

Multifunctional firefighting support solution

Problems

1. Firefighters cannot accurately determine the highest temperature of the fire at the point of ignition.
2. Firefighters cannot accurately assess the specific concentration of various toxic gases at the scene of the fire.
3. Off-site command staff cannot assess the situation inside the fire scene and the specific environmental conditions of each firefighter in real time, resulting in an inability to coordinate safely

Thermal camera profile



Thermal imaging system with gas detection (CO, O₂, H₂S, CH₄).



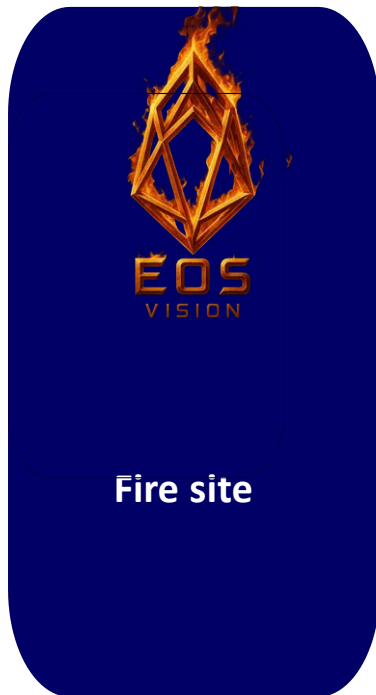
Mounted on the left
of the helmet

No additional mounting
required

Fits the helmet perfectly
and the screen's field of view

How the system works

Wear a multifunctional helmet



Video

Thermal image

Gas detection



Server

4G connection
Wi-Fi / LAN



Command centre



Temporary Command Centre

LCD screen



- Real-time display of thermal images captured by the multifunction assistants, showing ambient air temperature.
- Precise marking of 3 temperature points: highest, lowest and centre temperature.



Multifunction Monitor

Multi-function video recording client software

File(F) View(V) Operation(O) Tool(T) Help(H)

Total: 70 Online: 70 >> >

☐ Do not display offline devices Search

Device Group Channel List People List

- TEST (47.104.197.186:91)
- HikP2P(20170311001)
- Multi-function video recording client 21TFS
- Wide
- 6G_camera (23422346)
- 6G_camera (28090830)
- 3R-02590 (21780306)
- N08 (23423032)
- ZFD01 (23415546)
- ZFD02 (23423255)
- ZFD03 (23424000)
- ZFEZ2 (23407659)
- ZFLZ1 (23412801)
- ZFLZ2 (298A8ABD)

Video Preview

System Playback

Intelligent Intercom

Electronic Map

File Management

2019/08/07 10:08:15

Multi-function video recording client 25.9 fps 3.7 fps 659 kbps

Status: User: admin | Alarm | System Configuration

Transmits
live
images



Multifunction Thermal Imaging Monitor

Multi-function video recording client software

File(F) View(V) Operation(O) Tool(T) Help(H)

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Video Preview

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2019/08/07 10:08:14

22.0°C

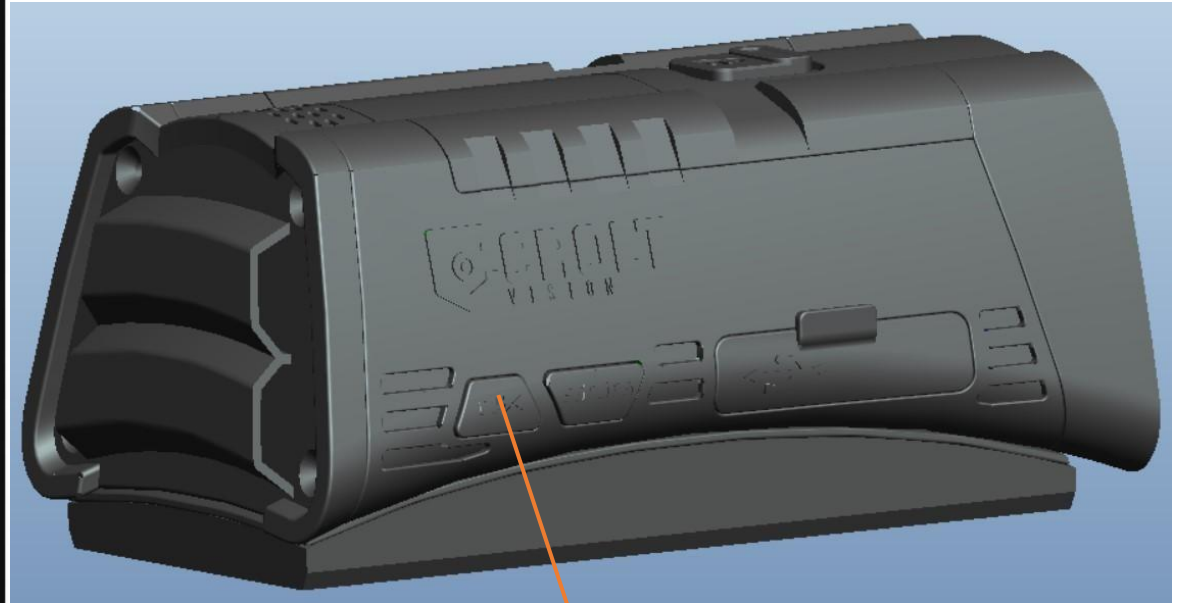
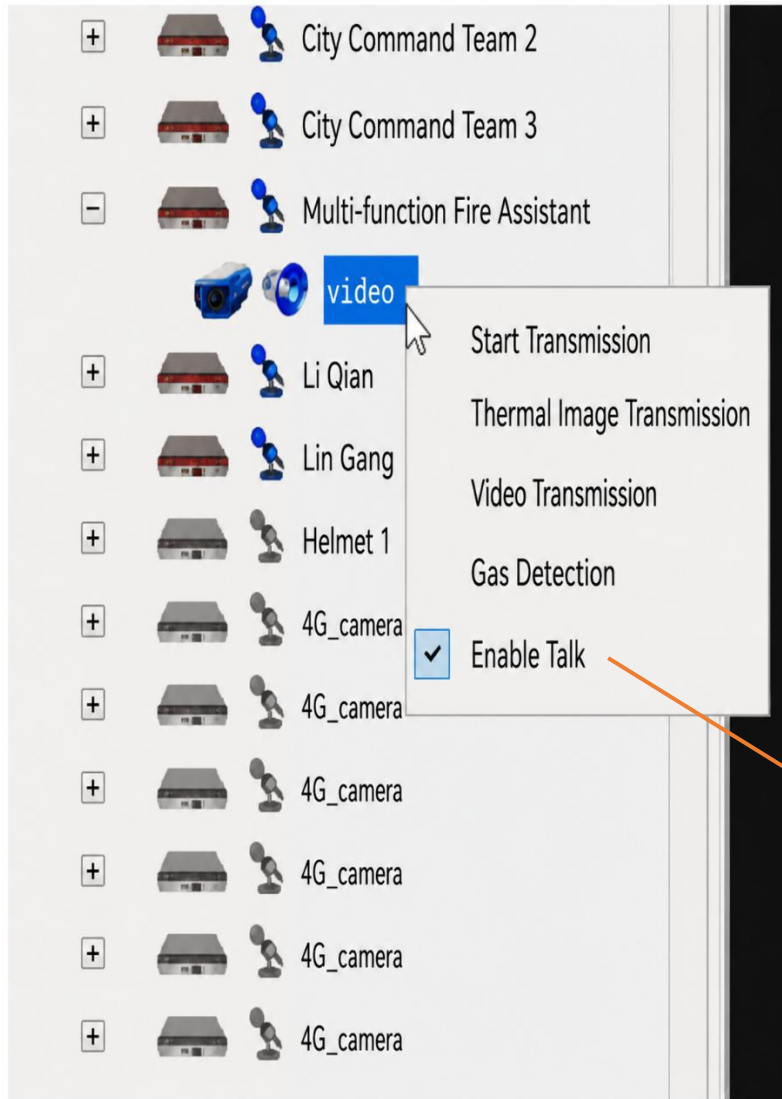
23.0°C

Multi-function video recording client 25.6 fps 5.6 fps 60 kbps

Status: User: admin | Alarm | System Configuration

1. Real-time transmission, temperature readings at three measurement points: high, low and central.
2. Single-button communication channel
3. Gas detection results from both optical lenses.
4. The thermal camera image appears in the software window in real time.

Intercom function



Intercom button

Intercom

Alarm function



The fire alarm detects

Gas concentrations exceeding regulatory limits.

The concentration can be set manually, in which case an alarm signal is sent to the multifunction platform

Helps the command centre to deploy personnel and understand the scene environment.



Main functions



High-speed 4G network



HD180P



Precise thermal imaging



Multi-gas detection



Intercom function



Multifunctional dispatch platform



Gas alarm exceeding the standard



2.4-inch screen