Key Features

Fire / Hot-Spot Detection
Detects fires and hot spots without smoke, from a few meters up to 6km, day or night.

Proprietary FD Algorithm
Flame behavior analysis for accurate identification and zero false alarms.

Mulitple Lens Options
A wide range of lens options to ensure effective coverage for all projects.

Key Benefits

Multiple Alarm Types
Visual, Serial, TCP/IP, ONVIF and Contact Closure alarms signal an alarm state.

Versatility
Can be used simultaneously for fire detection or prevention, security, and equipment monitoring.

Rugged Design
Ruggedly designed to withstand the harshest environmental conditions.

Sii AT FD

A thermal surveillance camera with onboard fire detection and hot spot analytics to ensure a quick response and disaster prevention.

Security Solutions

24/7

Recycling / Waste Management
Fires are a huge risk in waste management, putting both people and property at risk. Thermal cameras can instantaneously alert to an overheating electrical component, both static and on a conveyor belt. Cameras alert to spontaneous combustion fire from fluff piles, or chemicals, ensuring a fast response.

Commercial
Fire and fire-hazard are a threat to warehouses and other commercial properties. Thermal cameras can be placed inside or outside to monitor high risk areas 24/7 and send an immediate alert on detection of heat or fire.

Critical Infrastructure
Thermal cameras can passively monitor and protect critical infrastructure from the threat of fire. Cameras strategically placed within the site can help monitor critical areas and provide an alert if there is a risk of fire, or flames.
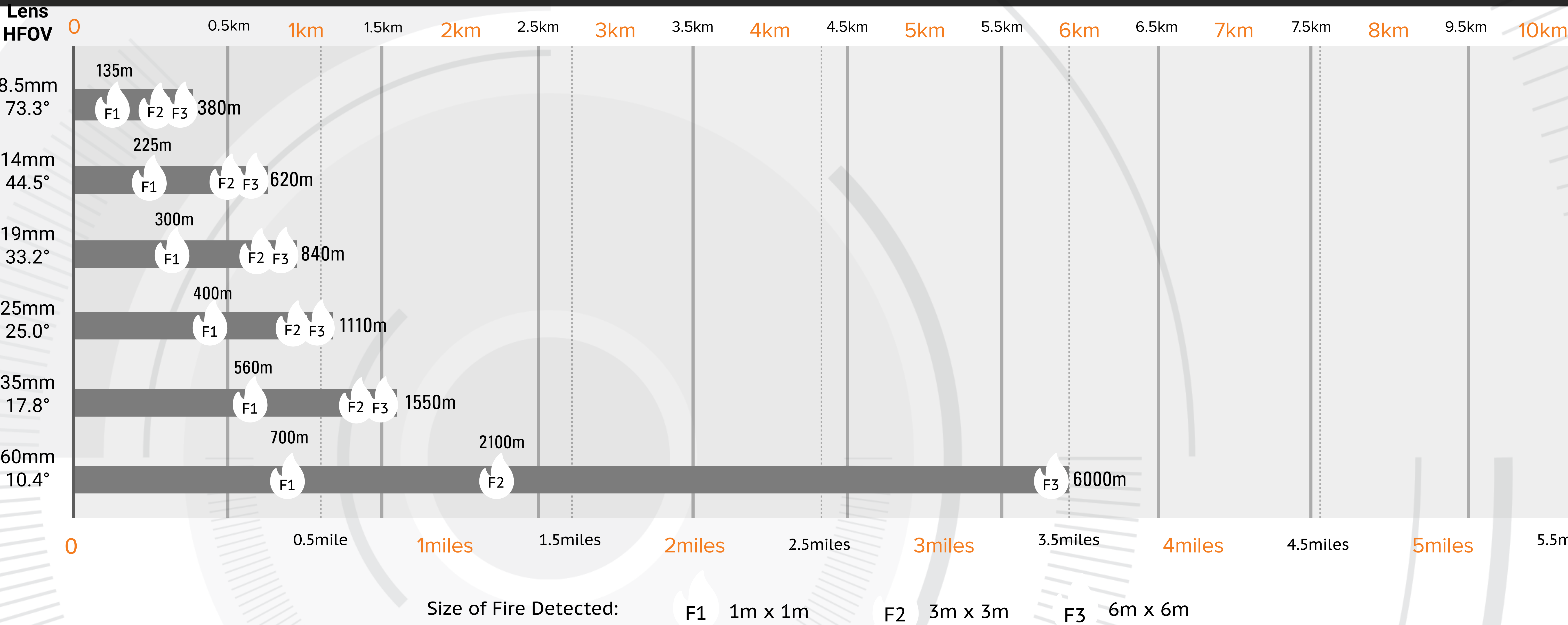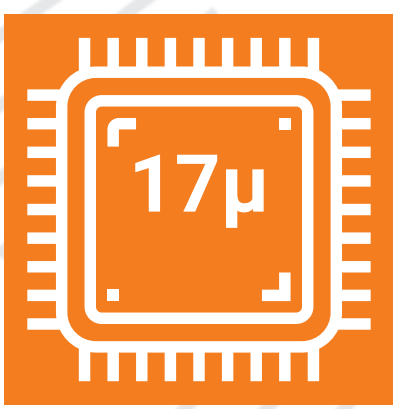
City Surveillance
Thermal cameras can passively cover a wide area and can be successfully used to monitor fires within a town or city, especially historic areas traditionally built from wood.

OPGAL
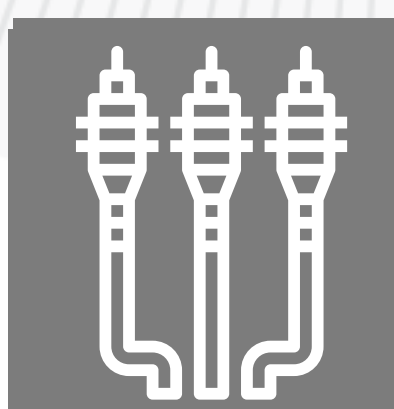*Beyond the Visible*

NDAA
SECTION 889
COMPLIANT

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Fire Detection
Hot Spot Identification

OPGAL
Beyond the Visible

Detection Range Chart

Lens HFOV		
8.5mm 73.3°	F1 135m, F2 F3 380m	
14mm 44.5°	F1 225m, F2 F3 620m	
19mm 33.2°	F1 300m, F2 F3 840m	
25mm 25.0°	F1 400m, F2 F3 1110m	
35mm 17.8°	F1 560m, F2 F3 1550m	
60mm 10.4°	F1 700m, F2 2100m, F3 6000m	

Distance scale: 0 – 10km / 0 – 5.5miles

Size of Fire Detected: F1 1m x 1m   F2 3m x 3m   F3 6m x 6m

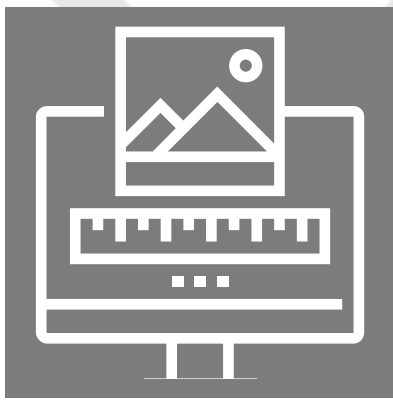# Specifications Overview

Imager Type
Uncooled 17µ
8-14µm

Video Output
Analog Video or
H.264/MJPEG

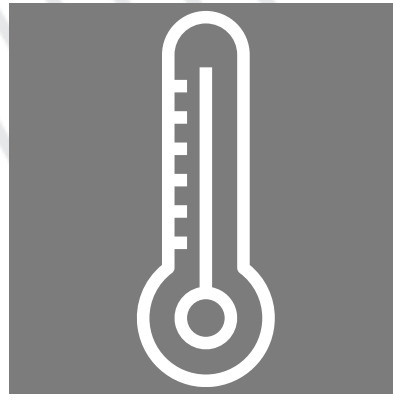**Certifications**
CE, FCC

Alert Types
Visual, Serial, TCP/IP, ONVIF and Contact Closure

Resolution
640 x 480

Focus
Fixed (Athermal)

Operating Temperature
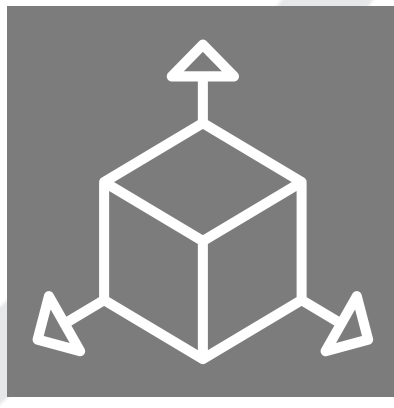-40° to +60°C

Environmental Rating
IP66

Sensitivty
NETD: <50°mK

Power Input
Analog: 12 – 32VDC
IP: 12VDC or POE (802.3af)

Hot Spot Threshold
0° to +90° C

Unit Dimensions (LxWxH)
202mm x 135mm x 169mm
7.95" x 5.32" x 6.65"

Lens Options
8.5, 14.2, 19, 25, 35, 60

Communication Protocol
Opgal, ONVIF Profile S

Time to Detect
Hot Spot: Immediate
Fire: 2 seconds of continuous detection

Weight
3.15kg max.
<7lbs

OPGAL
Beyond the Visible