



STORMCASTER™ -DX

Multi-role laser target designator

APPLICATIONS

**MANNED/UNMANNED
AIR STRIKES**

**AIR-LAUNCHED
EFFECTS**

PRECISION MORTARS

ORGANIC

NAVAL GUNFIRE

PRECISION FIRES



The Teledyne FLIR StormCaster-DX is a multi-role, low-SWaP laser target designator payload designed to affect the STANAG-compliant terminal guidance of laser guided munitions. StormCaster-DX is tightly integrated with the R80D SkyRaider UAS to leverage its class-leading payload capacity, multi-mode operations (tethered/untethered & mounted/dismounted), and AI-CV-based targeting capabilities.

SC-DX marks another entry of industry-leading detection and classification for StormCaster payloads, achieving dependable stability and IR acuity in adverse conditions. User-defined target tracking captures accurate coordinates, heading, and speed of moving humans and vehicles, enabling clandestine target monitoring and marking from a group 1 UAS.

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

FEATURES

GROUP 1 LASER MARKER/DESIGNATOR

Low SWaP enables coded laser target designation from a rucksack-portable VTOL UAS.

NON-COOPERATIVE LASER SPOT TRACKING

Detect, decode, and geolocate the source or termination of off-board lasers.

HIGHLY ACCURATE COORDINATE GENERATION

Gimbal stability, laser range finder, and ATAK integration enable precise tracking, placement, and coordinate accuracy.





SPECIFICATIONS

Thermal Imagers	
Wide Angle LWIR	
Sensor	FLIR Boson 640, 12 μ , 60Hz
Resolution	640 x 512
Fields of View	24°
Narrow Angle LWIR	
Sensor	FLIR Boson 640, 12 μ , 60Hz
Resolution	640 x 512
Fields of View	5.8°
Gimbal	
Line-of-Sight Stabilization	<0.3mrad
Stabilization	3 axis (pitch, roll, and yaw)
Vibration Isolation	6 axis passive on the aircraft
Controllable Ranges of Motion	
Pitch	+20° above horizon /-100° below horizon
Yaw	+/- 40°
Slew Rate	60 deg/s
Dimensions & Weight	
Dimensions	174 mm (W) x 174 mm (L) x 194 mm (H)
Weight	1.25Kg
Environmental	
Operating temperature	-20°C to 50°C
Additional System Features	
Dual FOV LWIR; Picture in Picture ±20m Geo-Locating User Defined Object Tracking Moving Target Indication Digital Image Stabilization Classification: ITAR	

AMERICAS

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