

HF-VT342 Fire Detection Camera



It is a composite high-performance flame detector that integrates thermal imaging sensor and visual AI intelligent detection. It identifies changes in infrared signals and image characteristics of flames in the monitored area, issues warnings and alarms, and supports networked management and visual verification. This product features smoke and fire alarm functions, identification of fire point locations, and video verification for the monitored area, enabling early fire warning 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 monasteries, banks (ATM rooms, equipment rooms), production safety workshops, indoor substations, new energy facilities, and oil and petrochemical sites (gas stations)

- New fusion smart camera, which can sense the temperature for alarm and can be rechecked via video
- 400W Fixed Focus Intelligent Camera
- Equipped with high-brightness four-color indicator lights to display the running, fault and alarm status
- Supports flame detection, coverage: 30 meters (burning object: n-heptane, 0.1m² fire plate)
- Supports high-temperature and temperature-rise exception detection
- Supports local alarm indicator light, high-decibel alarm through an internal speaker, and remote muting
- 1 internal speaker, 1 internal microphone, supports bidirectional voice intercom
- OSD alarm event overlay support
- Supports access to Hik-Protect or Hik-Connect APP
- Supports IR fill light, with maximum range up to 30 meters
- Supports DC 12~24V (±15%) or PoE power supply, with simple wiring
- Supports 1 channel of alarm input and 3 channels of alarm output
- IP67 dust and water resistant

▪ Specification

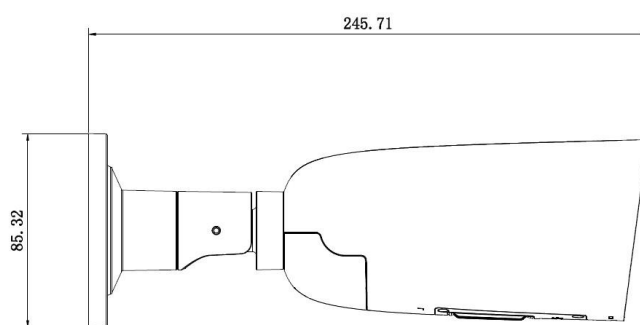
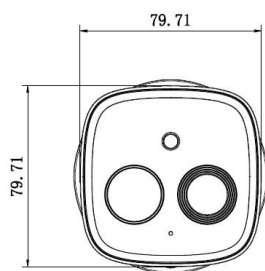
Camera	
Sensor Type	1/2.9" Progressive Scan CMOS
Main Stream	30 fps (2560*1440 , 1920×1080, 1280×720)
Max. Resolution	2560*1440
Sub Stream	30 fps (704×576, 640×480 , 352×288)30
Min. Illumination	Color : 0.01 Lux @ (F1.6 , AGC ON)
Lens	Horizontal: 78°, Vertical: 40°, Diagonal: 93°
Image Settings	Saturation, brightness, contrast, sharpness, AGC and white balance can be adjusted through the client or browser.
WDR	Digital WDR
Shutter	1/25 ~ 1/100,000 s
Image Enhancement	Backlight compensation, 3D digital noise reduction, Grayscale range adjustment
Main Stream Video Compression Standard	Smart265, Smart264, H.265, H.264
Sub Stream Compression Standard	Smart265, Smart264, H.265, H.264
Video Bitrate	256Kbps ~ 8192Kbps
Intelligent Alarm	Smoke alarm, Fire alarm
Protocol	TCP/IP, HTTP, HTTPS, DHCP, DNS, RTP, RTSP, RTCP, NTP, IPv4, UDP
Interface Protocol	ONVIF (PROFILE S, PROFILE G), ISAPI , EZVIZ , ISUP , SDK, GB28181
General	One-click restoration , Anti flicker, Heartbeat, Mirroring , Password protection, Video occlusion , IP address filtering
Storage	Micro SD/SDHC/SDXC card (Maximum support 512 GB)
Exception Detection	Motion detection, Obstruction alarm, Hard disk full, Hard disk error, Network disconnection, IP address conflict, Illegal access, Peripheral failure
WEB Configuration	Support web preview, configuration and parameter import/export
IR Range	IR : 30m
Detector	
Image Sensor	Vanadium Oxide (VOx) Microbolometer
Pixel Size	120×90
Response Waveband	8~14 μm
Focal Length of Thermal Imaging Lens	1.2 mm
Thermal Imaging Field of View	90°×68°
Palette Mode	Support 15 modes including white hot, black hot, fusion 1, rainbow, fusion 2, iron red 1, iron red 2, etc.
Fire and Smoke Detection	Yes
Temperature Exception Detection	Yes
Temperature Measurement Range	-20 °C~400 °C

Thermography Precision	±8 °C or ±8% of the reading (take the maximum value) (within a distance of 0.3 to 1.5 meters from the device)
Noise Equivalent Temperature Difference (NETD)	≤50 mK(@25 °C,F1.0)
Temperature Sensing Mode	Support non-contact temperature sensing
High Temperature Alarm	Yes
Interface	
Alarm Interface	1 way alarm input (Alarm in), 3 ways alarm output (Alarm out)
Ethernet Interface	RJ45 10 M/100 M adaptive Ethernet port × 1
Audio Interface	1 way built-in microphone, 1 way built-in speaker
Professional Intelligence (Deep Learning Algorithm)	
Flame Detection	Yes coverage: 30 meters (burning object: n-heptane, 0.1m ² fire plate)
Smoke Detection	Yes
General	
Ingress Protection	IP 67
Mounting Height	Indoor: higher than 2.5 m Outdoor: higher than 3.5 m
Power Interface Type	DC 12V round head power interface
Power	DC 12V ~ DC 24V , 10W MAX; PoE: 802.3af , CLASS 3 (The power adapter is not included; you will need to configure it yourself)
Working Temperature	-20~60°C
Working Humidity	< 95% RH
Dimension (Φ × H)	245.7 mm × 80 mm × 80 mm
Alarm Indicator Light	Red: Alarm Green: Operation indicator light Yellow: Fault Blue: Communication status indicator light
Product Implementation Standard	Q/HKD 054-2024
Power Consumption	Max 10 W
Weight	1.4kg (without packaging)
Installation	Support for hanging and wall mounting

▪ Available Model

HF-VT342(1mm)

▪ Dimension



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