

Autel Robotics EVO pursuant to RPAS Safety Assurance for Canada Advanced Operations

Canadian Aviation Regulations and Standards, SOR/96-433 Part IX–Remotely Piloted Aircraft Systems

General Requirements 901.78 (ii)

AIRCRAFT SPECIFICATIONS	
Weight (Including Battery and Propellers)	863 grams
Maximum Take-off Weight	1000 grams (Do not fly the aircraft with any additional payload)
Center of Gravity	125.5 mm from the nose of the aircraft towards the tail (centered)
Hover Precision	GPS + Ultrasonic + IMU: Horizontal $\pm 1.5\text{m}$, Vertical $\pm 0.2\text{m}$ Vision + IMU : Horizontal $\pm 0.1\text{m}$, Vertical $\pm 0.1\text{m}$
Maximum Yaw Rate	200 dps
Maximum Inclination Angle	35 degrees
Maximum Ascent/Descent Speed	Ascent: 11 MPH, 18 KPH, 5 M/S Descent: 7 MPH, 11 KPH, 3 M/S
Maximum Horizontal Speed (Ludicrous Mode)	45 MPH, 72 KPH, 20 M/S
Diagonal Wheelbase	13.3 inches, 338 mm
Propeller Size	8.3 inches, 211 mm
Video Link Frequency	2.4 GHz – 2.4835 GHz
Receiver Frequency	2.4 GHz – 2.4835 GHz
Flight Modes	GPS Mode, ATTI Mode
Operating Environment Temperature	32° F – 104° F 0° C – 40° C
Storage Temperature	14° F – 104° F -10° C – 40° C

General Requirements 901.78 (iii)

FLIGHT MODE	MIN ALTITUDE	MAX ALTITUDE	MINIMUM SAFE VELOCITY	MAXIMUM SAFE VELOCITY
Novice	~6 ft (2m)	~98ft AGL (30m)	0 MPH, KPH, M/S	11 MPH (18 KPH, 5 M/S)
Precision	~6 ft (2m)	~16,400 AMSL	0 MPH, KPH, M/S	8.9 MPH (14.4 KPH, 4 M/S)
Standard	~6 ft (2m)	~16,400 AMSL	0 MPH, KPH, M/S	22 MPH (36 KPH, 10 M/S)
Ludicrous	>100 ft (30m) above any obstacle or object	~16,400 AMSL	0 MPH, KPH, M/S	22 MPH (36 KPH, 10 M/S)

General Requirements 901.78 (iv)

Autel Robotics EVO Wind Rating based on the Beaufort Wind Scale

*There is no IP Rating for the Autel Robotics EVO

Force	Wind (Knots)	WMO Classification	Appearance of Wind Effects on the Water	Appearance of Wind Effects on Land
5	17-21	Fresh Breeze	Moderate waves 4-8 ft taking longer form, many whitecaps, some spray	Small trees and leaf begin to sway

Important links to Canadian Drone Regulations:

Canadian Aviation Regulations (SOR/96-433)

<https://www.tc.gc.ca/en/transport-canada/corporate/acts-regulations/regulations/sor-96-433.html>

Drone Safety

<https://www.tc.gc.ca/en/services/aviation/drone-safety.html>

Find Your Category of Drone Operation

<https://www.tc.gc.ca/en/services/aviation/drone-safety/find-category-drone-operation.html#advanced>

Choosing the Right Drone/ RPAS Safety Assurance

<https://www.tc.gc.ca/en/services/aviation/drone-safety/choosing-right-drone.html>

Getting a Drone Pilot Certificate

<https://www.tc.gc.ca/en/services/aviation/drone-safety/get-drone-pilot-certificate.html>