

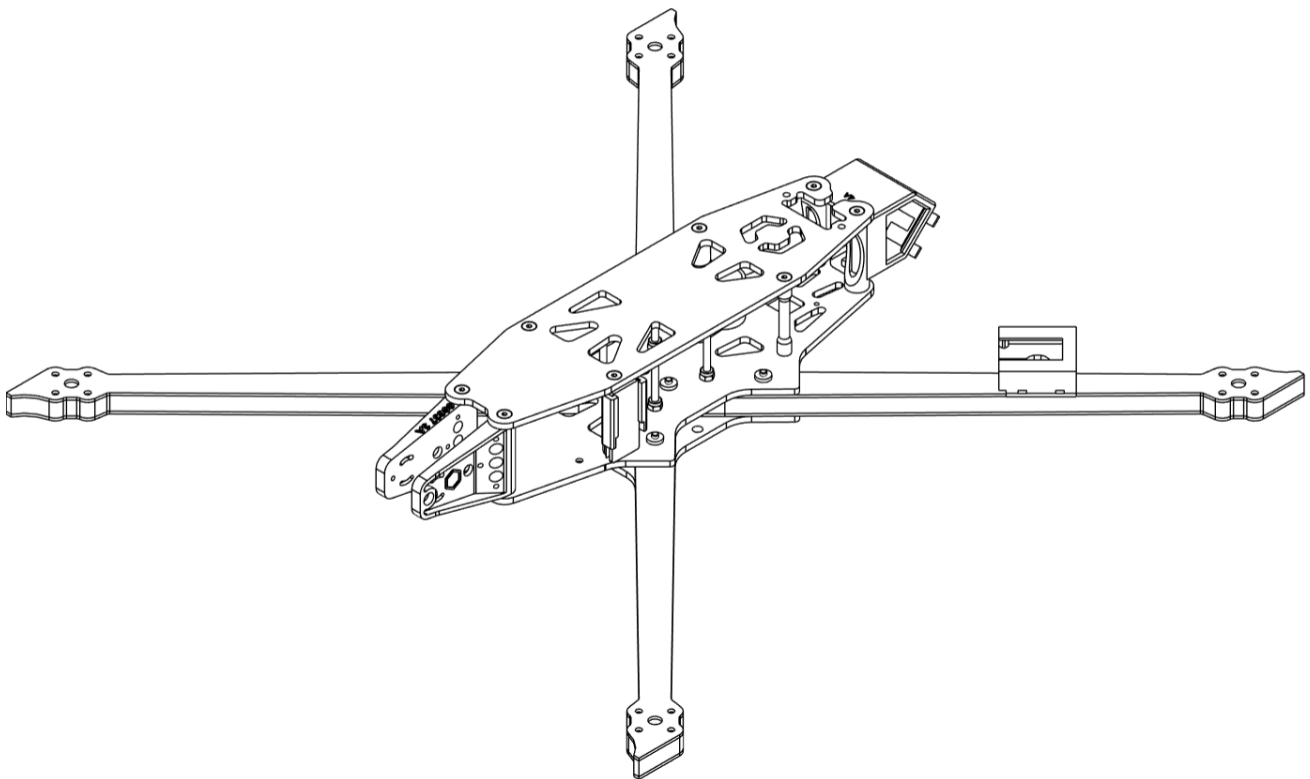


FAC TECHNOLOGY

10" FPV Quadcopter UAV Technical Specification

HIGH PERFORMANCE LIGHTWEIGHT UNMANNED AERIAL SYSTEM

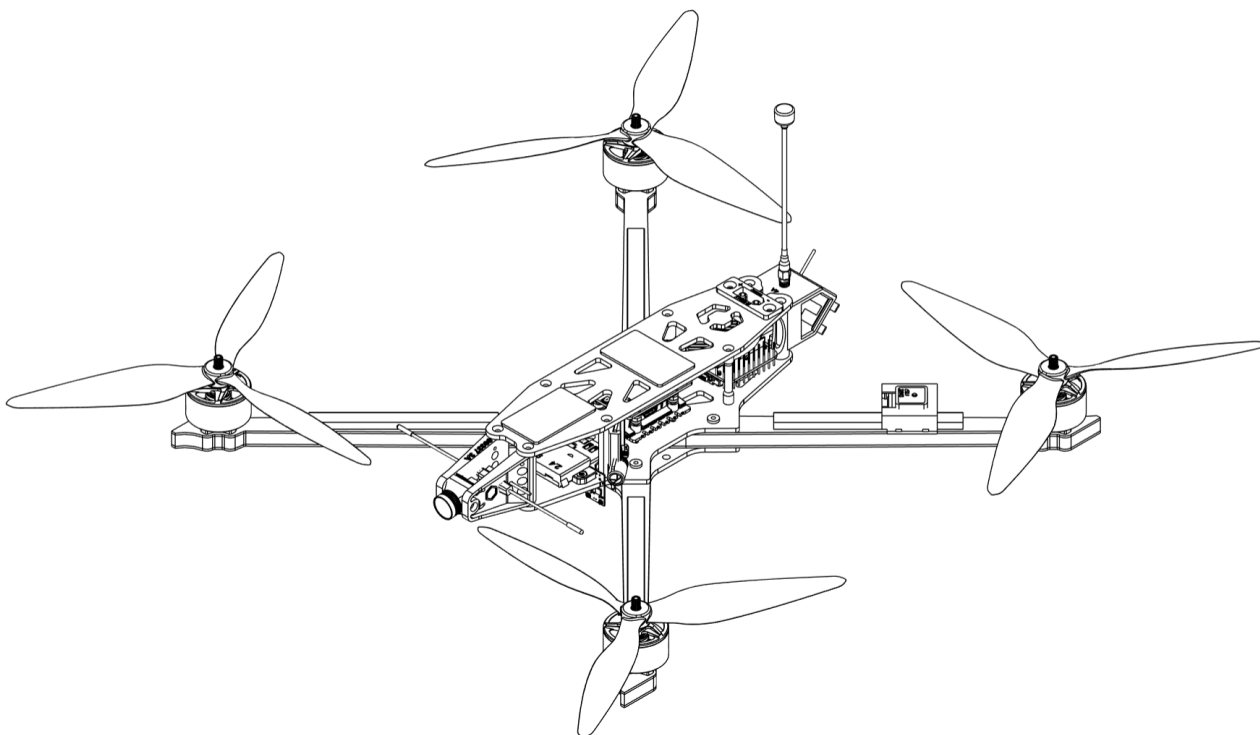
AIRFRAME



Parameter	Unit	Value
MAX PROPELLER SIZE	["]	11
MASS (Including 3D Prints)	[kg]	0.28
MATERIALS	Deep Air Carbon Toughened Carbon Fibre	
FLIGHT STACK MOUNTING PATTERN	[mm]	30.5 x 30.5
BOUNDING BOX	[mm]	322 x 340 x 55
MOTOR MOUNTING	[mm]	19 x 19 M3



PLATFORM



Parameter	Unit	Value
ROTOR DIAMETER ¹	["]	10/11
MASS (Exc Battery)	[kg]	0.8
MASS (Inc Battery)	[kg]	2.8
OPTICS RESOLUTION ²	[TVL]	1500 or 1200
OPTICS RESOLUTION	[P]	1080 x 720
OPTICS REFRESH RATE	[Hz]	25
DESIGN STANDARD		EASA C4
MANUFACTURING STANDARD		ISO 9001
MOTOR KV	[kV]	900
MOTOR DIMENSIONS	[mm]	31x15



Parameter	Unit	Value
MAXIMUM TAKEOFF MASS	[kg]	8.0
OPERATING RANGE ³	[km]	37
CRUISE SPEED ³	[km/h]	120
MAXIMUM SPEED ³	[km/h]	160
BATTERY ⁴	[mAh]	28000
OPERATING TEMPERATURES	[°C]	-25 to 55
VIDEO FREQUENCY ⁵	[GHz]	5.8/3.3
VIDEO POWER ⁵	[W]	0.025/1/2/3
COMMUNICATION FREQUENCY ⁵		2.4 GHz/868 Mhz
ALTERNATE COMMUNICATION	Optical Fibre	Up to 35 km
SOFTWARE ⁶		Betaflight 4.4

¹ Performance specifications are based on a 1050-sized propeller.

² Standard video system is analog. A 640p thermal camera option is available upon request.

³ Performance data points are recorded with a 3 kg payload.

⁴ Alternative battery configurations are available to meet specific operational requirements.

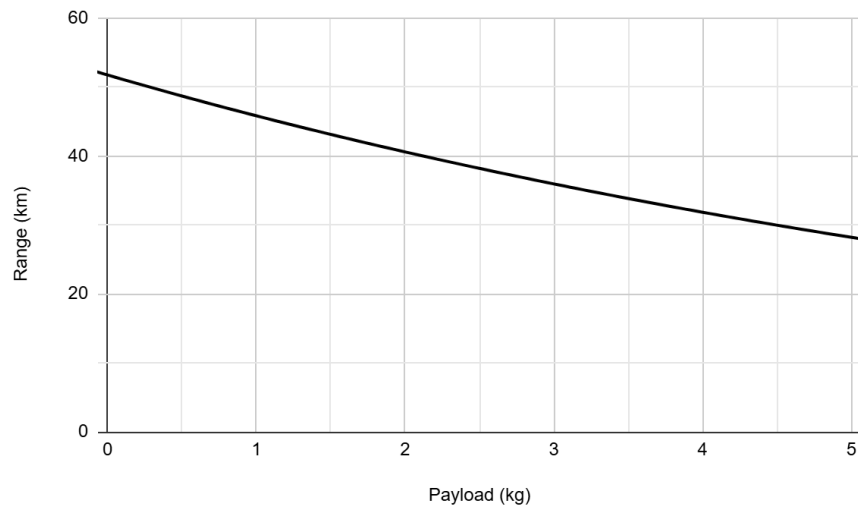
⁵ The communications package is customizable to support other frequencies, including multi-band options. Standard 2.4 GHz and 868 MHz packages are wideband for non-ISM bands and employ frequency hopping for enhanced Electronic Warfare (EW) resilience.

⁶ iNav and ArduPilot support are available via firmware update.



PAYLOAD RANGE CURVE

Payload vs Range



PAYLOAD ENDURANCE CURVE

Payload vs Range

