# Sii LR
## Advanced Long-Range SXGA Thermal Camera

Unleash the power of the Sii LR, an advanced long-range thermal camera, meticulously crafted for Homeland Security applications. Experience unmatched ultra long-range detection and assessment capabilities with its cutting-edge SXGA 10μm cooled thermal camera.

Versatility at its finest, the Sii LR comes in a range of configurations, offering both analog and IP options to suit your specific needs. An advanced thermal image stabilization, enabling crystal-clear visuals even in challenging conditions.

Seamless Integration (ONVIF Profile S Compliant) further enhances the Sii LR's appeal, making it effortlessly compatible with your existing security systems.

**Elbit Systems™**
ISTAR & EW

# Sii LR

## Advanced Long-Range SXGA Thermal Camera

## Key Features

- **Ultra Long-Range Vision:** Equipped with a cooled thermal core, the Sii LR provides unmatched long-range detection, ensuring top-tier security

- **Effortless Integration:** Seamlessly integrate the Sii LR into your existing setup, thanks to its user-friendly design and compatibility

- **Precision Zoom Capability:** Analyze critical areas with ease, using the continuous zoom function

- **Complete Customizability:** Tailor the Sii LR to your unique needs, optimizing its performance for your specific security challenges

- **ONVIF Profile S Compliant:** Trust in industry standards for interoperability, ensuring a reliable and compliant security solution
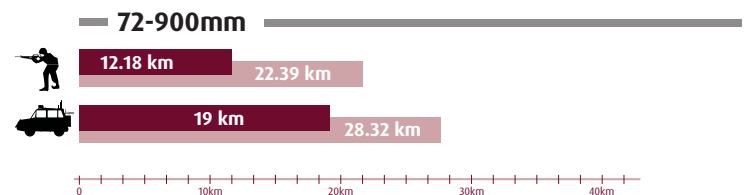
## Technical Specifications

| Parameters | |
|---|---|
| Spectral band | 3.6-4.15μm |
| Detector type | XBn |
| Pixel size | 10μm |
| Format | 1280 x 1024 (SXGA) |
| NETD | <30° mK |
| Frame rate | 25 / 30 Hz |
| Video encoding | H.264 |
| Communication protocols | ONVIF profile S |

| Focal length | Sii LR 600mm | Sii LR 900mm |
|---|---|---|
| F# | 4 | 4 |
| Narrow FOV | 1.2° | 0.81° x 0.65° |
| Wide FOV | 11.4° | 9.3° |
| Optical zoom | x10 | x12.5 |
| Digital zoom | x16 | |
| Lens type | Motorized Continuous Zoom | |
| Focus modes | Manual, On Demand, Auto Focus | |
| Dimensions | 599mm [L] x 323.8mm [W] x 343.6mm [H] | |
| Weight | < 14kg | < 18kg |

## Range Performance

**60-600mm**

- Human: 8.83 km (Recognition), 18.56 km (Detection)
- Vehicle: 15.71 km (Recognition), 25.46 km (Detection)

Scale: 0 — 10km — 20km — 30km — 40km

**72-900mm**

- Human: 12.18 km (Recognition), 22.39 km (Detection)
- Vehicle: 19 km (Recognition), 28.32 km (Detection)

Scale: 0 — 10km — 20km — 30km — 40km

(*) Ranges were calculated according to TRM4 simulations and according to Nyquist, with a 50% probability of success. Ideal atmospheric and scene conditions assumed.

Human (1.8m X 0.6m)     Vehicle (2.3m X 2.3m)     ▮ Recognition in km (6 pixels)     ▮ Detection in km (2 pixels)

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