




AIRCRAFT	
Aircraft Specifications	
Takeoff Weight	1127g (EVO II) 1174g (EVO II Pro) 1157g (EVO II Dual 320) 1192g (EVO II Dual 640)
Dimensions	Folded: 228*133*110 mm (length*width*height) Unfolded: 424*354*110 mm (length*width*height)
Diagonal Distance	397 mm
Max Ascent Speed	Standard mode: 5 m/s Ludicrous mode: 8 m/s
Max Descent Speed	Standard mode: 3 m/s Ludicrous mode: 4 m/s
Max Speed (near sea level, no wind)	Standard mode: 15 m/s Ludicrous mode: 20 m/s
Max Service Ceiling Above Sea Level	7000 m
Max Flight Time (no wind)	40 minutes
Max Hovering Time (no wind)	35 minutes
Max Flight Distance (no wind)	25 km
Max Wind Speed Resistance	Level 8
Max Tilt Angle	Standard mode: 28° Ludicrous mode: 33°
Max Angular Velocity	120°/s
Operating Temperature Range	-10°C to 40°C
Operating Frequency	2.4~2.4835GHz
Transmission Power (EIRP)	2.4~2.4835GHz FCC: ≤26 dBm ISED: ≤26 dBm CE: ≤20 dBm RCM: ≤20 dBm SRRRC: ≤26 dBm
GNSS	GPS/GLONASS/VIO/ATTI
Hovering Accuracy Range	Vertical: ± 0.02 m (when vision positioning is active) ± 0.2 m (with GPS positioning) Horizontal: ± 0.02 m (when vision positioning is active) ± 1.0 m (with GPS positioning)
Internal Storage	8 GB
SD Storage	Standard: 32 GB, max. support 256GB

Camera Specifications

Model Name	EVO II	EVO II Pro	EVO II Dual
Picture			
Sensor	1/2" CMOS Effective Pixels: 48 million Performance temperature: -20 ~ 60 °C	1" CMOS Effective Pixels: 20 million Performance temperature: -10 ~ 60 °C	1/2" CMOS 48 million + FLIR LWIR Sensor 640*512 (320*256 optional)
Lens	FOV: about 79° 35 mm Format Equivalent: 25.6 mm Aperture: f/1.8 Shooting Range: 0.5 m to ∞	FOV: about 77° 35 mm Format Equivalent: 28.6 mm @f/2.8 Aperture: f/2.8–f/11 Shooting Range: 1 m to ∞	Infrared Camera: FOV 32°, 14 mm lens combined with FLIR 640*512 sensor FOV 34°, 6.3 mm lens combined with FLIR 320*256 sensor
ISO Range	Video: ISO100–3200 (Auto) Video: ISO100–3200 (Manual) Photo: ISO100–3200 (Auto) Photo: ISO100–3200 (Manual)	Video: ISO100–3200 (Auto) Video: ISO100–6400 (Manual) Photo: ISO100–3200 (Auto) Photo: ISO100–12800 (Manual)	Visible Light & Picture in Picture (PiP) Mode: ISO100–3200 (Auto) ISO100–3200 (manual) Infrared: N/A
Shutter Speed	Electronic Shutter: 8 ~ 1/8000s	Electronic Shutter: 8 ~ 1/8000s	Visible Light & Picture in Picture (PiP) Mode: 8 ~ 1/8000s
Digital Zoom	1 ~ 8x (Max. 4x lossless zoom)	1 ~ 8x (Max. 3x lossless zoom)	1 ~ 8x (Max. 4x lossless zoom of Visible Light mode)
Still Image Resolution	8000*6000 (4:3)	5472*3648 (3:2)	Visible Light mode: same as EVO II Infrared mode: 640*512 Picture in Picture mode: 1920*1080, 1280*720
	7680*4320 (16:9)	5472*3076 (16:9)	
	4000*3000 (4:3)	3840*2160 (16:9)	
	3840*2160 (16:9)		
Still Image Format	JPEG / DNG / JPEG+DNG	JPEG / DNG / JPEG+DNG	Visible Light mode: same as EVO II Infrared & Picture in Picture mode: JPEG
Still Photography Modes	Single shot Burst shooting: 3/5 frames Auto Exposure Bracketing (AEB): 3/5 bracketed frames at 0.7 EV Bias Time Lapse: JPG: 2s/5s/7s/10s/20s/30s/60s DNG: 5s/7s/10s/20s/30s/60s HyperLight: support (under 4K JPEG format) Long exposure: Max. 8s HDR imaging: support (under 4K JPEG format)	Single shot Burst shooting: 3/5 frames Auto Exposure Bracketing (AEB): 3/5 bracketed frames at 0.7 EV Bias Time Lapse: JPG: 2s/5s/7s/10s/20s/30s/60s DNG: 5s/7s/10s/20s/30s/60s HyperLight: support (under 4K JPEG format) Long exposure: Max. 8s HDR imaging: support (under 4K JPEG format)	Visible Light mode: same as EVO II Infrared & Picture in Picture mode: Single shot, Burst shooting, Time Lapse
Video Resolution	7680*4320 p25/p24 5760*3240 p30/p25/p24 3840*2160 p60/p50/p48/p30/p25/p24 2720*1528 p120/p60/p50/p48/p30/p25/p24 1920*1080 p120/p60/p50/p48/p30/p25/p24	5472*3076 p30/p25/p24 3840*2160 p60/p50/p48/p30/p25/p24 2720*1528 p120/p60/p50/p48/p30/p25/p24 1920*1080 p120/p60/p50/p48/p30/p25/p24	Visible light mode: same as EVO II Infrared mode: 640*512 p60 (US) 640*512 p9 (Other regions) Picture in Picture mode: 1920*1080 p30 1280*720 p30
Video format	MOV / MP4	MOV / MP4	MOV / MP4
Codecs	H.264 / H.265	H.264 / H.265	H.264 / H.265
Max Video Bitrate	120Mbps	120Mbps	120Mbps
HDR Video Recording	support 3840*2160, 2720*1528, 1920*1080 HDR video recording	support 3840*2160, 2720*1528, 1920*1080 HDR video recording	Visible Light mode: same as EVO II
PIV Capture	support	support	support
Hyperlapse Recording	support (coming soon)	support (coming soon)	support (coming soon)
AE Mode	Auto / Manual / Shutter Priority	Auto / Manual / Shutter Priority / IRIS Priority	Visible Light mode: same as EVO II
AE Measurement	Center weighted / Spot	Center weighted / Spot	Visible Light mode: same as EVO II
EV Compensation	±3EV 0.3EV/step	±3EV 0.3EV/step	Visible Light mode: same as EVO II
AWB Mode	Auto / Manual (Sunny / Cloudy / Incandescent / Neon / Custom)	Auto / Manual (Sunny / Cloudy / Incandescent / Neon / Custom)	Visible Light mode: same as EVO II
AF Mode	Auto / Manual	Auto / Manual	Visible Light mode: same as EVO II
AF Range	0.5m ~ Infinity	1m ~ Infinity	Visible Light mode: same as EVO II
Assist Focus	support in MF mode	support in MF mode	Visible Light mode: same as EVO II
Touch AE/AF	support	support	Visible Light mode: same as EVO II
AE/AF Lock	support	support	Visible Light mode: same as EVO II
Color Mode	None / Black & White / Nostalgic / Log (10-bit)	None / Black & White / Nostalgic / Log (10-bit)	Visible Light mode: same as EVO II
Image Style	Standard / Neutral / Landscape / Custom	Standard / Neutral / Landscape / Custom	Visible Light mode: same as EVO II
Histogram	support	support	Visible Light mode: same as EVO II
Defog	support	support	Visible Light mode: same as EVO II
ROI	support	support	Visible Light mode: same as EVO II

SENSING SYSTEM

Sensing System Specifications	
Sensing System	Omnidirectional Obstacle Sensing
Forward	Precision Measurement Range: 0.5 - 20 m Detectable Range: 0.5 - 40 m Effective Sensing Speed: < 15m/s FOV: Horizontal: 60°, Vertical: 80°
Backward	Precision Measurement Range: 0.5 - 16 m Detectable Range: 0.5 - 32 m Effective Sensing Speed: < 12m/s FOV: Horizontal: 60°, Vertical: 80°
Upward	Precision Measurement Range: 0.5 - 12 m Detectable Range: 0.5 - 24 m Effective Sensing Speed: < 6m/s FOV: Horizontal: 60°, Vertical: 50°
Downward	Precision Measurement Range: 0.5 - 11 m Detectable Range: 0.5 - 22 m Effective Sensing Speed: < 6m/s FOV: Horizontal: 90°, Vertical: 70°
Sides	Precision Measurement Range: 0.5 - 12 m Detectable Range: 0.5 - 24 m Effective Sensing Speed: < 10m/s FOV: Horizontal: 60°, Vertical: 50°
Operating Environment	Forward, Backward, Upward and Sides: Surface with clear pattern and adequate lighting (lux > 20) Downward: Surface with clear pattern and adequate lighting (lux > 20) Detects diffuse reflective surfaces (>20%) (walls, trees, people, etc.)

Omnidirectional Obstacle Sensing includes **left/right, up/down, forward/backward** obstacle sensing. Omnidirectional Obstacle Sensing does not fully cover the circumference of a 360-degree arc. Please be aware of your surroundings and App notifications when operating the EVO II to ensure safety.

These specs have been determined through tests conducted with the latest firmware. Firmware updates can enhance performance, so updating to the latest firmware is highly recommended.

GIMBAL

Gimbal Specifications	
Weight	70g (EVO II) 107g (EVO II Pro) 100g (EVO II Dual 320) 135g (EVO II Dual 640)
Mechanical Range	Pitch: -135~45°, Roll: -45~45°, Yaw: ±100°
Controllable Range	Pitch: -90~0°, Roll: /, Yaw: -90~90°
Stabilization	3-axis (pitch, roll, yaw)
Max Control Speed (tilt)	200°/s
Angular Vibration Range	±0.003° @ 10m/s ±0.008° @ 15m/s ±0.013° @ 20m/s

INTELLEGEANT FLIGHT BATTERY

Aircraft Battery Specifications	
Capacity	7100 mAh
Voltage	11.55 V
Max Charging Voltage	13.2 V
Battery Type	LiPo 3S
Energy	82 Wh
Net Weight	365 g
Charging Temperature Range	5°C to 40°C
Max Charging Power	82 W

REMOTE CONTROLLER

Remote Control Specifications	
Operating Frequency	2.4~2.4835Ghz
Max Transmission Distance (unobstructed, free of interference)	FCC: 9km CE: 5km
Operating Temperature Range	-10°C - 40°C
Transmission Power (EIRP)	2.4~2.4835GHz FCC: ≤26 dBm ISED: ≤26 dBm CE: ≤20 dBm RCM: ≤20 dBm SRRRC: ≤20 dBm
Battery	5000 mAh
Weight	370g
Operating Current/Voltage	1.7A@3.7V
Charing Temperature Range	0 - 40°C
Supported Mobile Device Size	Max length: no limit; Max width: 84mm; Max thickness: 13mm;
Supported USB Port Types	Lightning, Micro USB (Type-B), USB-C
Operating hours	3 H
OLED NITS	330

CHARGER

Charger Specifications	
Input	100-240 V, 50/60 Hz, 1.5A
Output	Main: 13.2 V = 5 A USB: 5V=3A 9V=2A 12V=1.5A
Voltage	13.2 ± 0.1 V
Rated Power	66 W

APP

APP Specifications	
Video Transmission System	USB Transmission
Name	Autel Explorer
Live View Quality	Remote Controller: 720p@30fps Autel Explorer: 1080p@30fps
Latency (depending on environmental conditions and mobile device)	120 - 130 ms
Max Live View Bitrate	40Mbps
Operation system	IOS Android

SUPPORTED SD CARDS

SD Cards	
Supported SD Cards	Micro SD™ Supporting Micro SD with capacity up to 256 GB and R/W speed up to UHS-I Speed Grade 3
Recommended microSD Cards	32G Sandisk V30 Sandisk Extreme V30 Pro 64G Sandisk Extreme Pro V30 128G Sandisk Extreme V30 Sandisk Extreme Pro V30 Kingston Canvas Go! Kingston Canvas React