

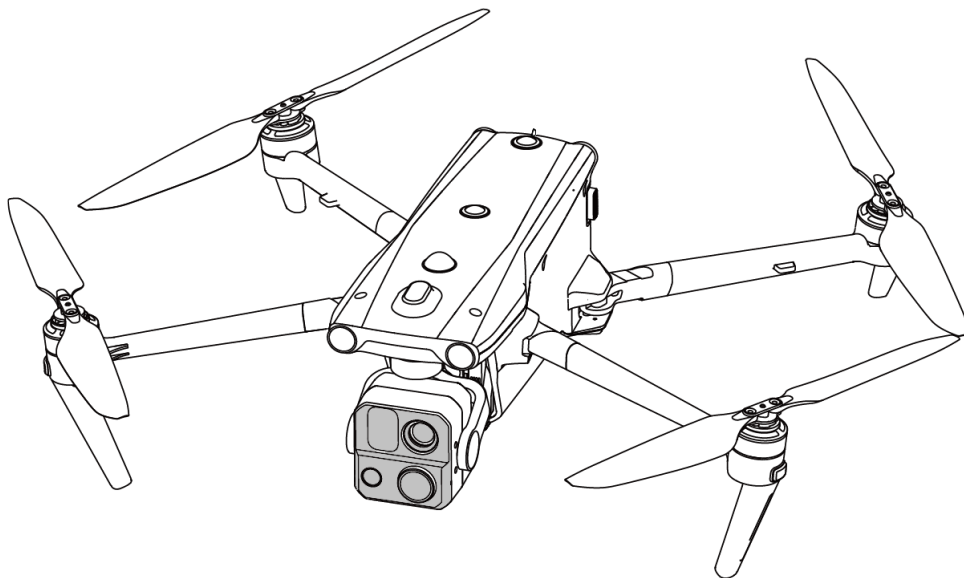
EVO Max Series

4T/4N Multirotor Aircraft

User Manual

V1.2

2024.07



UAV ISRAEL

[FULL USER MANUAL V1.2](#)

	<p>5.2G: 5.15-5.25GHz**, 5.17-5.25GHz***</p> <p>5.8G: 5.725-5.829GHz*, 5.725-5.850GHz</p> <p>*Only applies to SRRC regions</p> <p>** Only applies to FCC, CE (Germany excluded) and UKCA regions</p> <p>*** Only applies to Germany</p> <p>Note: Some frequencies are only applicable in some regions or only used in door. For details, please refer to local laws and regulations.</p>
Wi-Fi Effective Isotropic Radiated Power (EIRP)	<p>2.4G: $\leq 30\text{dBm}$ (FCC/ISED); $\leq 20\text{dBm}$ (CE/SRRC/UKCA)</p> <p>5.2G: $\leq 30\text{dBm}$ (FCC); $\leq 23\text{dBm}$ (CE/UKCA)</p> <p>5.8G: $\leq 30\text{dBm}$ (FCC/ISED/SRRC); $\leq 14\text{dBm}$ (CE/UKCA)</p>
Image Transmission	
Operating Frequency	<p>900M: 902-928MHz*</p> <p>2.4G: 2.400–2.476GHz**, 2.400–2.4835GHz</p> <p>5.2G: 5.15-5.25GHz***, 5.17-5.25GHz****</p> <p>5.8G: 5.725-5.829GHz**, 5.725-5.850GHz</p> <p>* Only applicable to FCC and ISED regions.</p> <p>** Only applicable to SRRC regions.</p> <p>*** Only applicable to FCC, CE (Germany excluded) and UKCA regions</p> <p>**** Only applies to Germany</p> <p>Note: Some frequencies are only applicable in some regions or only used in door. For details, please refer to local laws and regulations.</p>
Maximum Transmission Distance (Without Interference and Blocking)	<p>FCC: 15km</p> <p>CE: 8km</p>
Effective Isotropic Radiated Power (EIRP)	<p>900M: $\leq 30\text{dBm}$ (FCC/ISED)</p> <p>2.4G: $\leq 30\text{dBm}$ (FCC/ISED); $\leq 20\text{dBm}$ (CE/SRRC/UKCA)</p> <p>5.2G: $\leq 30\text{dBm}$ (FCC); $\leq 23\text{dBm}$ (CE/UKCA)</p> <p>5.8G: $\leq 30\text{dBm}$ (FCC/ISED/SRRC); $\leq 14\text{dBm}$ (CE/UKCA)</p>
Visual Obstacle Avoidance Sensing System	

Sensing Range	Forward: 0.5 - 31 m Backward: 0.5 - 25 m Sidewards: 0.5 - 26 m Upward: 0.2 - 26 m Downward: 0.3 - 23 m
FOV	Forward & Backward: 60°(H), 80°(V) Upward: 180° (sidewards), 120° (forward & backward) Downward: 180° (sidewards), 120° (forward & backward)
Operating Environment	Forward, backward, sideways, and upward: The surface has rich textures, under a sufficient lighting environment (>15 lux, normal indoor fluorescent lighting environment). Downwards: The surface is a diffuse material with a reflectivity >20% (walls, trees, humans, etc.), under a sufficient lighting environment (>15 lux, normal indoor fluorescent lighting environment).
Millimeter-Wave Radar Sensing System	
Operating Frequency	60G: 60 - 64 GHz 24G: 24.0 - 24.25 GHz
Effective Isotropic Radiated Power (EIRP)	60G: ≤20dBm (CE/UKCA/FCC) 24G: ≤20mW (SRRC)
Sensing Range	60G millimeter-wave radar: Upward: 0.3 - 20 m Downward: 0.15 - 80 m Forward & Backward: 0.3 - 50 m 24G millimeter-wave radar: Downward: 0.8 - 12 m
FOV	Horizontal (6dB): ±60°/±22° (60 GHz/24 GHz) Vertical (6dB): ±30°/±20° (60 GHz/24 GHz)
Operating Environment	60 GHz millimeter-wave radar sensing system: Supports all-weather obstacle avoidance for glass, water, wires, buildings, and trees in 4 directions. Its obstacle avoidance distance varies with the obstacle's ability to reflect electromagnetic waves and its surface size. 24 GHz millimeter-wave radar sensing system:

Wi-Fi Effective Isotropic Radiated Power (EIRP)	2.4G: $\leq 30\text{dBm}$ (FCC/ISED) ; $\leq 20\text{dBm}$ (CE/SRRC/UKCA) 5.8G: $\leq 30\text{dBm}$ (FCC/ISED/SRRC) ; $\leq 14\text{dBm}$ (CE/UKCA)
Bluetooth	Bluetooth 5.0
Bluetooth Operating Frequency	2.400 - 2.4835 GHz
Bluetooth Effective Isotropic Radiated Power (EIRP)	$\leq 20\text{dBm}$
Image Transmission	
Antenna	Dual antennas, 1T2R, detachable design
Operating Frequency	900M: 902-928MHz* 2.4G: 2.400-2.476GHz**, 2.400-2.4835GHz 5.8G: 5.725-5.829GHz**, 5.725-5.850GHz * Only applicable to FCC and ISSED regions. ** Only applicable to SRRC region. Note: Some frequencies are only applicable in some regions or only used in door. For details, please refer to local laws and regulations.
Effective Isotropic Radiated Power (EIRP)	900M: $\leq 30\text{dBm}$ (FCC/ISED) 2.4G: $\leq 30\text{dBm}$ (FCC/ISED) ; $\leq 20\text{dBm}$ (CE/SRRC/UKCA) 5.8G: $\leq 30\text{dBm}$ (FCC/ISED/SRRC) ; $\leq 14\text{dBm}$ (CE/UKCA)
Maximum Transmission Distance (Without Interference and Blocking)	FCC: 15 km CE/SRRC: 8 km
Display	
Type	TFT LCD
Dimensions	7.9 inches
Maximum Brightness	2000 nits
Resolution	2048×1536
Refresh Rate	60Hz