



Clifton Cameras Product Specification

DJI Air 3

Item	Spec	Spec Value
Aircraft	Takeoff Weight	720 g
Aircraft	Dimensions	Folded (without propellers): 207×100.5×91.1 mm (L×W×H) Unfolded (without propellers): 258.8×326×105.8 mm (L×W×H)
Aircraft	Max Ascent Speed	10 m/s
Aircraft	Max Descent Speed	10 m/s
Aircraft	Max Horizontal Speed (at sea level, no wind)	21 m/s ^{19 m/s in EU regions.}
Aircraft	Max Takeoff Altitude	6000 m
Aircraft	Max Flight Time	46 minutes ^{Measured by DJI Air 3 flying at a constant speed of 28.8 kph in a windless environment at sea level, with APAS off, AirSense off, camera parameters set to 1080p/24fps, video mode off, and from 100% battery level until 0%. Data is for reference only. Always pay attention to reminders in the app during your flight.}
Aircraft	Max Hovering Time	42 minutes ^{Measured by DJI Air 3 hovering in a windless environment at sea level, with APAS off, AirSense off, camera parameters set to 1080p/24fps, video mode off, and from 100% battery level until 0%. Data is for reference only. Always pay attention to reminders in the app during your flight.}
Aircraft	Max Flight Distance	32 km
Aircraft	Max Wind Speed Resistance	12 m/s
Aircraft	Max Pitch Angle	35°
Aircraft	Operating Temperature	-10° to 40° C (14° to 104° F)
Aircraft	Global Navigation Satellite System	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) ±0.5 m (with high-precision positioning system)
Aircraft	Internal Storage	8 GB
Camera	Image Sensor	Wide-Angle Camera: 1/1.3-inch CMOS, Effective Pixels: 48 MP Medium Tele Camera: 1/1.3-inch CMOS, Effective Pixels: 48 MP
Camera	Lens	Wide-Angle Camera FOV: 82° Format Equivalent: 24 mm Aperture: f/1.7 Focus: 1 m to ∞

		Medium Tele Camera FOV: 35° Format Equivalent: 70 mm Aperture: f/2.8 Focus: 3 m to ∞
Camera	ISO Range	Video Normal and Slow Motion: 100-6400 (Normal) 100-1600 (D-Log M) 100-1600 (HLG) Night: 100-12800 (Normal) Photo 100-6400
Camera	Shutter Speed	Wide-Angle Camera 12MP Photo: 1/16000-2 s (2-8 s for simulated long exposure) 48MP Photo: 1/8000-2 s Medium Tele Camera 12MP Photo: 1/16000-2 s (2-8 s for simulated long exposure) 48MP Photo: 1/8000-2 s
Camera	Max Image Size	Wide-Angle Camera: 8064×6048 Medium Tele Camera: 8064×6048
Camera	Still Photography Modes	Wide-Angle 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 and 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 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 and 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
Camera	Photo Format	JPEG/DNG (RAW)
Camera	Video Resolution	Wide-Angle Camera: H.264/H.265 4K: 3840×2160@24/25/30/48/50/60/100*fps FHD: 1920×1080@24/25/30/48/50/60/100*/200*fps 2.7K Vertical Shooting: 1512×2688@24/25/30/48/50/60fps FHD Vertical Shooting: 1080×1920@24/25/30/48/50/60fps Medium Tele Camera: H.264/H.265 4K: 3840×2160@24/25/30/48/50/60/100*fps FHD: 1920×1080@24/25/30/48/50/60/100*/200*fps 2.7K Vertical Shooting: 1512×2688@24/25/30/48/50/60fps FHD Vertical Shooting: 1080×1920@24/25/30/48/50/60fps ^{* Recording frame rates. The corresponding video plays as slow-motion video. 4K/100fps only supports H.265.}
Camera	Video Format	MP4 (MPEG-4 AVC/H.264, HEVC/H.265)
Camera	Max Video Bitrate	H.264/H.265: 150 Mbps
Camera	Supported File System	exFAT
Camera	Color Mode and Sampling Method	Wide-Angle Camera Normal: 8-bit 4:2:0 (H.264/H.265) HLG/D-Log M: 10-bit 4:2:0 (H.265)

		Medium Tele Camera Normal: 8-bit 4:2:0 (H.264/H.265) HLG/D-Log M: 10-bit 4:2:0 (H.265)
Camera	Digital Zoom	Wide-Angle Camera: 1-3x Medium Tele Camera: 3-9x
Gimbal	Stabilization	3-axis mechanical gimbal (tilt, roll, pan)
Gimbal	Mechanical Range	Tilt: -135° to 70° Roll: -50° to 50° Pan: -27° to 27°
Gimbal	Controllable Range	Tilt: -90° to 60° Pan: -5° to 5°
Gimbal	Max Control Speed (tilt)	100° /s
Gimbal	Angular Vibration Range	±0.0037°
Sensing	Sensing Type	Omnidirectional binocular vision system, supplemented with an infrared sensor at the bottom of the aircraft
Sensing	Forward	Measurement Range: 0.5-18 m Detection Range: 0.5-200 m Effective Sensing Speed: Flight Speed ≤ 12 m/s FOV: Horizontal 90°, Vertical 72°
Sensing	Backward	Measurement Range: 0.5-18 m Effective Sensing Speed: Flight Speed ≤ 12 m/s FOV: Horizontal 90°, Vertical 72°
Sensing	Lateral	Measurement Range: 0.5-30 m Effective Sensing Speed: Flight Speed ≤ 12 m/s FOV: Horizontal 90°, Vertical 72°
Sensing	Upward	Measurement Range: 0.5-18 m Effective Sensing Speed: Flight Speed ≤ 6 m/s FOV: Front and Back 72°, Left and Right 90°
Sensing	Downward	Measurement Range: 0.3-14 m Effective Sensing Speed: Flight Speed ≤ 6 m/s FOV: Front and Back 106°, Left and Right 90°
Sensing	Operating Environment	Forward, Backward, Left, Right, and Upward: Surfaces with discernible patterns and adequate lighting (lux > 15) Downward: Surfaces with discernible patterns, diffuse reflectivity > 20% (e.g. walls, trees, people), and adequate lighting (lux > 15)
Sensing	3D Infrared Sensor	Measurement Range: 0.1-8 m (reflectivity > 10%) FOV: Front and Back 60°, Left and Right 60°
Video Transmission	Video Transmission System	O4
Video Transmission	Live View Quality	Remote Controller: 1080p/30fps, 1080p/60fps
Video Transmission	Operating Frequency	2.4000-2.4835 GHz 5.170-5.250 GHz 5.725-5.850 GHz ^{5.170-5.250 GHz can be used only in countries and regions where permitted by local laws and regulations.}
Video Transmission	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)
Video Transmission	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.}
Video Transmission	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 ^{Data tested under FCC standard in unobstructed environments with typical interference. Used for reference purposes only and provides no guarantee for actual transmission 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 obstructed environments with typical low interference. Used for reference purposes only and provides no guarantee for actual transmission distance.}
Video Transmission	Max Download Speed	O4: 10 MB/s (with DJI RC-N2 Remote Controller) 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.}
Video Transmission	Lowest Latency	Aircraft + Remote Controller: approx. 120 ms ^{Depending on the actual environment and mobile device.}
Video Transmission	Antenna	6 antennas, 2T4R
Wi-Fi	Protocol	802.11 a/b/g/n/ac
Wi-Fi	Operating Frequency	2.400-2.4835 GHz 5.725-5.850 GHz
Wi-Fi	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
Bluetooth	Operating Frequency	2.400-2.4835 GHz
Bluetooth	Transmitter Power (EIRP)	< 10 dBm
Battery	Capacity	4241 mAh

Battery	Weight	Approx. 267 g
Battery	Nominal Voltage	14.76 V
Battery	Max Charging Voltage	17 V
Battery	Type	Li-ion 4S
Battery	Energy	62.6 Wh
Battery	Charging Temperature	5° to 40° C (41° to 104° F)
Battery	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
Charger	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.}
Charger	Rated Power	DJI 65W Portable Charger: 65 W DJI 100W USB-C Power Adapter: 100 W
Storage	Recommended microSD Cards	SanDisk Extreme PRO 32GB V30 U3 A1 microSDHC 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 React Plus 64GB V90 U3 A1 microSDXC Kingston Canvas React Plus 128GB V90 U3 A1 microSDXC Kingston Canvas React Plus 256GB V90 U3 A1 microSDXC Samsung EVO Plus 512GB V30 U3 A2 microSDXC