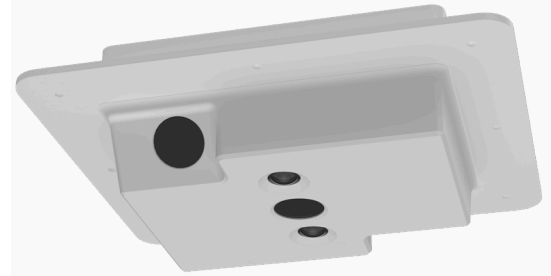
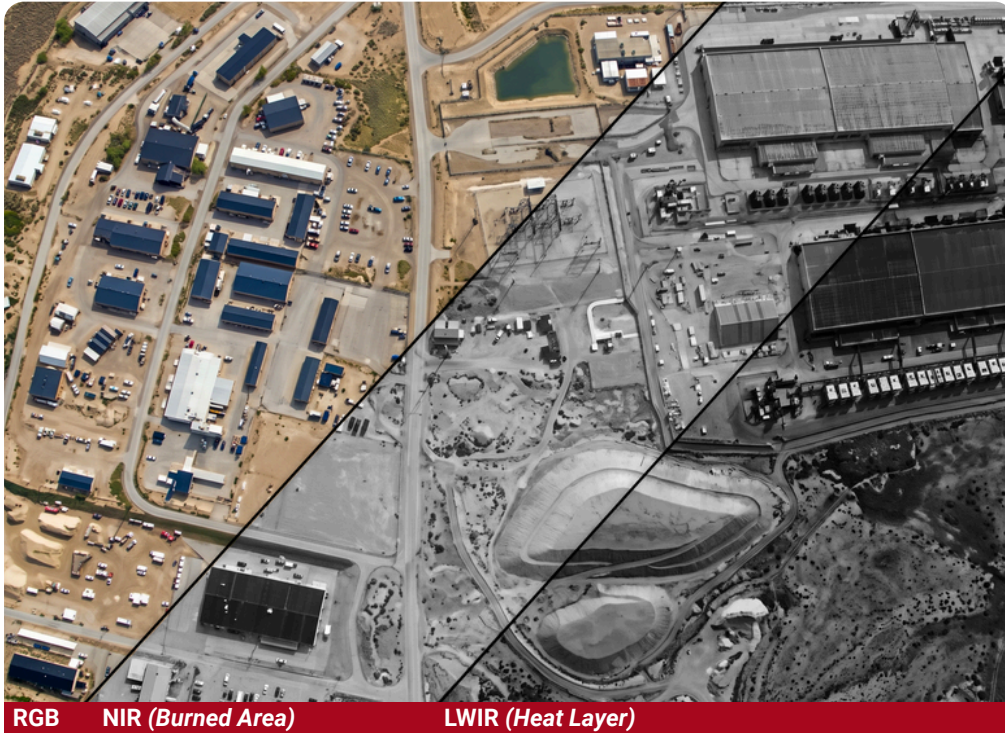


Lab 308 All in One (AiO) | Fire Mapping System

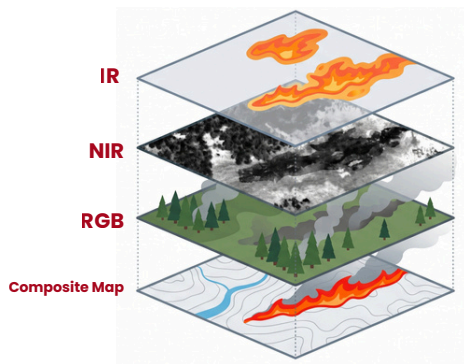
3 IR Cameras+RGB+NIR. Orbit Friendly. Realtime Video. No Operator.



All in One Fire Mapping
3 IR 640 | 1 RGB | 1 NIR

\$82,850

Multispectral Aviation Camera
Integrated GPS/INS
Easy to Integrate



3 Band Wildfire Mapping

3 LWIR cameras coupled with horizon-to-horizon RGB and NIR. An all-in-one solution for before, during and after a wildfire with no operator input required.



3 Band Streaming Video

Multiple LWIR cameras plus 3.2MP RGB & 3.2MP NIR sensors provide geospatially accurate and detailed video streams overhead any incident.



Orbit-Ready Data Collection

Simple to integrate fixed camera pod that has no flight path requirements and collects high resolution imagery in multiple bands and supports cloud processing.

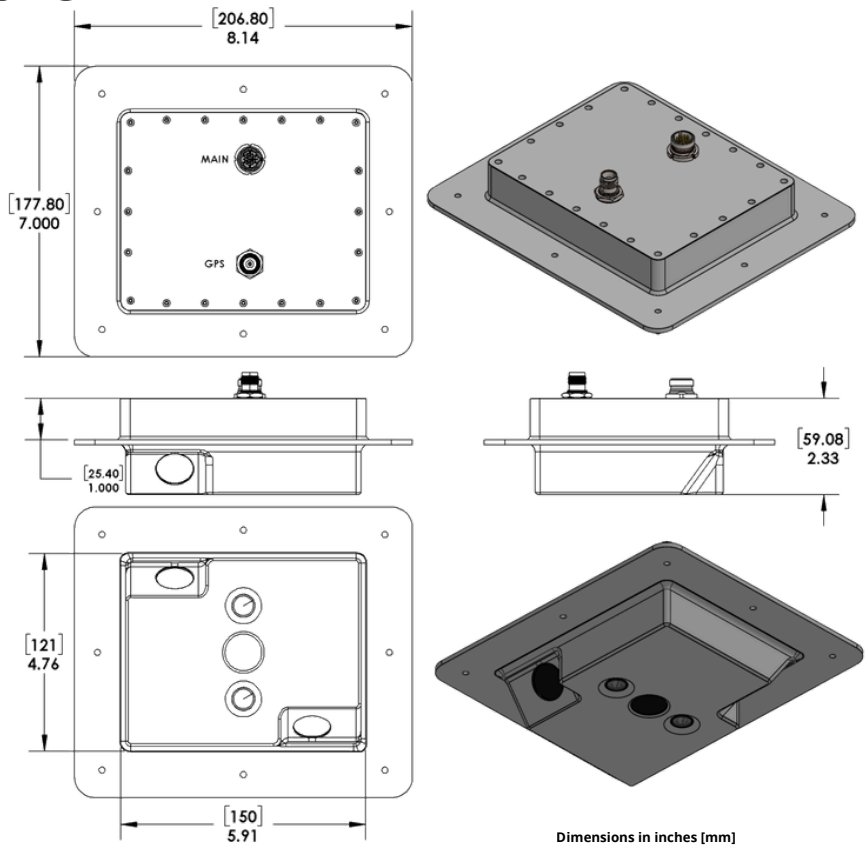
AiO CAMERA HARDWARE CAPABILITIES

- Qty 3 SD Infrared, RGB, NIR 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 // All in One

Weight	1.1kg / 2.4lb
Power	Up to 30 W / 28V DC
IR Sensors	3x LWIR (480p); 640x512, 12 micron
Radiometric	±10°C at operating altitude
RGB/NIR Sensors	1 RGB 3.2MP, 1 NIR (850nm) 3.2MP
IR GSD at 2,500 ft	1.3m
RGB/NIR GSD at 2,500 ft	0.95m
Combined HFOV	150°
Connection	1 Gbps Ethernet
Cloud	Hosting service provider agnostic
GPS	L1 GPS, multi-constellation or digital input
Mounting	Flange with #8 thru holes



AVAILABLE OPTIONS Contact us for customized variants

Configuration	Size (L x W x H)	Weight	Purchase
S006-640-R01	8.1" x 7" x 2.3"	1.1kg / 2.4 lb	\$82,850

AiO HARDWARE OUTPUTS

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

Full-resolution Geo-Snapshots
High quality stills that drag and drop into any GIS application



AiO SOFTWARE OUTPUTS / CLOUD

- Orthorectified image mosaic with IR hotspots
- IR perimeter of active fire (.SHP, .KML)
- H.264 streaming video
- Compatible with leading GIS and fire / Common Operating Picture software packages.
- Orthorectified RGB image mosaic
- Orthorectified NIR image mosaic
- 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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Preliminary specifications - subject to change. October 2026
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