

ExCam[®]niteZoom

Datasheet.

Features.

Extreme high sensitivity

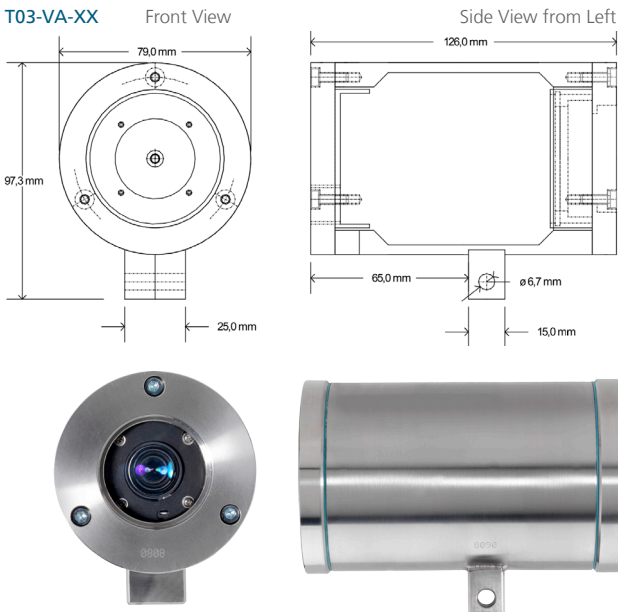
The **ExCam niteZoom** incorporates a newly designed 1/3-type Super HAD™ CCD II sensor that provides **increased sensitivity** compared to cameras featuring the 1/4-type Super HAD™ CCD.

Day/Night Function

The **ExCam niteZoom** features a Day/Night capability which provides **optimum sensitivity in both day and night** shooting applications. As the scene illumination darkens, the infrared filter is automatically removed. The camera then switches to B&W mode enabling it to operate under a minimum illumination of 0.0004 lx (Auto ICR On).



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: 270mA to 540mA
Max. Power: 6.5W

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

System cable SKAxx

Outside diameter: 8.5mm
Bending radius: Min. 150mm
Video: 1x75Ω Coax AWG 24, Cu shield
RS 422: 2x2x0.25mm² closed Cu shield
Power supply camera: 2x0.75mm²
Power supply heating: 2x0.75mm²

Mechanical characteristics

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: 1/3-type Super HAD CCD II
Effective sensor resolution: PAL: 440,000 Pixel (ca. 752 x 582)
NTSC: 380,000 Pixel (ca. 768 x 494)
Horizontal resolution: PAL: 530 TV lines wide end
NTSC: 530 TV lines wide end

Lens

AF-Zoom objektiv: 10 x opt. / 4 x dig.
Focal (f): 5.1mm to 51.0mm
Angle of view: 52° (wide) to 5.4° (tele)
Iris: F1.8 to F2.1
Minimal illumination: 1/4 s, 1/3 s mode & ICR on: 0.0004 lx
Recommended illumination: 0.25 to 100.000Lx
Minimal object distance: 150mm (wide)
800mm (tele)



Electronic functions

Electronic shutter
Serial control by VISCA/RS-422
Composite (CVBS) video output 1V_{ss}
Backlight compensation (BLC)
IR Cut Filter (IRC)
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

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)

Explosion protection (gas): Ex d IIC T6 Gb or Ex d IIB T6 Gb
Explosion protection (dust): Ex t IIIC T80°C Db
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>