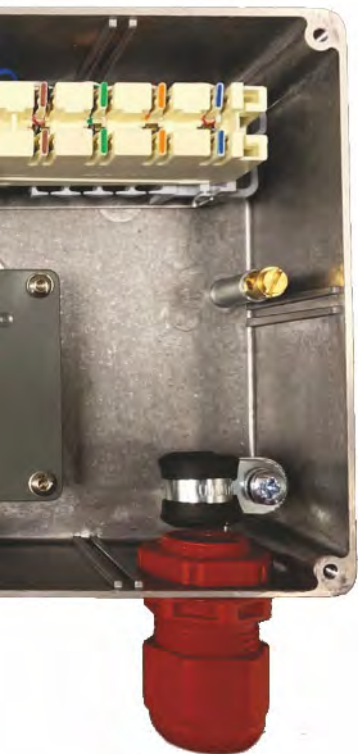


## FCam ExFP ATEX Flame Detection Camera – 6mm

FCam ExFP is the CORE version of the FCam EX flame detection camera, and uses the Ciqurix QLS protocol. It has an integral cable tail and connection box with cable entry gland and punchdown termination, designed specifically to facilitate simple installation using fire-resistant data cabling. It is powered via the QLS data cable by a battery-backed power supply in the CORE Control Hub or Extension Hub.



### FC-EXFP-106



This data sheet is for the FC-EXFP-106 which has a 6mm 46° 1-180m lens. Alternatively for the 4mm 65° 1-80m lens see FC-EXFP-104.

If certification for explosive atmospheres is not required then the FCam XFP or XCR ranges may be more suitable; please contact your supplier for more information.

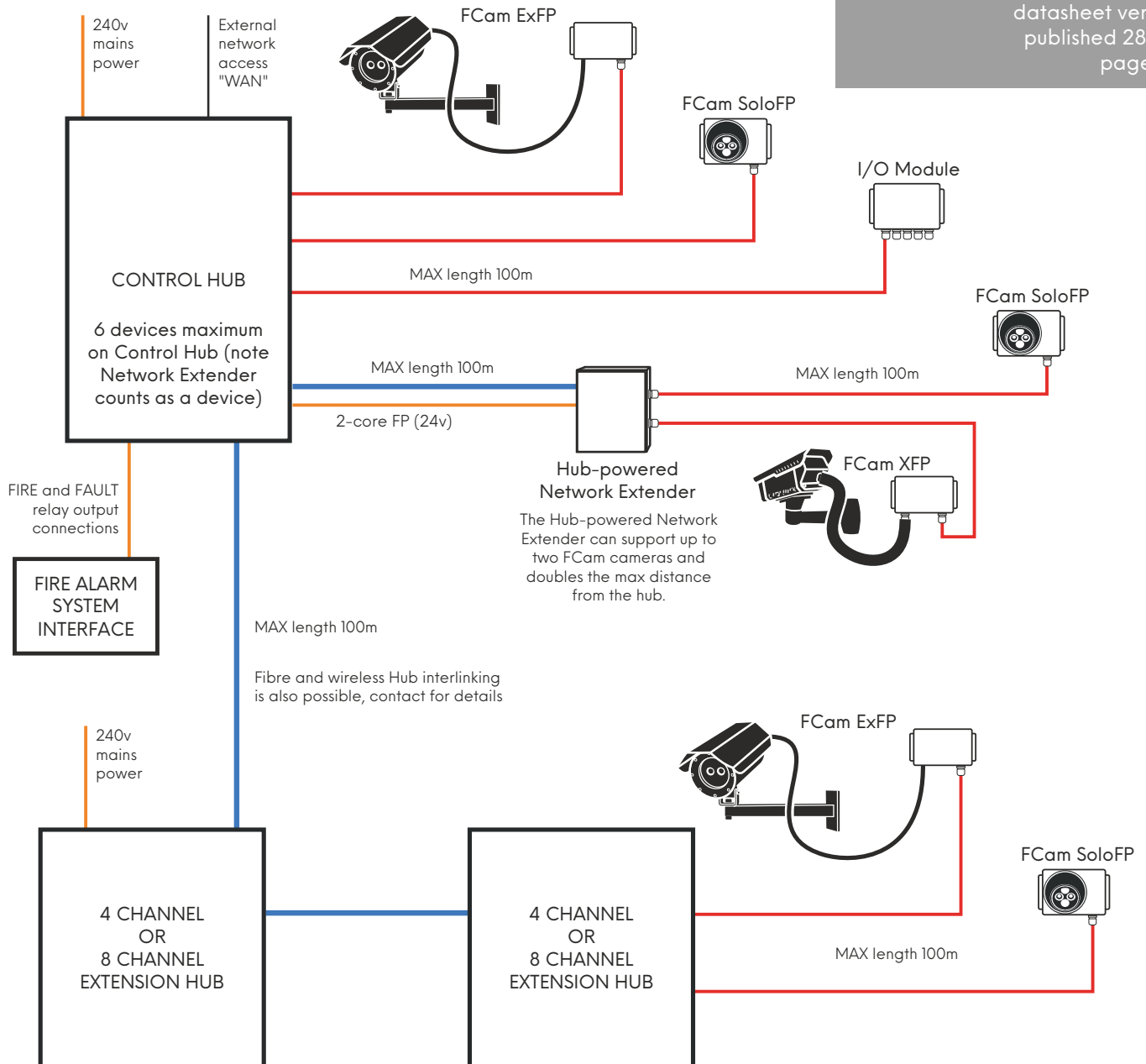
When used with a CORE hub and wired in suitable fire-resistant cable, the FC-EXFP-106 is designed to enable the installer to meet the requirements of BS5839-1:2017 and can be used as primary or sole means of fire detection.

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# Layout

This is an indicative layout for guidance only. Every site is different; please contact Ciqurix for advice.

- Hublink - fire rated cat6 - data
- QLS - fire rated cat5e or cat6 - data/power
- Ancillary connections - standard "FP" 2 core



4 or 8 additional devices maximum per Ext Hub (depending on model).  
Hubs can be connected directly to Control Hub or daisy-chained.

Each QLS field device is connected directly to a Hub using a fire rated 4-pair cat5e or cat6 data cable. Hubs are linked together using fire rated 4-pair cat6 data cable (fibre-optic and wireless linking is also possible). Hub-powered Network Extenders also require a fire rated 2-core dc power cable from a Hub.

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# Dual Lens Technology



All Ciqurix FCam cameras use Dual Lens Technology to detect flame at an early stage.

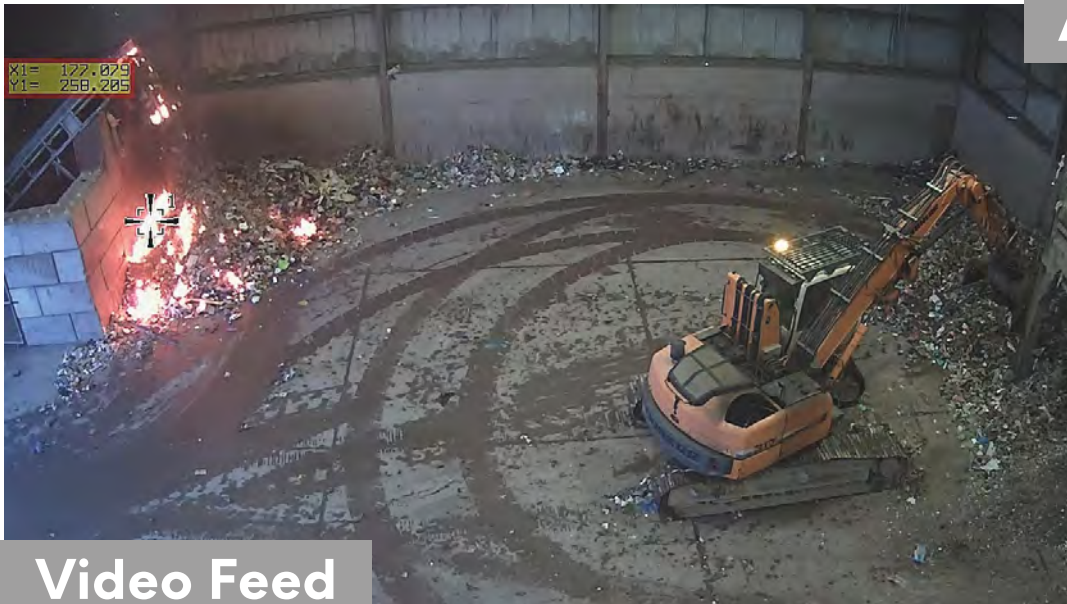
Visual analytics onboard the camera continually analyse the live video feed seeking flame. The analytics look at the colour, brightness, shape, flicker, movement and edge behaviour of potential flame, and compares this with previous images to spot developing fire.

At the same time, a separate high definition near-infrared video sensor provides an infrared video stream to a separate analytics engine, also onboard the camera. This operates in a specific spectrum associated with flame, and again is looking for brightness, shape, flicker, movement and edge behaviour over time.

Only when an incident looks like fire visually *and* looks like fire in the infrared spectrum does the FCam signal an alarm condition. This allows the FCam to be extremely sensitive to fire and yet reject almost all false alarms.

The FCam knows what flame looks like in the dark, through smoke, and in fog - and can intelligently place more emphasis on the infrared feed in these conditions.

## Alarm Output



- 4 x alarm output relays plus a global fault relay built-in to Control Hub
- Unlimited I/O Modules per system, each with 4 relay outputs
- Up to 8 alarm zonal areas per camera
- Advanced cause and effect options



## Video Feed

A Network Video Recorder (NVR) can be fitted in the Control Hub, which can be remotely viewed across the client's network. We can also provide dedicated hardware for remote viewing using the Ciqurix remote video hub.

Each FCam camera will appear to the NVR as an IP cctv camera using RTSP format. This is almost universally compatible, and should work with most manufacturers. The FCam provides a full-res main stream at 30fps and a low-res sub stream at 5fps. Because all the analytics are onboard the camera, the alarm crosshairs and location information are burned into the stream at source.

The FCam system is designed so the outputs can be easily connected to anything - fire alarm system, suppression, alarm sounder, remote communicator, etc.

The Control Hub has a global fault output and 4 alarm relay outputs. Each CORE Input/Output Module has a further 4 relay outputs. Every relay is volt-free changeover and is independently programmable. Each camera can have up to 8 zonal areas drawn in the view from the camera, each of which can each be linked to a different relay. Relays can be set to operate from one or more zones (including across different cameras), a single camera, a group of cameras, or all cameras (global).

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# Explosive Atmosphere Approvals



ATEX  
II 2 G Ex d IIC T6 Gb  
II 2 D Ex tb IIIC T80°C Db IP68



IECEX  
Ex d IIC T6 Gb  
Ex tb IIIC T80°C Db IP68



EAC-Ex  
Ex d IIC T6 Gb  
Ex tb IIIC T80°C Db IP68

FCam ExFP cameras are manufactured in Germany by our specialist partner SAMCON Prozessleittechnik GmbH and certified by the TÜV (German Technical Inspection Authority).

Products located in explosive atmospheres should always be installed by a competent person with a CompEx or equivalent qualification.



FC-EXFP-106



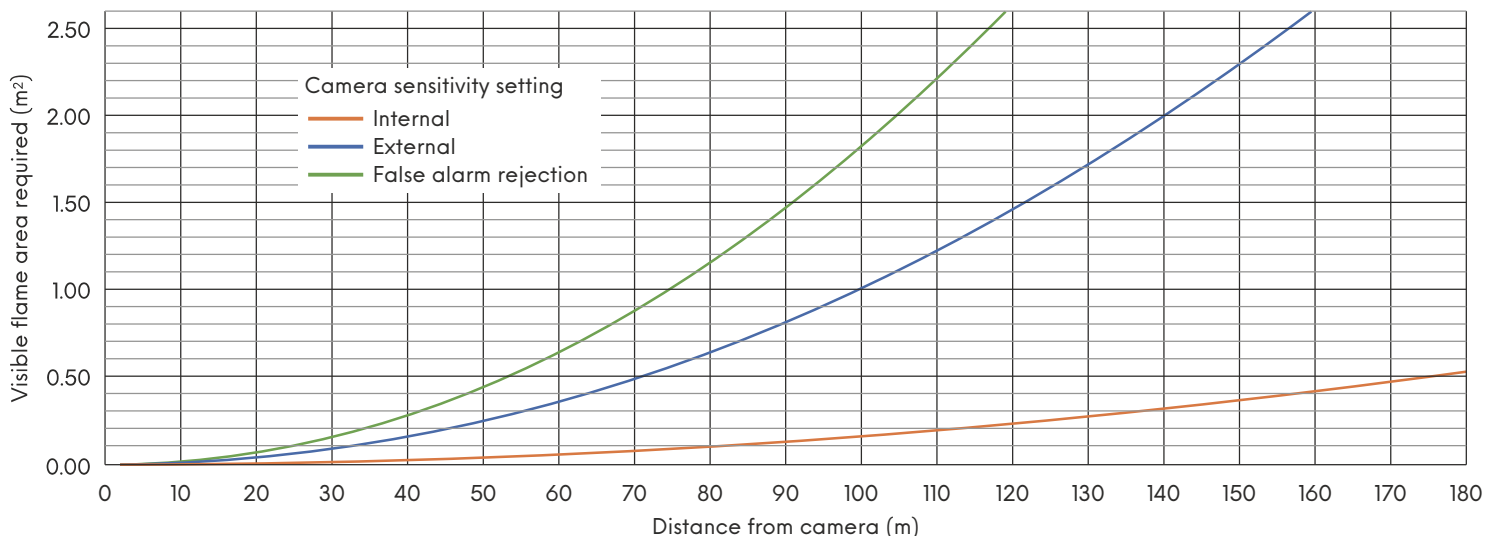
datasheet version 1.2  
published 28-04-23  
page 4 of 4

## Specification

FC-EXFP-106	
<b>Detection distance:</b>	1 - 180m
<b>Viewing angle:</b>	46°(h) 25°(v)
<b>Temperature:</b>	-10°C to +50°C
<b>Power:</b>	9-36Vdc 4W (supplied in QLS connection from CORE Control Hub or Extension Hub)
<b>Cabling requirement:</b>	1 x fire-resistant Cat5e/6 data cable from CORE Control Hub or Ext Hub (carries data & power) Maximum distance from Hub depends on cable spec, typically 80m (Cat5e), 100m (Cat6) - including pre-attached camera cable tail.
<b>Cable tail:</b>	The camera is supplied with a permanently attached cable tail which cannot be altered on site. The default length is 4.5m; this can be extended up to max 25m by request at time of order (part code CW-EX-II, order qty 1 per additional m required). A termination box is supplied for connection to the field wiring; this is not Ex rated and should be placed outside the zoned area.
<b>Dimensions (FCam):</b>	211mm (l) x 113mm (w) x 113mm (h) <b>(Box):</b> 252mm (l) x 183mm (w) x 57mm (d)
<b>Weight:</b>	5.1 Kg
<b>Alarm output:</b>	Programmable fire and fault contacts located on CORE Control Hub or I/O Module
<b>Video format:</b>	RTSP H.264 1280x720@30fps (Main) 320x240@5fps (Sub)

## Sensitivity

Indicative flame size values; real-world sensitivity can be affected by multiple factors



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