

# STORMCASTER™-E

Long-Range Zoom Imaging Payload



## APPLICATIONS

**IMMEDIATE ISR**

**CLANDESTINE  
OPERATIONS**

**TARGETING**

**SITUATIONAL  
AWARENESS**

**EVENT OVERWATCH**

**FORCE PROTECTION**

**ADVANCED TARGET  
RECOGNITION**

**BORDER SECURITY**

**CRITICAL  
INFRASTRUCTURE  
PROTECTION**



The StormCaster-E is a fully integrated electro-optical camera payload designed for demanding applications that require clear and precise imagery across daylight and low light conditions.

As a member of our next generation payload family, the StormCaster-E represents a significant leap in imaging performance, line of sight stabilization and range of motion – in a rugged low SWaP-C package.

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

### NEXT GENERATION IMAGING TECHNOLOGY

Improved lens, image sensor and ISP support high image quality across the zoom range.

### SUPERIOR LOW LIGHT PERFORMANCE

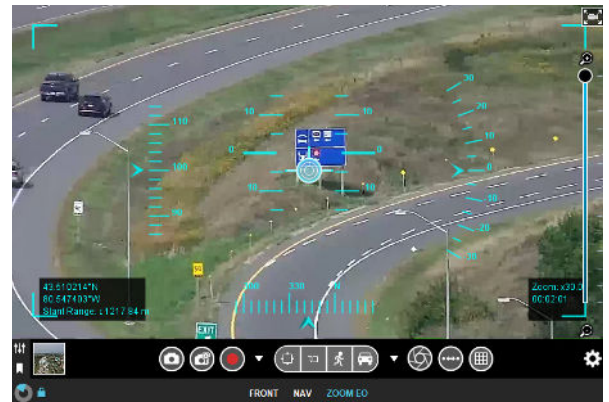
Extends effective operational utility into twilight and backlit nighttime conditions.

### ON-BOARD AI PROCESSOR

On-board Xavier NX supports evolution of enhanced image processing thereby offloading and reducing the reliance on aircraft processors.

## SPECIFICATIONS

<b>Camera</b>	
Shutter Type	Mechanical
Zoom	30x Enhanced Optical, 4x Digital
Field of View	58.1° to 2.3°
Video Resolution	1080p/60
Removable Memory	No
Line-of-Sight Stabilization	<0.3 mRad
<b>Gimbal Stabilization</b>	
	3 axis (pitch/roll/yaw)
<b>Controllable Ranges of Motion</b>	
Pitch	+20 /-100 degrees
Yaw	+/- 180 degrees
<b>Environmental Performance</b>	
	All weather operations IP-54 compliant
<b>Video Metadata</b>	
	Embedded STANAG 4609 KLV Metadata
<b>Weight</b>	
	1.1kg (2.4 lbs)
<b>Dimensions</b>	
	196mm (W) x 140mm (L) x 191mm (H) 7.7" (W) x 5.5" (L) x 7.5" (H)
<b>Operating Temperature</b>	
	-20°C to +50°C (-4°F to 122°F)
<b>Additional System Features</b>	
	Geopointing User Defined Object Tracking Moving Target Indication Digital Image Stabilization Target Coordinates, Heading, Speed AI-based People/Vehicle Detection and Classification



Zoom performance: Comparative imagery across 1x, 30x, 120x zoom range

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