



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

FORCE

BEYOND LINE-OF-SIGHT  
RECONNAISSANCE

TARGET



**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



**CONTACT US for a QUOTE**

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