

DJI Neo Specifications

[DJI Neo](#)

Item	Spec	Spec Value
Aircraft	Takeoff Weight	Approx. 135 g
Aircraft	Dimensions	130×157×48.5 mm (L×W×H)
Aircraft	Max Ascent Speed	0.5 m/s (Cine mode) 2 m/s (Normal mode) 3 m/s (Sport mode)
Aircraft	Max Descent Speed	0.5 m/s (Cine mode) 2 m/s (Normal mode) 2 m/s (Sport mode)
Aircraft	Max Horizontal Speed (near sea level, no wind)	6 m/s (Normal mode) 8 m/s (Sport mode) 16 m/s (Manual mode)
Aircraft	Max Takeoff Altitude	2000 m ^{Measured in a windless environment when taking off from an altitude of 2000 m and ascending vertically by 120 m, using Sport mode, and from 100% battery level until 20%. Data is for reference only. Always pay attention to reminders on the camera view during your flight.}
Aircraft	Max Flight Time	Approx. 18 mins (approx. 17 mins with the Propeller Guards)* Each battery allows the drone to perform at least 20 palm takeoff and landing for shoots in succession** ^{* Measured when flying forward at a speed of 2 m/s in a windless environment 20 m above sea level, with camera parameters set to 1080p/30fps, video mode off, and from 100% battery level until 0%. Results may vary depending on the environment, actual use, and firmware version.} ^{** Measured after DJI Neo is activated, with a fully charged battery and default settings, and using Circle, Rocket, and Dronie modes, and is for reference only.}
Aircraft	Max Hovering Time	Approx. 18 mins (approx. 17 mins with the Propeller Guards) <sup>Measured when hovering in a windless environment 20 m above sea level, with camera parameters set to

		1080p/30fps, video mode off, and from 100% battery level until 0%. Results may vary depending on the environment, actual use, and firmware version.</sup>
Aircraft	Max Flight Distance	7 km ^{Measured when flying forward at a speed of 8 m/s in a windless environment 20 m above sea level, with camera parameters set to 1080p/30fps, video mode off, and from 100% battery level until 0%. Results may vary depending on the environment, actual use, and firmware version.}
Aircraft	Max Wind Speed Resistance	8 m/s (Level 4)
Aircraft	Operating Temperature	-10° to 40° C (14° to 104° F)
Aircraft	Global Navigation Satellite System	GLONASS + GPS + Galileo + BeiDou
Aircraft	Hovering Accuracy Range	Vertical: ±0.1 m (with vision positioning) ±0.5 m (with GNSS positioning) Horizontal: ±0.3 m (with vision positioning) ±1.5 m (with GNSS positioning)
Aircraft	Internal Storage	22 GB
Aircraft	Class	C0 (EU)
Camera	Image Sensor	1/2-inch image sensor
Camera	Lens	FOV: 117.6° Format Equivalent: 13 mm Aperture: f/2.8 Focus: 0.6 m to ∞
Camera	ISO Range	100-6400 (Auto) 100-6400 (Manual)
Camera	Shutter Speed	Video: 1/8000-1/30 s Photo: 1/8000-1/10 s
Camera	Max Image Size	12 MP Photo 4000×3000 (4:3) 4000×2256 (16:9)
Camera	Still Photography Modes	Single/Timed Shot
Camera	Photo Format	JPEG

Camera	Video Resolution	EIS Off: 4K (4:3): 3840×2880@30fps 1080p (4:3): 1440×1080@60/50/30fps EIS On: 4K (16:9): 3840×2160@30fps 1080p (16:9): 1920×1080@60/50/30fps
Camera	Video Format	MP4
Camera	Max Video Bitrate	75Mbps
Camera	Supported File System	exFAT
Camera	Color Mode	Normal
Camera	EIS	Supports RockSteady, HorizonBalancing, and turning stabilization off.* ^{* When using a 16:9 aspect ratio, only RockSteady or HorizonBalancing can be enabled. Stabilization is not available in 4:3 aspect ratio. When stabilization is turned off, footage captured supports offline stabilization with Gyroflow.}
Gimbal	Stabilization	Single-axis mechanical gimbal (tilt)
Gimbal	Mechanical Range	Tilt: -120° to 120°
Gimbal	Controllable Range	Tilt: -90° to 60°
Gimbal	Max Control Speed (tilt)	100°/s
Gimbal	Angular Vibration Range	±0.01°
Gimbal	Image Roll Correction	Supports correction of footage recorded on the drone Live view correction is unavailable only when using with goggles
Sensing	Sensing Type	Downward visual positioning
Sensing	Downward	Precise Hovering Range: 0.5-10 m
Sensing	Operating Environment	Downward: Non-reflective, discernible surfaces with diffuse reflectivity of >20% (such as walls, trees, or people) Adequate lighting (lux > 15, normal indoor lighting conditions)
Video Transmission	Video Transmission System	O4

Video Transmission	Live View Quality	With DJI RC-N3 Remote Controller: Up to 1080p/30fps With DJI Goggles 3 plus DJI RC Motion 3/DJI FPV Remote Controller 3: Up to 1080p/60fps
Video Transmission	Operating Frequency	2.400-2.4835 GHz 5.170-5.250 GHz 5.725-5.850 GHz ^{Operating frequency allowed varies among countries and regions. Please refer to local laws and regulations for more information.}
Video Transmission	Transmitter Power (EIRP)	2.4 GHz: <26 dBm (FCC) < 20 dBm (CE/SRRC/MIC) 5.1 GHz: < 23 dBm (CE) 5.8 GHz: <26 dBm (FCC) < 14 dBm (CE) < 26 dBm (SRRC)
Video Transmission	Communication Bandwidth	Max 40 MHz
Video Transmission	Max Transmission Distance (unobstructed, free of interference)	FCC: 10 km CE: 6 km SRRC: 6 km MIC: 6 km ^{The data was measured in an unobstructed outdoor environment free of interference and showed the farthest communication range for one-way, non-return flights under each standard. The maximum video transmission distance in the actual flight scenarios is limited by the drone's maximum flight distance. Always pay attention to RTH reminders on the live view during your flight.}
Video Transmission	Max Transmission Distance (unobstructed, 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.}
Video Transmission	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 environments with}

		typical low interference. Used for reference purposes only and provides no guarantee for actual transmission distance.</sup>
Video Transmission	Max Download Speed	Wi-Fi: 25 MB/s ^{Measured in a laboratory environment with little interference in countries/regions that support both 2.4 GHz and 5.8 GHz. Download speeds may vary depending on the actual conditions.}
Video Transmission	Lowest Latency	With DJI RC-N3 Remote Controller: Approx. 120 ms ^{Depending on the actual environment and mobile device.}
Video Transmission	Max Video Bitrate	50Mbps
Video Transmission	Antennas	Two antennas, 1T2R
Wi-Fi:	Protocol	802.11a/b/g/n/ac
Wi-Fi:	Operating Frequency	2.400-2.4835 GHz 5.725-5.850 GHz ^{Operating frequency allowed varies among countries and regions. Please refer to local laws and regulations for more information.}
Wi-Fi:	Transmitter Power (EIRP)	2.4 GHz: < 20 dBm (FCC/CE/SRRC/MIC) 5.8 GHz: < 20 dBm (FCC/SRRC) < 14 dBm (CE)
Wi-Fi:	Effective Operating Range	50 m ^{Tested in an outdoor open environment free of interference. The video transmission distance varies by operating environment.}
Bluetooth	Protocol	Bluetooth 5.1
Bluetooth	Operating Frequency	2.400-2.4835 GHz ^{Operating frequency allowed varies among countries and regions. Please refer to local laws and regulations for more information.}
Bluetooth	Transmitter Power (EIRP)	< 10 dBm
Battery	Capacity	1435 mAh
Battery	Weight	Approx. 45 g
Battery	Nominal Voltage	7.3 V

Battery	Max Charging Voltage	8.6 V
Battery	Type	Li-ion
Battery	Energy	10.5 Wh
Battery	Charging Temperature	5° to 40° C (14° to 104° F)
Battery	Charging Time	When Using the Two-Way Charging Hub (60W max charging power): Approx. 60 minutes to charge three batteries simultaneously from 0% to 100% When Directly Charging the Aircraft Body (15W max charging power): Approx. 50 minutes to charge from 0% to 100%
Charger	Recommended Charger	DJI 65W Portable Charger USB Power Delivery charger
Battery Charging Hub	Input	5 V, 3 A 9 V, 3 A 12 V, 3 A 15 V, 3 A 20 V, 3 A
Battery Charging Hub	Output (charging)	5 V, 2 A
Battery Charging Hub	Charging Type	3 batteries charged simultaneously ^{The number of batteries that can be charged simultaneously depends on the power of the charger used. Using a charger of more than 45 W allows for charging three batteries at once while using a charger of less than 45 W can only charge two batteries simultaneously. Refer to the charging protocols supported by the charger.}
Battery Charging Hub	Compatibility	DJI Neo Intelligent Flight Battery
Storage	Recommended microSD Cards	Does not support storage expansion with an external SD card
DJI RC-N3 Remote Controller	Max Operating Time	Without Charging Any Mobile Device: 3.5 hours When Charging a Mobile Device: 1.5 hours
DJI RC-N3 Remote Controller	Operating Temperature	-10° to 40° C (14° to 104° F)

DJI RC-N3 Remote Controller	Charging Temperature	5° to 40° C (14° to 104° F)
DJI RC-N3 Remote Controller	Charging Time	2 hours
DJI RC-N3 Remote Controller	Charging Type	5 V, 2 A
DJI RC-N3 Remote Controller	Battery Capacity	2600 mAh
DJI RC-N3 Remote Controller	Weight	Approx. 320 g
DJI RC-N3 Remote Controller	Dimensions	104.2×150×45.2 mm (L×W×H)
DJI RC-N3 Remote Controller	Operating Frequency	2.400-2.4835 GHz 5.170-5.250 GHz 5.725-5.850 GHz ^{Operating frequency allowed varies among countries and regions. Please refer to local laws and regulations for more information.}
DJI RC-N3 Remote Controller	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)