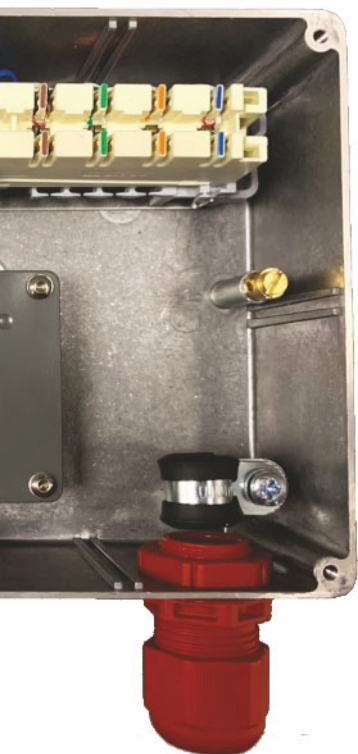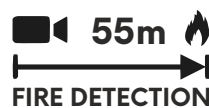# CORE
by CIQURIX

FCAM SOLO FP

The FCam Solo FP is the CORE version of the popular FCam Solo flame detection camera.

Designed to be used with a CORE Hub, it has punchdown cable termination and a cable entry gland suitable for "FP" fire resistant Cat 6 cable. It has onboard regulation to work with the 24v battery-backed power supply provided by a CORE hub.

Each Solo FP camera receives data and power through a single Cat6 cable connected directly to the nearest CORE Hub.

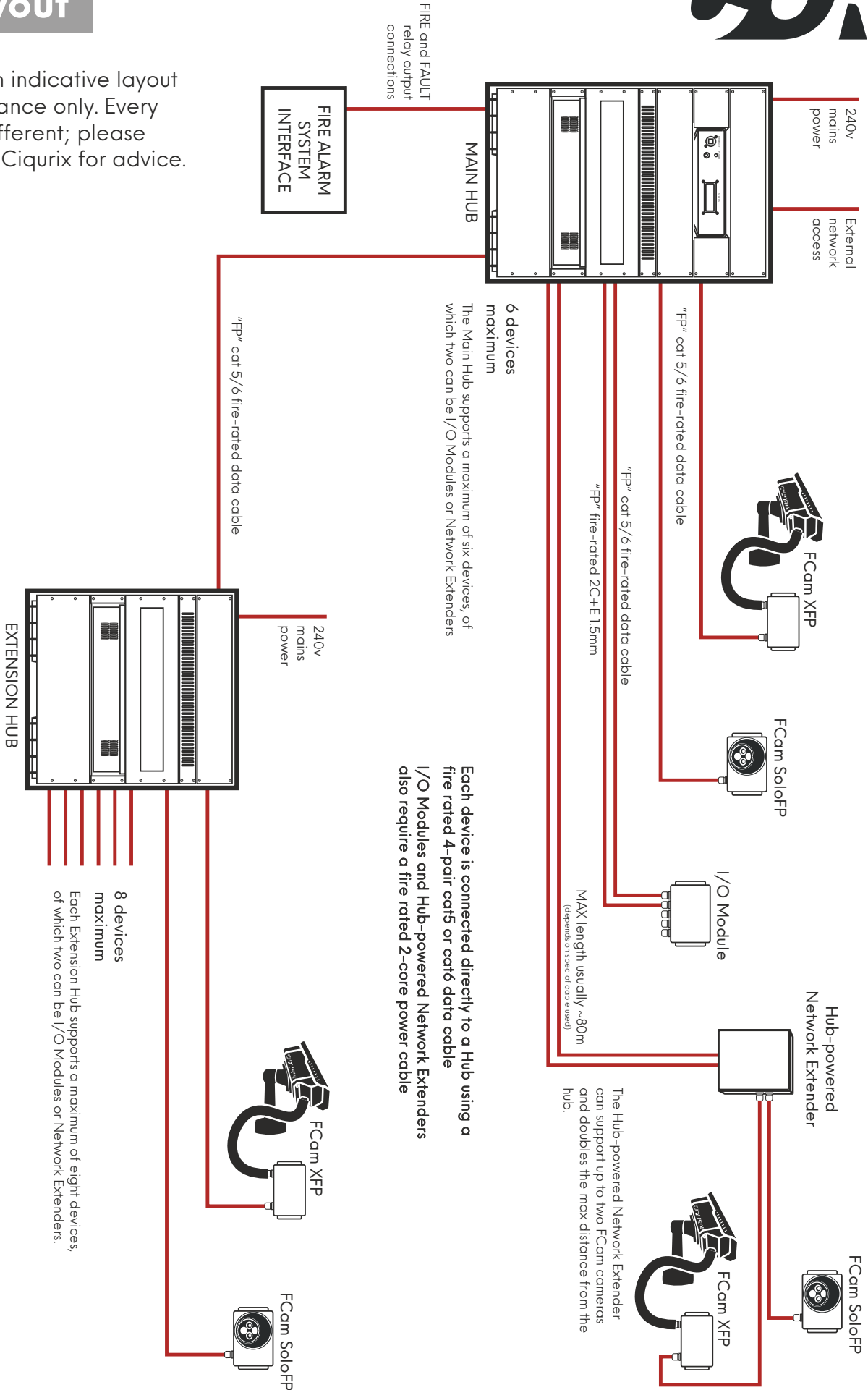| FC-SFP-104	FC-SFP-106
📹 55m 🔥 **FIRE DETECTION**	📹 100m 🔥 **FIRE DETECTION**
65° horizontal **WIDE 4mm LENS**	**46°** horizontal **NARROW 6mm LENS**
IP60 INDOOR USE	**IP60** INDOOR USE

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

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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Layout

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

CORE by CIQURIX

FIRE and FAULT relay output connections

FIRE ALARM SYSTEM INTERFACE

MAIN HUB

240v mains power

External network access

6 devices maximum

The Main Hub supports a maximum of six devices, of which two can be I/O Modules or Network Extenders

"FP" cat 5/6 fire-rated data cable

"FP" cat 5/6 fire-rated data cable

"FP" cat 5/6 fire-rated data cable

"FP" fire-rated 2C+E 1.5mm

FCam XFP

FCam SoloFP

I/O Module

MAX length usually ~80m (depends on spec of cable used)

Each device is connected directly to a Hub using a fire rated 4-pair cat5 or cat6 data cable

I/O Modules and Hub-powered Network Extenders also require a fire rated 2-core power cable

Hub-powered Network Extender

The Hub-powered Network Extender can support up to two FCam cameras and doubles the max distance from the hub.

FCam XFP

FCam SoloFP

EXTENSION HUB

240v mains power

8 devices maximum

Each Extension Hub supports a maximum of eight devices, of which two can be I/O Modules or Network Extenders.

FCam XFP

FCam SoloFP

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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

The Main Hub has a global fail-safe fault output and 4 programmable relay outputs. Each CORE 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 CORE 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.
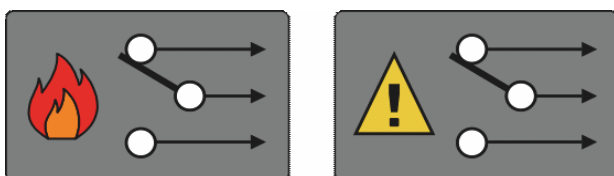
Video Feed

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 crosshairs and location information is burned into the stream at source.

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

Solo FP

Specification

	FC-SFP-104	FC-SFP-106
Detection distance:	1 - 55m	1 - 100m
Viewing angle:	65°(h) 36°(v)	46°(h) 25°(v)

Temperature:	-10°C to +70°C
Detection time:	10 seconds (typical)
Environmental:	IP60 96%RH
Power:	9-36Vdc 4W (supplied from CORE Main Hub or Extension Hub)
Cabling requirement:	1 x fire rated Cat5/5e/6 data cable from Main Hub or Extension Hub (carries data and power) Maximum distance from Hub depends on cable spec, typically 80m (Cat5), 100m (Cat6) Inline network extender available, see CT-NEFP-102
Dimensions:	252mm (l) x 146mm (w) x 196mm (d)
Weight:	2.1 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.

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