

Clifton Cameras Product Specification

DJI Air 2S Drone

Aircraft

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| Takeoff Weight: | 595g |
| Dimensions: | Folded: 180x97x77mm (lengthxwidthxheight) Unfolded: 183x253x77mm (lengthxwidthxheight) |
| Diagonal Length: | 302mm |
| Max Ascent Speed: | 6m/s (S Mode) 6m/s (N Mode) |
| Max Service Ceiling Above Sea Level: | 5000m |
| Max Flight Time (no wind): | 31 minutes |
| Max Hovering Time: | 30 minutes |
| Max Flight Distance: | 15.8km |
| Max Flight Speed: | 19m/s (S Mode) 15m/s (N Mode) 5m/s (C Mode) |
| Mac Wind Speed Resistance: | 8.5-10.5 m/s |
| Max Tilt Angle: | 35 degree 25 degree (N Mode; 35 degree under heavy winds) |
| Max Angular Velocity: | 250 degree/s (S Mode) 90 degree/s (N Mode) |
| Operating Temperature Range: | 0° TO 40°C (Upward sensors and camera AF will be disabled at -10°C) |
| Opeterating Frequency: | 2.4GHz 5.8 GHz |
| Transmission Power EIRP: | 2.4GHz FCC: ≤30dBm CE: ≤20 dBm SRRC: ≤20 dBm MIC: ≤20dBm 5.8 GHz FCC: ≤30 dBm CE: ≤14 dBm SRRC: ≤29 dBm |
| Hovering Accuracy Range: | Vertical: ± 0.1m (with vision positioning) ± 0.5m (with GPS positioning) Horizontal: ± .01m (with vision positioning) ± 0/5m (with GPS positioning) |
| Propellers: | Quick release, low noise, folding |
| Aircraft Arms: | Foldable |
| GNSS: | GPS+GLONASS |
| Compass: | Single Compass |
| IMU: | Single IMU |
| Internal Storage: | 8GB |

Intelligent Flight Battery

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| Capacity: | 3500 mAh |
| Voltage: | 11.55 V |
| Max Charging Voltage: | 13.2V |
| Battery Type: | LiPo 3S |
| Energy: | 40.42 Wh |
| Weight: | 198 g |



Charging Temperature Range: 5° to 40°C (41° to 104°F)
Max Charging Power: 38 W
Built-in Battery: N/A

Camera

Sensor: 1" CMOS
Effective Pixels: 20 MP; 2.4µm Pixel Size
Lens: FOV: 88°
AF, 35 mm Format Equivalent: 22 mm
Aperture: f/2.8
Shooting Range: 0.6 m to ∞

ISO Range
Video:
100-3200 (Auto)
100-6400 (Manual)
10-Bit Dlog-M Video:
100-800 (Auto)
100-1600 (Manual)
Photo:
100-3200 (Auto)
100-12800 (Manual)

Still Image Size: 20 MP
5472x3648 (3:2)
5472x3078 (16:9)

Still Photography Modes: Single shot: 20 MP
Burst shooting: 20 MP (continuous burst)
Auto Exposure Bracketing (AEB): 20 MP, 3/5 bracketed frames at 0.7 EV bias
Timed: 20 MP, 2/3/5/7/10/15/20/30/60s
SmartPhoto (including HDR and HyperLight): 20 MP
HDR Panorama:
Vertical (3x1): 3328x8000 (widthxheight)
Wide-angle (3x3): 8000x6144 (widthxheight)
180° (3x7): 8192x3500 (widthxheight)
Sphere (3x8+1): 8192x4096 (widthxheight)
JPEG/DNG (RAW)

Video Resolution: 5.4K: 5472x3078 @ 24/25/30 fps
4K Ultra HD: 3840x2160 @ 24/25/30/48/50/60 fps
2.7K: 2688x1512 @ 24/25/30/48/50/60 fps
FHD: 1920x1080 @ 24/25/30/48/50/60/120 fps
MP4/MOV (H.264/MPEG-4 AVC, H.265/HEVC)

Max Video Bitrate: 150 Mbps
Supported File System: FAT32/exFAT
Supports a microSD card with a capacity of up to 256 GB.

Digital Zoom: Zoom recording is not available while recording 10-bit videos and 120fps videos.
4K/30fps:
4x;
2.7K/60fps:
4x;
2.7K/30fps:
6x;
1080p/60fps:
6x;
1080p/30fps:

Gimbal

Stabilization: 3-axis (tilt, roll, pan)
Mechanical Range: Tilt: -135° to 45°
Roll: -45° to 45°
Pan: -100° to 100°

Pan Axis: Controllable
Controllable Range: Tilt: -90° to 0°(default); -90° to 24° (extended)
Pan: -80° to 80°

Max Controllable Speed (tilt): 100°/s
Angular Vibration Range: ±0.01°

Sensing System

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| Forward: | Precision Measurement Range: 0.35-22.0 m Detection Range: 0.35-44 m Effective Sensing Speed: ≤15 m/s Field of View (FOV): 71° (horizontal), 56° (vertical) |
| Backward: | Precision Measurement Range: 0.37-23.6 m Detection Range: 0.37-47.2 m Effective Sensing Speed: 12 m/s Field of View (FOV): 57° (horizontal), 44° (vertical) |
| Downward: | Available Downward Sensors: Dual Vision Sensors + Time of Flight Sensors (ToF) ToF Measurement Range: 0.1-8 m Hovering Range: 0.5-30 m |
| Left/Right: | N/A |
| Upward: | Precision Measurement Range: 0.35-22.0 m |
| Field of View (FOV): | 78° (horizontal), 63° (vertical) |
| Downward Auxiliary Light: | Single LED |

Video Transmission

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| Transmission System: | O3 2.4 GHz/5.8 GHz Auto-Switching (compatible with OcuSync 2.0) 4-antenna 2T4R |
| Max Transmission Distance: | 12 km (FCC), 8 km (CE) 8 km (SRRC), 8 km (MIC) |
| Live View Quality/Latency: | Drone + Remote Controller: 1080p/30fps 12 Mbps <120 ms Drone + DJI Smart Controller: 1080p/30fps 12Mbps <130 ms |
| Max Transmission Bitrate: | 44 Mbps |
| Operating Frequency: | 2.4 GHz 5.8 GHz |

Remote Controller

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| Multiple Controllers: | N/A |
| DJI Smart Controller: | Supported |
| Remote Controller | |
| Transmission System: | OcuSync 2.0 |
| Battery Life: | 6 hours (4 hours when charging a mobile device) |
| Supported Mobile Device | |
| Connectors: | Lightning, Micro USB, USB-C |
| Max Supported Mobile | |
| Device Size: | 180x86x10 mm (lengthxwidthxheight) |
| Operating Temperature: | -10° to 40°C (14° to 104°F) |
| Transmitter Power (EIRP): | 2.4 GHz: FCC: ≤26 dBm CE: ≤20 dBm SRRC: ≤20 dBm MIC: ≤20 dBm 5.8 GHz: FCC: ≤26 dBm CE: ≤14 dBm SRRC: ≤26 dBm |

Charger

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|-------------------------|---|
| Charging Input: | 100-240V, 50/60 Hz, 1.3 A |
| Charging Output: | Charging Port: 13.2 V=2.82 A USB Port: 5 V=2 A |
| Voltage: | 13.2 V |
| Rated Power: | 38 W |