HF-VT410
Thermal Fire Detection Camera

Thermal fire detection (hereinafter referred to as "the camera") is a fire detection device that uses the focal plane temperature measurement technology as the main means of fire detection, identifies the abnormal temperature, flame and other characteristics of objects in the detected area and sends out early warning and alarm, which can realize online management and visual review. It is widely used in hospitals, schools (laboratories, libraries, warehouses, archives), museums, banks, factories, substations, petroleum and petrochemical (gas stations) and other key units with fire protection and security needs.

- New fusion smart camera, which can sense the temperature for alarm and can be rechecked via video.
- High sensitivity, safety and reliability.
- Support the dual light fusion image mode, and the high resolution of visible light can reach 2560 × 1440@25 fps; Max. effective resolution of thermal imaging is 1280 × 720 and encoding resolution of that is 1280 × 720.
- Low bit rate, low delay, ROI enhancement coding, SVC adaptive coding.
- Micro SD/SDHC/SDXC card (128 G) local storage.
- Support function of backlight compensation and automatic electronic shutter, adapt to different monitoring environments.
- Support the main code stream, sub code stream and mobile phone monitoring.
- Support flame detection and abnormal temperature detection.
- 3D digital noise reduction and Wide Dynamic Range(WDR) with up to 120 dB.
- Equip with local alarm indicators.
- Support PoE power supply, 10 M/100 M adaptive network port, IP66 waterproof and dustproof.
- Support 2 ways alarm input, 2 ways alarm output, 1 way audio input/output, 1 way RS-485.
- Link with alarm picture and video during alarm.
- Support access to Hik-Connect.
- Support NTP server testing, HTTPS and other security authentication, and support certificate creation.

▪ **Specification**

Model		HF-VT410
Camera	Max. Image Size	2560 × 1440
	Sensor Type	1/2.7" Progressive Scan CMOS
	Main Stream	25 fps (2560 × 1440, 1920 × 1080, 1600×1200, 1280 × 720)
	Sub Stream	25 fps (704 × 576, 640 × 480, 352 × 288)
	Min. Illumination	Color: 0.015 Lux@ (F1.6, AGC ON)
	Lens	4 mm, F1.6
	Image Settings	Saturation, brightness, contrast, sharpness, AGC and white balance can be adjusted through the client or browser.
	WDR	120 dB
	Shutter	1/25 s to 1/100,000 s
	Day/Night Switch	Full Color
	Image Enhancement	Backlight compensation, 3D digital noise reduction, gray scale range adjustment
	Main Stream Video Compression Standard	H.265,H.264
	Sub Stream Compression Standard	H.265,H.264
	Video Bitrate	256 Kbps to 8 Mbps
	Intelligent Alarm	Intrusion detection, line crossing detection
	Protocol	TCP/IP, HTTP, HTTPS, DHCP, DNS, DDNS, RTP, RTSP, RTCP, NTP, UDP
	Interface Protocol	PROFILE S, PROFILE G, ISAPI, GB28181
	General	Reset, anti flicker, heartbeat, image, password protection, video occlusion, IP address filtering
	Storage	Micro SD/SDHC/SDXC card (128 G) disconnection local storage
	Exception Detection	Motion Detection, video tampering alarm, network cable disconnection, IP address conflict, invalid access, full memory, memory error
	WEB Configuration	Support web preview, configuration and parameter import/export
	Farthest Light Supplement Distance	30 m
	Accessory Type	Wall mounted support, pendent support, universal joint
	FoV	Horizontal: 84°, Vertical: 43°
Detector	Sensor Type	Vanadium Oxide (VOx) Microbolometer
	Max. Resolution	Max. effective resolution: 160 × 120; Encoding resolution: 1280 × 720
	Pixel Size	17 μm
	Response Waveband	8 μm to 14 μm
	Focal Length of Thermal	3 mm

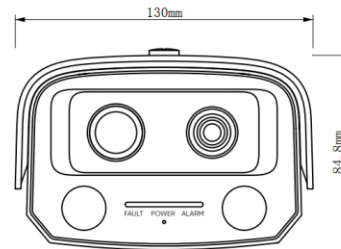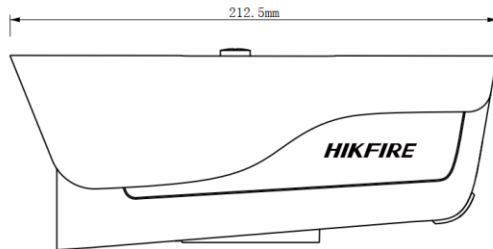|	Imaging Lens	
	Measurement Range	0 °C to 400 °C
	Temperature Sensing Mode	Support non-contact temperature sensing
	High Temperature Alarm	Yes
	Alarm Indicator Light	Red: Alarm Green: Normal Yellow: Fault
	Palette Mode	Support 15 modes including white hot, black hot, fusion 1, rainbow, fusion 2, iron red 1, iron red 2, etc.
	Temperature Exception Detection	Support
	Thermography Precision	Max (± 2 °C, ± 2 %)
	Noise Equivalent Temperature Difference (NETD)	≤ 50 mK (@25 °C,F#1.0)
Function	Remote Silence	Yes
Interface	Alarm Interface	2 way alarm input (Alarm in), 2 way alarm output (Alarm out, support DC 30 V/2 or AC 125 V/0.5 A)
	Audio Interface	1 way audio input (Line in), 1 way audio output (Line out)
Professional Intelligence (Deep Learning Algorithm)	Flame Detection	Yes
General	Using Environment	Temperature: -20 °C~60 °C, humidity: less than 95% (no condensing)
	Execution Standard	Q/HKD 012-2020
	Ingress Protection	IP66
	Communication Interface	RJ45 10 M/100 M adaptive Ethernet port × 1, support PoE power supply; RS-485 interface × 1
	Mounting Height	Indoor: higher than 2.5 m Outdoor: higher than 3.5 m
	Power Interface Type	3pin industrial terminal, spacing: 3.81
	Power	DC 12 V/1.5 A, PoE: 802.3 at, CLASS 4
	Weight	1.4 kg (without packaging), 1.7 kg (with packaging)
	Dimension (L × W × H)	212.5 mm × 130.0 mm × 84.8 mm

▪ Available Model

HF-VT410(3mm)

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▪ Dimension

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