Airolit®



DATASHEET

Airolit CX10

2025 AIROLIT AB



AIROLIT CX10

Airolit CX10 is a Swedish made UAV, especially developed as a Flexible Payload Carrier and for specialized ISR mission operating in all weather conditions.

The CX10 offers a wide range of high-performance sensors cameras and other payloads, including high zoom cameras, thermal imaging and object tracking. It is specially developed to handle heavy payloads and powerful sensors such as, LIDAR, CBRN, mine detection and EW sensors.

Custom sensors can also be integrated with Airolit CX10 and with its flexible payload-system it is easy to switch between payloads

KEY FEATURES

- Flight time 90 min
- Payload capacity 10 kg
- Flexible payload system
- Quick to deploy
- All weather operations
- Radio silent with Tether station.
- Autonomous Position Hold

PAYLOAD

Airolit CX10 is designed to handle different types of payloads. The payload can be customized in consultation with the customers to meet individual needs:

- ISR cameras
- Inspection cameras
- Lidar
- EW sensor
- CBRN Sensors
- Mine detetion sensors
- Custom payload up to 10 kg

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SPECIFICATIONS	
Type	Multicopter (Quadcopter)
Unfolded Size	L98 x W98 x H39 cm
Folded Size	L123 x W37 cm
Number of Motors	4pcs
Weight (w/o battery)	6,4kg
Maximum Take-off Weight (MTOW)	21kg

FLIGHT SYSTEM	
Flight Controller	PX4
Automatic Positioning (GNSS/GPS)	Dual: GPS/GLONASS/BeiDou/Galileo
Navigation light	Yes, ON/OFF
Remote ID	Optional
RTK	Ready
Redundancy	3xIMU, 3xMag, Barometer
Companion Computer	Yes, CM4 / Nvidia Jetson Orin

BATTERY	
Type	External, Solid State Li-ion
Capacity	25Ah or 50Ah
Voltage	43,8V
Weight	4,3kg or 8,0kg (incl. sled)

GCS & RADIO	
Option 1	**Herelink 1.1**
Display	5,5”
Video Quality	720p / 1080p @ 30fps
Connection	USB, Bluetooth, WiFi Hotspot
Operation Frequency	2,4GHz
Range Control	≤15km
Range Video	≤10km
Encryption	AES-128-CTR
Option 2	**UXV SRoC**
Display	7”
Video Quality	720p / 1080p @ 30fps
Connection	USB, Bluetooth, WiFi Hotspot
Operation Frequency	2,4GHz (custom options available)
Range Control	≤10km w default antennas
Range Video	≤7km w default antennas
Encryption	AES-128-CTR, AES-256-CTR

NAVIGATIONAL FEATURES	
Flight modes	Position, Altitude, Stabilize, Autonomous Position Hold (as option)
Missions	Yes, advanced mission planner
Safety features	Warning, Return-to-home, emergency landing etc

PAYLOAD	
Mounting	Under, Top
Max Weight	10kg (25Ah) or 6kg (50Ah)
Connector Airolit CX10 S	2x14 pin 24V/50W, Ethernet, UART
Connector Airolit CX10 P	2x14 pin 24V/50W, Ethernet, UART1+2 2x16pin 24V/70W, 5V/10W, Ethernet, UART3

SENSOR SUPPORT	
FPV Camera	Sony Starvis IMX462 (Default) or Sony Starvis 2 IMX678 + AR0234
Flir Hadron 640R	Option
NextVision DragonEye2	Option
NextVision NightHawk2-UZ	Option
Workswell Wiris Enterprise	Option
Custom sensors	Upon request (i.e. Lidar, Multispectral Cameras etc)

FLIGHT TIME	
w/o Payload (XXAh battery)	74min (25Ah) or 90 min (50Ah)
Tethered	Continuous

OPERATIONAL PERFORMANCE	
Max Speed	20m/s
Max Ascending/Decending Speed	8m/s, 4m/s
Max Wind Speed	20m/s
Temperature range	Cold start -20°C to +50°C, Pre-heated start -36°C to +50°C
Operational Ceiling	4000m
Weather Resistance (IP)	IP55
Deployment time	Under 2 minutes

TRANSPORT CASE)	
Size	146 x 47 x 27cm

ACCESSORIES	
Extra battery	Option
Extra propellers	Option
RTK Base station	Option
Extra long legs	Option
Loudspeaker	Option

OTHER	
Warranty	1 year, Extended Warranty (option)
Compliance	CE , C3 pending

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