



# ExCam<sup>®</sup> Series

Compact and modular CCTV-System for gas and dust explosion risk zones.

The **ExCam Series** consists of different video cameras that are approved for dust and gas explosion risk zones in accordance with the EU directive 94/9/EC (ATEX).

The ExCam Series is the **world's smallest explosion proof camera system in its class**. The main advantage lies in the modular build up: various different housings and electronical parts make it easy to assemble explosion proof cameras that suit your particular needs.

The **ExCam Series** consist of analogue cameras with variofocal lenses, motorzoom cameras with infrared cut filter and digital network cameras with a resolution of 1920x1080 pixel (FullHD).



**SAMCON**  
Prozessleittechnik GmbH

# ExCam<sup>®</sup> Series

## Aluminum or stainless steel? The housings solutions:

Care for something lighter? **ExCam cameras in an aluminum housing** are perfectly suited for outdoor applications and have outstanding heat conduction properties when combined with the sun shade.

Something refined? Try an **ExCam in a stainless steel housing**. Extremely refined and compact, the stainless steel housing is perfectly suited for applications in chemically aggressive environments.

Both housings are designed with IP67 protection and are resistant to seawater. The borosilicate glass of the housing is scratch-proof and free of optical distortions.

The optimal housing for every application!

## High-quality optical systems

The ExCam Series is suitable for applications that require extremely sharp images and detailed recognition, such as machine or plant monitoring in the chemical industry as well as at tank storage sites, inspection windows and filling stations.

The available camera modules adapt optimally to the most difficult lighting conditions.

## Heating when it's cold!

Some cameras of the ExCam Series are optionally available with a self-regulating housing heating system. The housing heating system decides on its own, whether heating is necessary!

At temperatures from -20°C to +50°C, the lens of this camera for explosion risk zones is kept free of ice to deliver excellent images - even under extreme temperatures.

## Bespoke length of connection cables.

All Cameras of the ExCam Series come with cables of 5 meters length. Need to connect via a longer distance? No problem, any camera can be delivered with a cable of up to a hundred meters length to suit your particular needs.



**ExCam**  
in stainless steel housing



## Interfaces – Our cameras speak every language!

The ExCam Series includes analogue cameras like the ExCam vario, as well as digital network cameras like the ExCam IP. The video signal of the analogue cameras is transmitted as a CVBS-signal (composite), meaning that it can be plugged in directly into a TV-set or videosever – there is no need for any other “translator”.

Video and control signals of the digital cameras like the ExCam IP or ExCam HD are transmitted as network signals that match AXIS VAPIS®, as well as ONVIF® specifications. As such, these cameras can easily be integrated in existing video management systems.

## Control systems and digitalization

Short distances and/or analogue real time applications in explosion risk zones can be connected, controlled and set up from non-explosion risk zones using the interface controller (VCB). The signal is then transmitted to a standard screen (no PC needed, TFT also possible). For digitalization of the signal any video server that uses VISCA® protocol drivers can be used.

Looking for a “plug & play” solution? The (Ex)Connection Rail digitalizes signals from all analogue cameras – whether you are operating in explosion risk zones or zones outside hereof.

**ExCam**  
im aluminum housing

Produkt	Bild-signal	Steuer-signal	Objekt-typ	Iris	Focus	Tag/Nacht	Ausleuch-tung	Blickwinkel
 ExCam vario T03-AL...	CVBS	-	Varifocal	DC	manuel	Yes	0,15 lx	74,2° (wide) - 30° (tele)
 ExCam miniZoom T03-VA...	CVBS	VISCA®	Motor-Zoom	Motor-Iris (Auto)	Motor-Focus (auto)	No	1.5 lx	46° (wide) - 4.6° (tele)
 ExCam niteZoom T03-VA...	CVBS	VISCA®	Motor-Zoom	Motor-Iris (Auto)	Motor-Focus (auto)	Yes	0.0004 lx (1/4 s, 1/3 s mode & ICR on)	52° (wide) - 5,4° (tele)
 ExCam IP T03-VA...	MJPEG H.264 (1280x800)	VAPIX® ONVIF®	fest	-	manuel	No	1,0 lx	80° (wide) (Tele mit ePTZ)



## Accessories and equipment

We offer a wide range of accessoires and additional equipment – ranging from flexible mounting accessories, cables, video servers, terminal boxes to visualizing concepts. We do everything to get your visuals where you need them.

[www.samcon.eu](http://www.samcon.eu)



Schillerstraße 5a  
D-35102 Lohra-Altenvers

[www.samcon.eu](http://www.samcon.eu)  
T: +49 6426 9231-0  
F: +49 6426 9231-31

## Project planning

You are not sure whether the ExCam Series suits your needs? You do not know which camera is the best for your specific application?

Contact us – **we care about helping you**. As a rule of thumb, all our products originate from customer project requests and can be customized. Furthermore, our expertise is not only found in our device technology, but especially in our ability to create the optimum solution for our customers. Whether it be planning of camera networks, lighting tests, fine planning, assembly supervision or commissioning.

Find out more about SAMCON, check out datasheets, additional information or watch demo videos on our website: [www.samcon.eu](http://www.samcon.eu)