

ExCam[®] miniZoom

Datasheet.

Features.

The **ExCam miniZoom** is a zoom camera approved for hazardous areas (dust and gas) in accordance with the directive 94/9/EC (ATEX).

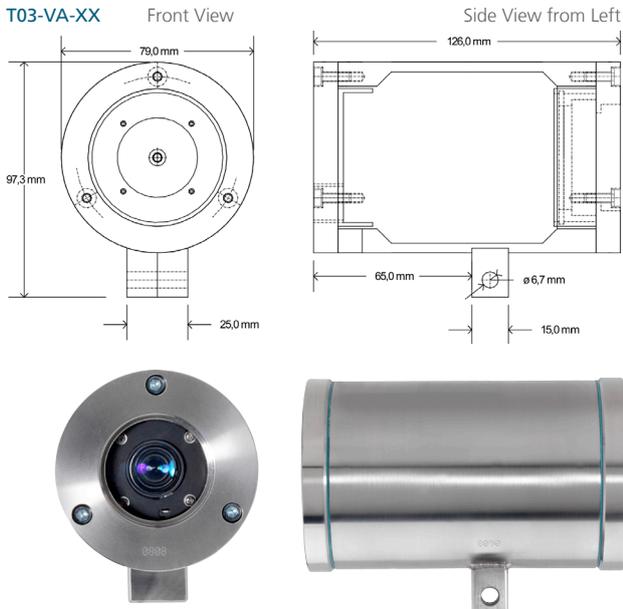
The ExCam miniZoom is the **world's smallest explosion-proof zoom camera** of its class. Despite its compact dimensions, it has a 10x motorized zoom lens, allowing it to be optimally adapted to the specific angle and lighting situation.

Thanks to the use of the VISCA[®] protocol for controlling the camera, it is suitable for both, simple video monitoring solutions as well as industrial image processing. This makes it unique within its performance class.

By using the full-duplex-RS422 interface, the **ExCam miniZoom** is compatible with all video servers manufactured by AXIS.



Dimensions.



Models.

T03- VA- X- XXX- X- X

- ↓
- N = Normal temperature (0°C to +50°C)
- L = Low temperature (-20°C to +50°C)
- ↓
- P = Plug BNC cable termination
- K = Terminal block cable termination
- ↓
- = Connecting cable length in meters (005 to 200)
- ↓
- B = Execution in explosion group IIB
- C = Execution in explosion group IIC
- ↓
- VA = Stainless steel housing

T03 = ATEX camera type No. 03

Data.

Electrical characteristics

Camera:	
Power supply:	+12VDC to +30VDC
Reference power:	+24VDC
Input current:	67mA to 208mA
Max. power (without heating):	2.5W

Heating (optional):	
Power supply:	+12VDC to +24VDC
Reference power:	+24VDC
Input current:	About 1000mA
Max. power (-20°C):	10W (VA)

System cable SKAxx

Outside diameter:	9.4mm
Bending radius:	Min. 150mm
Video:	1x75Ω Koax AWG 24, Cu shield
RS 422:	2x2x0,25mm ² Cu shield
Power supply camera:	2x0.75mm ²
Power supply heating:	2x0.75mm ²

Mechanical characteristic

Housing material:	Stainless Steel 1.4301 (AISI 304) or optional Stainless Steel 1.4401 / 1.4404 (AISI 316 / 316L)
Protection level:	IP 67 (IEC / EN 60529)
Weight:	About 2100g

Range of temperature

T03-VA-X-XXX-X-N (without heating):	0°C to +50°C
T03-VA-X-XXX-X-L (with heating):	-20°C to +50°C

Camera sensor

Sensor:	1/4" EX-view HAD CCD-Technologie
Effective sensor resolution:	PAL: 440,000 Pixel (ca. 752 x 582) NTSC: 380,000 Pixel (ca. 768 x 494)
Horizontal resolution:	PAL: 460 TV Linien NTSC: 470 TV Linien

Lens

AF-Zoom lens:	10 x opt. / 4 x dig.
Focal (f):	4.2mm to 42.0mm
Angle of view:	46° (wide) to 4.6° (tele)
Iris:	F1.8 to F2.9 (1)
Minimal illumination:	1.5 Lx
Recommended illumination:	100 bis 100,000Lx
Minimal object distance:	10mm (wide) 1000mm (tele)

Electronic functions

Electronic shutter	
Serial control by VISCA/RS-422	
Composite (CVBS) video output 1V _{ss}	
Backlight compensation (BLC)	
Auto white balance	
Aperture control (APC)	
DSP	
Signal-to-noise ratio:	≥50 dB

Explosion protection

Declaration of conformity:	DIN EN 60079-0:2009 DIN EN 60079-1:2007 DIN EN 60079-31:2009
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EC type examination certificate: TÜV 09 ATEX 7697 X

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 Gb or Ex d IIB T6 Gb
Explosion protection (dust):	Ex t IIIC T80°C Db IP67
Protection level:	IP 67 (IEC / EN 60529)

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Equipment.

Mounting.



Wall and ceiling mount adapter
for T03-VA-XX
Pan: 360°
Tilt: 90°

Controlling and viewing. Hardware.

Videoserver AXIS

Q7401 (Single Port – one ExCam)
Q7404 (Quad Port –four ExCam)



Power supply 15W-24V

International plug in power supply
Power input: 90 - 264 V/AC
Power supply for camera and heating



VISCA® control device

Controll device for up to 6 ExCam



Monitor 19"

With analog CVBS Input



...see further equipment on
<http://www.samcon.eu>