STORMCASTER-T

Continuous zoom LWIR imaging

APPLICATIONS

- IMMEDIATE ISR
- CLANDESTINE OPERATIONS
- TARGETING
- SITUATIONAL AWARENESS
- EVENT OVERWATCH
- FORCE PROTECTION
- ADVANCED TARGET RECOGNITION
- BORDER SECURITY
- CRITICAL INFRASTRUCTURE PROTECTION



The StormCaster-T continuous zoom LWIR payload supports detection, recognition, identification and target acquisition day or night, with maximum range and time on station. Its continuous zoom lens permits long distance ISR while providing sharp, clear actionable imagery in support of the mission.

As a member of our next generation payload family, the StormCaster-T reflects a significant leap ahead 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 set of available accessories.

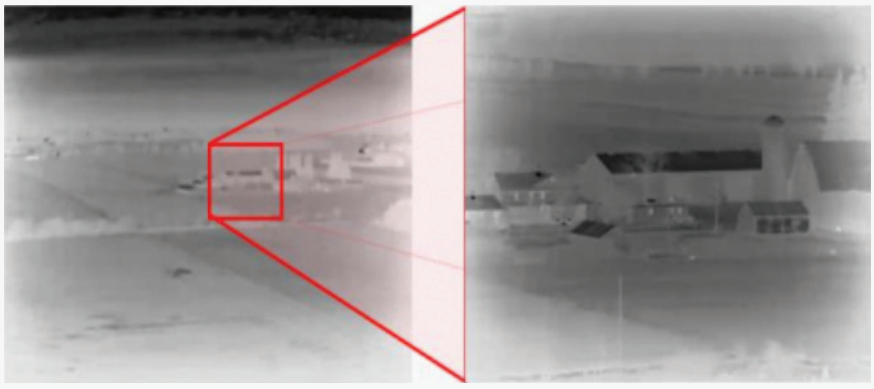
FEATURES

CONTINUOUS ZOOM IR AND SUPERIOR STABILIZATION PERFORMANCE

Industry leading detection, recognition and identification ranges.

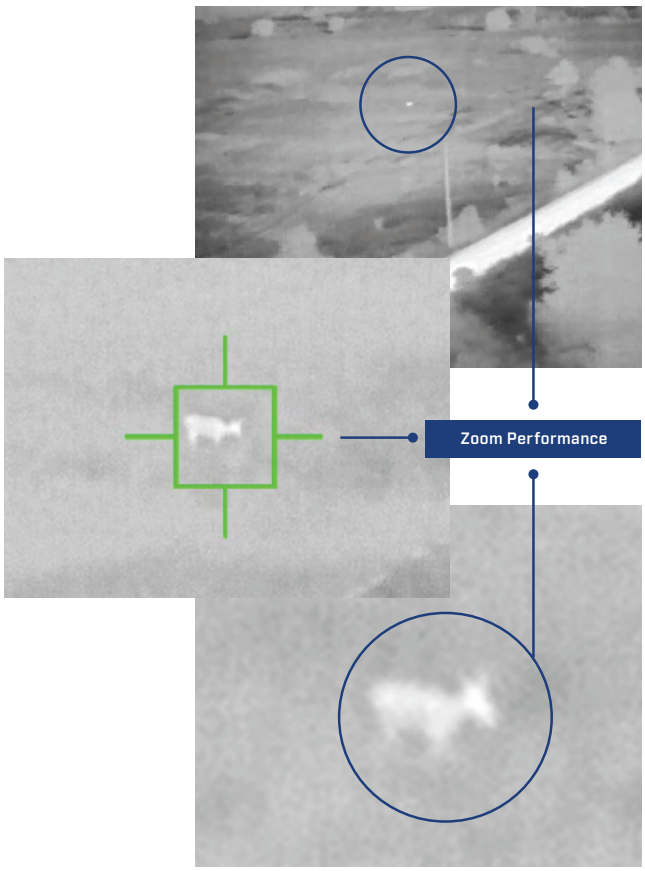
RICH AND EXPANDING FEATURE SET

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.



SPECIFICATIONS

Thermal Imager	
Sensor	Boson, 12µm, 9Hz
Resolution	640 x 512
Fields of View	31° to 6° optical continuous zoom 2° 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	
Pitch	+20/-90 degrees
Yaw	+/- 180 degrees
Slew Rate	
	60 deg/s
Weight	
	1.0 Kg (2.2 lbs)
Dimensions	
	196mm (W) x 159 (L) x 223mm (H) 7.7" (W) x 6.2" (L) x 8.7"(H)
Operating Temperature	
	-20° C to 45° C (-4° 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)



Zoom Performance:
Comparative Imagery for
15mm to 75mm continuous zoom

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