Specs

Aircraft

- **Takeoff Weight**

- 724 g

- **Dimensions**

- Folded (without propellers): 214.19×100.63×89.17 mm (L×W×H)
  Unfolded (without propellers): 266.11×325.47×106.00 mm (L×W×H)

- **Max Ascent Speed**

- 10 m/s

- **Max Descent Speed**

- 10 m/s

- **Max Horizontal Speed**

- At sea level, in windless conditions:
  21 m/s*

  At sea level, with 6 m/s tailwind, while flying in the same direction as the wind:
  27 m/s*

  * Measured in a wind tunnel test environment when taking off from an altitude of 0 meter and ascending vertically to a height of 1.5 meters above the ground in Sport mode, and is for reference only. Always pay attention to reminders on the camera view during your flight.
  * 19 m/s in the EU region.

- **Max Takeoff Altitude**

- 6000 m

- **Max Flight Time**

- 45 minutes

  Measured by DJI Air 3S flying forward at a constant speed of 32.4 kph in a windless environment at sea level, with Obstacle Avoidance Action set to Brake, in photo mode, and from 100% battery level until 0%. Data is for reference only. Always pay attention to reminders in the app during your flight.

- **Max Hovering Time**

- 41 minutes

Measured by DJI Air 3S hovering in a windless environment at sea level, with Obstacle Avoidance Action set to Brake, in photo mode, and from 100% battery level until 0%. Data is for reference only. Always pay attention to reminders in the app during your flight.

- **Max Flight Distance**

- 32 km

Measured by DJI Air 3S flying forward at a constant speed of 48.6 kph in a windless environment at sea level, with Obstacle Avoidance Action set to Brake, in photo mode, and from 100% battery level until 0%. Data is for reference only. Always pay attention to reminders in the app during your flight.

- **Max Wind Speed Resistance**

- 12 m/s

- **Max Pitch Angle**

- 36°

- **Operating Temperature**

- -10° to 40° C (14° to 104° F)

- **Global Navigation Satellite System**

- GPS + Galileo + BeiDou

- **Hovering Accuracy Range**

- Vertical:
  ±0.1 m (with vision positioning)
  ±0.5 m (with satellite positioning)

  Horizontal:
  ±0.3 m (with vision positioning)
  ±0.5 m (with satellite positioning)

- **Internal Storage**

- 42 GB

- **Class**

- C1 (EU)

Camera

- **Image Sensor**

- Wide-Angle Camera: 1-inch CMOS, 50MP Effective Pixels
  Medium Tele Camera: 1/1.3-inch CMOS, 48MP Effective Pixels

- **Lens**

- Wide-Angle Camera
  FOV: 84°
  Format Equivalent: 24 mm
  Aperture: f/1.8
  Focus: 0.5 m to ∞

  Medium Tele Camera
  FOV: 35°
  Format Equivalent: 70 mm
  Aperture: f/2.8
  Focus: 3 m to ∞

- **ISO Range**

- Video
  Normal:
  100-12800 (Normal)
  100-3200 (D-Log M)
  100-3200 (HLG)
  Slow Motion:
  100-6400 (Normal)
  100-3200 (D-Log M)
  100-3200 (HLG)

  Photo
  100-6400 (12 MP)
  100-3200 (48 MP and 50 MP)

- **Shutter Speed**

- Wide-Angle Camera
  12MP Photo: 1/8000-2 s (2.5-8 s for simulated long exposure)
  50MP Photo: 1/8000-2 s

  Medium Tele Camera
  12MP Photo: 1/16000-2 s (2.5-8 s for simulated long exposure)
  48MP Photo: 1/8000-2 s

- **Max Image Size**

- Wide-Angle Camera: 8192×6144
  Medium Tele Camera: 8064×6048

- **Still Photography Modes**

- Wide-Angle Camera
  Single Shot: 12 MP and 50 MP
  Burst Shooting: 12 MP, 3/5/7 frames; 50 MP, 3/5 frames

Automatic Exposure Bracketing (AEB): 12 MP, 3/5/7 frames; 50 MP, 3/5 frames at 0.7 EV step
Timed: 12 MP, 2/3/5/7/10/15/20/30/60 s; 50 MP, 5/7/10/15/20/30/60 s

Medium Tele Camera
Single Shot: 12 MP and 48 MP
Burst Shooting: 12 MP, 3/5/7 frames; 48 MP, 3/5 frames
Automatic Exposure Bracketing (AEB): 12 MP, 3/5/7 frames; 48 MP, 3/5 frames at 0.7 EV step
Timed: 12 MP, 2/3/5/7/10/15/20/30/60 s; 48 MP, 5/7/10/15/20/30/60 s

- **Photo Format**

- JPEG/DNG (RAW)

- **Video Resolution**

- Wide-Angle Camera/Medium Tele Camera:
  H.264/H.265
  4K: 3840×2160@24/25/30/48/50/60/120*fps
  FHD: 1920×1080@24/25/30/48/50/60/120*/240*fps
  2.7K Vertical Shooting: 1512×2688@24/25/30/48/50/60fps

* Recording frame rates. The corresponding video plays as a slow-motion video. Slow-motion videos and 4K video recordings only support H.265 encoding.

- **Video Format**

- MP4 (MPEG-4 AVC/H.264, HEVC/H.265)

- **Max Video Bitrate**

- H.264/H.265: 130 Mbps*

* When shooting 4K/120fps video in D-Log M mode with the DJI Air 3S, the video encoding bitrate can reach up to 130Mbps, corresponding to a video stream frame rate of 120fps. However, since slow-motion video files are encapsulated at 30fps, the video length displayed on the player is four times the recording duration, and the bitrate of the parsed encapsulated file is approximately one-fourth of the original encoding bitrate.

- **Supported File System**

- exFAT

- **Color Mode and Sampling Method**

- Wide-Angle/Medium Tele Camera
  Normal (FHD/2.7K): 8-bit 4:2:0 (H.264)
  Normal (FHD/2.7K): 10-bit 4:2:0 (H.265)
  HLG/D-Log M (FHD/2.7K): 10-bit 4:2:0 (H.264/H.265)
  Normal/HLG/D-Log M (4K): 10-bit 4:2:0 (H.265)

- **Digital Zoom**

- Wide-Angle Camera: 1-2.9x
  Medium Tele Camera: 3-9x

Gimbal

- **Stabilization**

- 3-axis mechanical gimbal (tilt, roll, pan)

- **Mechanical Range**

- Tilt: -135° to 70°
  Roll: -50° to 50°
  Pan: -27° to 27°

- **Controllable Range**

- Tilt: -90° to 60°
  Pan: -5° to 5°

- **Max Control Speed (tilt)**

- 100°/s

- **Angular Vibration Range**

- ±0.0037°

Sensing

- **Sensing Type**

- Omnidirectional binocular vision system, supplemented with forward-facing LiDAR and an infrared sensor at the bottom of the aircraft

- **Forward**

- Measurement Range: 0.5-18 m
  Detection Range: 0.5-200 m
  Effective Sensing Speed: Flight Speed ≤ 15 m/s
  FOV: Horizontal 90°, Vertical 72°

- **Backward**

- Measurement Range: 0.5-18 m
  Effective Sensing Speed: Flight Speed ≤ 14 m/s
  FOV: Horizontal 90°, Vertical 72°

- **Lateral**

- Measurement Range: 0.5-30 m
  Effective Sensing Speed: Flight Speed ≤ 14 m/s
  FOV: Horizontal 90°, Vertical 72°

- **Upward**

- Measurement Range: 0.5-18 m
  Effective Sensing Speed: Flight Speed ≤ 6 m/s
  FOV: Front and Back 72°, Left and Right 90°

- **Downward**

- Measurement Range: 0.3-14 m
  Effective Sensing Speed: Flight Speed ≤ 6 m/s
  FOV: Front and Back 106°, Left and Right 90°

- **Operating Environment**

- Forward, Backward, Left, Right, and Upward:
  Surfaces with discernible patterns and adequate lighting (lux > 1)
  Downward:
  Surfaces with discernible patterns, diffuse reflectivity > 20% (e.g., walls, trees, people), and adequate lighting (lux > 1)

- **3D Infrared Sensor**

- Forward-Facing LiDAR
  Measurement Range (nighttime): 0.5-25 m (reflectivity > 10%)
  FOV: Up and Down 60°, Left and Right 60°

  Downward-Facing Infrared Sensor
  Measurement Range: 0.3-8 m (reflectivity > 10%)
  FOV: Front and Back 60°, Left and Right 60°

Video Transmission

- **Video Transmission System**

- O4

- **Live View Quality**

- Remote Controller:
  1080p/30fps, 1080p/60fps

- **Operating Frequency**

- 2.4000-2.4835 GHz
  5.170-5.250 GHz
  5.725-5.850 GHz

  Operating frequency allowed varies among countries and regions. Refer to local laws and regulations for more information.

- **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)
  < 30 dBm (SRRC)
  < 14 dBm (CE)

- **Max Transmission Distance (unobstructed, free of interference)**

- FCC: 20 km
  CE: 10 km
  SRRC: 10 km
  MIC: 10 km

  Measured in an unobstructed outdoor environment free of interference. The above data shows the farthest communication range for one-way, non-return flights under each standard. Always pay attention to RTH reminders in the app during your flight.

- **Max Transmission Distance (unobstructed, with interference)**

- Strong Interference: Urban landscape, approx. 1.5-4 km
  Medium Interference: Suburban landscape, approx. 4-10 km
  Low Interference: Suburb/Seaside, approx. 10-20 km

  Measured under FCC standard in unobstructed environments with typical interference. Used for reference purposes only and provides no guarantee for actual transmission distance.

- **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

  Measured under FCC standard in obstructed environments with typical low interference. Used for reference purposes only and provides no guarantee for actual transmission distance.

- **Max Download Speed**

- O4:
  10 MB/s (with DJI RC-N3)
  10 MB/s (with DJI RC 2)
  Wi-Fi 5: 30 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.

- **Lowest Latency**

- Aircraft + Remote Controller: Approx. 120 ms

Depending on the actual environment and mobile device.

- **Antenna**

- 6 antennas, 2T4R

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:
  < 20 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)**

- < 10 dBm

Battery

- **Capacity**

- 4276 mAh

- **Weight**

- Approx. 247 g

- **Nominal Voltage**

- 14.6 V

- **Max Charging Voltage**

- 17.2 V

- **Type**

- Li-ion 4S

- **Energy**

- 62.5 Wh

- **Charging Temperature**

- 5° to 40° C (41° to 104° F)

- **Charging Time**

- Approx. 80 minutes (with DJI 65W Portable Charger)
  Approx. 60 minutes (with DJI 100W USB-C Power Adapter and Battery Charging Hub)

Charger

- **Input**

- DJI 65W Portable Charger:
  100-240 V (AC), 50-60 Hz, 2 A

  DJI 100W USB-C Power Adapter:
  100-240 V (AC), 50-60 Hz, 2.5 A

- **Output**

- DJI 65W Portable Charger:
  USB-C
  5 V, 5 A
  9 V, 5 A
  12 V, 5 A
  15 V, 4.3 A
  20 V, 3.25 A
  5-20 V, 3.25 A

  USB-A
  5 V, 2 A

  DJI 100W USB-C Power Adapter:

Max 100 W (total)

When both ports are used, the max output power of one port is 82 W, and the charger will dynamically allocate the output power of the two ports according to the power load.

- **Rated Power**

- DJI 65W Portable Charger: 65 W
  DJI 100W USB-C Power Adapter: 100 W

Battery Charging Hub

- **Input**

- USB-C: 5-20 V, max 5 A

- **Output (power accumulation)**

- Battery Port: 12-17.2 V, 3.5 A

- **Output (charging)**

- Battery Port: 12-17.2 V, max 5 A

- **Output (USB)**

- USB-C:
  5 V, 3 A
  9 V, 5 A
  12 V, 5 A
  15 V, 5 A
  20 V, 4.1 A

- **Charging Type**

- Three batteries charged in sequence

- **Compatibility**

- DJI Air 3 Intelligent Flight Battery
  DJI Air 3S Intelligent Flight Battery

Car Charger

- **Input**

- Car Power Input:
  12.7-16 V, 6.5 A, rated voltage 14 V (DC)

- **Output**

- USB-C:
  5 V, 5 A
  9 V, 5 A

12 V, 5 A
15 V, 4.3 A
20 V, 3.25 A
5-20 V, 3.25 A

USB-A:
5 V, 2 A

- **Rated Power**

- 65 W

- **Charging Temperature**

- 5° to 40° C (41° to 104° F)

Storage

- **Recommended microSD Cards**

- Lexar 1066x 64GB V30 U3 A2 microSDXC
  Lexar 1066x 128GB V30 U3 A2 microSDXC
  Lexar 1066x 256GB V30 U3 A2 microSDXC
  Lexar 1066x 512GB V30 U3 A2 microSDXC
  Kingston Canvas GO! Plus 64GB V30 U3 A2 microSDXC
  Kingston Canvas GO! Plus 128GB V30 U3 A2 microSDXC
  Kingston Canvas GO! Plus 256GB V30 U3 A2 microSDXC
  Kingston Canvas GO! Plus 512GB V30 U3 A2 microSDXC

DJI RC-N3 Remote Controller

- **Max Operating Time**

- Without Charging Any Mobile Device: 3.5 hours
  When Charging a Mobile Device: 1.5 hours

- **Max Supported Mobile Device Size**

- 180×86×10 mm (L×W×H)

- **Operating Temperature**

- -10° to 40° C (14° to 104° F)

- **Charging Temperature**

- 5° to 40° C (41° to 104° F)

- **Charging Time**

- 2 hours

- **Charging Type**

- It is recommended to use a 5V/2A charger.

- **Battery Capacity**

- 9.36 Wh (3.6 V, 2600 mAh)

- **Weight**

- Approx. 320 g

- **Dimensions**

- 104.2×150×45.2 mm (L×W×H)

- **Supported Mobile Device Port Type**

- Lightning, USB-C, Micro-USB

  Using a mobile device with a Micro-USB port requires the DJI RC-N Series RC Cable (Standard Micro USB Connector), which is sold separately.

- **Video Transmission Operating Frequency**

- 2.4000-2.4835 GHz
  5.170-5.250 GHz
  5.725-5.850 GHz

  Operating frequency allowed varies among countries and regions. Refer to local laws and regulations for more information.

- **Video Transmission Transmitter Power (EIRP)**

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  5.1 GHz:
  < 23 dBm (CE)

  5.8 GHz:
  < 33 dBm (FCC)
  < 14 dBm (CE)
  < 30 dBm (SRRC)