



VANDAL
RESISTANT



IP60
INDOOR USE



15m
FIRE DETECTION



90°
horizontal
ULTRA WIDE 2.8 LENS



FLEX
CORE
by CIQURIX

FC-M-102

datasheet version 1.0
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FCAM M

The FCAM M is the latest addition to our range of flame detection cameras, designed to work with both our CORE and FLEX systems.

It has punchdown cable termination and a cable entry gland suitable for either standard or "FP" fire resistant Cat 6 cable. When used on the FLEX system it can be powered by PoE, and on the CORE system it is powered directly from a CORE hub.

When used with the MHBB / EHBB CORE hubs and wired in fire-rated cable, the FC-M is designed to meet the requirements of BS5839-1:2017 and can be used as primary or sole means of detection.

Specification

Viewing angle:	90°(h) 50°(v)
Detection distance:	1 - 15m
Power:	9-36Vdc 4W (supplied from CORE Hub) or via PoE 802.3af (FLEX systems only)
Temperature:	-10°C to +70°C
Detection time:	2 seconds (typical)
Environmental:	IP60 96%RH
Dimensions:	150mm (l) x 100mm (w) x 70mm (d)
Weight:	3.4 Kg
Alarm output:	Programmable fire and fault contacts located on CORE Main Hub or I/O Module
Video output:	RTSP H.264 1280x720@30fps (Main) 320x240@5fps (Sub)
Minimum light:	0 lux (20m IR provided for visual feed). Fire detection operates in 0 lux to max specified distance.



E&OE. Ciqurix operates a program of continuous product development. Specifications may be subject to change without notice. Please check with Ciqurix for the latest information.

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SensLens Technology

The FCam M uses visual analytics onboard the camera to continually analyse the live video feed seeking flame. The analytics look at the colour, brightness, shape, flicker, movement and edge behaviour of potential flame, and compares this with previous images to spot developing fire.

When a flame signature is detected by the visual analytics, the FCam M switches on a high sensitivity flame sensor to confirm the physical presence of flame. If flame is confirmed then an alarm is notified, but if no flame is present then the camera continues to monitor the video stream.

Only switching on the flame sensor when a potential flame is detected allows it to be dramatically more sensitive, more accurate, and thus much quicker to respond.

Flame detection with the FCam M is almost instant.



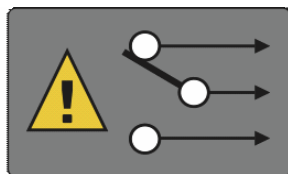
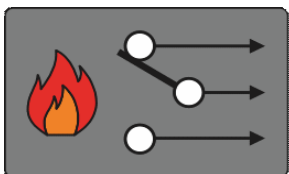
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Alarm Output

The CORE Main Hub has a global fail-safe fault output and 4 programmable relay outputs. Each CORE and FLEX Input/Output (I/O) Module has a further 4 programmable relay outputs. Every relay is volt-free and changeover, and each can be linked to one camera, all cameras, or a group of cameras.

The FCam system is designed so the outputs can be easily connected to anything - fire alarm system, suppression, alarm sounder, remote communicator, etc. For example: when connecting the FCam to a fire alarm system you can program it to have all cameras on the same fire zone, or two cameras per zone, or a zone for each camera, simply by using more I/O Modules.



Video Feed

Each FCam camera will appear to a Network Video Recorder (NVR) or Video Management System (VMS) as a standard IP cctv camera in RTSP format. This is almost universally compatible, and will work with every major manufacturer of video equipment. The FCam provides a full-res main stream at 30fps and a low-res sub stream at 5fps. Because all the analytics are done onboard the camera, the alarm alert information is burned into the stream at source.

There is space in the CORE Hub and FLEX rack for an NVR to be added, and/or an NVR or VMS can be connected remotely via the FCam network.

