



ULTRA LOW-LIGHT ISR, TRACKING AND MAPPING

FLIR StormCaster-L

The FLIR StormCaster-L ultra low-light imaging payload offers unmatched ISR, tracking and mapping performance during twilight and nighttime operations.

As a member of our next generation payload family, the StormCaster-L reflects a leap in scalable payload performance offering a 7x improvement in line of sight stabilization, enhanced range of motion and a dramatically increased geolocation accuracy - all in a rugged, low SWaP-C package.

The modularity of the StormCaster payload family facilitates interoperability and rapid interchange of payloads across SkyRanger R70 and R80D SkyRaider platforms while leveraging continuously evolving aircraft performance, intelligence and a set of available accessories.

FEATURES

FULL COLOR ULTRA LOW-LIGHT 4K/12MP EO IMAGING

Crisp, sharp imagery provides critical intelligence under demanding lighting conditions.

STABILIZATION PERFORMANCE

Permits clandestine operation by increasing aircraft standoff range.

RICH AND EXPANDING FEATURE SET

With multiple embedded NVIDIA TX2 processors, the R70/R80D is a flying supercomputer with an engine for real-time AI at the network edge, including object detection and classification and support for AI development with third-party vendors.

APPLICATIONS

IMMEDIATE ISR

CLANDESTINE OPERATIONS

TARGETING

SITUATIONAL AWARENESS

EVENT OVERWATCH

FORCE PROTECTION

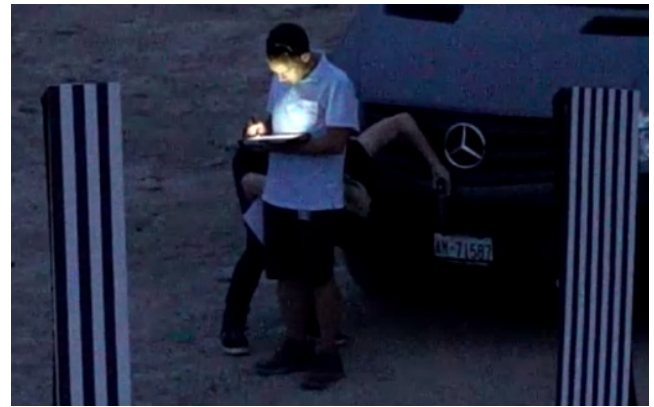
CRITICAL INFRASTRUCTURE PROTECTION

BORDER SECURITY

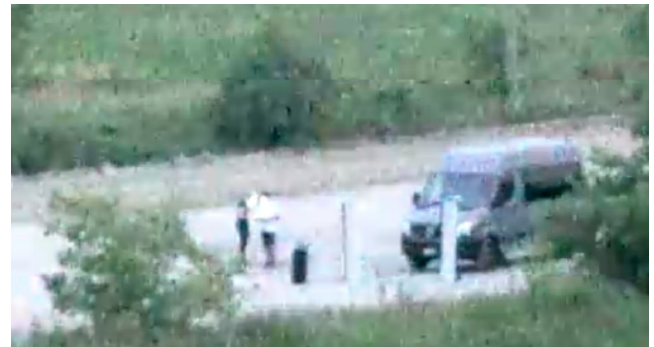
ADVANCED TARGET RECOGNITION

SPECIFICATIONS

Low Light Imager	
Resolution	4240 x 2832 max, 12.2 MP
Fields of View	39° optical, 11° with digital zoom
Gimbal	
Line-of-sight Stabilization	< 0.3 mRad
Stabilization	3 axis (pitch, roll, yaw)
Vibration Isolation	6 axis passive on aircraft
Controllable Ranges of Motion	
Roll	+/- 0 degrees
Pitch	+20/-90 degrees
Yaw	+/- 180 degrees
Slew Rate	
	60 deg/s
Weight	
	1.3Kg (2.9 lbs)
Dimensions	
	196mm (W) x 201mm (L) x 239mm (H) 7.7" (W) x 7.9" (L) x 9.4"(H)
Operating Temperature	
	0° C to 45° C (32° F to 113° F)
Additional System Features	
	Geo-pointing User Defined Object Tracking Moving Target Indication Digital Image Stabilization Target Coordinates, Heading, Speed AI-based People/Vehicle Detection & Classification (Q2 2020)



License plate ID at 0.06 lux



ISR at 0.06 lux



Color discrimination : > 1hr before sunrise

AMERICAS

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

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

FLIR Systems, Inc.
7055 Troy Hill Dr. Suite 300
Elkridge, MD 21075
Office: +1 877.692.2120

FLIR Systems, Inc.
575 Kumpf Dr.
Waterloo, ON N2V 1K3, Canada
Office: +1 519.489.6726

FLIR Systems, Inc.
1001 17th St #680
Denver, CO 80202
Office: +1 720.442.7410

EUROPE

FLIR Systems
2 Kings Hill Avenue - Kings Hill
West Malling, Kent ME19 4AQ
United Kingdom
Office: +44 (0)1732 220 011
Fax: +44 (0)1732 843 707

MIDDLE EAST

FLIR Systems B.V. - Abu Dhabi
Wadi Al Fey St.
Building 60, Office # 302
New Ministries Exit / Khalifa Park Area
Abu Dhabi, U.A.E.
Office: +971 2 666 1561
e-Fax: +1 503 914 1591

FLIR Systems Saudi Arabia
Office 127, First Floor
Akaria Plaza Building, Olaya Street
Riyadh, 11481, Saudi Arabia
Office: +966 11 464 5323
Fax: +966 11 464 0438

ASIA

FLIR Systems Japan K.K.
Meguro Tokyu Bldg. 5F, 2-13-17
Kami-Osaki, Shinagawa-ku.
Tokyo, 141-0021, Japan
Office: +81-3-6721-6648

For More Information contact
surveillance_sales@flir.com

www.flir.com
NASDAQ: FLIR

Imagery for illustration purposes
only. Specifications are subject
to change without notice. ©2019
FLIR Systems, Inc. All rights
reserved. 10/09/19

19-2125-UIS-StormCaster L Payload
Specsheet LTR



The World's Sixth Sense®