**AIRCRAFT**

Weight (With Propeller and Battery):
1237g±0.5g (EVO II Pro RTK)

Wheelbase: 397 mm
Maximum Service Ceiling Altitude: 19,685 ft (6000 m)

Max Ascent Speed:
11.18 mph (5 m/s) (Automatic flight)
17.89 mph (8 m/s) (Manual control)

Max Descent Speed: 8.94 mph (4 m/s)
Max horizontal flight speed: 44.73 mph (72 km/h) (Ludicrous Mode)

Max Tilt Angle: 33° (Ludicrous)
Max Angular Velocity: 120°/s
Max Flight Time: 36 min

Operating Temperature Range: 14°F ~ 104°F (-10°C ~ 40°C)

Maximum Resistance to Wind: Level 8 (Fresh Gale at 39-46 mph)

Operating Frequency:
Non-Japan: 2.400 GHz - 2.4835 GHz; 5.725 - 5.850 GHz
Japan: 2.400 GHz - 2.4835 GHz; 5.650 - 5.755 GHz

Transmission Power:
2.4GHz
FCC/ISED:=27dBm
SRRC/CE/MIC/RCM:=20dBm
5.8G (non-Japan); 5.7G (non-Japan)
FCC/ISED/SRRC/MIC:=27dBm
CE/RCM:=14dBm

Hovering Accuracy:
When RTK is enabled and working normally:
Vertical: ±0.1 m; Horizontal: ±0.1 m
RTK is not enabled: vertical: ±0.1 m (when the visual positioning is working normally);
±0.5 m (when GNSS positioning works normally)
Level: ±0.3 m (when the visual positioning is working normally);
±1.5 m (when GNSS positioning works normally)

Image Position Compensation:
The position of the camera center relative to the phase center of the airborne A-RTK antenna, under the body axis system: (-2.63, 0.31, 83.5) mm, and the photo EXIF coordinates have been compensated. The positive XYZ axis of the body axis system points to the front, right, and bottom of the aircraft respectively.

Note: Operating frequency varies by countries and regions, please refer to local laws and regulations.
**EVO 2 PRO RTK CAMERA**

**Sensor:**
1 inch CMOS; 20 Million Effective Pixels

**Lens:**
FOV: 82° Aperture f/2.8 - f/11
Focus Range: 3.28 ft - ∞ (with auto focus)

**ISO Range:**
Video: 100 - 6400
Photos: 100 - 12800

Electronic Shutter: 8 - 1/8000 s

Zoom: 1 - 16x
Photo Mode: 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)

**Photo Resolution:**
5472x3648 (3:2)
5472x3076 (16:9)
3840x2160 (16:9)

**Video Resolution:**
6K 5472x3076 p30/p25/p24
4K 3840x2160 p60/p50/p48/p30/p25/p24
2.7K 2720x1528 p120/p60/p50/p48/p30/p25/p24
1080P 1920x1080 p120/p60/p50/p48/p30/p25/p24

Effective Frame: 5472×3648
Max Bitrate: 120 Mbps

**Photo Format:**
JPG (Default); DNG

**Video Format:**
MOV (Default); MP4

**Supported File System:**
FAT32 (= 32 GB);
exFAT (> 32 GB)

Supported SD Cards:
Class4 / Class10 / U3
Capacity:4G / 8G / 16G / 32G / 128G

GIMBAL
Gimbal: Three-Axis Stabilization

Mechanical Range:
Tilt: -135° to +45°
Pan: -100° to +100°

Controllable Rotation Range:
Tilt: -90° to +30°
Pan: -90° to +90°

Max Control Speed (Tilt): 300°/s
Angular Vibration Range: ±0.005°

GNSS
Single Frequency High Sensitivity GNSS:
GPS+BeiDou+Galileo (Asia)
GPS+GLONASS+Galileo (Other Areas)

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

REMOTE CONTROLLER/IMAGE TRANSMISSION
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@30fps

Maximum Bit Rate of Real-Time Image Transmission:
40Mbps

Display screen
3.26'' OLED
854(W) * 480(H)Pixel

Directly Preview the Video Without Connecting a Mobile Phone:
Remote Controller Battery: 5000mAh
Run Time: 3 hours
Charging time: 2 hours Fast Charging
Working Current/Voltage: 1.7A@3.7V

Note: Operating frequency varies by countries and regions, please refer to local laws and regulations.

SENSING SYSTEM
Sensing System Type:
Omnidirectional Sensing System

Forward:
Accurate Measurement Range: 1.64-65.61 ft (0.5-20 m)
Detection Range: 1.64-131.34 ft (0.5-40 m)
Effective Sensing Speed: <33.5 mph (<15 m/s)
Viewing angle: Horizontal: 60°, Vertical: 80°

Backward:
Accurate Measuring Range: 1.64-52.49 ft (0.5-16 m)
Detection Range: 1.64-104.98 ft (0.5-32 m)
Effective Sensing Speed: <26.84 mph (<12 m/s)
Viewing angle: Horizontal: 60°, Vertical: 80°

Upward:
Accurate Measurement Range: 1.64-26.84 ft (0.5-12 m)
Detection Range: 1.64-53.68 ft (0.5-24 m)
Effective Sensing Speed: <13.42 mph (<6 m/s)
Viewing Angle: Horizontal: 65°, Vertical: 50°

Downward:
Accurate Measurement Range: 1.64-36.08 ft (0.5-11 m)
Detection Range: 1.64-72.17 ft (0.5-22 m)
Effective Sensing Speed: <13.42 mph (<6 m/s)
Viewing Angle: Horizontal: 100°, Vertical: 80°

Left and Right:
Accurate Measurement Range: 1.64-39.37 ft (0.5-12 m)
Detection Range: 1.64-78.74 ft (0.5-24 m)
Effective Sensing Speed: <22.36 mph (<10m/s)
Viewing Angle: Horizontal: 65°, Vertical: 50°

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.)

INTELLIGENT FLIGHT BATTERY
Capacity: 7100 mAh
Voltage: 11.55 V
Battery Type: LiPo 3S 82 Wh

Weight: 0.80 lbs (365 g)

Charging Temperature Range: 41°F to 113°F (5°C to 45°C)

Storage Temperature and Humidity: 14°F~86°F (-10°C~30°C),65±20%RH

Max Charging Power: 93W
Charging Time: 90 minutes

INTELLIGENT FLIGHT BATTERY MANAGER
Voltage: 13.2 V
Charging Temperature Range: 41°F to 113°F (5°C to 45°C)

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±0.1V

Rated power: 66W

**STORAGE**
Internal Storage: 8GB

SD Storage:
Standard: 32 GB,
Max. Support 256GB (UHS-3 Rating Required)