



HELMET CAMERA

Thermal Helment-Mounted Camera



Key Features:

- 384x288 Resolution
- 25mm Thermal Lens
- OLED display for viewing images
- Up to 3Km Thermal Range
- Handheld or Helmet Mounted
- IP67 Weather rating

Product Overview

Infinity Thermal Helmet Cameras enable emergency operatives to enter dangerous environments and detect for signs of life in real time thanks to long and short range heat-based thermal imagery – a perfect handheld or helmet-mounted device to find and save people in dangerous environments, such as in burning buildings and fires and thanks to its IP67 rating it can be used anywhere.

Features

Thermal Vision

Heat based imagery from just a few meters away up to 3km allowing you to search and find people in danger.

Environmental

With a temperature range of -20°C to +60°C the binoculars are designed for extreme temperature environments. Subjected and certified to rigorous dust and water immersion tests, the IP67 rating makes it suitable for demanding outdoor applications.

Smart Encode (H.265+)

Deliver high quality video without straining the network, Smart Encode H.265+ is the optimized implementation of H.265. The Smart H.265+ encoding technology includes a scene adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction, providing saving of up to 70% of bandwidth and storage when compared with standard H.265.

HEVC (H.265)

H.265 ITU-T VCEG is a new video coding standard. H.265 Following standard developed around the existing video coding standard H.264, some retain the original technology, while some of the relevant technology to improve the new technology uses advanced technology to improve the relationship between the code stream, encoding quality, and the delay between algorithm complexity, optimize settings specific contents include: Improve compression efficiency, improve the robustness and error recovery capabilities, real-time to reduce the delay, reduce channel acquisition time and a random access delay, reduce complexity.

Technical Specification

Thermal Camera

Image Sensor	5 th Generation PFA sensor
Effective Pixels	384x288 @ 50Hz
Pixel Size and Range	17µm @ NETD ≤25mK
Spectral Range	7.5µm ~ 14µm

Thermal Lens

Lens Type	Fixed
Focal Length	25mm
Field of View (FOV)	14.9° ~ 11.2°
Angular	0.680mrad

Thermal DORI

Detection Distance (Fire: 1m x 1m)	Up to 12km
Detection Distance (Fire: 3m x 3m)	Up to 15km
Detection Distance (Humans: 1.8m x 0.5m)	Up to 9km
Detection Distance (Vehicles: 2.3m x 2.3m)	Up to 15km
Recognition Distance (Humans: 1.8m x 0.5m)	Up to 5km
Recognition Distance (Vehicles: 2.3m x 2.3m)	Up to 8km

Thermal Details

Pseudo Color	6
Exit Pupil	23mm
Digital Zoom	4x
AGC	Support
E-compass	Support
Hot Tracking	Support

Display

Type	OLED
Resolution	1024x768

Battery

Capacity	18650mAh
----------	----------

Electrical

Power	5V (2.8W consumption)
Temperature	-20°C ~ 60°C
Humidity	≤90%
Environmental	IP67

*detections are reliant on environmental conditions and target areas are outside of the established 'Johnson criteria' of thermal detection targets

