EVO Max Series V2 Serie EVO Max

Especificaciones técnicas

Zumbido

EVO Max Series V2	
Peso del EVO Max 4T V2	1665 g (batería inteligente ABX41-D, estabilizador Fusion 4T V2 y hélices incluidas)
Peso del EVO Max 4N V2	1700 g (batería inteligente ABX41-D, estabilizador Fusion 4N V2 y hélices incluidas)
Peso del EVO Max 4NZ V2	1715 g (batería inteligente ABX41-D, estabilizador Fusion 4NZ-L V2 y hélices incluidas)
Masa máxima de despegue	1999 g1890 g (para la certificación C2 en la UE)
Dimensiones del fuselaje	563×657×147 mm (desplegado, incluyendo las hélices)

Propeller Size	11 inch, 1158
Propeller Pitch	5.8 inch
Propeller Material	Nylon + Carbon Fiber
Propeller Weight	10.3 g
Maximum Propeller Rotational Speed	7500 RPM
Operating Temperature	-20°C to +50°C (without load) -20°C to +40°C (full load)
Internal Storage	128GB internal storage, with 64GB of available space* * Remaining available space will vary with different firmware versions.
Supported microSD Cards	Supports Class 10, UHS-3 or higher microSD cards, up to 1TB
GNSS	GPS + Galileo + BDS + GLONASS
Hot Swap Battery	Supported* * The hot swap battery function must be enabled in the flight application in advance.
Strobe	Integrated

Flight Performance

Max Ascent Speed	Slow: 2.5 m/s Smooth: 3 m/s

Max Descent Speed	Slow: 2.5 m/s Smooth: 3 m/s Standard: 6 m/s Ludicrous: 6 m/s
Max Flight Speed*	Slow: 2.5 m/s Smooth: 10 m/s Standard: 15 m/s (forward & backward), 10 m/s (sidewards) Ludicrous: 23 m/s (forward), 18 m/s (backward), 20 m/s (sidewards) * Windless Near Sea Level.
Max Service Ceiling Above Sea Level	4500 meters (use ABX41-D smart battery)
Max Flight Altitude*	Chinese Mainland or EU Laws: No more than 120 meters US Law: No more than 400 feet * The altitude can be set from 20 to 800 meters in the flight application. To set altitude higher than required by law, authority approval is required.
Max Flight Time*	42 minutes * Test data from lab with windless environment in the speed of 8 m/s during horizonal flight and only for reference.
Max Flight Distance*	25 km * Test data from lab with windless environment in the speed of 14 m/s during horizonal flight and only for reference.
Max Hover Time*	37 minutes * Test data from lab with windless environment during hovering and only for reference.

Max Pitch Angle	Slow: 10° Smooth: 30° Standard: 30° Ludicrous: 36°
Max Angular Velocity	Pitch axis: 300°/s Yaw axis: 120°/s
Hovering Accuracy	Vertically ±0.1 m (when visual positioning works normally) ±0.5 m (when GNSS works normally) Horizontally ±0.3 m (when visual positioning works normally) ±0.5 m (when high-precision positioning system works normally)

Wi-Fi

Protocol	802.11a/b/g/n/ac/ax
Operating Frequency	2.4G: 2.400–2.476GHz*，2.400–2.4835GHz 5.2G: 5.15-5.25GHz**，5.17-5.25GHz*** 5.8G: 5.725-5.829GHz*，5.725-5.850GHz * Only applies to SRRC regions ** Only applies to FCC, CE (Germany excluded) and UKCA regions *** Only applies to Germany Note: Some frequencies are only available in some regions or for indoor use only. For details, please refer to local laws and regulations.
Equivalent Isotropic Radiated Power (EIRP)	2.4G: ⩽30dBm (FCC/ISED); ⩽20dBm (CE/SRRC/UKCA) 5.2G: ⩽30dBm (FCC); ⩽23dBm (CE/UKCA) 5.8G: ⩽30dBm (FCC/ISED/SRRC); ⩽14dBm (CE/UKCA)

Operating Frequency	900M: 902-928MHz* 2.4G: 2.400–2.476GHz**, 2.400–2.4835GHz 5.2G: 5.15-5.25GHz***, 5.17-5.25GHz**** 5.8G: 5.725-5.829GHz**, 5.725-5.850GHz * Only applicable to FCC and ISED regions. ** Only applicable to SRRC regions. *** Only applicable to FCC, CE (Germany excluded) and UKCA regions **** Only applies to Germany Note: Some frequencies are only available in some regions or for indoor use only. For details, please refer to local laws and regulations.
Equivalent Isotropic Radiated Power (EIRP)	900M: ⩽30dBm (FCC/ISED) 2.4G: ⩽30dBm (FCC/ISED); ⩽20dBm (CE/SRRC/UKCA) 5.2G: ⩽30dBm (FCC); ⩽23 dBm (CE/UKCA) 5.8G: ⩽30dBm(FCC/ISED/SRRC); ⩽14dBm(CE/UKCA)
Max Transmission Distance*	FCC: 15km SRRC/CE: 8km * Without Interference and Blocking.

Visual Obstacle Avoidance Sensing System

Obstacle Sensing Range	Forward: 0.5 ~ 30 m Backward: 0.5 ~ 25 m Sidewards: 0.5 ~ 40 m Upward: 0.5 ~ 40 m Downward: 0.5 - 35 m
FOV	Forward & Backward: 60°(H), 80°(V) Upward: 180° (sidewards), 120° (forward & backward) Downward: 180° (sidewards), 120° (forward & backward)
Operating Environment	Forward, backward, sidewards, and upward: The surface has rich textures, under a sufficient

	The surface has rich textures, and 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

Transmission Frequency	24G: 24.0 - 24.25 GHz 60G: 60 - 64 GHz
Equivalent Isotropic Radiated Power (EIRP)	60G: ⩽20dBm (CE/UKCA/FCC) 24G: ⩽20dBm (CE/UKCA/FCC), ⩽13dBm (SRRC)
Sensing Range	60G millimeter-wave radar: Upward: 0.3 ~ 18 m @high voltage transmission line Downward: 0.15 ~ 40 m @concrete floor Forward & Backward: 0.15 ~ 18 m @high voltage transmission line, with flight speed 10 m/s Sidewards: 0.15 ~ 18 m @high voltage transmission line, with flight speed 10 m/s 24G millimeter-wave radar: Downward: 0.8 ~ 12 m @concrete floor
FOV	Horizontal (6dB): ±30°/±15° (60G/24G) Vertical (6dB): ±40°/±15° (60GHz/24G)

glass, water, transmission line, buildings, and trees in 6 directions. Its obstacle avoidance distance varies with the obstacle's ability to reflect electromagnetic waves and its surface size.
24G millimeter-wave radar sensing system: Supports downward sensing, and its sensing range varies by the ground material. For example, the sensing range of cement ground is 12 meters, and the sensing range of grass with a thickness of more than 3 cm is less than 6 meters.

Gimbal-Fusion 4T V2

Fusion 4T V2	
Gimbal Weight	215 g
Mechanical Range	Tile: -135° to 45° Roll: -50° to 50° Pan: -45° to 45°
Controllable Range	Tilt: -90° to 30°
Stabilization System	3-axis mechanical gimbal (tilt, roll, pan)
Max Control Speed	Tilt: 100°/s
Angular Vibration Range	< 0.005°

Zoom Camera

Lens	DFOV: 40°-10.3° Equivalent Focal Length: 64 - 234 mm Aperture: f/2.8 – f/4.8 Focus: 2 m ~ ∞
ISO Range	Auto: ISO100 ~ ISO6400 Manual: ISO100 ~ ISO6400
Shutter Speed	Shooting: 8s ~ 1/10000s Recording: 1/30s ~ 1/10000s
Zoom	2.7 - 10x continuous optical zoom, 20x hybrid zoom and 160x digital zoom
Photo Size	JPG: 4000×3000, 8000×6000 DNG: 4000×3000
Still Photography Mode	Single
Video Resolution	4000×3000@30fps
Max Video Bitrate	60Mbps
Video Format	MP4
Video Subtitles	Supported
Video Encoding	H.264/H.265
Supported File System	exFAT/FAT32

Wide-angle camera

Image Sensor	1/2"CMOS. Effective pixels: 48M

	Aperture: f/2.8 Focus: 1.5 m ~ ∞
ISO Range	Auto/Manual: ISO100 ~ ISO6400 Night Mode: ISO100 ~ ISO320000 (auto)
Shutter Speed	Shooting: 8s ~ 1/10000s Recording: 1/30s ~ 1/10000s
Zoom	1 – 2.6x digital zoom
Photo Size	JPG: 4000×3000, 8000×6000 DNG: 4000×3000
Still Photography Mode	Single
Video Resolution	4000×3000@30fps Night Mode: 2400×1800@30fps
Max Video Bitrate	60Mbps
Video Format	MP4
Video Subtitles	Supported
Video Encoding	H.264/H.265
Supported File System	exFAT/FAT32

Infrared Thermal Camera

Thermal Imager	Uncooled VOx Microbolometer
Lens	FOV: 61° Focal length: 9.1 mm

Equivalent Digital Zoom Rate	1-16x digital zoom
Noise Equivalent Temperature Difference	⩽50mK@25°C, F#1.0
Pixel Pitch	12 um
Spectral Band	8 – 14 um
Temperature Measurement Method	Center Point Temperature Measurement/Spot Temperature Measurement/Area Temperature Measurement
Temperature Measurement Range	High Gain Mode: -20°C to 150°C Low Gain Mode: 0 to 550°C
Temperature Measurement Accuracy	±2°C or reading ±2% (using the larger value) @ ambient temperature ranges from -10°C to 50°C
Temperature Measurement Distance	1-100 m
Temperature Alert	In area temperature measurement, high and low temperature alarm thresholds, reporting coordinates and temperature values are supported
Palette	White Hot/Black Hot/Ironbow/Rainbow 1/Rainbow 2/Lava/Arctic/Ironbow/Medical/Tint
Photo Size	640×512
Still Photography Mode	Single

	and are parsed by dedicated SDK and PC tools.
Video Resolution	640×512@30fps / 640×512@25fps * Due to differences in thermal imaging sensor suppliers, the two specifications are shipped in mixed batches. The exact specification is subject to the actual product purchased.
Max Video Bitrate	10Mbps
Video Format	MP4
Supported File System	exFAT/FAT32

Laser Rangefinder

Wavelength	905 nm
Laser Safety	Class 1
Measuring Accuracy	±(1 m + D*×0.15%) * Where D is the distance to a vertical reflecting plane.
Measurement Range	5 - 1200 m

Gimbal-Fusion 4N V2

Fusion 4N V2

Mechanical Range	Tile: -135° to 45° Roll: -50° to 50° Pan: -45° to 45°
Controllable Range	Tilt: -90° to 30°
Stabilization System	3-axis mechanical gimbal (tilt, roll, pan)
Max Control Speed	Tilt: 100°/s
Angular Vibration Range	< 0.005°

Night Vision Camera

Image Sensor	1.69" CMOS. Effective pixels: 2.3M
Lens	DFOV: 52°±2° Effective Focal Length: 11.2 mm Aperture: f/1.4 Focus: 10 m ~ ∞
Pixel Pitch	12 um
ISO Range	Auto/Manual: ISO100 ~ ISO440000 Night Mode: ISO100 ~ ISO440000 (auto)
Shutter Speed	Shooting: 8s ~ 1/10000s Recording: 1/30s ~ 1/10000s
Zoom	1 ~ 8x digital zoom
Photo Size	JPG: 1920×1200
Still Photography Mode	Single

Max Video Bitrate	20Mbps
Video Format	MP4
Video Subtitles	Supported
Video Encoding	H.264/H.265
Supported File System	exFAT/FAT32

Wide-angle camera

Image Sensor	1/0.98"CMOS. Effective pixels: 50M
Lens	DFOV: 85.01° Equivalent focal length: 23.52 mm Aperture: f/1.85 Focus: 0.5 m ~ ∞
ISO Range	Auto/Manual: ISO100 ~ ISO6400 Night Mode: ISO100 ~ ISO320000 (auto)
Shutter Speed	Shooting: 8s ~ 1/10000s Recording: 1/30s ~ 1/10000s
Zoom	1 ~ 8x digital zoom
Photo Size	JPG: 4096×3072, 8192×6144
Still Photography Mode	Single
Video Resolution	4000×3000@30fps
Max Video Bitrate	60Mbps

Video Subtitles	Supported
Video Encoding	H.264/H.265
Supported File System	exFAT/FAT32

Infrared Thermal Camera

Thermal Imager	Uncooled VOx Microbolometer
Lens	FOV: 61° Focal length: 9.1 mm Aperture: f/1.0 Focusing distance: 2.2 m ~ ∞
Equivalent Digital Zoom Rate	1-16x digital zoom
Noise Equivalent Temperature Difference	⩽50mK@25°C, F#1.0
Pixel Pitch	12 um
Spectral Band	8 – 14 um
Temperature Measurement Method	Center Point Temperature Measurement/Spot Temperature Measurement/Area Temperature Measurement
Temperature Measurement Range	High Gain Mode: -20°C to 150°C Low Gain Mode: 0 to 550°C
Temperature Measurement Accuracy	±2°C or reading ±2% (using the larger value) @ ambient temperature ranges from -10°C to 50°C

Temperature Alert	In area temperature measurement, high and low temperature alarm thresholds, reporting coordinates and temperature values are supported
Palette	White Hot/Black Hot/Ironbow/Rainbow 1/Rainbow 2/Lava/Arctic/Ironbow/Medical/Tint
Photo Size	640×512
Still Photography Mode	Single
Photo Format*	JPG * the images contain temperature information and are parsed by dedicated SDK and PC tools.
Video Resolution	640×512@30fps / 640×512@25fps * Due to differences in thermal imaging sensor suppliers, the two specifications are shipped in mixed batches. The exact specification is subject to the actual product purchased.
Max Video Bitrate	10Mbps
Video Format	MP4
Supported File System	exFAT/FAT32

Laser Rangefinder

Wavelength	905 nm
Laser Safety	Class 1

	plane.
Measurement Range	5 - 1200 m

Gimbal-Fusion 4NZ V2

Fusion 4NZ-L V2

Gimbal Weight	263 g
Mechanical Range	Tile: -135° to 45° Roll: -50° to 50° Pan: -45° to 45°
Controllable Range	Tilt: -90° to 30°
Stabilization System	3-axis mechanical gimbal (tilt, roll, pan)
Max Control Speed	Tilt: 100°/s
Angular Vibration Range	< 0.005°

Wide-angle Night Vision Camera

Image Sensor	1/1.2" CMOS. Effective pixels: 8M
Lens	DFOV: 45° Equivalent Focal Length: 53.9 mm Aperture: f/1.55±5% Focus: 20 m ~ ∞

ISO Range	Auto/Manual: ISO100 ~ ISO100000 Night Mode: ISO100 ~ ISO100000
Shutter Speed	Shooting: 1/30s ~ 1/10000s Recording: 1/30s ~ 1/10000s
Zoom	1 ~ 3.2x digital zoom
Photo Size	JPG: 3840×2160
Still Photography Mode	Single
Video Resolution	3840×2160@30fps Night Mode: 2720×1528@30fps
Max Video Bitrate	50Mbps
Video Format	MP4
Video Subtitles	Supported
Video Encoding	H.264/H.265
Supported File System	exFAT/FAT32

Telephoto Night Vision Camera

Image Sensor	1/1.2" CMOS. Effective pixels: 8M
Lens	DFOV: 16.3° Equivalent focal length: 147.3 mm Aperture: f/1.75±5% Focus: 20 m ~ ∞

ISO Range	Auto/Manual: ISO100 ~ ISO100000 Night Mode: ISO100 ~ ISO100000
Shutter Speed	Shooting:1/30s ~ 1/10000s Recording: 1/30s ~ 1/10000s
Zoom	3.3 ~ 16x digital zoom
Photo Size	JPG: 3840×2160
Still Photography Mode	Single
Video Resolution	3840×2160@30fps Night Mode: 2720×1528@30fps
Max Video Bitrate	50Mbps
Video Format	MP4
Video Subtitles	Supported
Video Encoding	H.264/H.265
Supported File System	exFAT/FAT32

Infrared Thermal Camera

Thermal Imager	Uncooled VOx Microbolometer
Lens	FOV: 22° Focal Length: 25 mm Aperture: f/1.2 Focusing Distance: 13 m ~ ∞

Noise Equivalent Temperature Difference	⩽50mK@25°C, F#1.0
Pixel Pitch	12 um
Spectral Band	8 – 14 um
Temperature Measurement Method	Center Point Temperature Measurement/Spot Temperature Measurement/Area Temperature Measurement
Temperature Measurement Range	High Gain Mode: -20°C to 150°C Low Gain Mode: 0 to 550°C
Temperature Measurement Accuracy	±3°C or reading ±3% (using the larger value) @ ambient temperature ranges from -10°C to 50°C
Temperature Measurement Distance	1-100 m
Temperature Alert	In area temperature measurement, high and low temperature alarm thresholds, reporting coordinates and temperature values are supported
Palette	White Hot/Black Hot/Ironbow/Rainbow 1/Rainbow 2/Lava/Arctic/Ironbow/Medical/Tint
Photo Size	640×512
Still Photography Mode	Single
Photo Format*	JPG * the images contain temperature information and are parsed by dedicated SDK and PC tools.

Max Video Bitrate	10Mbps
Video Format	MP4
Supported File System	exFAT/FAT32

Laser Rangefinder

Wavelength	905 nm
Laser Safety	Class 1
Measuring Accuracy	±(1 m + D*×0.15%) * Where D is the distance to a vertical reflecting plane.
Measurement Range	5 - 1200 m

Infrared laser fill light

Laser Safety	Class 3B
FOV	Telephoto: 8°* * The maximum fill light distance is 200 meters. Wide-angle: 30°** ** The fill light effect is better at a distance of 50 meters.

Remote Controller

Body Material	PC+ABS
RC Dimensions	269×189×87 mm (antennas folded, sticks and bracket included) 269×189×173 mm (antennas vertical to screen, sticks and bracket included) 269×302×87 mm (antennas unfolded, sticks and bracket included)
RC Weight	1195 g (smart controller cover excluded) 1365 g (smart controller cover included)
Operating Temperature	-20°C to 40°C
Storage Temperature	+15°C ~ +25°C (within a year) 0°C ~ +30°C (within three months) -20°C ~ +45°C (within a month)
Angular Vibration Range	IP43* * Long-term use may cause failure.

System Performance

Operating System	Based on Android 11
Pre-installed flight Application	Autel Enterprise
Application Installation	Supports the installation of third-party Android applications
Video Performance	Smooth playback of 4K@24fps H.264/H.265 videos

GNSS	GPS + Galileo + BDS + GLONASS

Port

HDMI	Outputs up to 1080P@60fps video
USB-C	Charging: supports PD 60W fast charging and QC 18W fast charging. Data: USB3.1 Gen2
USB-A	Power: 5V/2A Data: USB2.0

Wi-Fi

Protocol	802.11a/b/g/n/ac
Operating Frequency	2.4G: 2.400–2.476GHz*, 2.400–2.4835GHz 5.8G: 5.725-5.829GHz*, 5.725-5.850GHz * Only applies to SRRC region Note: Some frequencies are only available in some regions or for indoor use only. For details, please refer to local laws and regulations.
Equivalent Isotropic Radiated Power (EIRP)	2.4G: ⩽30dBm (FCC/ISED); ⩽20dBm (CE/SRRC/UKCA) 5.8G: ⩽30dBm (FCC/ISED/SRRC); ⩽14dBm (CE/UKCA)

Bluetooth

Protocol	Bluetooth 5.0
Operating Frequency	2.400 - 2.4835 GHz Note: In some regions, frequency range is

Effective Isotropic Radiated Power (EIRP)	⩽20dBm

Video 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 ISED regions. ** Only applicable to SRRC region. Note: Some frequencies are only available in some regions or for indoor use only. For details, please refer to local laws and regulations.
Effective Isotropic Radiated Power (EIRP)	900M: ⩽30dBm(FCC/ISED) 2.4G: ⩽30dBm(FCC/ISED); ⩽20dBm (CE/SRRC/UKCA) 5.8G: ⩽30dBm(FCC/ISED/SRRC); ⩽14dBm (CE/UKCA)
Max Transmission Distance*	FCC: 15 km SRRC/CE: 8 km * Without Interference and Blocking.

Display

Type	Pantalla LCD TFT
Dimensiones	7,9 pulgadas
Resolución	2048×1536
Brillo máximo	2000 nits

Control táctil	Compatible

Batería

Reemplazo de la batería	Integrado, no compatible.
Tipo de batería	Li-Po 3S
Capacidad nominal	5800 mAh
Energía nominal	67 W h
Voltaje	11,55 V
Tiempo de carga	Aproximadamente 120 minutos* * El tiempo de carga depende de la energía restante real.
Duración de la batería	Brillo máximo: 2,5 horas50 % de brillo: 4,0 horas

Batería inteligente

Batería inteligente ABX41-D

Peso de la batería	530 g
Dimensiones de la batería	158,4 × 74,2 × 56

Temperatura de almacenamiento	-20°C a +35°C
Entorno de almacenamiento ideal	+22°C a +28°C, 65±20% HR, 60% de nivel de batería
Tipo de batería	Li-Po 4S
Capacidad nominal	9248 mAh
Energía nominal	136,5 Wh
Voltaje	14,76 V CC
Límite de tensión de carga	17,0 V CC
Potencia de carga nominal	120 W
Potencia de carga máxima	282W
Battery Charge Temperature	+5°C to +45°C* * When the battery temperature is below +5°C, the battery stops charging and activates self-heating. When the battery temperature is above +45°C, the battery stops charging.
Service life	200 discharge cycles* * If the number of discharge cycles exceeds 200, the battery should be replaced with a new one.

Battery Charger MDX120W

Output Port	Battery charging port/USB-C
Battery Charging port	17V⎓7.06A
USB-C	5.0V⎓3.0A, 9.0V⎓3.0A, 12.0V⎓2.5A
Total Power Output	120.0W Max