



Non Atex casing
Photo non contractual



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

Detects potential fire even before they occur by monitoring equipment for temperature increase.

Detects H₂ and methanol flames.

Easy to install, ONVIF camera.

FIRE DETECTION CAMERA FV-F-17

Our line of fire detection cameras is the world's first smart camera with embedded flame and risk of fire detection 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

- Detects up to 5 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

HIGH FIRE RISK DETECTION

- Can detect a fire before it occurs looking for :
 - sudden temperature increase in a certain amount of time
 - temperature going over a preset temperature threshold

3 ALARMS TYPES

- Alarm video overlay on screen in control room.
- Dry Contacts
- Modbus to DCS from Video Management software.

RUGGED DESIGN

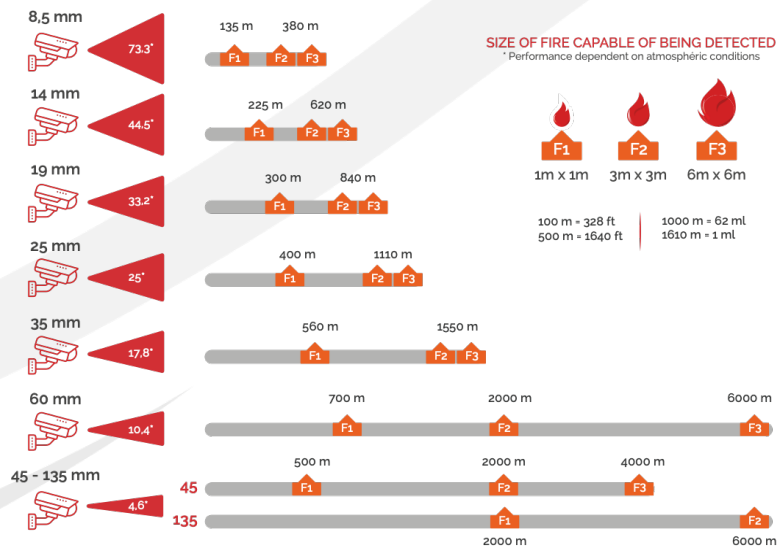
Upon customer request, camera can be supplied for Non Atex area, Atex zone 1 or zone 2 areas.

ONVIF CAMERA

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 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 AND FLAME MONITORING
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 H ₂ and Methanol
NUMBER OF FIRES DETECTED SIMULTANEOUSLY	Up to 5 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
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
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

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 (For non Atex version. Other on demand)	- <5 kg - Depending on optics
CERTIFICATIONS	CE, FCC

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 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	< 12w

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



◀ 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: