

SUPERIOR THERMAL SECURITY CAMERAS



The Sii family is a line of thermal security cameras used for observing and monitoring sensitive sites in total darkness, light fog, smoke, or day light conditions.

Sii cameras have the widest variety of lens options on the market and can be configured with IP video and control, with Vumii's innovative Fire Detection Algorithm, or integrated with a pan/tilt unit.

KEY BENEFITS

Innovative Features – Unique signal processing algorithms provide enhanced contrast for Video Analytics

High Image Quality – High Resolution, small pixel pitch

Advanced Optics – Continuous Zoom, Dual Field of View, F#1.0 Motorized Lenses, and Thermal Imaging **Autofocus**

Versatility – Wide variety of fixed, PTZ, and optics configurations

Easy Installation – Pelco D protocol, common industry mounting options, serial or IP communication

Rugged Design – Designed and certified to IP66 and MIL standards



APPLICATIONS

- Homeland Security
- Border Patrol
- Military Force Protection
- Government Sites
- Public Safety
- Coastal Surveillance
- Airport Perimeter
- Railway Infrastructure
- Electric & Nuclear Power
- Water Utility Infrastructure
- Petrochemical
- Residential

AVAILABLE CONFIGURATIONS

Sii is available as a NTSC or PAL camera with a wide variety of thermal engine, lens and other options:

Advanced Motorized Lenses with Autofocus

- Continuous Zoom -15-100mm
- Dual FOV - 45/135mm
- Fixed FOV (F#1.0) - 25mm, 50mm, 75mm, 135mm, 150mm

Single FOV Athermalized Lenses

- Fixed FOV - 8.5mm, 14mm, 19mm, 35mm, 50mm, 60mm, 100mm

Resolution (RS170/CCIR)

- 17µ 640 x 480
- 25µ 320 x 240

Fixed or Pan/Tilt Mounted

Analog or IP

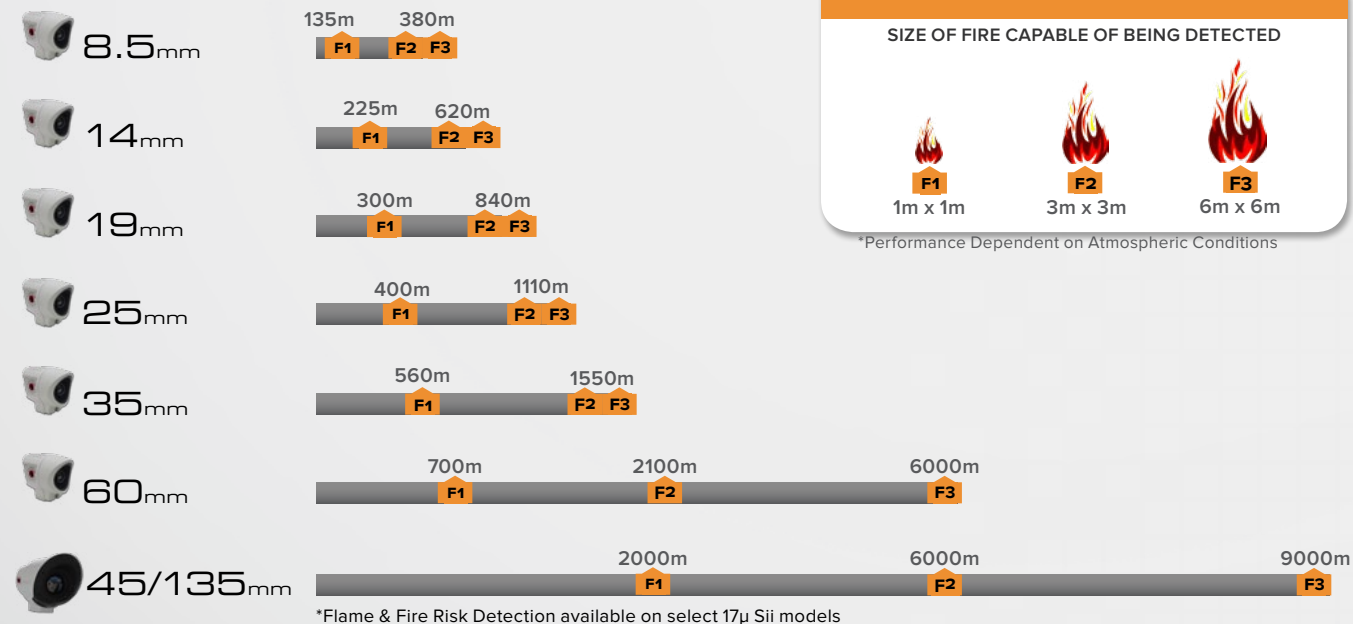
Engine & Lens Configurations



Imaging Characteristics		
Effective Pixels	17µ: 640 x 480 (NTSC / PAL)	25µ: 320 x 240 (NTSC) 25µ: 384 x 288 (PAL)
Imager Type	Uncooled Microbolometer 8-14µ	
Video Output	RS-170 (30Hz) / CCIR (25Hz), 1.0V p-p, 75ohm	
Lens Options (HFOV): Motorized Zoom & AutoFocus	NTSC / PAL Dual FOV: 45/135mm (14.3°/4.6°) Continuous Zoom: 15-100mm (42.2°-6.2°) Fixed F#1.0: 25mm(25°) 50mm(12.4°) 75mm(8.3°) 135mm(4.6°) 150mm(4.2°)	NTSC Dual FOV: 45/135mm (10.4°/3.4°) Continuous Zoom: 15-100mm (30.8°-4.6°) Fixed F#1.0: 25mm(18.4°) 50mm(9.2°) 75mm(6.1°) 135mm(3.4°) 150mm(3.1°)
Lens Options: Athermalized (Focus Free)	NTSC / PAL 8.5mm(73°) 14mm(44°) 19mm(33°) 35mm(18°) 50mm(12.4°) 60mm(10.3°) 100mm(6.2°)	NTSC 8.5mm(54°) 14mm(33°) 19mm(24°) 35mm(13°) 50mm(9.2°) 60mm(7.6°) 100mm(4.6°)

In Camera Analytics	
Thermal Autofocus	Autofocus on Demand is available in Motorized and Zoom lens configurations
Fire Detection*	Flame Detection Alerts
Risk of Fire (Heat) Detection*	High Risk of Fire Alert (Temp. Threshold)
Alarm Types*	Video Overlay, Serial Communication, and Dry Contact Closure Outputs, IP communication (optional)

Fire Detection Performance



Fixed Configurations



Sii products come in one of several camera enclosure configurations, dependent upon lens type

Electro-Mechanical Characteristics	Sii AT	Sii ML	Sii XR
Unit Dimensions	7.95" (L) x 5.32" (W) x 6.65" (H) 202mm (L) x 135mm (W) x 169mm (H)	12.91" (L) x 8.07" (W) x 9.53" (H) 328mm (L) x 205mm (W) x 242mm (H)	15.47" (L) x 8.03" (W) x 8.15" (H) 393mm (L) x 204mm (W) x 207mm (H)
Unit Weight	< 6.94 lbs (3.15kg) - Dependent on Optics	< 11.8lbs (5.35kg) - Dependent on Optics	< 17.7lbs (8kg) - Dependent on Optics
Environmental Rating	IP66; 93% RH Humidity		IP66; 93% RH Humidity
Certifications	CE, FCC, RoHS, Mil-Std 810F, EN60950-1, IEC 60721-4-4, EN60950-22, IEC 60068, IEC 60529		CE, FCC
Power Input	12-32VDC (PoE available with TCP/IP version using Athermalized Lenses)		9-28VDC
Power Consumption (Continuous/Max)	w/ Athermalized Lenses: (0.3A/0.3A)	w/ Motorized Lenses: (0.3A/0.9A) w/ Continuous Zoom/DFOV Lenses: (0.3A/2A)	0.3A / 0.9A
Operating Temperature	-40° to +140° F (-40° to +60° C)	-27° to +131° F (-33° to +55° C)	-27° to +122° F (-33° to +50° C)
Communication Protocol	Pelco-D, SDK available		
TCP/IP Option	Analog & IP Video/Control (H.264, MJPEG Encoding)		Not Available
Control Features	Autofocus (motorized models), Continuous Zoom(model dependent), Digital Zoom		
Compatible Mounts	Wall Mount: Videotec WBOVA2 Pole Mount: Videotec WSFPA (+WBOVA2) Corner Mount: Videotec WCWA (+WBOVA2)		Contact Vumii for mounting information

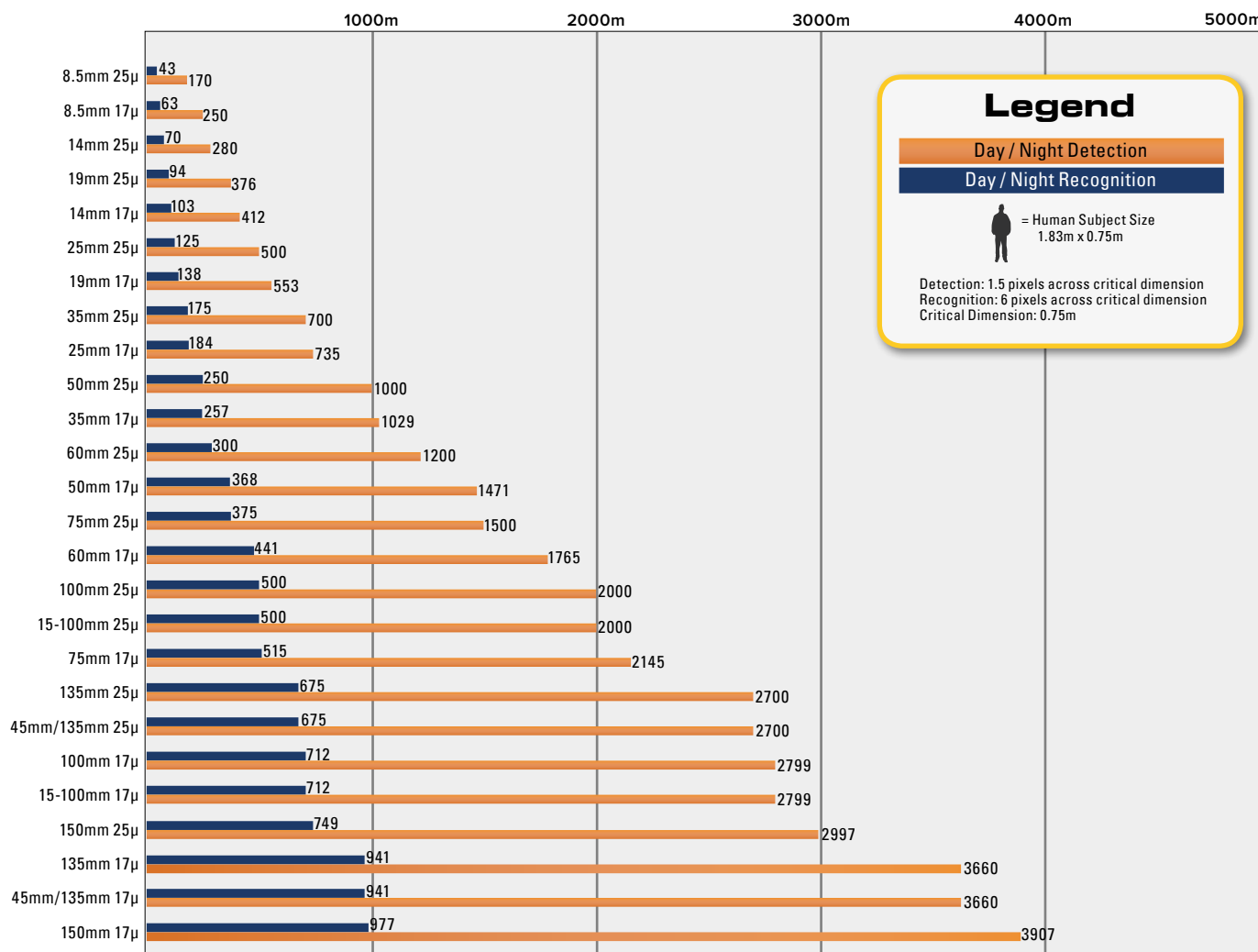
PTZ Configurations



Sii cameras are also available with an integrated pan/tilt unit

Pan/Tilt Unit Characteristics	Sii AT	Sii ML	Sii XR
Unit Dimensions	7.95" (L) x 14.92" (W) x 18.62" (H) 202mm (L) x 379mm (W) x 473mm (H)	12.91" (L) x 16.34" (W) x 18.62" (H) 328mm (L) x 415mm (W) x 473mm (H)	Contact Vumii for information about customized PTZ options
Unit Weight	< 33.7 lbs (15.3kg) - Dependent on Optics	< 40lbs (18kg) - Dependent on Optics	
Environmental Rating	IP66; 93% RH Humidity		
Operating Temperature	-27° to +131° F (-33° to +55° C)		
Power Input(Consumption)	24VDC (1.0A Continuous, 5A Max)		
Communication Protocol	Pelco-D, Vumii, SDK available		
Control Connection	Serial: RS422/232/485, TCP/IP (optional)		
Pan Range / Tilt Range	360° Continuous / -90° to +90°		
Pan Speed	Variable Speed, 0 - 100°/sec Max		
Compatible Mounts	Wall Mount: Pelco WM2000 (PA2000 required) Pole Mount: Pelco PA102 (+ WM2000 & PA2000) Corner Mount: Pelco CM100 (+ WM2000 & PA2000)		

Range Performance



Horizontal Field of View

Lens	17μ NTSC / PAL	25μ NTSC	25μ PAL
8.5mm	73.3°	53.9°	64.7°
14mm	44.5°	32.7°	39.3°
19mm	33.2°	24.4°	29.3°
25mm	25.0°	18.3°	22.0°
35mm	17.8°	13.1°	15.7°
50mm	12.5°	9.2°	11.0°
60mm	10.4°	7.6°	9.2°
75mm	8.3°	6.1°	7.3°
100mm	6.2°	4.6°	5.5°
15-100mm	41.6° - 6.2°	30.6° - 4.6°	36.7° - 5.5°
135mm	4.6°	3.4°	4.1°
45/135mm	13.9° / 4.6°	10.2° / 3.4°	12.2° / 4.1°
150mm	4.2°	3.1°	3.7°



* Some countries may be subject to thermal camera export licensing requirements