

## **Clifton Cameras Product Specification**

## DJI Air 3S Full Spec

item_title	spec_key	spec_value
Aircraft	Takeoff Weight	724 g
Aircraft	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)
Aircraft	Max Ascent Speed	10 m/s
Aircraft	Max Descent Speed	10 m/s
Aircraft	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 27 m/s vind: 27 m/s vind: 28 with 6 m/s tailwind, while flying in the same direction as the wind: wind: 29 m/s wind: 
Aircraft	Max Takeoff Altitude	6000 m
Aircraft	Max Flight Time	45 minutes <sup>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.</sup>
Aircraft	Max Hovering Time	41 minutes
Aircraft	Max Flight Distance	32 km <sup>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.</sup>
Aircraft	Max Wind Speed Resistance	12 m/s
Aircraft	Max Pitch Angle	36°
Aircraft	Operating Temperature	-10° to 40° C (14° to 104° F)
Aircraft	Global Navigation	GPS + Galileo + BeiDou



	Satellite System	
		Vertical:
Aircraft		±0.1 m (with vision positioning)
		±0.5 m (with satellite positioning)
	Hovering Accuracy	
	Range	Horizontal:
		±0.3 m (with vision positioning)
		±0.5 m (with satellite positioning)
Aircraft	Internal Storage	42 GB
Aircraft	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
		Wide-Angle Camera
		FOV: 84° br>
		Format Equivalent: 24 mm
		Aperture: t/1.8 br>
Comoro		Focus: 0.5 m to ∞ cost
Camera	Lens	Medium Tele Camera-bra
		FOV: 35°-chrs
		Format Equivalent: 70 mm
		Aperture: f/2.8 br>
		Focus: 3 m to ∞
		Video
		Normal:
		100-12800 (Normal)
		100-3200 (D-Log M)
		100-3200 (HLG)
		Slow Motion:
Camera	ISO Range	100-6400 (Normal)
		100-3200 (D-Log M)
		100-3200 (HLG)
		Dhata ha
		100-0400 (12 MP)<01>
		Wide-Angle Comera-hrs
		12MP Photo: 1/8000-2 s (2 5-8 s for simulated long exposure)-chrs
		50MP Photo: 1/8000-2 s br>
Camera	Shutter Speed	
canora		Medium Tele Camera
		12MP Photo: 1/16000-2 s (2.5-8 s for simulated long exposure)
		48MP Photo: 1/16000-2 s
Camora	Max Imaga Siza	Wide-Angle Camera: 8192×6144
Camera	Max Image Size	Medium Tele Camera: 8064×6048
		Wide-Angle Camera
Camera		Single Shot: 12 MP and 50 MP
		Burst Shooting: 12 MP, 3/5/7 frames; 50 MP, 3/5 frames
	Still Photography Modes	Automatic Exposure Bracketing (AEB): 12 MP, 3/5/7 frames; 50 MP, 3/5
		trames at 0.7 EV step br>
		нтеа: 12 мР, 2/3/5///10/15/20/30/60 s; 50 MP, 5/7/10/15/20/30/60
		2 1
		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 br>
		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)
		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
Camera	Video Resolution	2.7K Vertical Shooting: 1512×2688@24/25/30/48/50/60tps
		<pre>&lt; Recording frame rates. The corresponding video plays as a clow-</pre>
		motion video. Slow-motion videos and 4K video recordings only support H 265
		encoding.
Camera	Video Format	MP4 (MPEG-4 AVC/H.264, HEVC/H.265)
Camera	Max Video Bitrate	H.264/H.265: 130 Mbps
2	Supported File	
Camera	System	exFAI
		Wide-Angle/Medium Tele Camera
	Color Mode and	Normal (FHD/2.7K): 8-bit 4:2:0 (H.264)
Camera	Sampling Method	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)
Camera	Digital Zoom	Mide-Angle Camera: 1-2.9x Medium Tele Camera: 3-9x
Gimbal	Stabilization	3-axis mechanical gimbal (tilt. roll. pan)
		Tilt: -135° to 70° br>
Gimbal	Mechanical Range	Roll: -50° to 50°
		Pan: -27° to 27°
Gimbal	Controllable Bange	Tilt: -90° to 60°
	e entre entr	Pan: -5° to 5°
Gimbal	Max Control Speed (tilt)	100°/s
Gimbal	Angular Vibration Range	±0.0037°
Sonoing		Omnidirectional binocular vision system, supplemented with forward-facing
Sensing	Sensing Type	LiDAR and an infrared sensor at the bottom of the aircraft
		Measurement Range: 0.5-18 m
Sensing	Forward	Detection Range: 0.5-200 m
Ū		Effective Sensing Speed: Flight Speed ≤ 15 m/s br>
		FOV: Horizontal 90°, Vertical 72°
Sensing	Backward	Effective Sensing Speed: Flight Speed < 14 m/s hr>
Containing	Daokward	FOV: Horizontal 90°. Vertical 72°
		Measurement Range: 0.5-30 m
Sensing	Lateral	Effective Sensing Speed: Flight Speed ≤ 14 m/s
		FOV: Horizontal 90°, Vertical 72°
		Measurement Range: 0.5-18 m
Sensing	Upward	Effective Sensing Speed: Flight Speed ≤ 6 m/s dr>
		FOV: Front and Back 72°, Left and Right 90°
Sonsing	Downward	Measurement Kange: U.3-14 m br>
Sensing	Downward	Energive Sensing Speed. Fight Speed 5 0 III/S <di></di>



Sensing	Operating	Forward, Backward, Left, Right, and Upward: Surfaces with discernible patterns and adequate lighting (lux > 1)
	Environment	Downward:
	Linvironment	Surfaces with discernible patterns, diffuse reflectivity > 20% (e.g., walls, trees,
		people), and adequate lighting (lux > 1)
		Forward-Facing LiDAR <dr></dr>
		FOV: Up and Down 60° Left and Bight 60°-chr-chr-
Sensing	3D Infrared Sensor	
contening		Downward-Facing Infrared Sensor
		Measurement Range: 0.3-8 m (reflectivity > 10%)
		FOV: Front and Back 60°, Left and Right 60°
Video	Video Transmission	04
Transmission	System	04
Video	Live View Quality	Remote Controller:
Transmission	Live view Quanty	1080p/30fps, 1080p/60fps
		2.4000-2.4835 GHz
Video	Operating	5.170-5.250 GHz
Transmission	Frequency	5.725-5.850 GHz
		<sup>Operating frequency allowed varies among countries and regions. Refer</sup>
		to local laws and regulations for more information.
		2.4 GHz: br>
		< 33 dBm (FCC) br>
		< 20 dBm (CE/SRRC/MIC) <dr><dr></dr></dr>
		51 GHz: cho
Video	Transmitter Power	< 23  dBm (CE) $<$ br> $<$ br> $<$ br> $<$
Transmission	(EIRP)	
		5.8 GHz:
		< 33 dBm (FCC)
		< 30 dBm (SRRC)
		< 14 dBm (CE)
		FCC: 20 km
		CE: 10 km
	Max Transmission	SRRC: 10 km
Video	Niax Transmission	MIC: 10 km
Transmission	(unobstructed free	
	of interference)	<sup>Measured in an unobstructed outdoor environment free of interference.</sup>
		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 hight.
	Max Transmission Distance (unobstructed, with interference)	Strong Interference: Orban landscape, approx. 1.5-4 km br>
Video Transmission		Nedium menerence. Suburban lanuscape, approx. 4-10 km cbr>
		<sup>Measured under ECC standard in unohstructed environments with</sup>
		typical interference. Used for reference purposes only and provides no
		guarantee for actual transmission distance.
	Max Transmission	Low Interference and Obstructed by Buildings: Approx. 0-0.5 km br>
		Low Interference and Obstructed by Trees: Approx. 0.5-3 km br> br>
Video	Distance	
Transmission	(obstructed, with	<sup>Measured under FCC standard in obstructed environments with typical</sup>
	interference)	low interference. Used for reference purposes only and provides no guarantee
		for actual transmission distance.
Video	Max Download	04: br>



Transmission	Speed	10 MB/s (with DJI RC-N3)
	•	10 MB/s (with DJI RC 2)
		Wi-Fi 5: 30 MB/s*
		<sup>* Measured in a laboratory environment with little interference in</sup>
		countries/regions that support both 2.4 GHz and 5.8 GHz. Download speeds
		may vary depending on the actual conditions
		Aircraft + Bemote Controller: Approx, 120 ms-br-sbr
Video	Lowest Latency	
Transmission	Lowest Latency	cours Depending on the actual environment and mahile device clours
		<sup>Depending on the actual environment and mobile device.</sup>
video	Antenna	6 antennas, 2T4R
Iransmission		
Wi-Fi	Protocol	802.11 a/b/g/n/ac
Wi-Fi	Operating	2.400-2.4835 GHz
	Frequency	5.725-5.850 GHz
		2.4 GHz:
		< 20 dBm (FCC/CE/SRRC/MIC)
	Transmitter Power	
VVI-FI	(EIRP)	5.8 GHz:
		< 20 dBm (FCC/SRRC)
		< 14 dBm (CE)
Bluetooth	Protocol	Bluetooth 5.2
	Operating	
Bluetooth	Froquency	2.400-2.4835 GHz
Bluetooth	I ransmitter Power	< 10 dBm
	(EIRP)	
Battery	Capacity	4276 mAh
Battery	Weight	Approx. 247 g
Battery	Nominal Voltage	14.6 V
_	Max Charging	
Battery	Voltage	17.2 V
Battery	Type	Li-ion 4S
Batton	Eporav	
Dallery	Energy	02.5 WII
Battery	Charging	5° to 40° C (41° to 104° F)
	Temperature	
		Approx. 80 minutes (with DJI 65W Portable Charger)
Battery	Charging Time	Approx. 60 minutes (with DJI 100W USB-C Power Adapter and Battery
		Charging Hub)
		DJI 65W Portable Charger:
		100-240 V (AC), 50-60 Hz, 2 A
Charger	Input	
		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 < br
		$15 \vee 43 \text{A-br}$
		20 V 3 25 A-br
		20  V, 0.20  Achr chr
		0-20 V, 0.20 A <ui>UI&gt;</ui>
		USB-Arba



		5 V, 2 A
		DJI 100W USB-C Power Adapter:
		$\max_{i \in [0, \infty)}  \psi_i(i)  <  \psi_i  >  \psi$
		<sup>When both ports are used, the max output power of one port is 82 W,</sup>
		and the charger will dynamically allocate the output power of the two ports
		according to the power load.
Chargor	Roted Rower	DJI 65W Portable Charger: 65 W
Charger	Raled Power	DJI 100W USB-C Power Adapter: 100 W
Battery Charging Hub	Input	USB-C: 5-20 V, max 5 A
Battery Charging Hub	Output (power accumulation)	Battery Port: 12-17.2 V, 3.5 A
Battery Charging Hub	Output (charging)	Battery Port: 12-17.2 V, max 5 A
		USB-C:
		5 V, 3 A
Battery	Output (USB)	9 V, 5 A
Charging Hub		12 V, 5 A br
		15 V, 5 A <dr></dr>
Battery		20 V, 4.1 A
Charging Hub	Charging Type	Three batteries charged in sequence
Battery	Compatibility	DJI Air 3 Intelligent Flight Battery
Charging Hub		DJI Air 3S Intelligent Flight Battery
Car Charger	Input	Car Power Input: do 7 do 1/ 0 5 A retained with the day (DO)
		12.7-16 V, 6.5 A, rated voltage 14 V (DC)
		5V 5 A-br
		9 V 5 A
		12 V 5 A <br< td=""></br<>
	_	15 V, 4.3 A
Car Charger	Output	20 V, 3.25 A
		5-20 V, 3.25 A
		USB-A:
		5 V, 2 A
Car Charger	Rated Power	65 W
Car Charger	Charging Temperature	5° to 40° C (41° to 104° F)
		Lexar 1066x 64GB V30 U3 A2 microSDXC
		Lexar 1066x 128GB V30 U3 A2 microSDXC
		Lexar 1066x 256GB V30 U3 A2 microSDXC
Storage	Recommended	Lexar 1066x 512GB V30 U3 A2 microSDXC
	microSD Cards	Kingston Canvas GO! Plus 64GB V30 U3 A2 microSDXC br>
		Kingston Canvas GOI Plus 128GB V30 U3 A2 MICroSDXC <dr></dr>
		Kingston Canvas GO! Plus 512GB V30 U3 A2 microSDXC<
DJI BC-N3		
Remote	Max Operating Time	Without Charging Any Mobile Device: 3.5 hours
Controller		When Charging a Mobile Device: 1.5 hours
DJI RC-N3	Max Supported	
Remote	Mobile Device Size	180×86×10 mm (L×W×H)



Controller		
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 (41° to 104° F)
DJI RC-N3 Remote Controller	Charging Time	2 hours
DJI RC-N3 Remote Controller	Charging Type	It is recommended to use a 5V/2A charger.
DJI RC-N3 Remote Controller	Battery Capacity	9.36 Wh (3.6 V, 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	Supported Mobile Device Port Type	Lightning, USB-C, Micro-USB <sup>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.</sup>
DJI RC-N3 Remote Controller	Video Transmission Operating Frequency	2.4000-2.4835 GHz 5.170-5.250 GHz 5.725-5.850 GHz <sup>Operating frequency allowed varies among countries and regions. Refer to local laws and regulations for more information.</sup>
DJI RC-N3 Remote Controller	Video Transmission Transmitter Power (EIRP)	2.4 GHz: < 33 dBm (FCC) < 20 dBm (CE/SRRC/MIC) 5.1 GHz: < 23 dBm (CE) < 33 dBm (CE) < 33 dBm (FCC) << 14 dBm (CE) < < 30 dBm (SRRC)