

The **STEK** FTC-801 series dual-purpose thermal imaging camera for rescue and detection empowers a new perspective for firefighters. It combines high resolution, a large display screen, multiple scene modes, temperature analysis functions, and a strong protection rating, which can break through the limitations of harsh environments such as high temperatures, high humidity, and thick smoke in fire scenes to help firefighters see the surrounding environment quickly and clearly, locate the fire and search for trapped individuals more accurately, providing users with more efficient and safe fire visualization solutions.

Rescue and Detection Grasp the Vitality of the Fire Scene



FTC-801 Thermal Imaging Camera for Firefighting



640*480/384*288
IR resolution



-20°C to 2000°C
Measurement range



Six
image modes



IP67



- 640×480@12μmIR Resolution
- -20°C to 2000°C Measurement Range
- 128 GB Local Storage
- IP67 Encapsulation
- Visualized Temperature of up to 2000°C
- Function Fully for up to 5min at 260°C
- Rugged and Durable

STEK FTC-801 Firefighter Thermal Camera



The temperature distribution of the measured object can be intuitively seen. The maximum temperature measured is up to 2,000 (with diaphragm). It supports functions like temperature analysis, temperature correction, and over-temperature alarms (vibration, screen flash, buzzer alarm), etc.

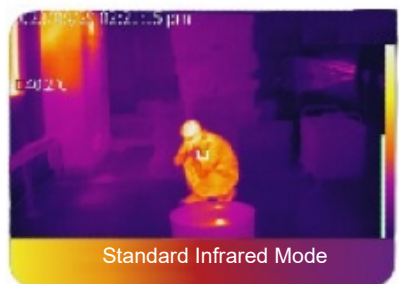
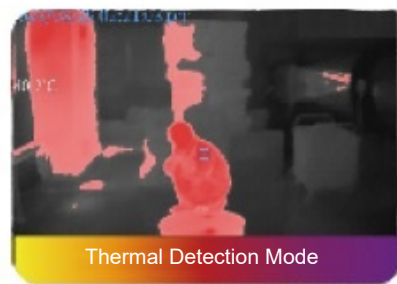
It can break through the limitations of harsh environments such as high temperature, high humidity, and heavy smoke in fire scenes, and can work at a high temperature of 260 for up to 5 minutes. The soft plastic part (body shell) is silicone rubber with excellent heat resistance, thermal oxidation resistance, and mechanical properties. The Hard plastic part (photo button) is a PPSU with excellent high-temperature resistance, chemical corrosion resistance, wear resistance, and other characteristics. Thermal protection glass to isolate heat transfer and avoid high temperature environment on the screen



The STEK FTC-801 series is designed for harsh firefighting conditions with excellent 2-meter drop performance; IP67 waterproof and function fully for up to 5min at 260°C.

Multiple Image Modes for Different Scenes

By simulating and analyzing the application requirements in various fire scenes, it is convenient for users to switch scene modes at any time based on the actual situation, helping firefighters quickly identify the surrounding environment to ensure the accurate location of the fire and trapped people



STEK FTC-801 Firefighter Thermal Camera



Technical Specifications For STEK FTC-801

Infrared Imaging and optics Specifications	
Detector type	VOx, 7.5 to 14μm
Infrared resolution	640×480@12μm
NETD	≤45 mK
Frame rate	30 Hz / 9 Hz
Focal length	9 mm
Field of view	50°×37°
IFOV	1.25mrad
Min. object distance	0.5m
D:S	800:1
Focusing mode	Focus-free
Digital zoom	2x/ 4x/ 8x
Shot recognition	Auto
Measurement & Analysis Specifications	
Measurement range	Support auto-switching: -20°C to 150°C, 0°C to 650°C, Optional 500°C to 2000°C (Aperture is required)
Measurement accuracy	±2°C or ±2%, whichever is greater
Analyzed target	Three spots: Center, Maximum temperature, Minimum temperature; Three Fixed Areas: Small, Medium, Large (Alternative)
Tracking / Alarm	Full screen maximum and minimum temperature tracking; The maximum and minimum temperature tracking of analyzed target; full screen temperature threshold alarm (Vibration, Screen flicker, Buzzer)
Parameter settings	Emissivity, reflected temperature, target distance, humidity, atmospheric transmittance
Others	OTA update
Display Specifications	
Display screen	4.3" LCD, 800×480 Pixel
Image mode	6 Modes: Basic fire fighting, Black and white, Fire scene, Search and rescue, Thermal detection, Standard
Image adjustment	Automatic
Color palettes	Black Hot, White Hot, Iron Red, Arctic, Hot Iron, Rainbow 1, Fulgurite, Tint (Alternative palettes are supported only in Standard mode)
Functions	
Recording function	Photo and Video
Storage and transmission	
Storage media	Local storage (128 GB)
Image storage	JPG with temp info
Video storage	MP4 format (without temp info); Irgd (with temp info), up to 20 Hz (optional) for temperature analysis
External interface	Type-C, Micro HDMI, UNC ¼"-20 (Tripod mounting)
WIFI	Yes, it can be connected to the mobile terminal for image and real-time video transmission
Power Specifications	
Battery type	Lithium-ion rechargeable battery
Operating time	≥4 hours
Charging mode	The device can be charged through desktop charger after shutdown.
Charging time	90% of full charge in 2.5 hours
Environment & Engineering Specifications	
Working temperature	General Working temperature range: -10°C to +50°C; Specific Working temperature ranges: 80°C: 30 minutes, 120°C: 10 minutes, 260°C: 5 minutes
Storage temperature	-40°C to 85°C
IP rating	IP67
Drop	2m drop test
Certification	CE, FCC, ROHS, UL, UN38.3, MSDS, NFFE
Physical parameters	
Hardware	WIFI, Speaker
Weight	≤1.3kg (with battery)
Size	296×61×76.5 mm
Software kit	PC: ThermoTools; Mobile: Thermography (iOS/Android)
Standard	A device (with lens), Lens cover, Lithium-ion battery (3 pcs), Desktop charger, Power adapter, Adapter plug (for China, US, UK, Australia and Europe), TYPE-C USB cable, Micro HDMI cable, Wrist strap, Shoulder strap, Safety box, Packaging list, Quick Start Guide, Data download card (analysis software & user manual), Certificate of approval, Factory certificate
Options	Battery, Tripod