



SHORT-RANGE TACTICAL QUADCOPTER

FLIR ION M440

Rugged, agile, and ready to deploy rapidly, the FLIR ION M440 tactical quadcopter is purpose-built for short-range reconnaissance. The ION is rucksack portable and hand-launched. Built-in daytime and nighttime obstacle avoidance reduce cognitive load for operators in tight, obstructive environments. The ION can fly for 35 minutes, reaching a top speed of 23 mph (10.3 m/s).

The ION's nimble flight capabilities pair with GPS-denied navigation. In GPS-denied or degraded environments, the ION can still maintain operation. The ION also utilizes accurate cursor-on-target, providing accurate coordinates for relay to the GCS. These battlefield capabilities combine improved situational awareness with intuitive operation to keep the warfighter safe and out of the line of fire in dangerous environments.

The ION M440 system is an NDAA-compliant drone designed and manufactured in the United States. The ION is pre-approved for government and military acquisition by the Defense Innovation Unit's Blue sUAS Program.

FEATURES

RAPIDLY DEPLOYABLE

Immediately soldier-deployable short-range reconnaissance VTOL system.

SAFER TO FLY

Embedded sensors and advanced flight algorithms offer a continuous collision avoidance failsafe.

OPERABLE IN GPS-DENIED ENVIRONMENTS

Maintains operational and flight capabilities in GPS-denied or degraded environments.

OPEN SYSTEM ARCHITECTURE

Features a high-powered discrete mission computer for advanced autonomous functions, is MAVLINK compliant, and interoperable with C-GCS, including TOGA.

APPLICATIONS

IMMEDIATE ISR

SITUATIONAL AWARENESS

FORCE PROTECTION

BEYOND LINE-OF-SIGHT RECONNAISSANCE

TARGET TRACKING

SPECIFICATIONS

ION M440 Kit Details

Standard Features

Air Vehicle

Two Lithium-Ion rechargeable smart batteries

Battery Charger

Softshell portable case

Pelican hard shipping case

Field repair kit

ION 440 H-GCS

ION M440 H-GCS (ATAK integrated)

Weight – with Payload 3.99lbs (1.8kg)

Dimensions – Folded 11.1" x 5.7" x 4.9" (28.2cm x 14.5cm x 12.4cm)

Dimensions – Unfolded 22.5" x 22" x 4.9" (56.4cm x 56cm x 12.4cm)

Payload

Wide EO Sensor 12.0 MP EO Sensor with 3.37mm 82° FOV Lens

Narrow EO Sensor 12.0 MP EO Sensor with 3.37mm 28° FOV Lens

IR Sensor 320 x 256 px FLIR BOSON 320 with 6.3mm 34° FOV lens

EO Sensor Zoom 4x optical, 10x digital

Time of Flight Sensor Forward Collision Avoidance

Performance

Endurance 35 min (MSL: 100 ft, Ambient Temp: 4.5-37.7° C)

Speed 23 mph (10.3 m/s)

Environment

Wind Tolerance 20kts (10.3 m/s)

Precipitation 0.25" per hour (0.64cm per hour)

Ambient Temperature Limit -20°C, +50° C

Data Link

Frequency 1800-1850 Mhz

Encryption AES 256

Protocol MAVLink

Range 3 km

Radio 1.8Ghz DDL



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