

AV-X6v2 Multirotor heavy lifter specification

Type	Multirotor
Frame	Hexacopter
Materials	Full carbon and high strength Aluminum alloys
Engines	6 x high power T-motor
Props	6 x high efficiency T-motor carbon
Battery	30 000 mAh, 25C, 6S1P battery pack ⁽¹⁾
Autopilot	Wide range of calibration settings available upon customer`s request Advanced Flight planning ⁽²⁾ GCS and telemetry ⁽³⁾ Pass- through signals ⁽⁴⁾
Control	Autopilot Manual (≥ 10 km) ⁽⁵⁾ GCS (40 ÷ 80 km) ⁽⁵⁾
Telemetry	PRHF with AES-256 encryption Full, long range (40 ÷ 80 km) ⁽⁵⁾
Video transmission	High power long range PAL/NTSC (8 ÷ 10 km) ⁽⁵⁾
Safety	One engine fail safe landing RTH if power or telemetry signal lost or/and battery exhausted Redundant power supply Lost signal sound Accurate GPS coordinates of the last known position
Optimum operating temperatures	+45°C / -10°C
Moisture	up to 85%

OSD (On- Screen Display)	Standard ⁽⁶⁾
Endurance	up to 40 min ⁽⁷⁾
Application	Military, Agriculture, Forestry, Search & Rescue, Law enforcement, Surveillance and monitoring, Energetics and livestock control, environment monitoring ⁽⁸⁾

Remarks:

- (1) 1000W charger included (220V/50Hz); one battery is included as additional batteries can be ordered*
- (2) Depending on the GCS (Ground Control Station) used it can be set pattern type flight plan*
- (3) GCS is optional and could be designed and built upon customer`s requirements*
- (4) "Pass- through" for additional functions and capabilities from either the GCS or transmitter*
- (5) Depends on the law regulations for using particular frequency ranges of the country of operation; PRHF – Pseudo Random Hopping Frequency can be used where is legal*
- (6) OSD is standard equipment, as all of the valuable data (as battery monitoring, attitude and heading, altitude, distance to "home", etc.) can be transmitted to the optional GCS*
- (7) Depends on the payload, AGL (Altitude above Ground Level), moisture, temperature, type of flight and other factors; typically 30 min with 3 kg of payload at 15°C and 45% moisture at 700 m AGL*
- (8) Depends on the payload, which can varies from high resolution cameras up to radioactivity sensors (upon customer`s requirements)*



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