Autel EVO II Pro RTK



Advanced Aerial Platform



The Autel Robotics EVO II Pro RTK is an advanced, proven aerial platform used for high accuracy imagery gathering in the surveying, construction, engineering, mining, quarry, land development, and related industries.

Key Features

- FAA Remote ID Compliant
- RTK module for accuracy
- 36 minute flight time
- Level 8 wind resistance (39-46mph/62-74kph)
- 20mp 1" sensor camera on gimbal
- Smart controller with 7.9" screen
- Built-in mission planning software
- Compact, folding design for easy transport

What's Included

Carlson's Autel EVO II Pro RTK packages include:

- Aircraft with RTK module, battery, propellers, gimbal cover
- 7.9" Smart Controller
- 2 spare batteries
- Spare propellers (pair)
- AC battery charger, car
- charger, and multicharger
- Smart controller charger (USB-C)
- Spare controller sticksController neck strap
- Hard case for all of the above

The Carlson Software Advantage

Bundled with the power of **Carlson PhotoCapture** for the creation of surfaces, point clouds, orthoimages, and more and **Carlson Point Cloud Advanced** for further manipulation including bare earth filtering and feature extraction directly to CAD, the Autel EVO II Pro RTK becomes a powerful companion to traditional instruments and methods. All backed by the best unlimited, free tech support in the industry.







Aircraft Specifications

Weight (with propeller and battery): Wheelbase:	1237g 397mm	
Maximum service ceiling altitude:	6000m	
Max ascent speed:	5 m/s (automatic flight)	
	8 m/s (manual control)	
Max descent speed:	4 m/s	
Max horizontal flight speed:	72km/h (45mph)	
Max flight time:	36 min	
Operating temperature range:	-10° ~ 40° (14 ~ 104F)	
Maximum wind resistance: Level 8 (39-46mph/62-74kph)		
Operating frequency: 2.4 GHz - 2.483	5 GHz;5.65 – 5.755 GHz	
Hovering accuracy: ±0.1m horizon	tal and vertical (with RTK)	

GNSS and Gimbal Specifications

Single frequency high sensitivity GNSS: GNSS+BeiDou+GLONASS+Galileo (depending on region) Multi-frequency multi-system high-precision RTK GNSS: Frequency points used: GPS:L1/L2; GLONASS:L1/L2;BeiDou:B1/B2;Galileo:E1/E5 First positioning time:<50 s Positioning accuracy: Vertical 1.5 cm + 1 ppm (RMS); Horizontal 1 cm + 1 ppm (RMS) 1 ppm means that the error increases by 1 mm for every 1 km the aircraft moves Gimbal: Three-axis stabilization Mechanical range: Tilt:-135° to +45° Pan:-100° to +100° Tilt:-90° to +30° Controllable rotation range: Pan:-90° to +90° Max control speed (tilt): 300°/s Angular vibration range: +0.005°

REMOTE CONTROLLER AND IMAGE TRANSMISSION SPECIFICATIONS

Transmission power:

2.4~2.4835GHz; FCC/ISED:≤27dBm; SRRC/CE/MIC/RCM:≤20dBm; 5.725~5.850GHz FCC/ISED/SRRC/MIC:≤27dBm CE/RCM:≤14dBm **Max transmission distance (unobstructed, free of interference):** FCC:9 km; CE:5 km

Real-time image transmission quality:720p@30fps/1080p@30fpsMax bitrate of real-time image:40MbpsDisplay screen:7.9" OLED; 854x480Remote controller battery:5000mAh/3hrs runtimeCharging time:2hrs (fast charge)Working current/voltage:1.7A@3.7V

SENSING SYSTEM SPECIFICATIONS

Sensing system type: Omnidirectional sensing system (forward, backward, upward, downward, left and right Operating Environment: Forward, Backward and Sides:

Surface with clear pattern and adequate lighting (lux > 15) Upward: Detects diffuse reflective surfaces (>20%) (walls, trees, people, etc.) Downward: Surface with clear pattern and adequate lighting (lux > 15) Detects diffuse reflective surfaces (>20%) (walls, trees, people, etc.)

CAMERA SPECIFICATIONS

Sensor: Lens:	1 inch CMOS; 20 million effective pixels FOV 82°; Aperture f/2.8-f/11;	
201101	Focus range: 1m to infinity (with autofocus)	
ISO range:	100-6400 (video); 100-12800 (photo)	
Electronic shutter:	8-1/8000 s	
Zoom:	1-16x	
Photo mode:	Single shot	
	Burst shooting: 3/5 frames	
Auto Exposure B	racketing: 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)		
Photo resolution:	5472*3648 (3:2)	
	5472*3076 (16:9)	
	3840*2160 (16:9)	
Video resolution:	6K 5472*3076 p30/p25/p24	
	4K 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	
Effective frame:	5472x3648	
Max bitrate:	120 Mbps	
Photo format:	JPG (default); DNG	
Video format:	MOV (default); MP4	
Supported file system:	— • • • • • • • • •	
Supported SD cards:	Class4 / Class10 / U3	
	Capacity:4G / 8G / 16G / 32G / 128G	

BATTERY AND CHARGER SPECIFICATIONS

Battery capacity/voltage/type	: 7100) mAH, 82Wh/11.55V/LiPo 3S
Battery charging temperature	range:	5°C-45°C (41°F-113°F)
Battery storage temp and hun	nidity:	-10°C-30°C; 65 <u>+</u> 20%RH
Battery max charging capacity	/:	93W
Battery charge time:		90 minutes
Charger input:		100-240 V, 50/60 Hz, 1.5A
Charger output:	13.2V@5	A; 5V@3A 9V@2A; 12V@1.5A
Charger voltate/rated power:		13.2 ±0.1V/66W

STORAGE SPECIFICATIONS

Internal storage: SD storage: Sta

8GB Standard: 32GB, max supported 256GB (UHS-3 rating required)

