

## **EOS C Specifications**

## Standard EOS C VTOL set consists of:

- EOS C UAV
- Shark gimbal
- HGCS
- GDT50
- GSE

- 1x Unmanned Aerial Vehicle 1x FullHD high performance payload 1x Handheld Ground Control Station 1x 2-in-1 Ground Data Terminal
- 1x chargers, tools, equipment

EOS C VTOL is a complex, yet simple to use system with capability usually found on bigger platforms. Using multiple subcomponents and subsystems that are individually configurable enables Threod the unique ability to customise the system composition, ground control station types and packaging as per customer requirements.



Physical		Video format	MPEG-TS H.264/H.265 with KLV
Wingspan	5 m / 16.2 ft		metadata, STANÁG 4609 compliant
Overall length	1.8 m / 5.9 ft	Airspace Safety Compliance	
Overall height	0.45 m / 1.5 ft	Identification	Mode-S/ADS-B transponder
Gross weight	VTOL 14.2 kg / 31.3 lb	Emergency	Emergency parachute system
Payload capacity	1.1 kg standard payload	Entergency	GSM Locator Beacon
Operational		Visibility	LED Navigation lights,
Deployment	Vertical Take-off and Landing	violonity	Aft LED anti-collision strobe,
Take-off/landing	Typical landing drift no wind: 1 m		IR identification strobe
area size	Typical landing drift strong wind: 3 m	Communication	
	Recommended landing area size: 8x8 m	Frequency	2.2-2.5 GHz
Instrumentation	GPS/GLONASS/GALILEO navigation	Bandwidth	5/10/20MHz
	Barometer & Radar altimeter	Datalink type	2X2 MIMO MANET/MESH
	Inertial Navigation System	Encryption	AES256
	Foldable pitot tube with drainage	Maximum Range	50 km
Power	Rechargeable Lithium Battery with	Ground Control Station	
	intelligent battery management system	Туре	Handheld, 10.1" touchscreen
Performance		Chassis	Modular with configurable buttons and
Endurance	Over 2 hrs, at 500m AGL, with maxed	Ondooro	joysticks, HDMI, Ethernet and USB
	options and active 1 kg payload		connectivity
Maximum Distance	120 km / 74 miles 1 flight coverage	Functionality	Geo-referenced video imagery
Communications	50km with RLOS		Targeting Software
Range			Report creation
Cruise speed	Typical 18 m/s   35 knots		Fully featured software with integrated
Maximum speed	30 m/s   58 knots		video display
Service Ceiling	4 500 m / 15 000 ft	Ground Data Terminal	
Max Take-off altitude	3 500 m / 11 000 ft	Туре	Directional auto tracking
Environmental	-20 to +50 °C	Gain	19 dBi
capability	10 mm/h precipitation	Polarization	Dual Polarized/ Dual Slant
	16m/s headwind	Power	BB-2590 294 Wh Battery with AC input
Propulsion system		Support equipment	
Front motor	Electric BLDC, with telemetry	Transportation cases	
Lift motors	4x Electric BLDC, with telemetry	Battery chargers for portable, mobile and stationary locations	
Flight Control System		Stands, tools, accessories for field maintenance	
Autopilot	Flight stabilization and navigation	Weather station, GPS	
·	Geo-fencing	Built-in Simulator for training purposes	
	Adaptive flight control algorithms	Notel: Contact Thread Systems for shelter or vehicle-based GCS	
Safety	Automatic fail-safe procedures	options and various payload and subsystem options.	
	Automatic Return-to-Home	options and various pa	, isaa ana caboyotem optiono.
	All systems monitored	and the second descent and the second s	
	All servos with feedback	CARL CONTRACTOR	
Payload		the same series and the same	Contraction of the second seco
Default	Full-HD Shark Gimbal with EO, IR, LRF	them is a sub-	
Optional	Photogrammetric and other payloads	Tomas was the second of	

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