



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



AMERICAS

FLIR Systems, Inc.
Corporate Headquarters
1201 S. Joyce Street
Suite C006
Arlington, VA 22202
Office: +1 703.682.3400

FLIR Systems, Inc.
27700 SW Parkway Ave
Wilsonville, OR 97070
Office: +1 877.773.3547

FLIR Systems, Inc.
606 SE Depot Ave
Gainesville, FL 32601
Office: +1.855.325.8284

For More Information contact
ion_sales@flir.com

www.flir.com
NASDAQ: FLIR

Items described herein are subject to export regulations and may require a license prior to export. Diversion contrary to US law is prohibited. Imagery for illustration purposes only. Specifications are subject to change without notice. ©2021 FLIR Systems, Inc. All rights reserved. 02/03/21

20-1626-UIS_FLIR_ION_M440
US LTR



The World's Sixth Sense®