aircraft

Takeoff weight

151 grams (excluding DJI Neo 2 digital video transmission module)
160 grams (including DJI Neo 2 digital video transmission module).

Product weight may vary due to different batches of materials, etc. Please refer to the actual product.

size

147 mm long, 171 mm wide, and 41 mm high (including propeller protection, excluding DJI Neo 2 digital image transmission module);
167 mm long, 171 mm wide, and 54 mm high (including propeller protection and DJI Neo 2 digital image transmission module).

Maximum speed of ascent

0.5 m/s (Smooth mode)
3 m/s (Normal mode)
5 m/s (Sport mode)

[illegible] aircraft takes off from 0 meters above

Maximum descent speed

0.5 m/s (Smooth mode)
3 m/s (Normal mode)
3 m/s (Sport mode)

[illegible] aircraft takes off from 0 meters above

Maximum horizontal flight speed

8 m/s (normal mode)
12 m/s (sport mode)
12 m/s (follow mode)

[illegible] aircraft takes off from 0 meters above

Maximum takeoff altitude

The measurement was taken at an altitude of 2000

[illegible] until

Longest flight time

Approximately 19 minutes (approximately 17 minutes with propeller guards) *
Each battery can continuously complete at least 20 handheld takeoffs and landings.**

[illegible]

Maximum hover time

The measurement was taken in a windless environment for approximately 18 minutes (16.5 minutes with propeller guards)

[illegible] was

Maximum cruising range	The distance was measured at 7 km [illegible]
Maximum wind resistance speed	10.7 m/s (Force 5 wind)
Operating ambient temperature	-10℃ to 40℃
Satellite navigation system	GPS + Galileo + BeiDou
Hovering accuracy	Vertical: ±0.1 meters (when visual positioning is working normally) ±0.5 meters (when satellite positioning is working normally) Horizontal: ±0.3 meters (when visual positioning is working normally) ±1.5 meters (when satellite positioning is working normally)
Onboard memory	49GB
Classification	EU C0

camera

Image sensor	1/2-inch image sensor
lens	Field of view (FOV): 119.8° ; Equivalent focal length: 16.5 mm;

Aperture: f/2.2;
Focus point: 0.7 meters to infinity.

ISO range	Photo: 100 to 3200 (single shot, auto) 100 to 12800 (burst/timer, auto) 100 to 12800 (manual) Video: 100 to 12800 (auto) 100 to 12800 (manual)
Shutter speed	Video recording: 1/8000 to 1/30 second; Photo recording: 1/8000 to 1/10 second
Maximum photo size	12-megapixel photos: 4000×3000 (4:3) 4000×2250 (16:9)
Photo shooting mode	Single shot/Timer shot: 12MP , 2/3/5/7/10/15/20/30/60 seconds.
Image format	JPEG
Video resolution	Horizontal shooting: 4K (4:3): 3840×2880@60/50/30fps 1080p (4:3): 1440×1080@60/50/30fps 4K (16:9): 3840×2160@100*/60/50/30fps 1080p (16:9): 1920×1080@100*/60/50/30fps **Vertical shooting:** 2.7K (9:16): 1512×2688@60/50/30fps *4K/100fps and 1080p/100fps recording is only supported when using motion control or remote control.
Video Format	MP4

Maximum video bitrate 80Mbps

Supported file systems exFAT

Color Mode Normal mode

Electronic Stabilization Supports RockSteady stabilization and stabilization off*.

*The stabilization switch is only available when using goggles. When stabilization is off,
recorded footage supports Gyroflow offline stabilization.

gimbal

Stable system Dual-axis mechanical gimbal (pitch axis, roll axis)

Structural design scope Pitch: -125° to 105°;
Roll: -43° to 43°

Controllable rotation range Pitch: -90° to 70°

Maximum control speed (pitch) 100°/s

Angle jitter ±0.01°

Tilt correction Supports video correction.

Real-time image correction is not supported only when using with flight goggles.

Perception

Perception system type	An omnidirectional monocular vision system, combined with a downward-looking infrared sensing system and a forward-looking LiDAR.
Forward	Ranging range: 0.5 meters to 10 meters; Detectable range: 0.5 meters to 15 meters; Effective obstacle avoidance speed: ≤8 meters per second.
Rearview	Detectable range: 0.5 meters to 15 meters; Effective obstacle avoidance speed: ≤8 meters per second
Side view	Detectable range: 0.5 meters to 15 meters; Effective obstacle avoidance speed: ≤8 meters per second
Upward	Detectable range: 0.5 meters to 15 meters; Effective obstacle avoidance speed: ≤3 meters per second (flight speed)
Looking down	Detectable range: 0.5 meters to 15 meters; Effective obstacle avoidance speed: ≤3 meters per second (flight speed)
Infrared ranging sensor	Forward-looking lidar: Ranging range: 0.3 meters to 8 meters (reflectivity greater than 10%); Field of view (FOV): 60° horizontally, 60° vertically . Downward-looking infrared ranging sensor: Ranging range: 0.3 meters to 8 meters (reflectivity greater than 10%).
Effective use environment	Front, back, left, right, and top: The surface has rich texture and sufficient lighting (greater than 5 lux). Bottom: The surface has rich texture and sufficient lighting (greater than 5 lux), and the surface is a diffuse reflective material with a reflectivity greater than 20% (such as walls, trees, people, etc.).

Image transmission

Image transmission solution	Standard configuration includes Wi-Fi video transmission and expandable DJI Neo 2 digital video transmission module (O4)
Real-time image transmission quality	DJI RC-N3 Remote Control: Up to 1080p/60fps; DJI Flight Goggles N3 with Passover Stick 3/FPV Remote Control 3: Up to 1080p/60fps; DJI Flight Goggles 3 with Passover Stick 3/FPV Remote Control 3: Up to 1080p/100fps
Operating frequency band	The supported operating frequency bands and their corresponding availability vary by country/region. Please refer to local laws and regulations for details .
Transmit 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)
Communication bandwidth	Maximum 60 MHz
Maximum signal effective distance (no interference, no obstruction)	FCC: 10 km ; CE: 6 km ; SRRC: 6 km ; MIC: 6 km.
Maximum signal	Strong interference: Urban center, approximately 1.5 to 3 kilometers ; Medium

effective distance (with interference and without obstruction)

interference: Suburban county towns, approximately 3 to 6 kilometers;
Slight interference: Remote suburbs/coastal areas, approximately 6 to 10 kilometers.

[illegible] typical

Maximum effective signal range (with interference and obstruction)

Minor interference with building obstruction: approximately 0 to 0.5 km;
Minor interference with foliage obstruction: approximately 0.5 to 3 km.

[illegible]

Maximum download speed

Wi-Fi: 80 MB/s.

[illegible] that

Minimum latency

With DJI RC-N3 or DJI RC-2 remote controller: approximately 120 milliseconds.
With DJI Goggles N3 (1080p/60fps image transmission): minimum 54 milliseconds.
With DJI Goggles 3 (1080p/100fps image transmission): minimum 50 milliseconds.

[illegible] measured in

Maximum image transmission bitrate

60Mbps

antenna

Two antennas (one for transmitting and two for receiving)

Wi-Fi

protocol

802.11a/b/g/n/ac/ax

Operating frequency band	The supported operating frequency bands and their corresponding availability vary by country/region, ranging from 2.400 GHz to 2.4835 GHz and from 5.725 GHz to 5.850 GHz. Please refer to local laws and regulations for details.
Transmit power (EIRP)	2.4 GHz: <20 dBm (FCC/CE/SRRC/MIC) 5.8 GHz: <26 dBm (FCC/SRRC) <14 dBm (CE)
Effective working range	The 500-meter [illegible]

Bluetooth

protocol	Bluetooth 5.2
Operating frequency band	The supported operating frequency bands and their corresponding availability vary from country to country/region between 2.400 GHz and 2.4835 GHz . Please refer to local laws and regulations for details.
Transmit power (EIRP)	<10 dBm

Battery

capacity	1606 mAh
weight	46 grams
nominal voltage	7.16 volts

Charging limit voltage	8.6 volts
Battery Type	Li-ion
chemical system	LiNiMnCoO2
energy	11.5 watt-hours
Charging ambient temperature	5℃ to 40℃
Charging time	Using the charging assistant (maximum charging power 65 watts): It takes approximately 68 minutes to fully charge three batteries from zero. Using the device's own charging mechanism (maximum charging power 15 watts): It takes approximately 70 minutes to fully charge from zero Charging times were measured in an environment at 25°C. Actual charging times may increase due to higher ambient temperatures or different environments.

charger

Recommended charger	DJI 65W Portable Charger - USB charger supporting USB PD fast charging protocol.

Charging Butler

enter	5 volts, maximum 5 amps ; 9 volts, maximum 5 amps; 12 volts, maximum 5 amps ; 15 volts, maximum 4.33 amps ; 20 volts, maximum 3.25 amps . Maximum current depends on adapter capacity.

Output (charging)	5 volts, 2 amps
Charging method	The number of batteries that can be
Battery adapter	Supports DJI Neo 2 Smart Flight Battery

storage

Recommended memory card list	External SD card expansion is not supported.

DJI RC-N3 Remote Control

Longest battery life	Without charging the mobile device: 3.5 hours; With charging the mobile device: 1.5 hours
Operating ambient temperature	-10℃ to 40℃
Charging ambient temperature	5℃ to 40℃
Charging time	2 hours
Charging method	5 volts, 2 amps

Battery capacity	2600 mAh
weight	Approximately 320 grams
size	104.2 mm long, 150 mm wide, and 45.2 mm high.
Operating frequency band	The supported operating frequency bands and their corresponding availability vary by country/region. Please refer to local laws and regulations for details.
Transmit 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)