

Autel EVO II SERIES

Specifications

Camera

- Image Sensor: 1/2" CMOS
- Pixels: 48MP
- Perspective: 79°
- Lens:
 - Equivalent focal length: 25.6 mm
 - Aperture: f/1.8
 - Focus Distance: 0.5m to any distance (with autofocus mode)
- ISO Range
 - Video: 100-6400 (auto)
 - Photo: 100-3200 (auto)
- Zoom: 1-8x (Max 4x lossless)
- Still Photography Modes
 - Single Shot
 - Burst shooting: 3/5 frames
 - Automatic Exposure Bracketing (AEB) :
3/5 bracketed frames at 0.7 EV Bias
 - Timelapse :
 - 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: (under 4K JPEG)
- Still Photography Resolution
 - 8000*6000 (4:3)
 - 7680*4320 (16:9)
 - 4000*3000 (4:3)
 - 3840*2160 (16:9)
- Video Format
 - MP4 / MOV (MPEG-4 AVC/H.264, HEVC/H.265)
 - Video Resolution
 - 8K 7680*4320 p25/p24
 - 6K 5760*3240 p30/p25/p24
 - 4K 3840*2160 p60/p50/p48/p30/p25/p24
 - 2.7K 2720*1528 p120/p60/p50/p48/p30/p25/p24
 - FHD 1920*1080 p120/p60/p50/p48/p30/p25/p24
- Max Bitrate: 120Mbps

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Specifications

Aircraft

- Takeoff Weight: 2.5 lbs (1150 g)
- Max Takeoff Weight : 4.4 lbs (1999 g)
- Diagonal Wheelbase: 15.6 inches (397 mm)
- Aircraft Battery: 7100 mAh
- Max Flight Time (standard): 40 min
- Max Hovering Time (standard): 35 min
- Max Level Flight Speed (Standard): 45 mph (20 m/s) (Ludicrous)
- Max Ascent Speed: 18 mph (8 m/s) (Ludicrous)
- Max Descent Speed: 9 mph (4 m/s) (Ludicrous)
- Max Takeoff Altitude: 4.3 miles (7000 m)
- Max Wind Resistance: Force 8 wind
- Operating Environment Temp: 32-104 °F (0-40°C)
- Working Frequency (2.4G): 2.4~2.4835GHz
- Transmission Power (2.4G)
 - 2.4~2.4835GHz
 - FCC: ≤26 dBm
 - ISED: ≤26 dBm
 - CE: ≤20 dBm
 - RCM: ≤20 dBm
 - SRRC: ≤20 dBm
- Hover Precision
 - Vertical:
 - ± 0.02m (with visual positioning in normal operation)
 - ± 0.2m (with GPS in normal operation)
 - Horizontal:
 - ± 0.02m (with visual positioning in normal operation)
 - ± 0.2m (with GPS in normal operation)

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Specifications

Sensing System

- Sensing System Type: Omnidirectional Binocular Sensing System
- Forward
 - Accurate Measuring Range: 0.5 - 20m
 - Detection Range: 0.5 - 40m
 - Effective Sensing Speed: < 15 m/s
 - FOV: Horizontal: 60°, Vertical: 80°
- Backward
 - Accurate Measuring Range: 0.5 - 16m
 - Detection Range: 0.5 - 32m
 - Effective Sensing Speed: < 12 m/s
 - FOV: Horizontal: 60°, Vertical: 80°
- Upward
 - Accurate Measuring Range: 0.5 - 12m
 - Detection Range: 0.5 - 24m
 - Effective Sensing Speed: < 6 m/s
 - FOV: Horizontal: 65°, Vertical: 50°
- Downward
 - Accurate Measuring Range: 0.5 - 11m
 - Detection Range: 0.5 - 22m
 - Effective Sensing Speed: < 6 m/s
 - FOV: Horizontal: 100°, Vertical: 80°
- Sides
 - Accurate Measuring Range: 0.5 - 12m
 - Detection Range: 0.5 - 24m
 - Effective Sensing Speed: < 10 m/s
 - FOV: Horizontal: 65°, Vertical: 50°
- Service Environment
 - Textured/patterned ground and adequate illumination (> 15 lux, normal indoor environment with fluorescent lamp on)
 - Upward: diffuse reflecting surface with reflectivity above 20% (wall, tree, human, etc.)
 - Downward: textured/patterned ground and adequate illumination (> 15 lux, normal indoor environment with fluorescent lamp on)
 - diffuse reflecting surface with reflectivity above 20% (wall, tree, human, etc.)

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Specifications

Gimbal

- Operation Range
 - Pitch: -135° to +45°
 - Yaw: -100° to +100°
- Operation Range
 - Pitch: -90° to +30°
 - Yaw: -90° to +90°
- Stability: More Stable with 3 Axes
- Max Control Speed (Tilt): 300°/s
- Angular Vibration Range (°): $\pm 0.005^\circ$

Remote Controller and Transmission

- Max Signal Transmission Distance: 9km FCC, 5km CE
- Working Frequency (2.4G): 2.4~2.4835GHz
- Transmission Power (2.4G)
 - 2.4~2.4835GHz
 - FCC: ≤ 26 dBm
 - ISED: ≤ 26 dBm
 - CE: ≤ 20 dBm
 - RCM: ≤ 20 dBm
 - SRRC: ≤ 20 dBm
- Real-Time Transmission Quality: 720p@30fps / 1080p@30fps
- Max Bitrate of Real-time Transmission: 40Mbps
- Remote Controller Battery: 5000mAh
- Operating Hours: 3h
- Charging Time: 2h Fast Charging
- Display
 - 3.26-inch OLED screen
 - 854 (W)*480 (H) pixels
 - Preview video without the need for connecting to a mobile phone

1.7A@3.7V

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Specifications

Battery

- Battery (mAh): 7100mAh
- Voltage (V): 11.55
- Transmission Power (2.4G): 13.2
- Battery Type: LiPo 3S
- Battery Energy: 82Wh
- Weight (g): 365
- Charging Temperature Range (°C): 5~45°C
- Storage Temperature & Humidity: -10~30°C, 65±20%RH
- Recommended Storage Temperature: 22~28°C
- Max Charging Power Consumption (W): 93W
- Charging Time: 90min

Charger

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

APP

- iOS: Autel Explorer
- Android: Autel Explorer

Storage

- SD Storage
 - Standard: 32 GB,
 - max. support 256GB (UHS-3 rating required)
- Internal Storage: 8GB