



# CIQURIX

the ultimate in fire detection technology

2019 product catalogue



## about us

our innovation, your safety.

At Ciqurix™ we have been developing innovative, revolutionary security equipment for nearly 10 years. We specialise in products that enhance the global security industry, providing a significant leap forward in safety for our customers and rendering many in-place systems obsolete.

Our aim is for Ciqurix products to be integrated seamlessly into existing hardware, calling for no extensive, costly overhauls but drastically cutting security and fire response times. Simplicity is key, and the same solutions can be used indoors or outside, over limited or extended range, requiring no complex integration.

# the FCam™ series

## the ultimate in fire detection technology

Representing a revolution in safety technology, the FCam™ Series packages a traditional IP security camera with groundbreaking new fire detection technology to create the world's most accurate, versatile and reliable fire detection solution. For much of the time the FCam series act as a normal network surveillance camera.

The combination of IR and digital makes the FCam Series exceptionally reliable, virtually cutting out false alarms. Fires are detected and reported within seconds of their breaking out, slashing emergency response times and increasing the safety of people and property on your site.

## product reference table

| model name            | description  | detection distance | weight | resolution  | part no.    |
|-----------------------|--|--------------------|--------|-------------|-------------|
| FCamX                 | 4mm lens   | 80m                | 1.2 kg | 1280 x 720  | FCAMX-104   |
| FCamX                 | 6mm lens   | 180m               | 1.2 kg | 1280 x 720  | FCAMX-106   |
| FCamSolo              | 4mm lens   | 55m                | 0.6 kg | 1920 x 1080 | FCAMS-104   |
| FCamEX                | 4mm lens   | 80m                | 5.1 kg | 1280 x 720  | FCAM-104-Ex |
| FCamEX                | 6mm lens   | 180m               | 5.1 kg | 1280 x 720  | FCAM-106-Ex |
| FCamX Demo Box        | 4mm lens   | 80m                | 12.1kg | 1280 x 720  | CXDX-104-01 |
| Ciqurix™ Controller   | FCam™ Series controller unit.                          | N/A                | 3.4kg  | N/A         | CQCNTL-001  |
| Ciqurix™ I/O Module   | 4 photo couple inputs, 4 relay with 3 terminal outputs | N/A                | 0.5kg  | N/A         | CQEM-D0404  |
| Ciqurix™ POE Splitter | POE Splitter   | N/A                | 0.15kg | N/A         | CQPS-101    |



## FCamX™

welcome to xtraordinary

FCamX™ is a revolutionary new safety technology that combines innovative fire detection and surveillance in one IP based system, allowing it to reliably recognise multiple semi-concealed fires in under 12 seconds. FCamX can detect flame both outdoors and indoors at up to 180 metres, in all environments, weather conditions and light levels, including complete darkness, making previously unprotectable areas safe and secure.



### FCamX™

#### Detection

|                     |                    |
|---------------------|--------------------|
| Distance - 4mm Lens | 80m                |
| Distance - 6mm Lens | 180m               |
| Flame Detection     | Outdoors & Indoors |
| Smoke Detection     | Indoors            |
| Detection Time      | < 15 Seconds       |

#### Environment

|                  |                                 |
|------------------|---------------------------------|
| Rating           | IP66                            |
| Working Humidity | < 96%                           |
| High & Low Temp  | -40°C to +70°C (-13°F to 140°F) |

#### Viewing Angle - 4mm Lens

|            |     |
|------------|-----|
| Horizontal | 65° |
| Verticle   | 36° |

#### Viewing Angle - 6mm Lens

|            |     |
|------------|-----|
| Horizontal | 46° |
| Verticle   | 25° |

#### Video

|                       |                        |
|-----------------------|------------------------|
| ONVIF                 | Profile S              |
| Main Video Stream     | 1280p x 720p @ 30fps   |
| Sub Video Stream (IR) | 320p x 240p @ 30fps    |
| Bandwidth             | Max 4 Mbps             |
| VOE                   | H.246 720p             |
| Net Protocol          | QLS, DHCP, TELNET, FTP |
| Video Encoder         | H.264                  |
| Image Sensor          | 1/3" Low Lux           |

#### Video

|                         |        |
|-------------------------|--------|
| Digital Noise Reduction | 3D DNR |
| Video Stream Protocol   | RTSP   |
| Pixel Size              | 3.75mm |
| Dynamic Range           | 83.5dB |
| SNR Max                 | 44dB   |

#### Dimensions

|        |       |
|--------|-------|
| Length | 250mm |
| Width  | 110mm |
| Height | 100mm |

#### Power

|                   |              |
|-------------------|--------------|
| Power Supply      | DC 12v 1A    |
| Power Capacity    | 4w (Max 12w) |
| Quiescent Current | <200mA       |

#### Communication

|                         |      |
|-------------------------|------|
| Communication Interface | RJ45 |
|-------------------------|------|

#### Analytics

|                            |     |
|----------------------------|-----|
| External Analytics Capable | Yes |
|----------------------------|-----|



# FCamSolo™

small. mighty. solo.

FCam's™ revolutionary technology in a smaller package. Designed for indoor or outdoor use, FCamSolo™ combines a high-quality security camera with the revolutionary dual-sensor IR technology that makes the FCam series the most reliable and accurate fire detection solution in the world.



## FCamSolo™

### Detection

|                     |                    |
|---------------------|--------------------|
| Distance - 4mm Lens | 55m                |
| Distance - 6mm Lens | 100m               |
| Flame Detection     | Outdoors & Indoors |
| Smoke Detection     | Indoors            |
| Detection Time      | < 15 Seconds       |

### Environment

|                  |                                 |
|------------------|---------------------------------|
| Rating           | IP60                            |
| Working Humidity | < 96%                           |
| High & Low Temp  | -40°C to +70°C (-13°F to 140°F) |

### Viewing Angle - 4mm Lens

|            |     |
|------------|-----|
| Horizontal | 65° |
| Verticle   | 36° |

### Viewing Angle - 6mm Lens

|            |     |
|------------|-----|
| Horizontal | 46° |
| Verticle   | 25° |

### Video

|                       |                        |
|-----------------------|------------------------|
| ONVIF                 | Profile S              |
| Main Video Stream     | 1920p x 1080p @ 25fps  |
| Sub Video Stream (IR) | 320p x 240p @ 30fps    |
| Bandwidth             | Max 8 Mbps             |
| VOE                   | H.246 1080p            |
| Net Protocol          | QLS, DHCP, TELNET, FTP |
| Video Encoder         | H.264                  |
| Image Sensor          | 1/3" Low Lux           |

### Video

|                         |        |
|-------------------------|--------|
| Digital Noise Reduction | 3D DNR |
| Video Stream Protocol   | RTSP   |
| Pixel Size              | 3.75mm |

### Dimensions

|          |       |
|----------|-------|
| Diameter | 115mm |
| Height   | 140mm |

### Power

|                   |              |
|-------------------|--------------|
| Power Supply      | DC 12v 1A    |
| Power Capacity    | 4w (Max 12w) |
| Quiescent Current | <200mA       |

### Communication

|                         |      |
|-------------------------|------|
| Communication Interface | RJ45 |
|-------------------------|------|

### Analytics

|                            |     |
|----------------------------|-----|
| External Analytics Capable | Yes |
|----------------------------|-----|



**CIQURIX™**  
our innovation, your safety.



by the time you have read this, the **FCamSolo™** has already  
detected multiple small semi-concealed  
**FIRES**

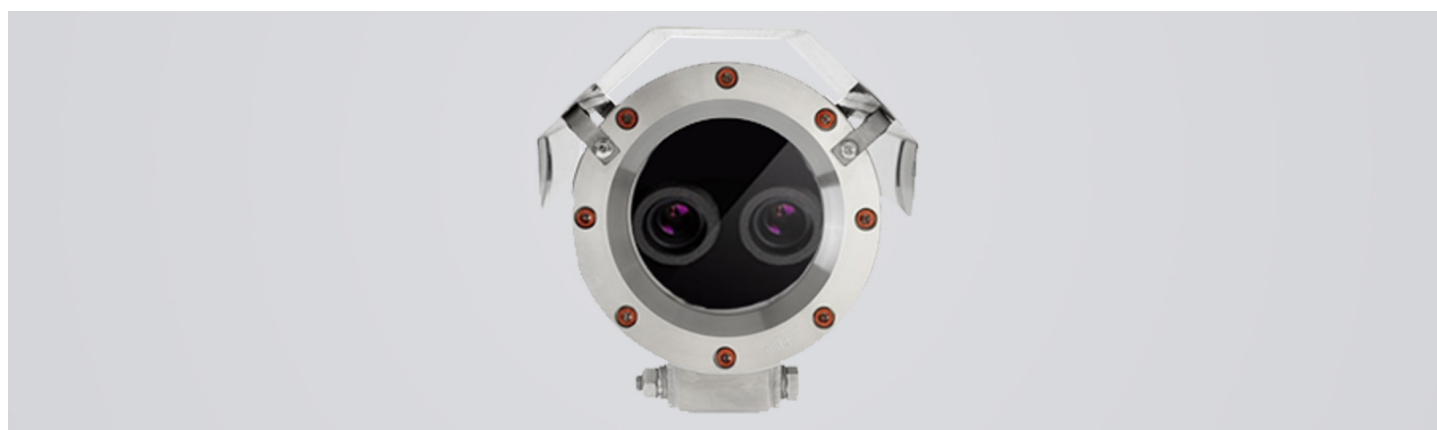
welcome to the ultimate in fire detection  
technology

welcome to the FCam™

## FCamEX™

### tougher fire detection

FCamEX™ is a revolutionary fire detecting camera built into an ATEX certified housing, and is therefore suitable for use in explosive atmospheres. The same innovative early warning technology is used in the FCamEX as in the FCamX™, including the cutting-edge infrared camera that cuts down detection time and virtually wipes out false alarms.



#### FCamEX™

##### Detection

|                     |                    |
|---------------------|--------------------|
| Distance - 4mm Lens | 80m                |
| Distance - 6mm Lens | 180m               |
| Flame Detection     | Outdoors & Indoors |
| Smoke Detection     | Indoors            |
| Detection Time      | < 15 Seconds       |

##### Environment

|                  |                                  |
|------------------|----------------------------------|
| Rating           | IP68                             |
| Working Humidity | < 95%                            |
| High & Low Temp  | -60°C to +85°C (-76°F to +185°F) |

##### Viewing Angle - 4mm Lens

|            |     |
|------------|-----|
| Horizontal | 65° |
| Vertical   | 36° |

##### Viewing Angle - 6mm Lens

|            |     |
|------------|-----|
| Horizontal | 46° |
| Vertical   | 25° |

##### Video

|                         |                        |
|-------------------------|------------------------|
| ONVIF                   | Profile S              |
| Main Video Stream       | 1920p x 1080p @ 25fps  |
| Sub Video Stream (IR)   | 320p x 240p @ 30fps    |
| Bandwidth               | Max 4 Mbps             |
| VOE                     | H.246 1080p            |
| Net Protocol            | QLS, DHCP, TELNET, FTP |
| Video Encoder           | H.264                  |
| Image Sensor            | 1/3" Low Lux           |
| Digital Noise Reduction | 3D DNR                 |
| Video Stream Protocol   | RTSP                   |
| Pixel Size              | 3.75mm                 |

##### Video

|               |        |
|---------------|--------|
| Dynamic Range | 83.5dB |
| SNR Max       | 44dB   |

##### EX Mark

|    |   |
|----|---|
| EX | Gas: II 2G Ex d IIB Gb<br>Dust: II 2D Ex t IIIC Db IP68 |
|----|---|

##### Housing

|          |                 |
|----------|-----------------|
| Material | Stainless Steel |
| Mounting | Fixed Bracket   |

##### Dimensions

|          |        |
|----------|--------|
| Length   | 211mm  |
| Diameter | 113mm  |
| Weight   | 5.1 Kg |

##### Power

|                |                    |
|----------------|--------------------|
| Input Voltage  | 12V DC             |
| Input Current  | 1A (Max)           |
| Power Capacity | 4W (typ) 12W (max) |

##### Analytics

|                            |     |
|----------------------------|-----|
| External Analytics Capable | Yes |
|----------------------------|-----|



# FCamX Demo Box

control the ultimate in fire detection

The new Ciqurix FCam Demo Box is a simple all-in-one demonstration kit that shows off all of the FCam's ground-breaking capabilities. The integrated FCamX is connected to a screen mounted inside the lid of the rugged carry case.



## FCam™ Demo Box

### Contents Description

Simply plug it in to see a live feed, which can be used in conjunction with a standard cigarette lighter or candle to demonstrate the revolutionary fire detection capabilities.

The demo box includes 1 x Ciqurix FCam X on a table top stand, a touch screen hi-res monitor and all necessary control equipment, as well as presentations and sample test footage.

There's never been a simpler or easier way to show the future of fire detection technology.

| Environment         |                        |
|---------------------|------------------------|
| Rating              | FCamX is rated to IP66 |
| Power               | Mains 230v             |
| Dimensions & Weight |                        |
| Length              | 560mm                  |
| Width               | 350mm                  |
| Height              | 240mm                  |
| Weight              | 12.0kg                 |

# why FCam?



An FCamX™ in Bergen, Norway protecting the UNESCO listed World Heritage Site of Bryggen.

## why choose FCam™?

remove the threat of fire, in seconds...

Representing a revolution in safety technology, the FCam™ Series packages a traditional IP security camera with groundbreaking new fire detection technology to create the world's most accurate, versatile and reliable fire detection solution. For much of the time the FCam series act as a normal network surveillance camera.

In case of a fire, however, both digital based analytics and the infrared (IR) sensors combine with in-built patented algorithms to confirm the presence of flame, and then send an alarm to the digital feed in seconds.

The combination of IR and digital makes the FCam Series exceptionally reliable, virtually cutting out false alarms. Fires are detected and reported within seconds of their breaking out, slashing emergency response times and increasing the safety of people and property on your site.

# accessories

## FCamController

The FCamController monitors the status of the FCam™ network and communicates alarm events and camera status to the outside world.

It also allows remote reset of camera alarms. Normally used with one or more FCam I/O Modules to provide remote inputs and volt-free outputs from the FCam network.

*Please note: only one controller is required per FCam™ network.*



## Ciqurix™ I/O Module

The FCam™ I/O Module has four outputs and four inputs. Used in conjunction with the FCam Controller, this allows communication of alarm and fault events to the outside world, and also remote reset of FCam alarms. Each input and output is fully programmable, and each can be set to work with one, some, or all FCams on the network.

The FCam™ I/O Module is typically used to communicate with an NVR or VMS, but can also be used to trigger a fire panel, remote communicator, alarm sounder, etc.



### FCamController™

#### Ciqurix - FCamController

|                       |                                |
|-----------------------|--------------------------------|
| Voltage               | 12V DC 1.5A (Min 9.2V Max 18V) |
| Working Current       | <500mA                         |
| Operating Temperature | +5°C to +60°C (41°F to 140°F)  |
| Working Humidity      | <90%                           |
| LAN/Ethernet/         | RJ45                           |
| Power Input           | 2.1mm DC jack                  |
| Power Indicator       | LED                            |
| Status Screen         | LC                             |

#### Dimensions

|        |       |
|--------|-------|
| Length | 250mm |
| Width  | 250mm |
| Height | 60mm  |
| Weight | 5.1Kg |



### I/O Module

#### Ciqurix - I/O Module

|                           |  |
|---------------------------|--|
| Power Supply              | DC 10-28V  |
| Outputs                   | 4 x volt-free changeover relays contacts         |
| Inputs                    | 4 x opto-coupled inputs (12v applied to trigger) |
| Channel Isolation Voltage | 2000V (RMS)                                      |
| Communication Interface   | RJ45   |
| Control Command           | TCP  |
| Power Consumption         | < 2W at DC24V (without relay active)             |
| Working Temperature       | -40°C - +85°C (-40° - 185°F)                     |
| Working Humidity          | < 95%  |

#### Dimensions

|        |       |
|--------|-------|
| Length | 119mm |
| Width  | 100mm |
| Height | 38mm  |
| Weight | 0.5Kg |



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