HIKFIRE

HF-VR344(Ex)
Fire Detection Camera



This point-type infrared flame detector, an integrated visible light point-type infrared flame detector (hereinafter referred to as the "device"), is a composite flame detector that integrates four-band infrared pyroelectric sensors and visual AI intelligent detection. It identifies changes in flame infrared signals and image characteristics in the detected area, issues early warnings and alarms, and enables networked management and visual verification for fire detection equipment. This product features smoke and fire alarms, fire point location identification, video verification, and other functions for the detected area, enabling early fire warnings, alarms, and remote visual verification of fire scenes. It is widely used in key units with fire protection and security needs, such as hospitals, schools (laboratories, libraries, warehouses, archives), museums, Taoist temples, banks (ATM rooms, equipment rooms), safety production workshops, indoor substations, new energy facilities, petroleum and petrochemical industries (gas stations), etc.

- The camera advanced multi-band infrared pyroelectric sensors and is based on time-domain, frequency, and neural network algorithms. It can accurately detect open flame combustion of hydrocarbons/non- hydrocarbons such as alcohol, n-heptane, and gasoline, while maintaining strong anti-false alarm capabilities and stable, reliable operation.
- It innovatively uses a dynamic gain signal acquisition solution, accommodating flame detection at both near and far distances. For a 0.1 m² fire pan (fuel: n-heptane), it achieves a detection range of over 50m and a detection angle of no less than 110 degrees.
- It features comprehensive circuit self-diagnosis function, supporting sensor self-test and lens contamination detection.
- Posture anomaly detection supports anti-movement alarm function.
- The housing is made of high-strength die-cast aluminum with an IP68 protection rating. It is suitable for use in both general civilian sites and industrial hazardous sites, featuring excellent explosion-proof performance and strong resistance to dust, moisture, and corrosion.
- Support low bitrate, low latency, ROI (Region of Interest) enhanced encoding, and SVC (Scalable Video Coding) adaptive encoding technology.
- Support micro SD/SDHC/SDXC card (512 GB) local storage.
- Support 3D digital noise reduction and 120 dB ultra-wide dynamic range.
- Support PoE power supply, 10 M/100 M adaptive network port.
- Support linking alarm pictures and alarm videos when an alarm is triggered.
- Support EZVIZ cloud platform access.
- Support NTP server testing, supports security authentication such as HTTPS, and supports certificate creation.

▪ Specification

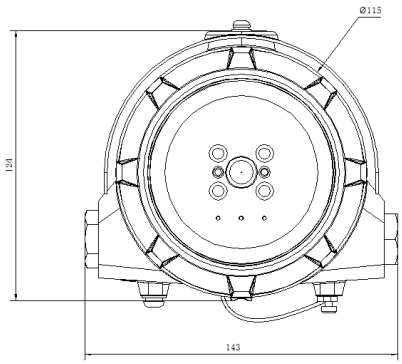
Camera	
Max. Image Size	2560 × 1440
Sensor Type	Visible Light:： 1/2.9" Progressive Scan CMOS Flame Sensor：4.5 um main detection+ 2.7 um main detection+ 5.0 um reference + 3.8 um reference
Main Stream	25 fps (2560 × 1440, 1920 × 1080, 1280 × 720)
Sub Stream	25 fps (704 × 576, 640 × 480, 352 × 288)
Min. Illumination	Color： 0.015 Lux@(F1.6, AGC ON)
Lens	4 mm， F1.6
Image Settings	Saturation, Brightness, Contrast, Sharpness, AGC, White Balance adjustable via client or browser
Shutter	1/25 ~ 1/100,000 s
WDR	120 dB
Image Enhancement	Backlight Compensation, 3D DNR, Grayscale Range Adjustment
Sub Stream Compression Standard	H.265,H.264,null
Main Stream Video Compression Standard	H.265,H.264
Video Bitrate	256 Kbps ~ 8 Mbps
Intelligent Alarm	Fire Detection, Smoke Alarm, Indoor Access Blocked Detection, On/Off Duty Detection, Detection of Dangerous Goods in Elevator, Dangerous Behavior Detection, Fire Extinguisher Detection
Protocol	TCP/IP, HTTP, HTTPS, DHCP, DNS, DDNS, RTP, RTSP, RTCP, NTP, UDP
Interface Protocol	Open Network Video Interface (PROFILES, PROFILEG), ISAPI
WEB Configuration	Support web preview, configuration, parameter import/ export
General	One-Key Reset, Anti-flicker, Heartbeat, Mirror, Password Protection, Video Masking, IP Address Filtering
Storage	Supports microSD/SDHC/SDXC card (512G) local storage when network is disconnected
Exception Detection	Motion Detection, Tampering Alarm, Network Cable Disconnection, IP Address Conflict, Illegal Access,Storage Full, Storage Error
Accessory Type	Wall Mount Bracket
Detector	
Image Sensor	Infrared Pyroelectric Sensor
Fire and Smoke Detection	Yes
Detection Range	Within 50 meters (Sensitivity Level 5, 0.1m 2 fire pan)
Alarm Indicator Light	Red: Alarm Green: Normal Yellow: Fault
FoV	≤100°
Function	
Alarm Threshold	5 adjustable sensitivity levels (1~5, factory default level 3)

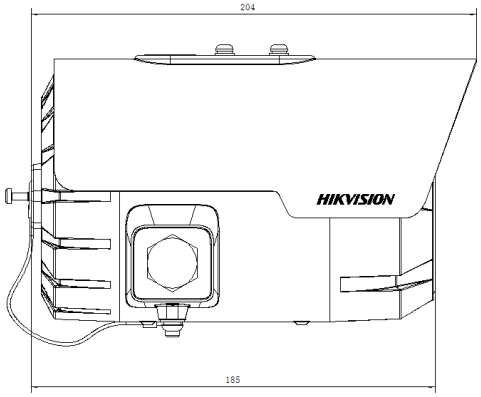
Interface	
Alarm Interface	2 alarm outputs (max. support DC30V/ 2A or AC125V/ 0.5A) can be configured separately as: alarm state、 fault state.
General	
Using Environment	-30°C~60°C, humidity less than 95% (non-condensing)
Ingress Protection	IP66, IP68 (2m, 2h)
Communication Interface	1 RJ45 10M/100M adaptive Ethernet port, supports PoE power supply; 1 RS- 485 interface
Mounting Height	Indoor: Higher than 2.5 m Outdoor: Higher than 3.5 m
Power Interface Type	1. Industrial terminal, 5.08 pitch 2. PoE: 802.3 at, CLASS 0
Shell Material	ADC12
Power	DC 20V ~ DC 36V，24W MAX；PoE: 802.3at，CLASS 4（Product does not include power adapter, and needs to be configured separately）
Product Implementation Standard	Q/HKD 035 - 2022
Interface	One 4~20mA output interface (available when powered by DC 24V)
Power Consumption	6W
Weight	Net weight: 3 kg, with packaging/bracket: 4.2 kg
Dimension (L × W × H)	Detector: Φ115 mm*204 mm Bracket: 168 mm*100 mm*100 mm
Installation	Product includes bracket Fastened to the flame detector bracket via M16 bolts/screws

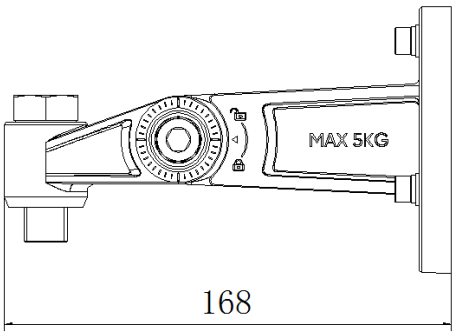
▪ Available Model

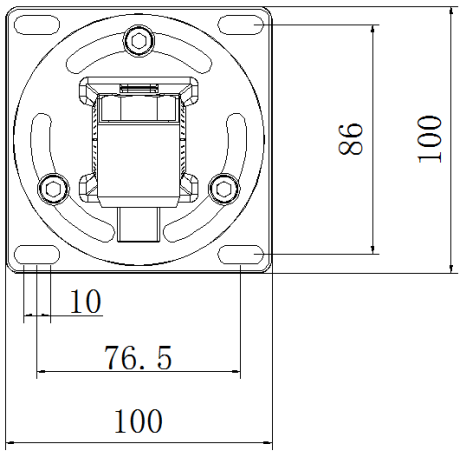
HF-VR344(4mm)(Ex)

▪Dimension


Ø115
124
143


204
HIKVISION
185


MAX 5KG
168


86
100
10
76. 5
100

HIKFIRE

Safer Place Better Life

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