

## EVO II Dual 640T V3 Specifications

Aircraft	
<b>Takeoff weight</b>	1150 g
<b>Max takeoff weight</b>	2000 g
<b>Size(L*W*H)</b>	230*130*108mm (folded) 457*558*108mm (unfolded)
<b>Wheelbase</b>	397 mm
<b>Maximum service ceiling altitude</b>	7000 m
<b>Max ascent speed</b>	8 m/s (Ludicrous)
<b>Max descent speed</b>	4 m/s (Ludicrous)
<b>Max horizontal flight speed</b>	20m/s (Ludicrous)
<b>Max flight distance (no wind)</b>	22 km
<b>Max angular velocity</b>	120°/s
<b>Max tilt angle</b>	33° (Ludicrous)
<b>Max flight time (no wind)</b>	38 min
<b>Max hovering time (no wind)</b>	33 min
<b>Operating temperature range</b>	-10°C ~ 40°C
<b>Maximum resistance to wind</b>	Level 8
<b>Operating frequency</b>	902-928MHz (FCC Only) 2.400-2.4835GHz 5.725-5.850GHz (non-Japan) 5.650-5.755GHz (Japan Only)
<b>Transmission power</b>	900M FCC/ISED: ≤31dBm 2.4G FCC/ISED: ≤32dBm SRRC/CE/MIC/RCM: ≤20dBm 5.8G (non-Japan) ; 5.7G (Japan) FCC/ISED/SRRC/MIC: ≤33dBm CE/ RCM: ≤14dBm
<b>Hovering accuracy</b>	Vertical: ±0.1 m (when the visual positioning is working normally); ±0.5 m (when GPS works normally) Horizontal: ±0.3 m (when the visual positioning is working normally); ±1.5 m (when GPS works normally)
<b>GNSS</b>	GPS/Beidou/Glonass/Gallieo
<b>Internal storage</b>	8GB
<b>SD storage</b>	max. support 256GB (UHS-3 or Class 10)
Gimbal	
<b>Gimbal</b>	3-axis stabilization
<b>Mechanical range</b>	Tilt: -135° to +45°; Pan: -100° to +100°

<b>Controllable rotation range</b>	Tilt: -90° to +30°; Pan: -90° to +90°
<b>Max control speed (Tilt)</b>	300°/s
<b>Angular Vibration Range</b>	±0.005°
<b>Remote controller and image transmission</b>	
<b>Operating frequency</b>	902-928MHz (FCC Only) 2.400-2.4835GHz 5.725-5.850GHz (non-Japan) 5.650-5.755GHz (Japan Only)
<b>Transmission power</b>	FCC: ≤33dBm CE: ≤20dBm@2.4G, ≤14dBm@5.8G SRRC: ≤20dBm@2.4G, ≤33dBm@5.8G/5.7G
<b>Max Transmission Distance (unobstructed, free of interference)</b>	FCC: 15km CE: 8km
<b>Display screen</b>	2048x1536 60fps
<b>Battery</b>	5800mAh
<b>Operating time</b>	~3 hours (Max. Brightness) ~4.5 hours (50% Brightness)
<b>Charging time</b>	120 minutes
<b>Internal Storage</b>	ROM 128GB
<b>Sensing system</b>	
<b>Sensing system type</b>	Omnidirectional sensing system
<b>Forward</b>	Accurate measurement range: 0.5-18 m Effective sensing speed: <12m/s Viewing angle: Horizontal: 60°, Vertical: 80°
<b>Backward</b>	Accurate measurement range: 0.5-16 m Effective sensing speed: <12m/s Viewing angle: Horizontal: 60°, Vertical: 80°
<b>Upward</b>	Accurate measurement range: 0.5-10 m Effective sensing speed: <5m/s Viewing angle: Horizontal: 65°, Vertical: 50°
<b>Downward</b>	Accurate measurement range: 0.5-10 m Effective sensing speed: <5m/s Viewing angle: horizontal: 100°, vertical: 80°
<b>Left and right</b>	Accurate measurement range: 0.5-10 m Effective sensing speed: <5m/s Viewing angle: horizontal: 65°, vertical: 50°

<b>Operating Environment</b>	<p>Forward, Backward and Sides: Surface with clear pattern and adequate lighting (lux &gt; 15)</p> <p>Upward: Detects diffuse reflective surfaces (&gt;20%) (walls, trees, people, etc.)</p> <p>Downward: Surface with clear pattern and adequate lighting (lux &gt; 15) Detects diffuse reflective surfaces (&gt;20%) (walls, trees, people, etc.)</p>
<b>Thermal camera</b>	
<b>Sensor</b>	Uncooled VOx Microbolometer
<b>Lens</b>	FOV H33°V26°
	Focal length 13mm
<b>Zoom</b>	1-16x
<b>Sensor resolution</b>	640*512
<b>Pixel size</b>	12µm
<b>Wavelength range</b>	8 - 14µm
<b>Temperature range</b>	High gain mode: -20° to +150°
	Low gain mode: 0° to +550°
<b>Temperature measurement accuracy</b>	±3°C or ±3% of reading (whichever is greater) @Environmental temperature-20°C~60°C
<b>Accurate temperature measurement distance</b>	2-20 meters
<b>Video resolution</b>	640x512@30fps
<b>Video format</b>	MOV / MP4 (Support H.264/H.265)
<b>Camera resolution</b>	Infrared mode: 640*512
	Picture-in-picture mode: 1920*1080, 1280*720
<b>Photo mode</b>	<b>Single shot</b>
	<b>Burst shooting:</b> 3/5 frames, 3 is the default
	<b>Time Lapse:</b> JPG: 2s/5s/7s/10s/20s/30s/60s
<b>Photo format</b>	JPG (with irg file)
<b>Visible light camera</b>	
<b>Sensor</b>	1/2 inch CMOS; 48M effective pixels
<b>Lens</b>	FOV: 79°
	35 mm format equivalent focal length: 25.6 mm
	Aperture: f/1.8 Focus range: 0.5 m to infinity (with auto focus)
<b>ISO range</b>	Video: 100-64000
	Photos: 100-6400
<b>Shutter speed</b>	Photo mode: 1/8000 ~ 8s
	Other: 1/8000 ~ 1/frame rates
<b>Zoom</b>	1-16x (up to 4x lossless zoom)

<b>Photo mode</b>	Single shot/Burst shooting/AEB/Time Lapse/HDR imaging
<b>Maximum photo size</b>	8192*6144 (4:3) 4096*3072 (4:3) 3840x2160 (16:9)
<b>Image Format</b>	JPG (default) / DNG / JPG+DNG
<b>Video format</b>	MOV / MP4
<b>Video resolution</b>	3840x2160P60/P50/P48/P30/P25/P24 2720x1528P60/P50/P48/P30/P25/P24 1920x1080P60/P50/P48/P30/P25/P24
<b>Max bitrate</b>	120Mbps
<b>Supported file system</b>	FAT32/exFAT
<b>Battery</b>	
<b>Capacity</b>	7100 mAh
<b>Voltage</b>	11.55 V
<b>Battery type</b>	LiPo 3S
<b>Energy</b>	82 Wh
<b>Weight</b>	365 g
<b>Charging temperature range</b>	5°C to 45°C
<b>Storage temperature and humidity</b>	-10~30°C, 65±20%RH
<b>Recommended storage temperature</b>	22-28°C
<b>Max charging power</b>	93W
<b>Charging time</b>	90 minutes
<b>Charger</b>	
<b>Input</b>	100-240 V, 50/60 Hz, 1.5A
<b>Output</b>	13.2 V = 5 A 5V=3A 9V=2A 12V=1.5A
<b>Voltage</b>	13.2±0.1V
<b>Rated power</b>	66W
<b>Multi-Charger</b>	
<b>Voltage</b>	13.2 V
<b>Charging temperature range</b>	5°C to 45°C