FireFighting Thermal Image-Transfer Helmet

FTK-Q-IRC-4G

This helmet is the first smart thermal helmet for firing fighting. It can alarm the high temperature and emergency. It is built with 4G real-time tramission and walkie-takie. Thus, it can monitor the fire site from the control center by the mesh network.

It can see through fog to detect the fire source to rescue the people in the fog and help them to escape. It can transfer the site image to the control center. It can lower the noise when explosion occurs. It can alarm and measure the temperature automatically.

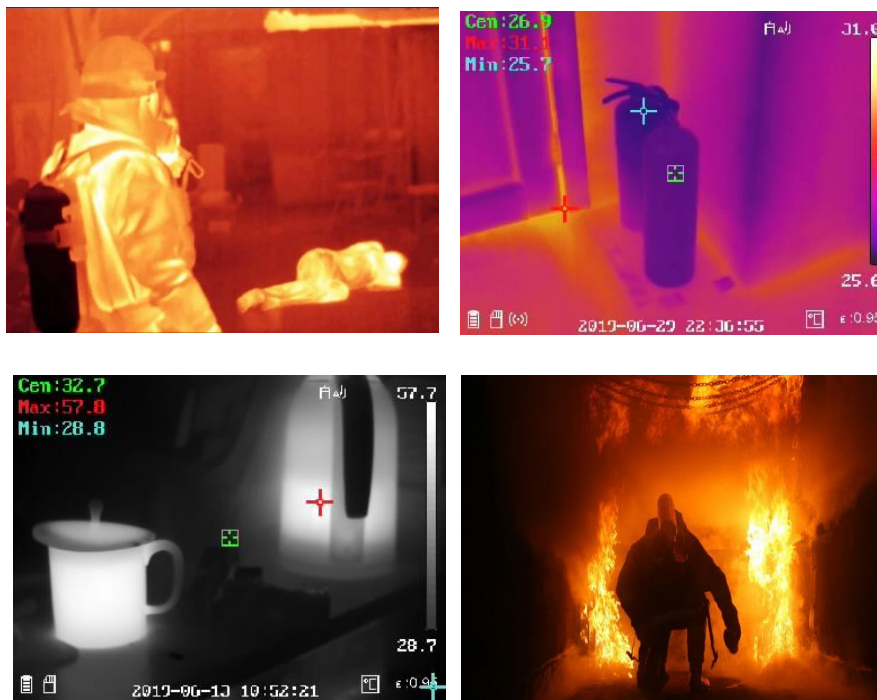The helmet is built with fire proof ABS material. It is drop proof, easy to be worn, safe and reliable.

Explosion Proof Certificate and EU Design Award

Feature:

1. The helmet is built with thermal camera to set free two hands of fire fighters. Thermal can discover the trapped people behind the smog and fire.

2. Temperature can be measured: max,mini, center to discover the hidden fire.

3. With wireless charging adaptor for any-time charging

4. By Sim card in the helmet, image can be transferred to control center, who can know the location of each firefighters and the view can be switched to any firefighter to follow him.

5. Explosion proof: circuit board and battery are made explosive proof, which is certified by China Explosion Authority and Helmet Safety Organization.

6. SOS emergency call, which will be noted on the control center

7. It can connect with the watch to show life signal, by which the control center can know clear about the heart rate and body temperature of fire fighters.

8. With blue-teeth and air breathing sensor, the control center can know how long will the air breathing on the firefighter will work.

9. Helmet is designed to be able to fit the air breathing mask.

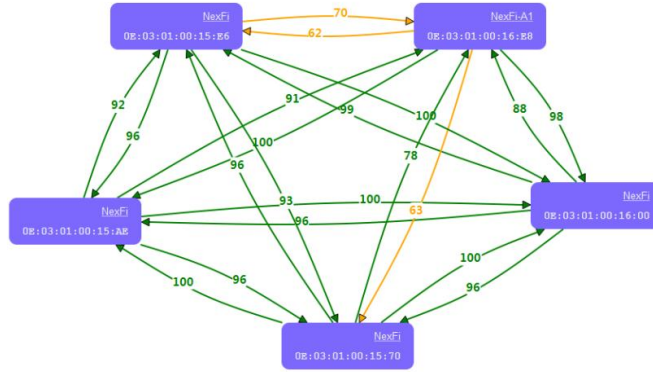**10.** Fire proof face shield, flaming retarded cappa.

11. IP67 Protection

Specification:

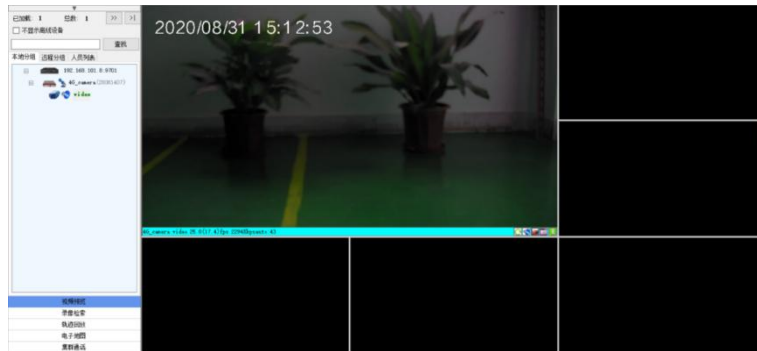| Platform	
Operating system	Android 7.0
TF card	128G
Software	4G location transmission, switch between thermal and visible light
APP	Phone APP for remote monitor, and specification set-up
PC	PC APP for remote monitor and specification set-up
Backstage server	Support the self-built server
Net work	
Cellular data	4G for all the networks
WIFI	802.11b/g protocol， support 2.4GHZ, 5GHz, support the self established network
Blueteeth	BT V4.0
Location	Beidou, GPS
Battery	
Capacity	8000maH
Working hours	More than 8 hours
Charging	USB charger,Type-C port
Physical	
Weight	1700g
Protection	IP67
Explosion	**Ex ib IIC T4 Gb/Ex ibD 21 T130℃**
Material	Fire proof ABS
Buttons	Switch on/ off, display switch, video/ record, brightness, SOS
Port	TypeC-USB， SIM card， earphone
Display	2.9 inch
Audio	
Microphone	52DB microphone
Audio	3.5 audio earphone,blueteeth earphone, walkie-talkie,
Visible light camera	
Lens FOV	120 degree super wide
Resolution	1080P
Thermal camera	
Resolution	384×288
Frame rate	25Hz/50Hz
Color	White hot/black hot/IR color
Video	
Video upload	Send request to the backstage to upload
Protocal	Personal protocal / rtsp / 28181
Video format	MKV/MP4
Video code rate	256kbps-8Mbps

Mesh network

The Mesh network can be established by WIFI. Mesh network support muilti-points extension to cover more area.

Mesh network can support about 20 points.

Monitor App

The monitor App can be installed on phones, tablets, even the PC. The APP can preview the image from the helmet, recieving the image, audio, vidoe from the helmet.

In the app, the location (coordinates) of the fire fighters can be shown.