

Specifications of M40

General specifications

Total weight (W/O batteries)	25 kg
Max. take-off weight	75 kg
Max. payload weight	40 kg
Max. payload dimensions	800x800x800 mm
Dimensions (arms & propellers unfolded)	2435 x 2541 x 752 [mm]
Dimensions (arms unfolded, propellers folded)	1520 x 1600 x 752 [mm]
Dimensions (arms and propellers folded)	979 x 683 x 752 [mm]
Max. hovering time	Unloaded: 20 min, Loaded (MTOW): 7.5 min
GPS	GPS, GLONASS, Galileo, BeiDou, Emlid LoRa 868Mhz
Hovering precision	±10 cm (RTK) ±2m (without RTK)
Rotor dimensions	43 x 14
Battery type	Li-Po Smart
Battery capacity	30000 mAh
Battery voltage	51.8V
Battery weight	9.4 kg
Battery charging time	min. 15 minutes
Battery charger	4 ports (2 balance)
Battery charger power	3000 W

Payload connections

Power source	Optional 0-55V - Configurable
Signal outputs	4 x PWM & 6 x Relay from flight controller
Signal inputs/outputs	6 x from flight controller

Execution of work	
IP protection	Limited water and dust resistance
Easy transportability	
Modular payload attachability	
Obstacle avoidance	According to pregenerated shapefiles
FPV camera	Wide angle, vertically adjustable (0-180°)
Camera resolution	FHD
Effective signal range of RC	~3,5 km
Altitude measurement	Barometric (optional: LIDAR)
Flight planning	
Software source code	Open
Flight plan creation on a PC	
Area SHP and line SHP files	
Software compatibility	Multiple
Downward facing camera for obstacle selection	
RTK base	Optional
Data security	
No data transmission to remote servers	
Frequency bands	
Radio Control and Telemetry	2.4GHz
WLAN	2.4GHz

Flight	
Max. pitch angle	25°
Max. level speed	15 m/s
Max. flight altitude (AMSL)	4500 m
Max. flight altitude (AGL)	120 m
Max. tolerable wind speed	10 m/s