



# Longwave Spatial Image Reconstruction

## Smart Modular Camera

### Lab308 LSIR Cameras

“Smoke-penetrating infrared that gives Air Attack clear, actionable perimeter intelligence.”



**Detects** – Radiometric IR detects hotspots

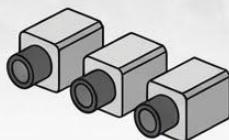


**Locates** – Modular cameras plus spatial imagery generates fire edges



**Delivers** – Stream perimeter updates to cockpit tablets and downstream users

#### Modular Array



Miniaturized fixed modules with no moving parts

#### Orbit Friendly



No specialized mow the lawn patterns

#### Cloud Processing



Demonstrated cost of \$1 per hour with onboard connectivity

#### Sizing Estimate



Automatically produced every 2 minutes after aircraft orbit



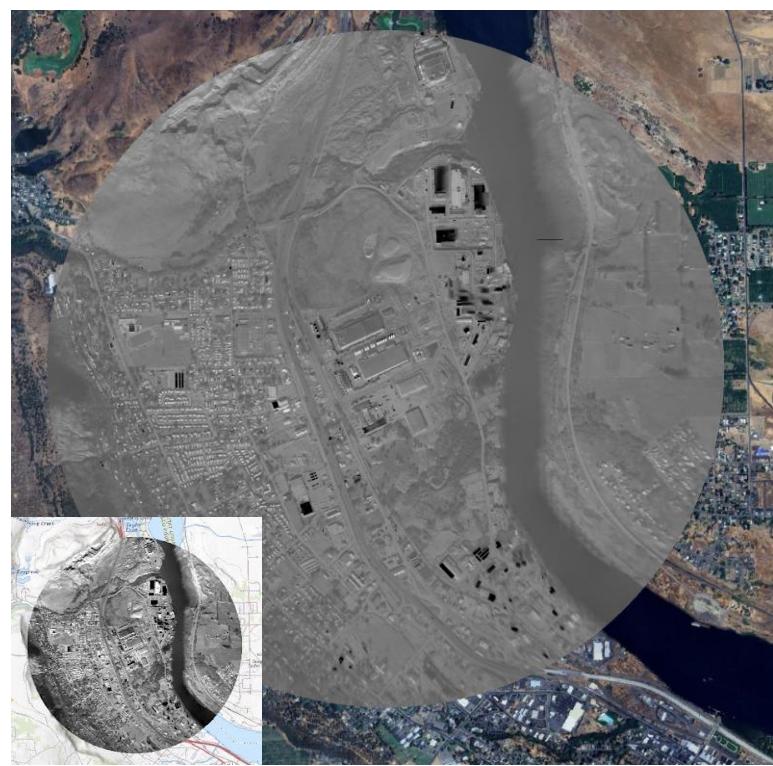
Lab 308 LSIR cameras are designed to integrate onto all aerial fire platforms with no change in operational usage and passively collect, interpret and deliver high quality IR maps and wildfire perimeter estimates in real-time.

#### NO OPERATOR NO FLIGHT PATH

Required



Required



| Configuration      | Coverage @ 2.5k ft AGL | Coverage @ 5k ft AGL | Purchase Price | or | Lease Price      | Hourly Operation |
|--------------------|------------------------|----------------------|----------------|----|------------------|------------------|
| Single Camera      | 5,600 acres            | 14,000 acres         | \$20,950       |    | \$7k per year    | <\$1 per hour    |
| Three Camera Array | 10,200 acres           | 24,000 acres         | \$52,850       |    | \$17.5k per year | <\$1 per hour    |

LSIR modules contain integrated GPS/INS and are IP67 weatherized and EMI tested. Onboard storage of 16 days images or 7 days images + H.264 video. Hourly operation computed via Google Cloud, not inclusive of any connectivity charges. Compatible with major wildfire GIS tools and services.