

# Sii XR

## LONG RANGE CONTINUOUS ZOOM THERMAL CAMERAS

Vumii's Sii XR is a family of long range, continuous zoom, cooled and uncooled thermal cameras for use in long range, dual channel, or multi-sensor surveillance systems.

Sii XR features a wide range of thermal engine and lens options using in both the 3 - 5 $\mu$  MWIR and 7.5 - 14 $\mu$  LWIR spectral ranges.

Sii XR is available in Vumii's Accuracii product or as a standalone fixed mounted package for easy integration.



### KEY BENEFITS

#### Long Range Optics

Cooled and Uncooled thermal cameras provide Johnson's Criteria Detection beyond 20km

#### Cooled and Uncooled Continuous Zoom Cameras

Innovative cooled and uncooled continuous zoom thermal cameras with thermal autofocus provide extremely long range performance.

#### Advanced Imaging

Vumii's proprietary image processing algorithms provide industry leading thermal image quality.

#### Rugged Design

Designed and certified to IP67, hot, cold, dusty, and other harsh environments

### AVAILABLE CONFIGURATIONS

#### Thermal Imager & Optics:

- Uncooled 17 $\mu$  640 x 480: Continuous Zoom 25 - 225mm
- Cooled 15 $\mu$  640 x 512: Continuous Zoom 19 - 275mm
- Cooled 15 $\mu$  640 x 512: Continuous Zoom 15 - 300mm
- Cooled 15 $\mu$  640 x 512: Continuous Zoom 21 - 420mm
- Cooled 15 $\mu$  640 x 512: Continuous Zoom 48.5 - 700mm

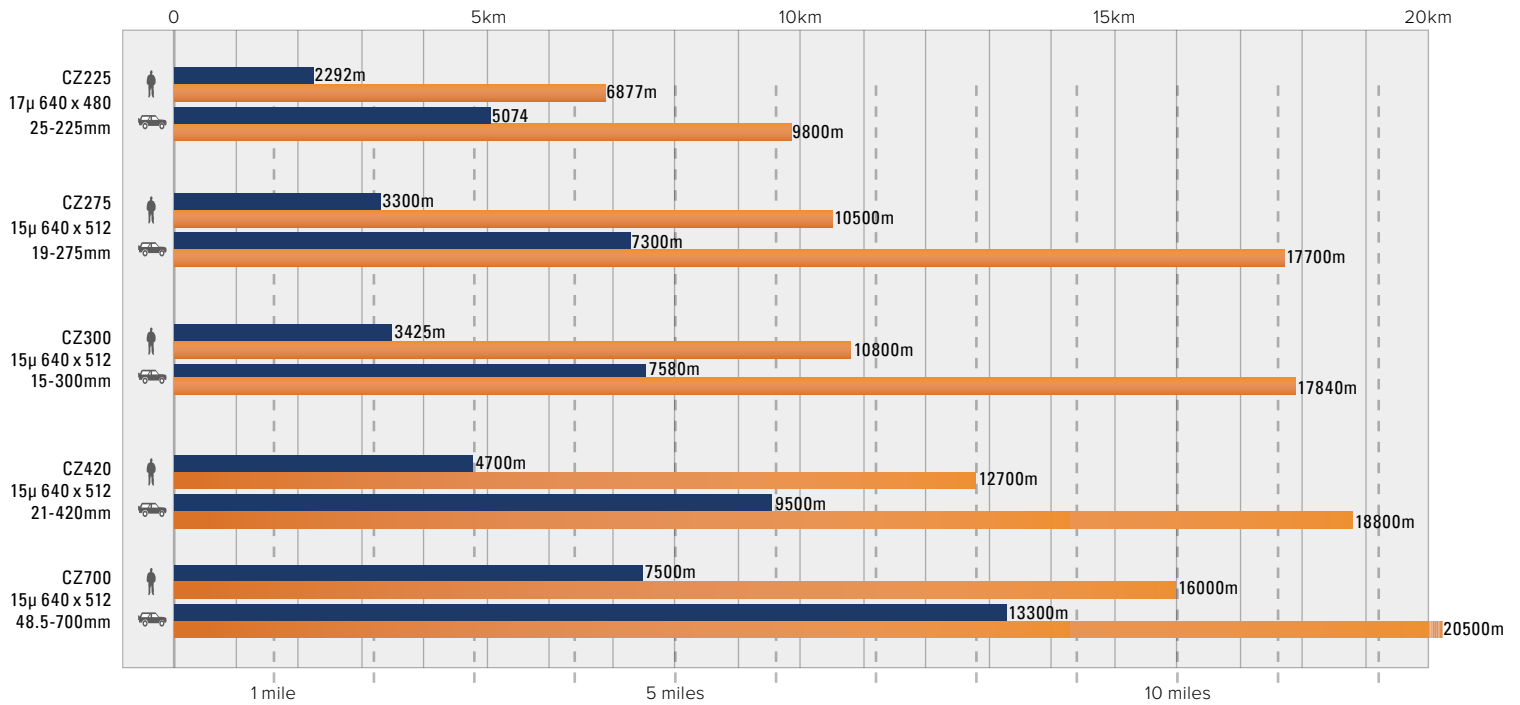
#### Video Output:

- NTSC or PAL

#### Analog or IP out

#### CameraLink out





= Human Subject  
Size 1.8m x 0.6m

= Vehicle Subject  
Size 2.3m x 2.3m

**Detection** 2 lines on subject  
**Recognition** 6 lines on subject

\* Performance dependent on atmospheric conditions



## Imaging Characteristics

	Uncooled Thermal	Cooled Thermal
Imager Type	Uncooled 17μ Microbolometer 8-14μ	Cooled 15μ InSb 3-5μ
Resolution	17μ: 640 x 480	15μ: 640 x 512
Sensitivity	NETD: < 50° mK	NETD: < 20° mK
Video Output	RS-170 (30Hz) / CCIR (25Hz)	RS-170 (30Hz) / CCIR (25Hz)
Video Format	Composite Video 30Hz or 9Hz (easy export option) TCP/IP (H.264) optional	Composite Video CaneraLink out TCP/IP (H.264) optional
Imager Features	12x Digital Zoom & Autofocus	12x Digital Zoom & Autofocus
Continuous Zoom Lenses	CZ 25 - 225mm: 24.5° - 2.77° HFOV	CZ 19 - 275mm: 29.8° - 2.0° HFOV CZ 15 - 300mm: 35.1° - 1.8° HFOV CZ 21 - 420mm: 25.1° - 1.3° HFOV CZ 48.5 - 700mm: 11.9° - 0.8° HFOV

## Electro-Mechanical Characteristics

Unit Weight & Dimensions	CZ225 10kg (22 lbs) 400mm (L) X 250mm (H) X 235mm (W)	CZ275 6.7kg (14.8lb) 340mm x 202mm x 205mm CZ300 7.2kg (15.9lb) 340mm x 202mm x 205mm CZ420 8.0kg (17.6lb) 384mm x 202mm x 205mm CZ700 8.5kg (18.7lb) 420mm x 202mm x 205mm
Environmental Rating	IP67	
Power Input	12 - 32VDC	18 - 32VDC
Power Consumption	30w Typical; 130w Max	24w Typical; 80w Max
Operating Temperature	CZ225: -40 to +60°	CZ275, CZ300, CZ700: -40 to +60°; (CZ420: -20 to +60°)
Communication	RS-232 RS-422/RS-485 4 wires TCP/IP (optional)	