



OGTECH
Oil & Gas Technologies



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

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

Detects H₂ and methanol flames.

Easy to install, IP camera.

FIRE DETECTION

Detects up to 5 fires, simultaneously, 1 m² fire up to 2km away, even without smoke, day or night.

HIGH FIRE RISK DETECTION

- Can detect a fire before it occurs looking for abnormal temperature increase.
- Set up temperature threshold to monitors equipment for thermal failure.

3 ALARMS TYPES

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

RUGGED DESIGN

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

IP CAMERA

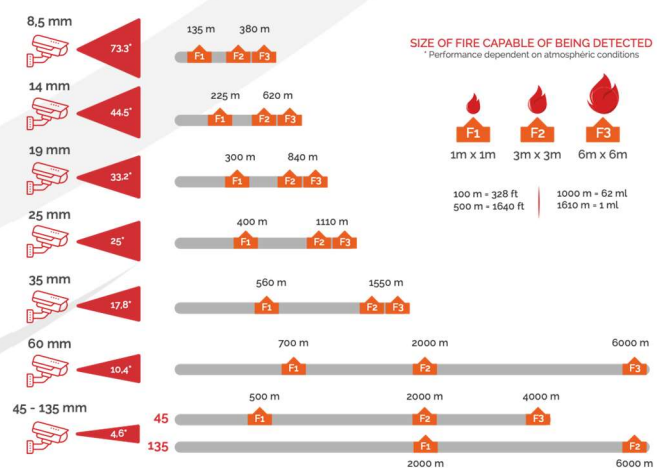
Easy to install as part of an existing CCTV network or as part of a new full turnkey system.

OPTIONAL ALARMS

- Anti-intrusion
- Virtual fence

FIRE DETECTION CAMERA FV-F-17

Our line of fire detection cameras is the world's first camera system that can provide both safety and security in one camera with its embedded flame and fire risk detection algorithms. Fire detection is ideal for facilities with flammable materials and combustible storage areas that are sensitive to fire danger.



* 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	RS-170 (30Hz) / CCIR (25Hz), 1.0V p-p, 75ohm
COMMUNICATION PROTOCOL	Pelco-D, SDK available
VIDEO TRANSMISSION	TCP/IP (optional): Analog & IP Video/Control (H.264, MJPEG Encoding), 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)	202mm (L) x 135mm (W) x 169mm (H) 7.95" (L) x 5.32" (W) x 6.65" (H)
UNIT WEIGHT (For non Atex version. Other on demand)	< 315 kg (6.94 lbs) – 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	RS-170 (30Hz) / CCIR (25Hz), 1.0V p-p, 75ohm
DISPLAY UNIT	Video screen in control room
DETECTOR	
DETECTOR	Uncooled Microbolometer
SPECTRAL RANGE	7.5 - 14 µm
THERMAL SENSITIVITY (NETD)	20 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	<4w Typical / 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: