

LSIR 1280 & LSIR 640 | Modular IR Mapping Camera

Modular Camera. Orbit Friendly. No Operator. Realtime Video



LSIR 1280 | HD

\$34,800

qty 1

\$28,200

each, qty 3 +

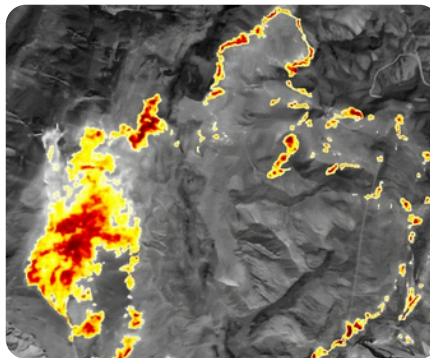
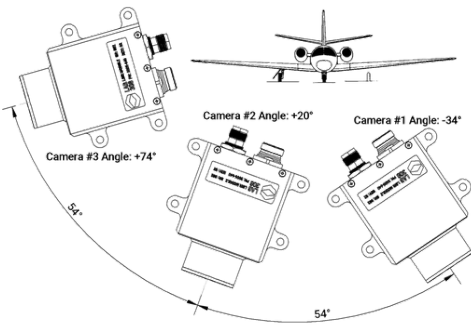
LSIR 640 | SD

\$20,590

qty 1

\$17,900

each, qty 3 +



Modular Camera

Small form factor IR camera designed to be easily mounted on any airborne platform to create a mapping capability where additional cameras increase overall mapping coverage.

Streaming Video

Modular LWIR camera provides geospatially accurate and detailed video streams overhead any incident. Passive mapping allows for real-time maps when Cloud connected.

Orbit-Ready Data Collection

LSIR cameras are easy to integrate modular, fixed camera that have no flight path requirements and collects IR imagery and supports cloud processing.

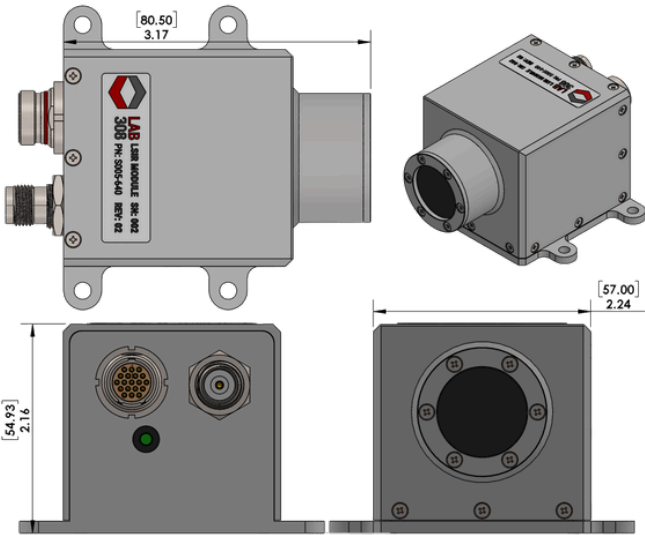
LSIR CAMERA CAPABILITIES

- 720p or 480p Infrared Core in Small Form Factor
- 720p or 480p H.264 FMV with MISB KLV
- Full Res Geo Snapshots with IR temp
- Passive IR mapping with No Flight Path Requirements
- Onboard Multi-Day Storage and Native Cloud Offload
- Environmentally Sealed and Aviation Ready

Built for aerial fire operations.

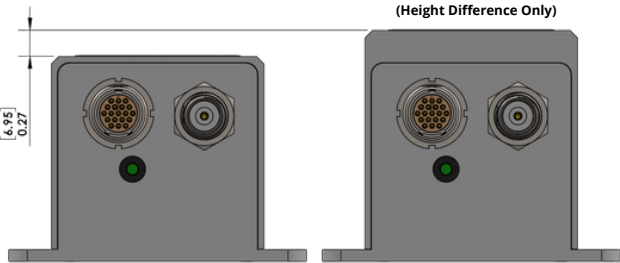
// SPECIFICATIONS // LSIR 640 & LSIR 1280

Weight	285 g / .62 lb SD 340g / .75lb HD
Power	10 W / 28V DC
Sensors (SD)	LWIR (480p); 640x512, 12 micron
Sensors (HD)	LWIR (720p); 1280x1024, 12 micron
Radiometric	±10°C at operating altitude
IR GSD at 2,500 ft	1.3m (SD variant); 0.65 m (HD variant)
HFOV x VFOV	60° × 48°
Coverage (1 Camera System)	5,600 acres @ 2.5k ft AGL
Coverage (3 Camera System)	10,200 acres @ 2.5k ft AGL
Connection	1 Gbps Ethernet
Cloud	Hosting service provider agnostic
GPS	L1 GPS, multi-constellation or digital input
Mounting	#6 fastener flanges, threaded hardpoints



LSIR 640

LSIR 1280
(Height Difference Only)



AVAILABLE OPTIONS Contact us for customized variants

Configuration	Size (L x W x H)	Weight	Purchase (Qty 1)	Purchase (Qty 3)
SD (480p) · 80° (S005-640)	3.2" x 2.25" x 2.15"	285 g / .62 lb	\$20,590	\$17,900
HD (720p) · 60° (S009-1280) Preliminary	3.2" x 2.25" x 2.45"	340 g / .75 lb	\$34,800	\$28,200

LSIR HARDWARE OUTPUTS

H.264 MISB KLV Digital Video

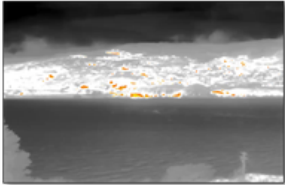
MISB ST 0601, H.264 over IEEE 802.3ab (~1 Mbps)

Full-resolution Geo-Snapshots with IR temp

High quality stills that drag and drop into any GIS application



SD or HD IR Image Stream



IR TEMP

LSIR SOFTWARE OUTPUTS / CLOUD

- Orthorectified image mosaic with IR hotspots
- H.264 Streaming Video
- IR perimeter of active fire (.SHP, .KML)
- Compatible with leading GIS and fire / Common Operating Picture software packages.*
- Full- and low-resolution geo-snapshots

1

Passive Data Capture
Lab 308 fixed, wide FOV aviation cameras create a stream of image data with embedded geolocation.

>

2

Uplink
Starlink, SATCOM or cellular link transmits Lab 308 image streams to the cloud for more detailed processing.

>

3

Cloud Processing*
Open source geospatial tools stitch Lab 308 imagery stream into full fire imagery products with no human involvement.

>

4

Fire Maps & Streaming Video
High resolution fire maps with accurate fire location available after every aircraft orbit. IR video from any Lab 308 sensor can be streamed to GIS or video services.

*No ongoing software licensing cost is required to operate Lab 308 cameras in direct viewing mode. Cloud provider and GIS software may incur usage charges.

At Lab 308, we engineer mission-critical thermal imaging systems built for extreme aerial firefighting environments.

SCHEDULE AN INTRO CALL OR FLIGHT DEMO
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