



Non Atex casing shown
Atex/leceX casing upon request



SMART CAMERA - FV-F-17 FOR FIRE DETECTION AND HOT SPOT MONITORING

- Detects and visualize H₂ and methanol flames.
- Detects potential fire even before they occur by monitoring temperature increase.
- Plug and Play ONVIF-S certified camera compatible with third parties VMS (Genetec, Milestone...).

FIRE DETECTION

- Detects up to 10 fires, simultaneously, 1 m² fire up to 2km away, even without smoke, day or night.
- Avoids false alarms by taking into account the random movement of the flames

HOT SPOT MONITORING

- Can detect a fire before it occurs monitoring temperature increase going over a preset temperature threshold
- Possibility to set up multiple ROI with different temperature thresholds for each ROI

ALARMS TYPES

- Alarm video overlay on screen in control room.
- Dry Contacts through VMS or direct from camera

RUGGED DESIGN

Non Atex, Atex zone 2 or zone 1 casing upon customer request

ONVIF CERTIFIED CAMERA

With its embedded algorithm and its ONVIF certification our camera is easy to plug in existing CCTV networks or to include in a new full turnkey solution project.

OPTIONS AVAILABLE

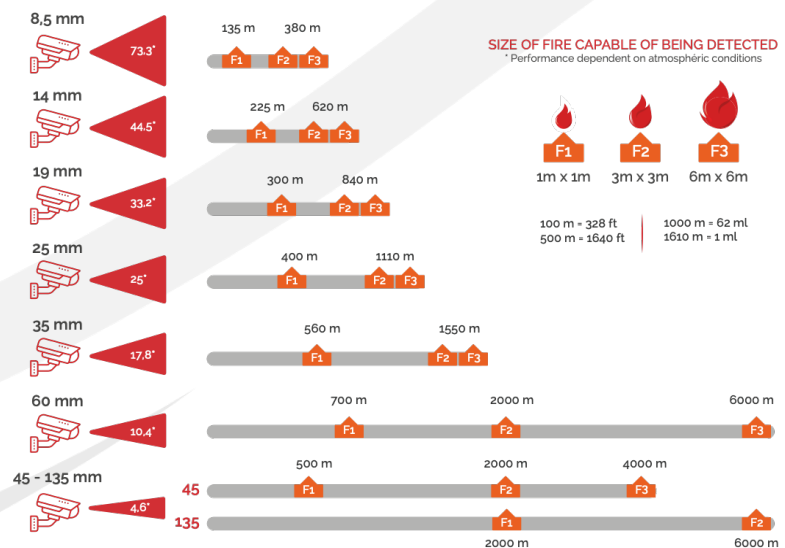
- Embedded 5 G Modem to send text message or email to on-call personal, directly from the camera, in case of alarm
- Video streaming on Intranet or Internet for remote access
- Anti intrusion / virtual fence detection
- solar panel power
- video/alarm wireless transmission

FIRE DETECTION CAMERA FV-F-17

First plug and play Onvif certified IR smart camera with embedded flame and hot spot monitoring algorithms, to provide both safety and security

Fire detection is ideal for facilities with flammable materials and combustible storage areas that are sensitive to fire danger.

With our range of lenses available we can help you monitor wide areas or long distances with a minimum of cameras



* Fire detection or Analytics applications require a very stable mounting platform
Analytics camera mounting guide for detailed information on mounting for this application.
* Ranges may be reduced by environmental variables * Detection Range data assumes a line of sight between fire and camera.

Field of view / detection distance

FUNCTIONALITIES	
APPLICATION	HOT SPOT MONITORING AND FLAME DETECTION
ADDITIONAL APPLICATIONS	ANTI INTRUSION (OPTIONAL) VIRTUAL FENCE (OPTIONAL)
CAMERA TYPE	FIXED FOR 24/7H SITE MONITORING
FLAME DETECTION PERFORMANCE	
FUEL	Can detect flames from any material, including H2 and Methanol
NUMBER OF FIRES DETECTED SIMULTANEOUSLY	Up to 10 fires detected at the same time in the camera field of view
DETECTION DISTANCE	Up to 2 km for 1 m ² fire
HOTSPOT DETECTION PERFORMANCE	
TEMPERATURE THRESHOLD TO BE SET UP	From -20°C up to 250°C Possible multiple ROI with different T° threshold
NUMBER OF HOT SPOTS DETECTED SIMULTANEOUSLY	Unlimited in the camera field of view
DISTANCE	Unlimited as long as hot spot fills 4 pixels
VIDEO TRANSMISSION & RECORDING	
VIDEO OUTPUT	Digital : ONVIF Analog. NTSC/PAL
COMMUNICATION PROTOCOL	ONVIF-S
VIDEO TRANSMISSION	TCP/IP (optional): Analog & IP Video/Control (H.264), through fiber optic or wireless (optional)
CONTROL FEATURES	Digital Zoom
VIDEO STORAGE CAPACITY	Depending on hard drive installed on server, as per customer requirement
ALARMS	
AUTOMATIC ALARM	Yes
FIRE DETECTION	Flame Detection Alarms
RISK OF FIRE (HEAT) DETECTION	High Risk of Fire Alarms (Temp. Threshold)
ALARMS	- Video overlay on screen in control room - Dry contacts output directly from the camera - Modbus to DCS through VMS software
OPTIONAL ALARMS	- Text message or email sent to specified address - Video streaming on Intranet or Internet for remote access - Real time access to video stream from a cel phone or laptop

ELECTRO-MECHANICAL CHARACTERISTICS	
UNIT DIMENSIONS (For non Atex version. Others on demand)	493 mm (L) x 175 mm (W) x 168 mm (H)
UNIT WEIGHT	- <5 kg - for non Atex - 17kg for Atex version Depending on optics
CERTIFICATIONS	CE, FCC ATEX/leceX certification upon request
IMAGING PERFORMANCE	
LENS / FIELD OF VIEW	NTSC / PAL 8 LENSES AVAILABLE 8.5mm / 73°, 14mm / 44° 19mm / 33°, 35mm / 18° 50mm / 12.4°, 60mm / 10.4° 75mm / 8.3°, 100mm / 6.2°
COLOR VIDEO CAMERA (IN ADDITION TO IR)	optional
VIDEO OUTPUT	Digital : ONVIF-S Analog. NTSC/PAL
DISPLAY UNIT	Video screen in control room
DETECTOR	
DETECTOR	Uncooled Microbolometer
SPECTRAL RANGE	7.5 - 14 µm
THERMAL SENSITIVITY (NETD)	35 mK @ +25 °C
EFFECTIVE PIXELS	17 µ: 640 x 480 pixels
POWER INPUT	
POWER INPUT	12-32VDC (PoE available with TCP/IP version)
POWER CONSUMPTION	POE: 9W non POE: 6W
ENVIRONMENTAL CONDITIONS	
HAZARD LOCATIONS CERTIFICATIONS	NON ATEX (Standard) ATEX 1 or 2 (Optional)
MAX. OPERATING TEMPERATURE	-40°C to +60° C
ENVIRONMENTAL RATING	IP66; 93% RH Humidity (depending on casing)



◀ Figure 1

Long range detection.



Figure 2 ▶

Wide field of view detection.

«We see what you can't see»



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Do not hesitate to contact your local representative: