIFICATION

GIMBAL

- Stabilization
- 3-axis mechanical gimbal (tilt, roll, and pan)
- Mechanical Range
- Tilt: -110° to 35°
- Roll: -35° to 35°
- Pan: -20° to 20°
- Controllable Range
- Tilt:
- -90° to 0° (default)
- -90° to 20° (extended)
- Max Control Speed (tilt)
- $100^{\circ}/s$
- Angular Vibration Range
- $\pm 0.01^{\circ}$



SENSING

- Downward
- Precise Hovering Range: 0.5-10 m
- Operating Environment
- Downward:
- surfaces with discernible patterns, diffuse reflectivity $>20\%$ (e.g., walls, trees, people), and adequate lighting (lux >15)

SPECIFICATION

VIDEO TRANSMISSION

- Video Transmission System
- DJI O2
- Live View Quality
- Remote Controller:
- 720p/30fps
- Operating Frequency
- 2.400-2.4835 GHz
- 5.725-5.850 GHz
- Transmitter Power (EIRP)
- 2.400-2.4835 GHz:
- < 26 dBm (FCC)
- < 20 dBm (CE/SRRC/MIC)
-
- 5.725-5.850 GHz:
- < 26 dBm (FCC/SRRC)
- < 14 dBm (CE)
- Max Transmission Distance (free of interference)
- FCC: 10 km
- CE: 6 km
- SRRC: 6 km
- MIC: 6 km
- Max Transmission Distance (with interference)
- Strong Interference: urban landscape, approx. 1.5-3 km
- Medium Interference: suburban landscape, approx. 3-6 km
- Low Interference: suburb/seaside, approx. 6-10 km
- Data tested under FCC standard in unobstructed environments with typical interference. Used for reference purposes only and provides no guarantee for actual flight distance.
- Lowest Latency
- Approx. 200 ms

SPECIFICATION

BATTERY

- Capacity
- 2250 mAh
- Weight
- 82.5 g
- Nominal Voltage
- 7.7 V
- Max Charging Voltage
- 8.8 V
- Type
- Li-ion
- Energy
- 17.32 Wh
- Charging Temperature
- 5° to 40° C (41° to 104° F)

BATTERY CHARGING HUB

- Input
- 5 V, 3 A
- 9 V, 3 A
- 12 V, 3 A
- Output
- USB-A:
- Max Voltage: 5 V; Max Current: 2 A
- Charging Type
- Three batteries charged in sequence

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SPECIFICATION

REMOTE CONTROLLER

- Max Operating Time
- DJI RC-N1 Remote Controller
- Without charging any mobile device: 6 hours
- When charging a mobile device: 4 hours
- Max Supported Mobile Device Size
- DJI RC-N1 Remote Controller
- 180×86×10 mm (L×W×H)
- Operating Temperature
- DJI RC-N1 Remote Controller
- -10° to 40° C (14° to 104° F)
- Transmitter Power (EIRP)
- DJI RC-N1 Remote Controller
- 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)



How do I turn on DJI Mini 2 SE after unboxing?

To ensure transportation safety, the DJI Mini 2 SE batteries are set to hibernation mode before shipping. Before using, insert the battery into the aircraft or charging hub, and connect the battery charger to charge and activate the battery.

After activating the battery, press the power button once and then press again and hold for two seconds to turn on the aircraft.

How do I activate DJI Mini 2 SE?

Connect your mobile device (connected to the internet) with the remote controller, and then connect to DJI Mini 2 SE via the DJI Fly app. Follow the instructions in the app to activate DJI Mini 2 SE.

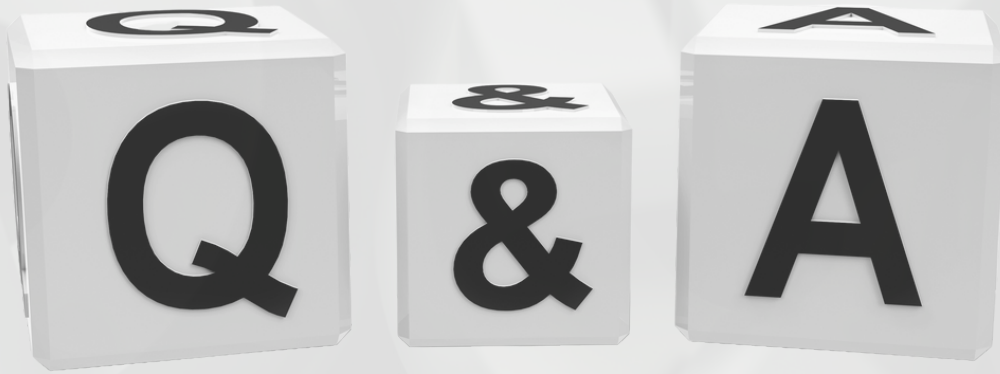
Is DJI Mini 2 SE waterproof?

No. Avoid contact with water during use as it may lead to damage of the device.

If it rains during flight, please return and land as soon as possible, and wait until the aircraft is fully dry inside before using it again.

Before using DJI Mini 2 SE, what app do I need to install?

DJI Mini 2 SE can only be used with the DJI Fly app. You can download the latest version of DJI Fly from the DJI Mini 2 SE Downloads page of on the DJI official website.



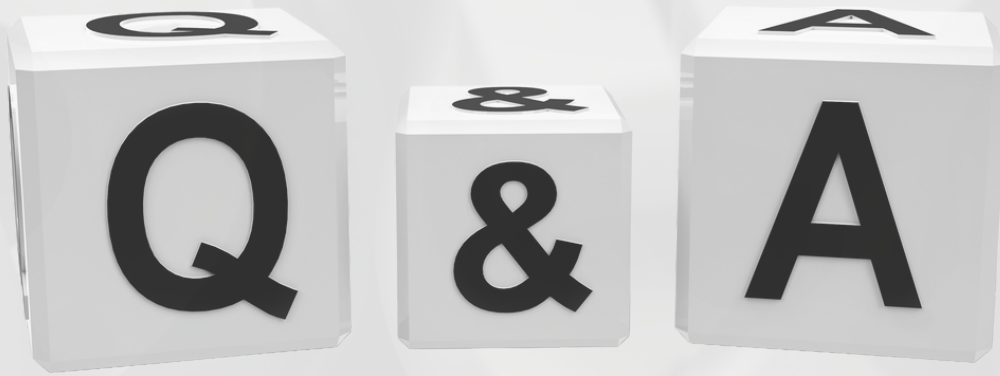
What is the wind speed resistance of DJI Mini 2 SE?

The max wind speed resistance of DJI Mini 2 SE is 10.7 m/s (Level 5).

* Wind resistance is dependent upon propulsion. In strong winds, due to the lightweight nature of the drone, slight vibration is expected. High-powered propulsion ensures the drone hovers stably or returns to home safely. DJI Mini 2 SE automatically controls the gimbal to adjust slightly to ensure that the footage is always stable and not affected by the wind.

Compared with DJI Mini SE, what upgrades does DJI Mini 2 SE have?

1. Fully upgraded video transmission. Enhanced Wi-Fi transmission has been upgraded to DJI O2, delivering better anti-interference and video transmission performance and up to 10 km of transmission distance (when unobstructed, free of interference, and FCC-compliant).
2. More creative options. DJI Mini 2 SE supports more shooting functions, including panorama, AEB, 4× digital zoom, RAW photos and Boomerang mode of QuickShots.
3. Upgraded propulsion. DJI Mini 2 SE supports up to 10.7 m/s (Level 5) wind resistance and a max takeoff altitude of 4000 m.



I am a drone beginner, how can I get started with DJI Mini 2 SE quickly?

The DJI Fly app comes with clear instructions and flying tutorials covering all tips useful for beginners. Tap the icon in the top right corner to enter Academy and view product tutorials, flight tips, flight safety notices, and user manuals.

Is the DJI Mini 2 SE Fly More Combo worth buying?

DJI Mini 2 SE Fly More Combo includes some must-have accessories that will make flying easier and more enjoyable. Compared to the standard combo, the combo additionally offers two Intelligent Flight Batteries, two pairs of spare propellers, 12 screws, a Two-Way Charging Hub, a Propeller Holder, and a Shoulder Bag, improving your experience with storage, carrying, and use.

What useful shooting functions does DJI Mini 2 SE provide?

DJI Mini 2 SE provides several intelligent shooting modes like QuickShots and panorama, allowing beginners to create impressive aerial imagery effortlessly.

QuickShots modes include Dronie, Helix, Rocket, Circle, and Boomerang. With just a few taps, DJI Mini 2 SE automatically shoots and generates videos with soundtracks and filters, letting you share directly or further edit in the app.

Select from Sphere, Wide-Angle, and 180° panoramas, tap start, and DJI Mini 2 SE automatically generates a panoramic masterpiece from scratch to post.



Does DJI Mini 2 SE support manual mode for shooting photos and videos?

Yes. You can manually set camera parameters like shutter speed, ISO, and white balance in the DJI Fly app.

Does DJI Mini 2 SE support panorama?

Yes. It supports Sphere, 180°, and Wide-Angle.

Does DJI Mini 2 SE support QuickShots?

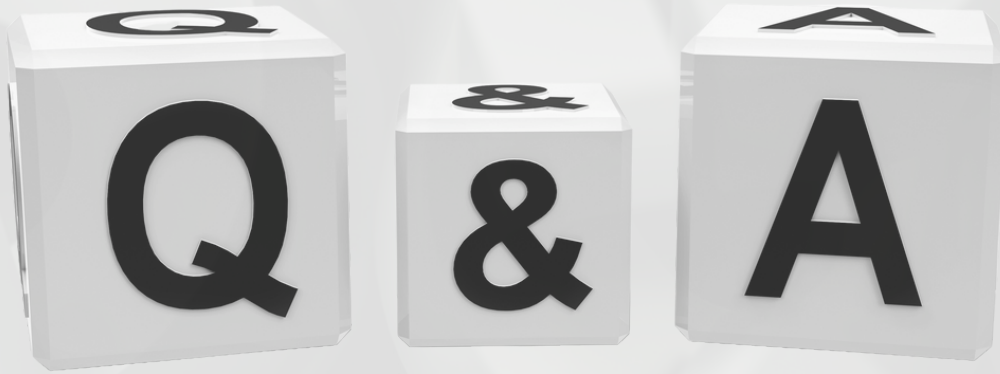
Yes. The QuickShots modes include Dronie, Helix, Rocket, Circle, and Boomerang.

What is the maximum flight altitude of DJI Mini 2 SE?

The maximum flight altitude is 500 m for safety reasons. Due to local laws and regulations, the maximum flight altitude may vary in different countries and regions. Before flying, please always check local laws and regulations.

What are the functions of the Two-Way Charging Hub?

The Two-Way Charging Hub supports QC and USB PD fast-charging protocols, and can charge up to three batteries in sequence. You can also use it for battery storage or as a power bank (storing at least one battery with ample power) to charge your mobile device or remote controller via the USB-A port.



How often do the DJI Mini 2 SE propellers need to be replaced? How can I change the propellers?

Before each flight, it is necessary to check the propellers for cracks, wear, warp, corrosion, and loose screws. If any of these conditions are present, the propellers should be replaced. Follow the instructions in the user manual to replace the propellers.

Use the included screwdriver to change the propellers. Please follow the instructions provided. Remove the two blades and screws from the motor, and replace with the new propellers and screws. Attach the marked propellers to the marked motors, and the unmarked propellers to the unmarked motors. Ensure that the propellers and motors are installed securely before each flight.

What remote controllers are compatible with DJI Mini 2 SE?

DJI Mini 2 SE supports DJI RC-N1 Remote Controller.



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