

# ExCam® IP

## Datasheet.

### Features.

#### Network CCTV camera for hazardous area

With our ExCam IP, finally a full-fledged network camera is available for hazardous areas. The video streams can be controlled directly via ethernet! There is no further need for a video server!

#### Reduced installation costs

Data and power supply are combined in only one cable! The only equipment you need to connect the camera in the safe area is a PoE switch or PoE midspan.

#### Ethernet cables for hazardous area

Our network cable is specifically designed for hazardous areas! It is, thanks to the polyurethane coating, mechanically extremely robust and also UV resistant and flame retardant according to DIN EN 60079-14. Due to the wire size (AWG 22) and the shielded Cat6e twisted pairs even greater distances can easily be overcome!

#### Power over Ethernet (PoE)

Electrical power is passed, along with data, via the network cable (IEEE 802.3af). This eliminates the costly installation of power cables.

#### Small enclosures - large resolution (HD)

Using progressive scan technology the ExCam IP is capable to encode high-resolution images of moving objects at 30 frames per second without motion blur.

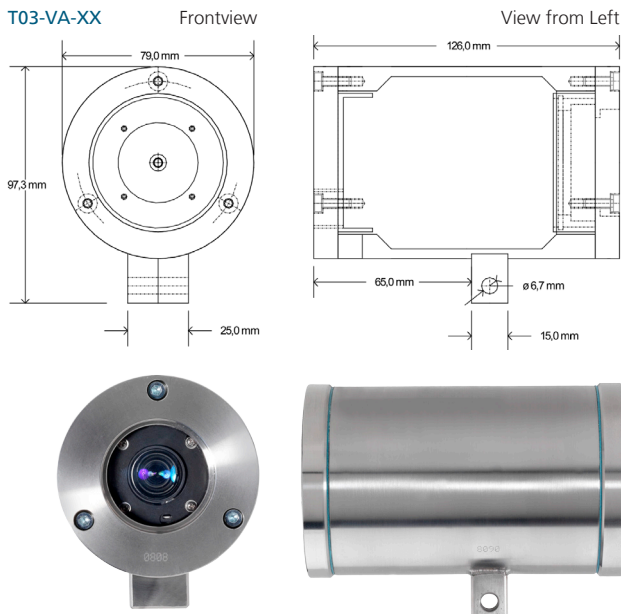
The ExCam IP delivers sharp images with the resolution HDTV 720p and 1 MP.

#### Multistreaming - Several different video streams simultaneously!

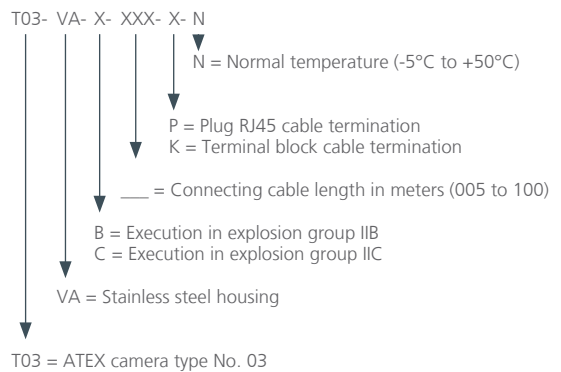
Multiple H.264 video streams as well as Motion JPEG streams simultaneously - either in full frame rate or individually optimized for different quality and bandwidth requirements.



## Dimension.



## Models.



## Data.

ExCam® IP

### Electrical characteristics

Camera:	
Power supply:	PoE, IEEE 802.3af Klasse 1
Reference power:	max. 48 VDC
Input current:	max. 350mA
Max. Power: Kamera:	max. 3,84W

### Connection cable

Outside Diameter:	8.7 ±0.3 mm
Bending Radius:	100mm
Twisted Pair structure (data):	4 x 2 x AWG22/1 CAT.6a
Other features:	UV resistant and flame retardant

(see [www.samcon.eu](http://www.samcon.eu) datasheet SKD01)

### Mechanical characteristic

Housing material:	Stainless steel
Protection level:	IP 67 (IEC / EN 60529)
Weight:	T03-VA-XX: about 2100g

### Range of temperature

T03-VA-X-XXX-X-N:	-5°C to +50°C
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### Camera

Image sensor:	1/4" Progressive scan RGB CMOS 1 Megapixel
Lens:	2.8 mm, F2.0, fixed iris
Horizontal angle of view:	80°
Minimum illumination:	1,0 lux, F2.0
Shutter time:	1/25000 s to 1/6 s
Pan/Tilt/Zoom:	Digital PTZ, preset positions, guard tour

### Video

Video compression:	H.264 (MPEG-4 Part 10/AVC), Motion JPEG
Resolutions:	AXIS M3014: 1280x800 to 160x90
Frame rate H.264:	30 fps in all resolutions
Frame rate Motion JPEG:	30 fps in all resolutions
Video streaming:	Controllable frame rate and bandwidth Multi-stream H.264 and Motion JPEG H.264/Motion JPEG: 1 stream in full frame rate and resolution in either compression, more streams if identical or limited in frame rate/resolution VBR/CBR H.264
Image settings:	Compression, color, brightness, sharpness, contrast, white balance, exposure control, exposure zones, backlight compensation, fine tuning of behavior at low light, rotation, Text and image overlay, Privacy mask, Mirroring of images

### Network

Security:	Password protection, IP address filtering, HTTPS* encryption, digest authentication, user access log
Supported protocols:	IPv4/v6, HTTP, HTTPS*, QoS Layer 3 DiffServ, FTP, SMTP, Bonjour, UPnP, SNMPv1/v2c/v3(MIB-II), DNS, DynDNS, NTP, RTSP, RTP, TCP, UDP, IGMP, RTCP, ICMP, DHCP, ARP, SOCKS



### System integration

Application Programming Interface:	Open API for software integration, including the ONVIF specification available at <a href="http://www.onvif.org">www.onvif.org</a> , as well as VAPIX® from Axis Communications, specifications available at <a href="http://www.axis.com">www.axis.com</a>
Intelligent video:	Video motion detection, active tampering alarm
Alarm triggers:	Intelligent video
Alarm events:	File upload via FTP, HTTP and email Notification via email, HTTP and TCP
Video buffer:	Video recording to edge storage 40MB pre- and post alarm

### Explosion protection:

Declaration of conformity :	DIN EN 60079-0:2006 DIN EN 60079-1:2004 DIN EN 61241-0:2006 DIN EN 61241-1:2004
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EC type examination certificate:	TÜV 09 ATEX 7697 X
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Marking according to directive 94/9/EG:	 II 2G (zone 1 and 2)  II 2D (zone 21 and 22)
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Explosion protection (gas):	Ex d IIC T6 or Ex d IIB T6
Explosion protection (dust):	Ex tD A21 IP67 T80°C
protection level:	IP 67 (IEC / EN 60529)



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