

# PowerEye Product Specifications



## 1. AIRCRAFT

Weight	3,950 g (8.7 lb) (Battery and propellers included)
Diagonal Size (Excluding Propellers)	650 mm
Physical Dimension	340 mm x 285 mm x 296 mm (Folded) / 513 mm x 513 mm x 310 mm (Flight)
Max Ascent Speed	5 m/s (Professional mode)
Max Descent Speed	5 m/s (Professional mode)
Hover Accuracy	Vertical: +/- 0.1 m (When Vision Positioning is active, 0.2 - 4 m); +/- 1 m Horizontal: +/- 0.2 m (Surface with clear pattern and adequate lighting); +/- 1.5 m
Max Flight Speed	18 m/s (Professional mode)
Operating Frequency	2.4 GHz
Propellers Size	15.5 inch
Power	440 W (Hover) 800 W (Max)
Max Flight Time	Approx. 29.5 min
Max Attitude	35 degrees
Max Service Ceiling Above Sea Level	4,000 m (13,123 ft)
Operating Temperature	-10° - 40°C (14° - 104°F)
GPS Mode	GPS and BeiDou
Wind Resistance	< 5 level

## 2. CAMERA

Sensor	4/3" CMOS
Lens	Panasonic Lumix G 14mm F2.5 ASPH ( Standard ) Olympus M.Zuiko 17mm f/1.8 Olympus M.Zuiko ED 14-42mm f/3.5-5.6 EZ (Variable) Olympus M.Zuiko 25mm f1.8 Olympus M.Zuiko 45mm f1.8

	Self balance gimbal eliminates the need for counterweight.
ISO Range	100 - 3,200 (Video); 100 - 1,600 (Photo)
Shutter Speed	8 s to 1/8,000 s
Image Max Size	4,640 x 3,480
Still Photography Modes	Single shot Burst shooting: 3 / 5 / 7 frames Auto Exposure Bracketing (AEB): 3 / 5 bracketed frames at 0.7 EV Bias Time-lapse
Video Recording Modes	4K: 4,096 x 2,160 @24fps UHD: 3,840 x 2,160 @24fps / 25 fps / 30 fps
Supported SD Card Types	Micro-SD Max capacity: 64 GB. Class 10 or UHS-1 rating required
Max Video Bitrate	60 Mbps
Supported File Formats	FAT32/exFAT JPEG, DNG MP4, MOV (MPEG-4 AVC/H.264)
Operating Temperature	-10° - 40°C (14° - 104°F)

### 3. GIMBAL

Controllable Pitch Range	0 - 90°
Controllable Row Range	-180° - +180°
Stabilization	3-axis (Pitch, roll, yaw)
Controllable Accuracy	0.05°

### 4. STANDARD REMOTE CONTROLLER

Operating Temperature	-10° - 40°C (14° - 104°F)
Battery	5,000 mAh LiPo 1S
Operating Voltage	120 mA / 3.7 V
Operating Life	35 hours
Charging Time	5 hours

### 5. BASE STATION

Operating Frequency	Aircraft to Base Station: 2.400 - 2.483 GHz Base Station to other devices: 5.725 GHz - 5.875 GHz
Max Transmission Distance	5 km (3.1 mi) (Subject to regulation and local operating conditions). Distance will be shorter for CE.
Operating Temperature	-10° - 40°C (14° - 104°F)
Battery	2,300 mAh LiPo 1S
Transmitter Power	20 dbm @ CE, 28 dbm @ FCC
Operating Voltage	800 mA / 3.7 V
Operating Life	1.5 hours

Charging Time	3 hours
Latency	300 ms

## 6. POWEREGG SMART BATTERY

Capacity	9,000 mAH
Voltage	22.2 V
Battery Type	LiPo
Energy	99.9 WH x 2
Net Weight	1,230 g (2.7 lb)
Operating Temperature	-10° - 40°C (14° - 104°F)
Charging Current	2 C

## 7. OPTICAL POSITIONING

Velocity Range	≤ 4 m/s (2 m above ground)
Altitude Range	0.2 – 3.5 m (0.66 – 11.48 ft)
Operating Environment	Surface with clear pattern and adequate lighting (Lux > 15)

## 8. CHARGER

Input	AC 90 - 264 V
Frequency	47 - 63 Hz
Output Port 1 :	25.5 V ± 0.1 V
Output Port 2 :	5 V ± 0.1 V
Operating Temperature	-10° - 45°C (14° - 113°F)
Rated Power	138.5 W

## 9. MOBILE APP

Required Operating Systems	iOS 8.0 or later Android 4.2 or later
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Questions?

Please contact [US@powervision.me](mailto:US@powervision.me)