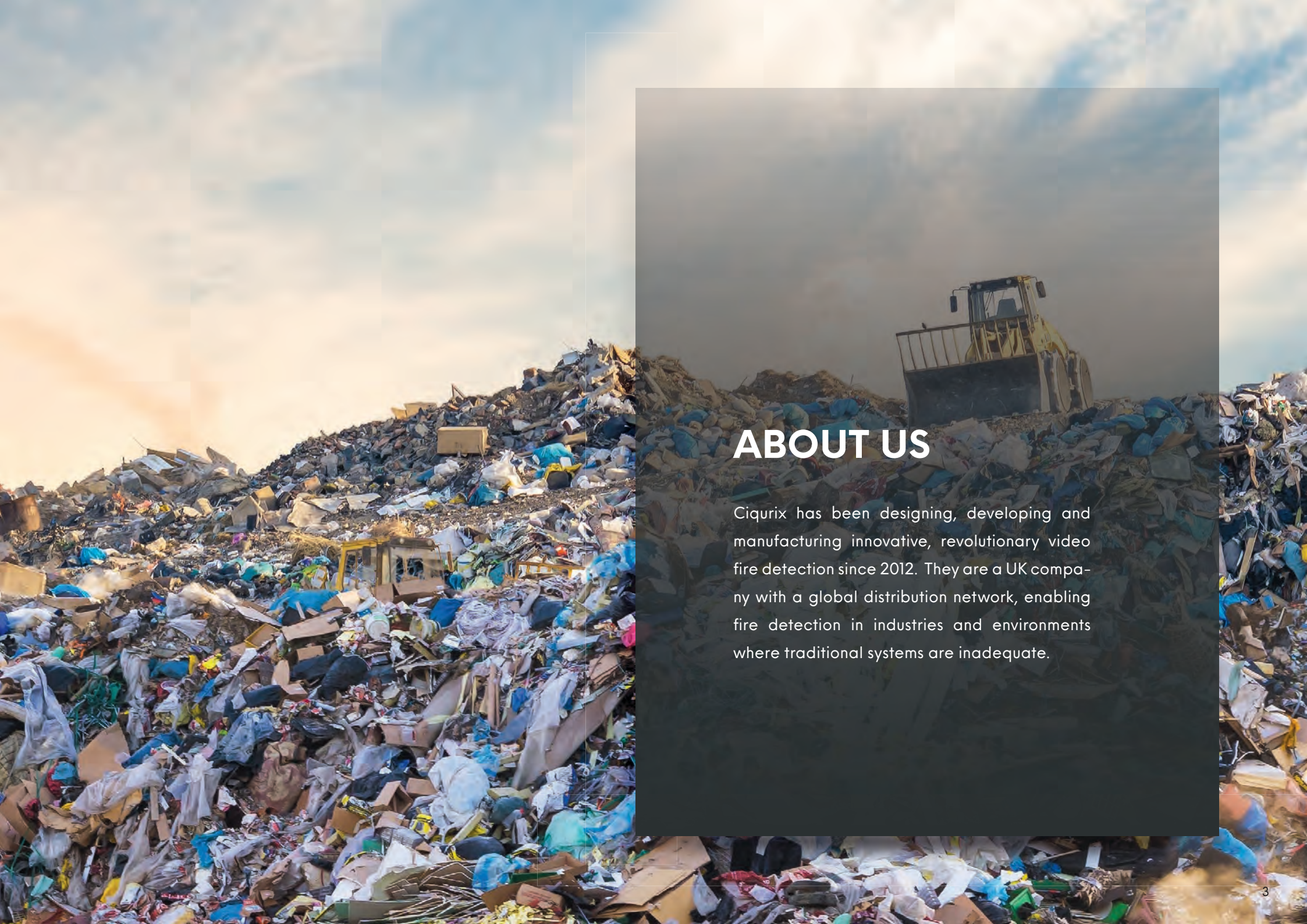
THE ULTIMATE IN FIRE DETECTION TECHNOLOGY

CIQURIX

ciqurix.com

BECAUSE TOMORROW IS TOO LATE...

Waste Disposal and recycling facilities are the industrial properties most vulnerable to fire. A study conducted by the Chief Fire Officers Association of the UK found there to have been an average of 250 waste fires a year over the last 10 years, at a cost of £16 million (US$20.7 million). This number has remained steady through that period, as the tools to combat and mitigate these fires more effectively have simply not been available.

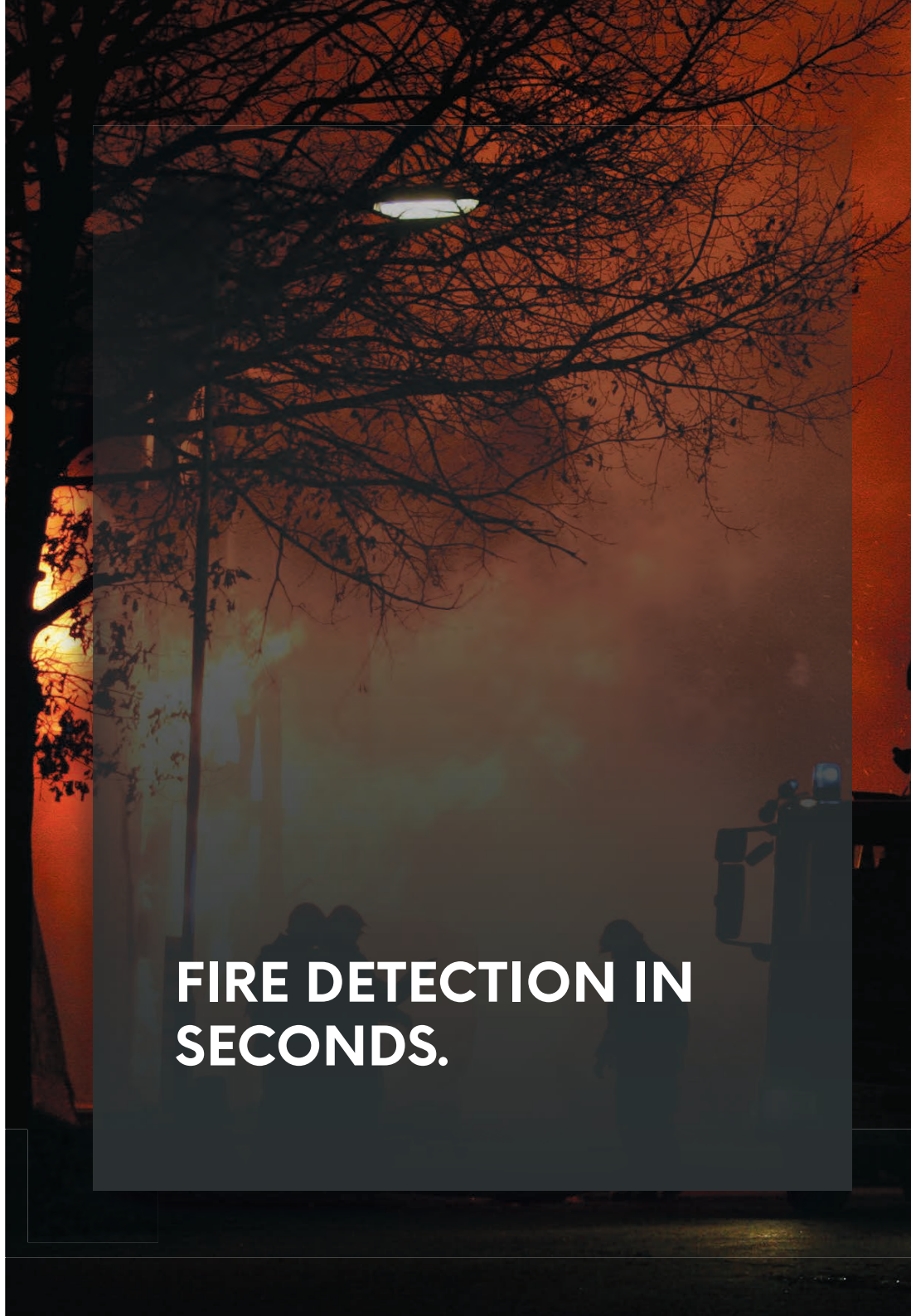


ABOUT US

Ciqurix has been designing, developing and manufacturing innovative, revolutionary video fire detection since 2012. They are a UK company with a global distribution network, enabling fire detection in industries and environments where traditional systems are inadequate.

WASTE FACILITY FIRES

Waste recycling plants are at extreme risk of fire, and there is no evidence to suggest that the efficiency or working practices of the plant management has any impact on the incidence of fire. Every one of the top ten US Waste Disposal companies has fallen victim to a major fire at one of its facilities since 2013. It is clear that fire is an industry risk of waste disposal and recycling, but the equipment required to ensure that the inevitable minor flames do not become a major disaster has not existed... **until now!**



THE SOLUTION
THE FCAM SERIES

The Ciqurix FCam Series is a revolutionary fire detection solution which complies with BS5839-1 (UK fire standard). It combines infrared and visual video feeds with built-in algorithms creating the most accurate, reliable fire detection solution available today. Able to detect a semi-concealed 40cm pan fire at 180m and a lighter flame at 10m, typically in under 10 seconds, inside or outside, both day or night, the FCam is so sensitive that it is able to dramatically cut vital response times. Meaning a potential disaster at a waste processing facility turns into a harmless incident.

WHY FCAM?

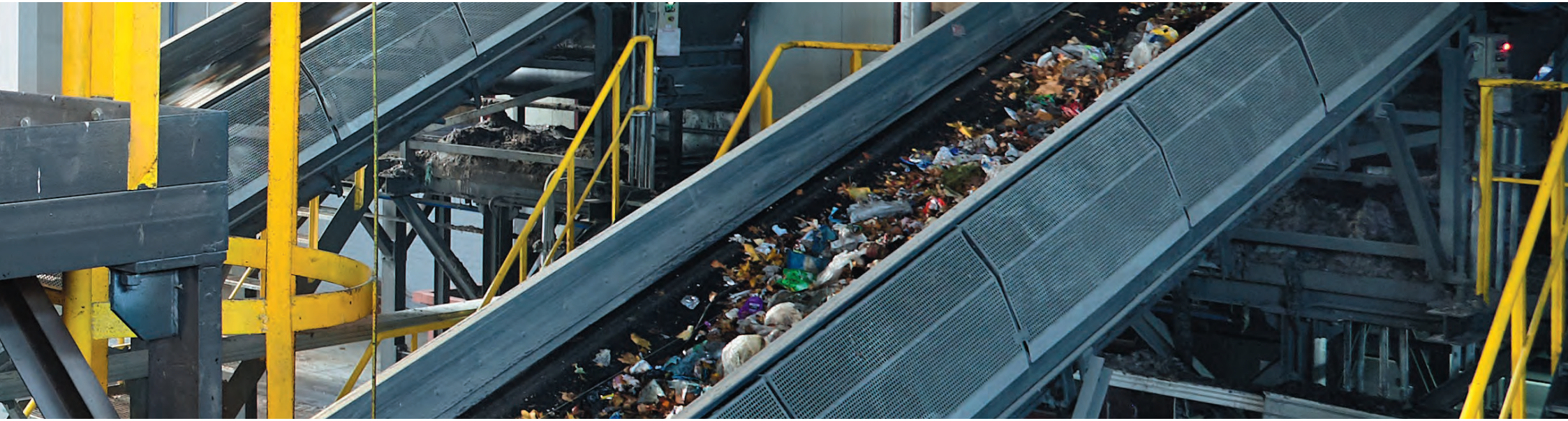
In section 13 of the Environment Agency's guidance on preparing Fire Prevention Plans for Environmental Permits, it states "You must have procedures in place to detect a fire in its early stages so you can reduce its impact. Your detection system should be proportionate to the nature and scale of waste management activities you carry out and the associated risks. Appropriate automated systems may include: smoke and heat detectors including temperature probes, CCTV visual flame detection systems, spark, infrared and ultraviolet detection." **Of these options the only one which provides accurate and early detection of a fire, without false alarms, is CCTV visual flame detection.**

Smoke detectors are rarely appropriate because of the site conditions - they are easily contaminated and often triggered by dust, dirt, fumes or moisture. Heat detectors are slow to operate and will trigger far too late to allow any useful intervention. Temperature probes and thermal detection technology does have limited use in monitoring specific piles of waste against the risk of self-combustion, but they are complicated to set up and prone to false alarms. Spark, infrared and ultraviolet flame detection again have some uses, but are restricted to close range detection and prone to false alarms from sunlight or other sources of IR/UV light. CCTV visual flame detection on the other hand can give early warning of a confirmed fire, with no false alarms, over large distances.

The Ciqurix FCam system will see a fire starting and tell you about it immediately. It uses a combination of visual and InfraRed image processing analytics to locate and notify of small fires at up to 180m distance within just a few seconds. The FCam system integrates seamlessly into any existing fire alarm and/or fire suppression system, or can stand alone. It will instantly notify staff on site, responders off site and (via a remote monitoring centre) the Fire and Rescue Service and any keyholders. Cost effective, simple to use, and with proven reliability – why would you not use the Ciqurix FCam to limit your exposure to the damaging effects of fire on your site. For more information contact Ciqurix today.

We will provide a detailed design for your site using state of the art 3D CAD modelling software, free of charge, to ensure all angles are covered. We can work with your existing fire/security/CCTV installer, or we can recommend an approved local installer.

We support installers with training if required, and we assist with commissioning the finished system. Once commissioned and tested, full certification to BS5839-1 can be provided for the system.



FCamXFP
FEATURES

FIRE DETECTION
indoor and outdoor

DETECTION TIME
< 15 seconds

TECHNOLOGY
dual lens detection

MAX DETECTION RANGE
180 metres

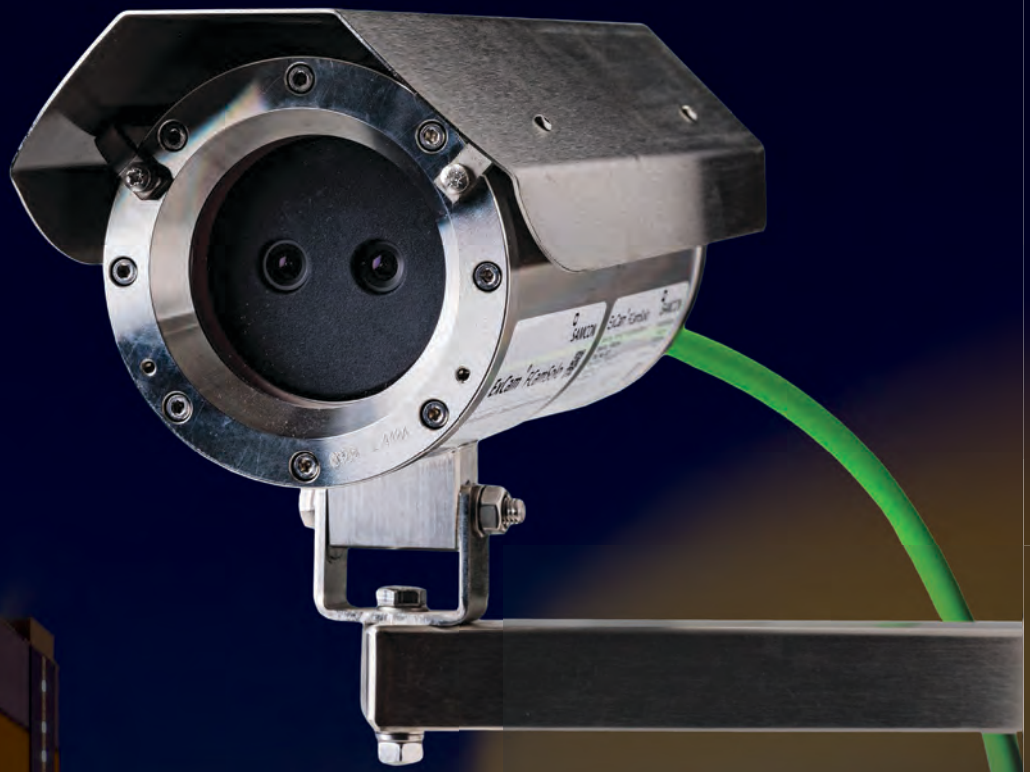
FCamSoloFP
FEATURES

FIRE DETECTION
indoor

DETECTION TIME
< 15 seconds

TECHNOLOGY
dual lens detection

MAX DETECTION RANGE
80 metres



FCamEXFP **FEATURES**

FIRE DETECTION
indoor and outdoor

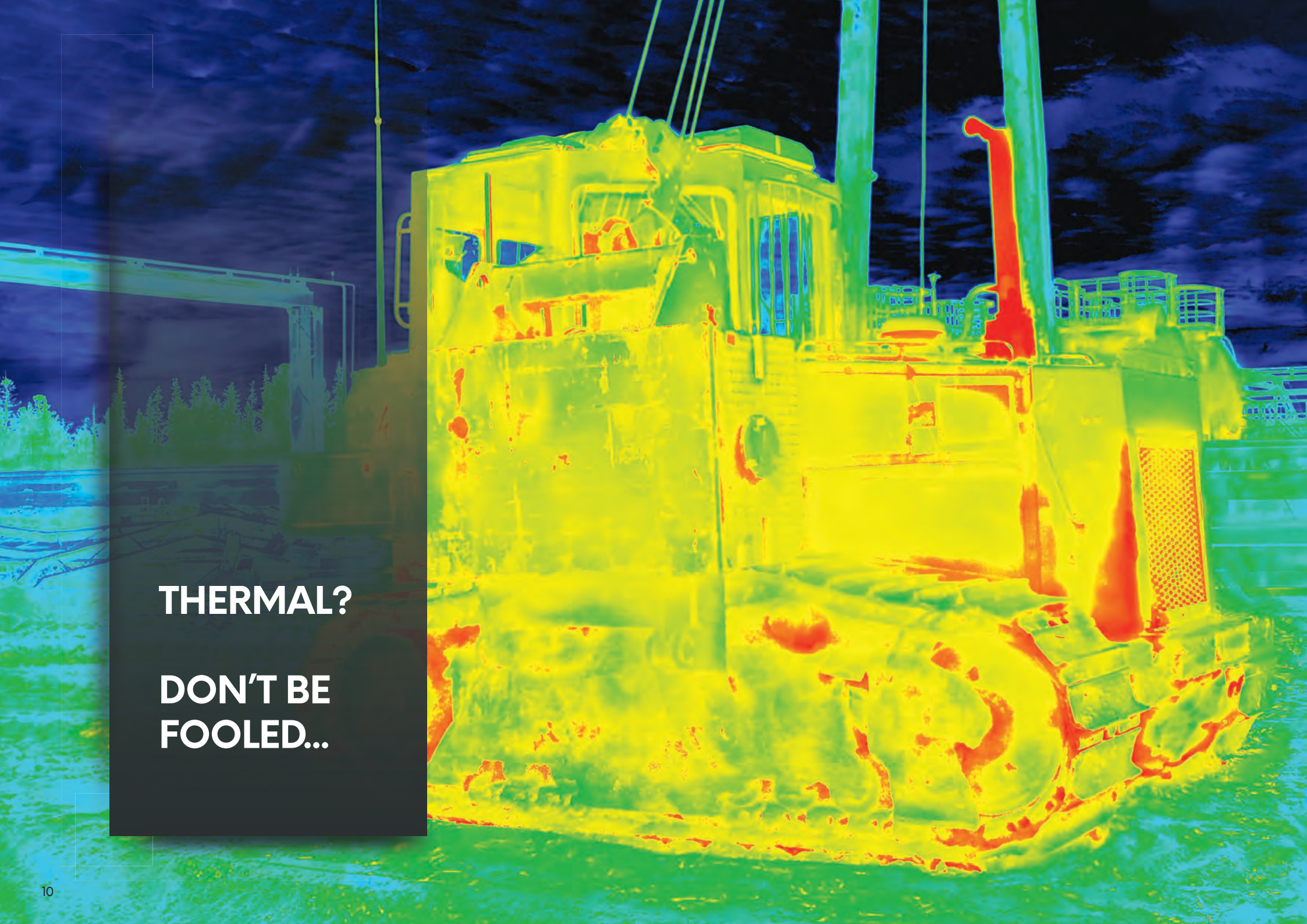
DETECTION TIME
< 15 seconds

TECHNOLOGY
dual lens detection (EX)

MAX DETECTION RANGE
180 metres

Control Hub **FEATURES**

The Control Hub monitors the status of the FCam network and communicates alarm events to the outside world. It can power the entire system from backup batteries for over 24 hours, is wired in fire-resistant cabling, and allows teh installed system to be certified to BS5839-1.



THERMAL?

DON'T BE FOOLED...

CHOOSE THE SUPERIOR

The FCam series is not a thermal camera. Thermal cameras are designed to detect changes in temperature, not fire. Changes in temperatures are frequent, especially within a waste environment, so false alarms are commonplace. Also, thermal cameras are often set to alarm on reaching a threshold temperature, so if the fire initially becomes visible at a higher temperature then there can be **catastrophic consequences...**

LIVE IMAGE

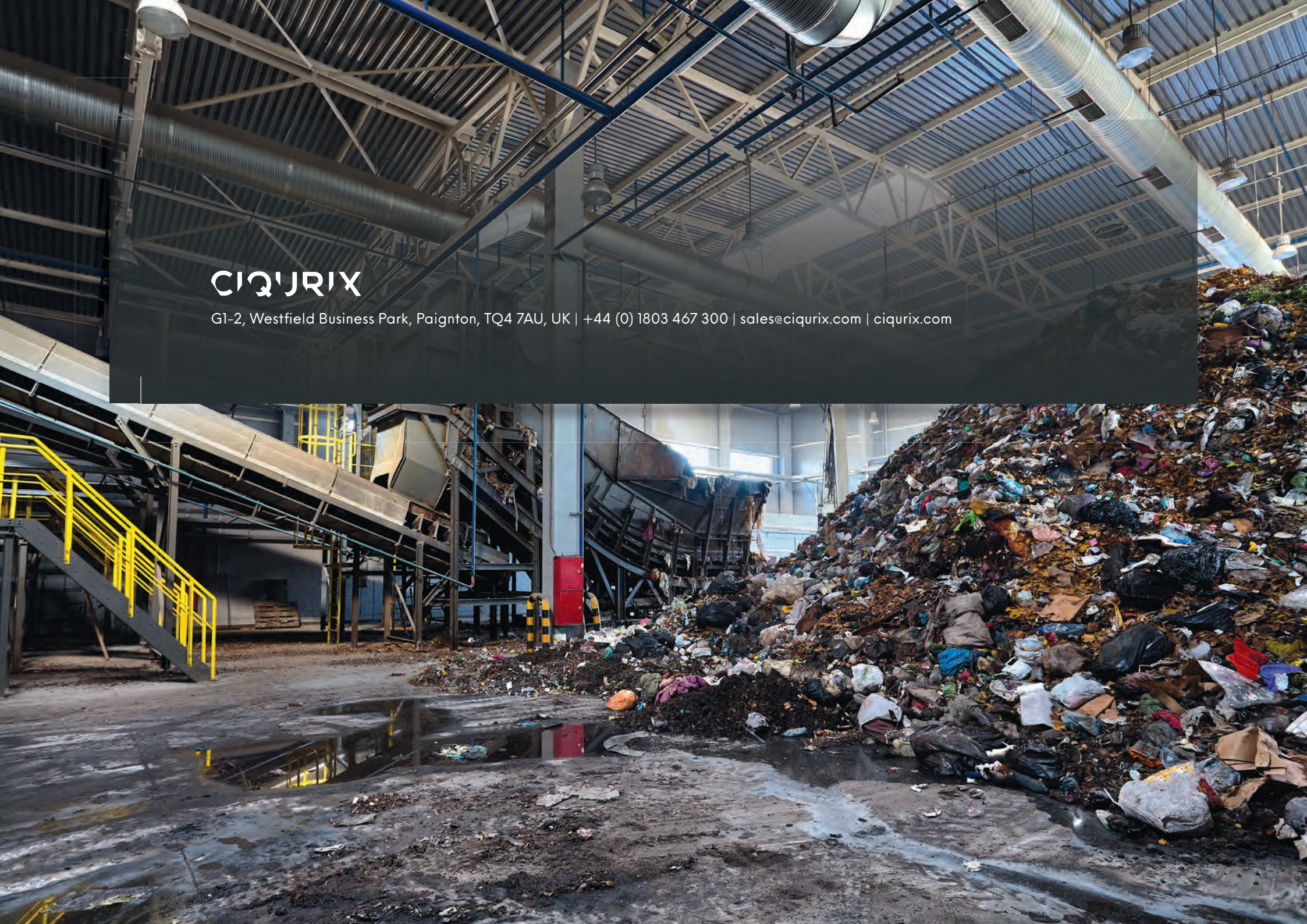
Unlike thermal cameras, the FCam series gives a live video feed, so fires are easy to identify, along with any potential hazards near the fire.

SUPERIOR DETECTION

The FCam series detects fire. Unlike thermal cameras looking for temperature change, the FCam is only ever looking for a genuine fire.

SPEED

The FCam is unrivalled in detection time. Typically the FCam can detect fire in under 10 seconds.



CIQURIX

G1-2, Westfield Business Park, Paignton, TQ4 7AU, UK | +44 (0) 1803 467 300 | sales@ciqurix.com | ciqurix.com