

Clifton Cameras Product Specification

Autel EVO Lite & Lite+ Drone Full Specs

EVO Lite Series Specification		
Aircraft	Takeoff weight	820g
	Dimensions (including blades)	Folded: 210×104×85mm Unfolded: 430×517×85mm
	Wheelbase	368mm
	Max ascent speed	8m/s (sport), 5m/s (normal), 3m/s (stable)
	Max descent speed	4m/s (sport), 3m/s (normal), 2m/s (stable)
	Max level flight speed(no wind, near sea level)	19m/s (sport), 10m/s (normal), 5m/s (stable)
	Max takeoff altitude	5000m
	Max flight time (no wind)	40min
	Max hovering time (no wind)	38min
	Max flight distance (no wind)	24km
	Max wind resistance	Level 7
	Max tilt angle	33°(movement), 25°(normal), 25°(stable)
	Max angular velocity	200°(movement), 120°(normal), 60°(stable)
	Operating temperature	-10°C ~ 40°C
	Operating frequency	2.400-2.4835GHz, 5.725-5.850GHz, 5.150-5.250GHz
	Transmission power (EIRP)	FCC:≤30dBm
	GNSS	GPS
	Hovering accuracy	Vertical:±0.1m (when the visual positioning is active), ±0.5m (with GPS positioning); Horizontal:±0.3m (when the visual positioning is active), ±1.5m (with GPS positioning);
Gimbal (Lite)	Mechanical range	Pitch: -135°~45° Roll: -45°~45° Yaw: -90°~90° Rotate: -400°~400°
	Controllable range	Pitch: -90°~30° Yaw: -80°~80° Rotate: -360°~360°
	Stabilization	4-axis,(horizontal/vertical/tilt/rotation shooting)
	Max control speed (pitch)	30°/s
	Angular vibration range	±0.003°
Gimbal	Mechanical range	Pitch: -135°~45°

(Lite+)		Roll: -45°~45° Yaw: -90°~90°
	Controllable range	Pitch: -90°~ +30° Yaw: -80°~ +80°
	Stabilization	3-axis
	Max control speed (pitch)	30°/s
	Angular vibration range	±0.003°
Sensing system	Forward	Accurate measurement range: 0.5~18m Effective sensing speed: <12m/s FOV: horizontal <70°, vertical <88°
	Backward	Accurate measurement range: 0.5~18m Effective sensing speed: <12m/s FOV: horizontal <40°, vertical <30°
	Downward	Accurate measurement range: 0.5~22m Visual hovering range: 0.5~40m FOV: horizontal <40°, vertical <30°
	Operating environment	Forward, backward: Surface with clear pattern and adequate lighting(lux> 15) Downward: Surface with clear pattern and adequate lighting(lux> 15); Detects diffuse reflective surfaces(>20%) (walls, trees, people, etc.)
Camera (Lite)	Sensor	CMOS: 1/1.28 inch Effective pixels: 50M Pixel size: 1.22μm*1.22μm
	Lens	FOV: 85° Equivalent focal length: 23mm Aperture: f/1.9 Focus range: 0.5m ~ ∞ Focus mode: PDAF+CDAF/MF
	Shooting mode	Automatic mode (P gear): EV adjustable, ISO/Shutter automatic Manual mode (M gear): ISO/Shutter adjustable, EV not adjustable Shutter priority (S gear): Shutter/EV adjustable, ISO automatic
	ISO range	Video: ISO100 ~ ISO6400 Photo: ISO100 ~ ISO6400 Night scene mode: ISO up to 64000
	Shutter speed	Photo mode: 1/8000 ~ 8s Other: 1/8000 ~ 1/frame rates
	Portrait blur	Real-time image transmission portrait blur and photo portrait blur
	Defog mode	Support
	Zoom range	Digital zoom: 1 ~ 16 times Lossless zoom: 4K: 2 times; 1080p: 4 times Note: 4K: more than 2 times the digital, the following is lossless 1080P: more than 4 times the digital, the following is lossless
	Photo format	JPG / DNG / JPG+DNG
	Photo resolution	50MP : 8192x6144 (4:3) 12.5MP (default) : 4096x3072 (4:3) 4K : 3840x2160 (16:9)
	Photo shooting mode	Single shot Burst shooting: 3/5 Auto exposure bracketing(AEB): 3/5 shots

		Interval: 2s/3s/4s/5s (default)/6s/.../60s (DNG min 5s) HDR imaging: 8192x6144/4096x3072/3840x2160 HyperLight: 8192x6144/4096x3072/3840x2160
	Video coding format	H265/H264
	Video resolution	3840x2160 p60/50/48/30/25/24 2720x1528 p60/50/48/30/25/24 1920x1080 p120/60/50/48/30/25/24 HDR: 3840x2160 p30/25/24 2720x1528 p30/25/24 1920x1080 P60/50/48/30/25/24
	Max bitrate	120Mbps
	Timelapse	Original image : 3840*2160, JPG/DNG Video : 4K P25
	Panorama	Horizontal/Vertical/Wide-angle/Spherical Original image: 4096*3072, JPG/DNG
	Supported file system	Fat32、exFat
	Video format	MP4/MOV
	WIFI transfer	20MB/s
Camera (Lite+)	Sensor	CMOS: 1 inch Effective pixels: 20M Pixel size: 2.4μm*2.4μm
	Lens	FOV: 82° Equivalent focal length: 29mm Aperture: f/2.8 ~ f11 Focus range: 0.5m ~ ∞ Focus mode: CDAF/MF
	Shooting mode	Automatic mode (P gear): EV is adjustable, Shutter/Aperture is not adjustable, ISO is automatic or adjustable. Manual mode (M gear): ISO/Shutter/Aperture is adjustable, EV is not adjustable. Shutter priority (S file): Shutter/EV adjustable, Aperture automatic, ISO automatic or adjustable. Aperture priority (A gear): Aperture/EV adjustable, Shutter automatic, ISO automatic or adjustable.
	ISO range	Video: ISO100 ~ ISO6400 Photo: ISO100 ~ ISO6400 Night scene mode: ISO up to 64000
	Shutter speed	Photo mode: 1/8000 ~ 8s Other: 1/8000 ~ 1/frame rates
	Portrait blur	Real-time image transmission portrait blur and photo portrait blur
	Defog mode	Sopport
	Zoom range	Digital zoom: 1 ~ 16 times Lossless zoom: 4K: 1.3 times; 1080p: 3 times Note: 6K: Digital zoom 4K: more than 1.3 times the digital, the following is lossless 1080P: more than 3 times the digital, the following is lossless
	Photo format	JPG (10bit) / DNG(12bit) / JPG+DNG

	Photo resolution	5472x3648 (3:2, default) 5472x3076 (16:9) 3840x2160 (16:9)
	Photo shooting mode	Single shot Burst shooting: 3/5 Auto exposure bracketing(AEB): 3/5 shots Interval: 2s/3s/4s/5s (default)/6s/.../60s (DNG minimum 5s) HDR imaging: 5472x3648/3840x2160 HyperLight: 5472x3648/3840x2160
	Video coding format	H265/H264
	Video resolution	5472x3076 p30/25/24 3840x2160 p60/50/48/30/25/24 2720x1528 p60/50/48/30/25/24 1920x1080 p120/60/50/48/30/25/24 HDR: 3840x2160 p30/25/24 2720x1528 p60/50/48/30/25/24 1920x1080 p60/50/48/30/25/24
	Max bitrate	120Mbps
	Timelapse	Original image : 5472*3076/3840*2160, JPG/DNG Video : 5.4K/4K P25
	Panorama	Horizontal/Vertical/Wide-angle/Spherical Original image: 5472*3648, JPG/DNG
	Supported file system	Fat32、exFat
	Video format	MP4/MOV
	WIFI transfer	20MB/s
Remote control & image transmission	Operating frequency	2.400-2.4835GHz, 5.725-5.850GHz, 5.150-5.250GHz
	Max transmission distance (unobstructed, free of interference)	FCC : 12km
	Operating temperature	0°C ~ 40°C
	Transmission power (EIRP)	FCC : ≤30dBm
	Battery capacity	3930mAh
	Max battery life	~ 3.5h (when connected to a mobile phone) ~ 2.5h (when not connected to mobile phone)
	Interface type	Type C
	Transmission system	Autel SkyLink
	Max transmission quality	2.7K(<1km)
	Transmission bitrate	90Mbps
	Transmission delay	≤200ms
Adapter	Input	100-240V/50-60HZ
	Output	12.75V~5A
	Rated power	63.75W

Aircraft battery	capacity	6175mAh
	Voltage	11.13V
	Max charging voltage	12.75V
	Battery Type	Li-Po 3S
	Energy	68.7Wh
	Charging temperature	5~45°C
	Single battery charging time	90min
	Max charging power	78W
App	Mobile App	Autel Sky
	Mobile system required	iOS 12.0 and above Android 8.0 and above
Storage	Built-in storage	6GB
	SD storage	max. support 256GB (UHS-3 rating required)