CZRAY

Thermal Imaging for a Safer World

Detect Fire Risks Early

Dual Thermal & Visible Camera

HK380c

Dual Thermal & Visible
Fire Detection Camera





Early Fire Detection
(Overheat Monitoring)

Dual Camera
(Thermal + Visible)

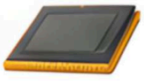
High Sensitivity
(NETD < 40 mK)

Network Support
(ONVIF / RTSP)

IP66
(Outdoor Ready)

Sensor Advantages

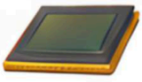
LYNRED PICO384-053+ (Thermal)



LYNRED

- 384 x 288 resolution, 17 µm pixel pitch
- High thermal sensitivity: NETD < 40 mK
- 8-14 µm (LWIR) spectral band
- Low power and high reliability
- Detects subtle temperature rises before smoke appears

OMNIVISION OS05A20 ((Visible)



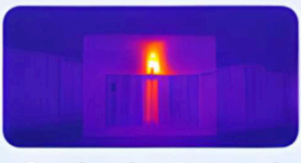
OMNIVISION

- 1920 × 1080 (Full HD), 30 fps
- 1/2.7" optical format, 2 µm pixel pitch
- High-sensitivity, low-noise color images
- Thermal integration supports fire verification and cause analysis

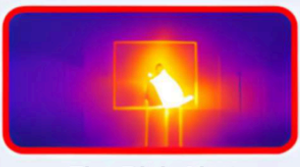
Detection Principle



Normal Condition
(Normal Temperature)



Overheating Detected
(Temperature Rise)



Fire Risk Alert
(Threshold Exceeded)

Key Features

- Real-time temperature and overheat monitoring
- Early fire alerts (threshold and rate-of-rise analysis)
- Simultaneous thermal and visible monitoring and recording
- ONVIF / RTSP network integration
- Compatible with NVR, VMS and control centers
- Wall-mounted for indoor and outdoor applications



Applications (Early Fire Detection & Prevention)



EV Fire Detection

Early overheat and fire detection at EV charging, parking and battery sites



Building Fire Detection

Fire prevention and early response in offices, commercial and public buildings



Warehouse Fire Detection

Overheating and fire monitoring of stored goods



Semiconductor Storage Fire Detection

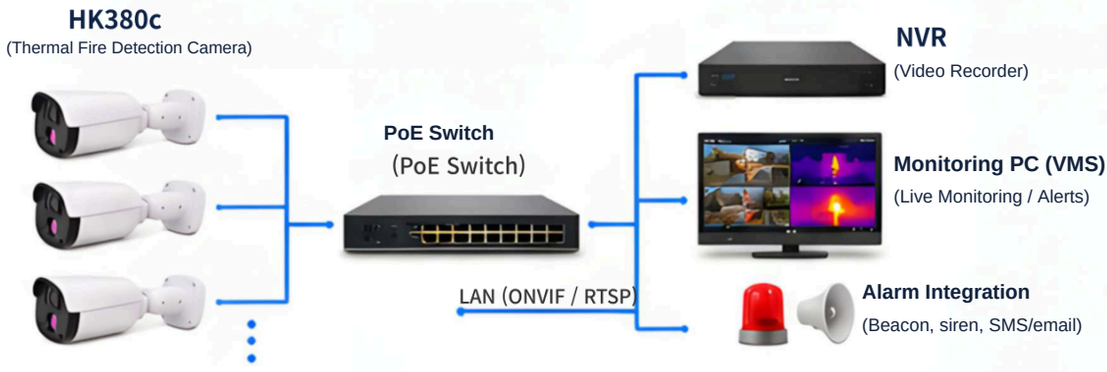
Safe monitoring of valuable equipment and materials



Industrial / Incineration Facilities

Overheating and fire monitoring in waste treatment and manufacturing

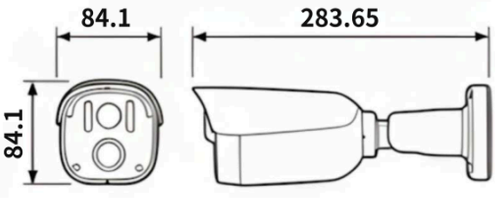
Network System Configuration (Example)



Product Specifications

Thermal Sensor	Lynred PICO384-053+
Technology	Amorphous Silicon (a-Si) microbolometer
Spectral Response	8 ~ 14 µm (LWIR)
Pixel Pitch	17 µm
Resolution (FPA)	384 × 288
NETD	< 40 mK
Visible Sensor	Omnivision (OS05A20)
Resolution / FPS	1920 × 1080 @ 30 fps
Protocol	ONVIF (RTSP protocol)
Thermal Frame Rate	10 fps
Lens	8 mm / 19 mm (Option)
Operating Temp.	-20 °C ~ 40 °C
Storage Temp.	-40 °C ~ 85 °C
Max. Humidity	Max. 80% (non-condensing)
Size (H x V x D)	84.1 × 84.1 × 283.65 mm
Weight	< 2 Kg
Power Supply	12 VDC / PoE
Power Consumption	< 3 W
Environment	Indoor / Outdoor
Option	IR LED
Material	Body : Aluminum, Window : Germanium
Ingress Protection	Splash-resistant (indoor) / IP66 (outdoor)

Dimensions (mm)



Installation



Wall Mount
(Indoor / Outdoor)