#### **https://www.autelpilot.com/collections/autel-robotics-evo-lite-series/products/autel-robotics-evo-lite-plus-drone?variant=39529458696238**

#### **Lite Aircraft**

|  |  |
| --- | --- |
| ****Takeoff weight**** | 820g |
| ****Dimensions(including blades)**** | Folded: 210×104×85mmUnfolded: 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**** | 2.400-2.4835GHz5.725-5.850GHz5.150-5.250GHz |
| ****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); |
| ****Built-in storage**** | 6GB |
| ****SD storage**** | Max. support 256GB（UHS-3 rating required） |

#### **Gimbal**

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| --- | --- | --- |
|  | **Lite** | **Lite+** |
| ****Stabilization**** | 4-axis(horizontal/vertical/tilt/rotation shooting) | 3-axis |
| ****Mechanical Range**** | Pitch: -135°~45°Roll: -45°~45°Yaw: -90°~90°Rotate: -400°~400° | Pitch: -135°~45°Roll: -45°~45°Yaw: -90°~90° |
| ****Controllable Range**** | Pitch: -90°~30°Yaw: -80°~80°Rotate: -360°~360° | Pitch: -90°~30°Yaw: -80°~80° |
| ****Max Control Speed (pitch)**** | 30°/s | 30°/s |
| ****Angular Vibration Range**** | ±0.003° | ±0.003° |

#### **Perception System**

|  |  |
| --- | --- |
| ****Forward**** | Accurate measurement range: 0.5~18mEffective sensing speed:<12m/sFOV: horizontal<70°, vertical <88° |
| ****Backward**** | Accurate measurement range：0.5~18mEffective sensing speed：<12m/sFOV：Horizontal<40°,Vertical<30° |
| ****Downward**** | Accurate measurement range: 0.5~22mVisual hovering range: 0.5~40mFOV: 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**

|  |  |  |
| --- | --- | --- |
|  | **EVO Lite** | **EVO Lite+** |
| ****Sensor**** | CMOS: 1/1.28 inchEffective pixels: 50MPixel size: 1.22μm\*1.22μm | CMOS: 1 inchEffective pixels: 20MPixel size: 2.4μm\*2.4μm |
| ****Lens**** | FOV: 85°Equivalent focal length: 23mmAperture: f/1.9Focus range: 0.5m ~ ∞Focus mode: PDAF+CDAF/MF | FOV: 82°Equivalent focal length: 29mmAperture: f/2.8 ~ f11Focus range: 0.5m ~ ∞Focus mode: CDAF/MF |
| ****Shooting mode**** | Automatic mode (P gear): EV adjustable, ISO/Shutter automaticManual mode (M gear): ISO/Shutter adjustable, EV not adjustableShutter priority (S file): Shutter/EV adjustable, ISO automatic | 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 ~ ISO6400Photo: ISO100 ~ ISO6400Night scene mode: ISO up to 64000 | Video: ISO100 ~ ISO6400Photo: ISO100 ~ ISO6400Night scene mode: ISO up to 64000 |
| ****Shutter speed**** | Photo mode: 1/8000 ~ 8sOther: 1/8000 ~ 1/frame rates | Photo mode: 1/8000 ~ 8sOther: 1/8000 ~ 1/frame rates |
| ****Portrait blur**** | Real-time image transmission portrait blur and photo portrait blur | Real-time image transmission portrait blur and photo portrait blur |
| ****Defog mode**** | Support | Support |
| ****Zoom Range**** | Digital zoom: 1 ~ 16 timesLossless zoom: 4K: 2 times; 1080p: 4 timesNote:4K: more than 2 times the digital, the following is lossless1080P: more than 4 times the digital, the following is lossless | Digital zoom: 1 ~ 16 timesLossless zoom: 4K: 1.3 times; 1080p: 3 timesNote:6K: Digital zoom4K: more than 1.3 times the digital, the following is lossless1080P: more than 3 times the digital, the following is lossless |
| ****Photo format**** | JPG / DNG / JPG+DNG | JPG（10bit） / DNG(12bit) / JPG+DNG |
| ****Photo resolution**** | 50MP：8192x6144（4:3）12.5MP（default）：4096x3072（4:3）4K：3840x2160（16:9） | 5472x3648 (3:2，default)5472x3076 (16:9)3840x2160 (16:9) |
| ****Photo shooting mode**** | Single shotBurst shooing: 3/5Auto exposure bracketing(AEB): 3/5 shotsInterval: 2s/3s/4s/5s (default)/6s/.../60s (DNG min 5s)HDR imaging: 8192x6144/4096x3072/3840x2160HyperLight: 8192x6144/4096x3072/3840x2160 | Single shotBurst shooing: 3/5Auto exposure bracketing(AEB): 3/5 shotsInterval: 2s/3s/4s/5s (default)/6s/.../60s (DNG minimum 5s)HDR imaging: 5472x3648/3840x2160HyperLight: 5472x3648/3840x2160 |
| ****Video coding format**** | H265/H264 | H265/H264 |
| ****Video resolution**** | 3840x2160 p60/50/48/30/25/242720x1528 p60/50/48/30/25/241920x1080 p120/60/50/48/30/25/24HDR:3840x2160 p30/25/242720x1528 p30/25/241920x1080 P60/50/48/30/25/24 | 5472x3076 p30/25/243840x2160 p60/50/48/30/25/242720x1528 p60/50/48/30/25/241920x1080 p120/60/50/48/30/25/24HDR:3840x2160 p30/25/242720x1528 p60/50/48/30/25/241920x1080 p60/50/48/30/25/24 |
| ****Max bitrate**** | 120Mbps | 120Mbps |
| ****Timelapse**** | Original image:3840\*2160，JPG/DNGVideo: 4K P25 | Original image：5472\*3076/3840\*2160，JPG/DNGVideo：5.4K/4K P25 |
| ****Panorama**** | Horizontal/Vertical/Wide-angle/SphericalOriginal image: 4096\*3072，JPG/DNG | Horizontal/Vertical/Wide-angle/SphericalOriginal image: 5472\*3648, JPG/DNG |
| ****Supported file system**** | Fat32、exFat | Fat32、exFat |
| ****Video format**** | MP4/MOV | MP4/MOV |
| ****WIFI transfer**** | 20MB/s | 20MB/s |

#### **Remote controllor and image transmission**

|  |  |
| --- | --- |
| ****Operating frequency**** | 2.400-2.4835GHz5.725-5.850GHz5.150-5.250GHz |
| ****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 |
| ****Realtime transmission quality**** | Transmission distance<1km：2.7K 30fpsTransmission distance>1km：720P 30fps |
| ****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℃ |
| ****Single battery charging time**** | 90min |
| ****Max charging power**** | 78W |

#### **App**

|  |  |
| --- | --- |
| ****Mobile App**** | Autel Sky |
| ****Mobile system required**** | iOS 12.0 and aboveAndroid 8.0 and above |