

# ExCam<sup>®</sup>niteZoom

## Datasheet.

### Features.

#### Extreme high sensitivity

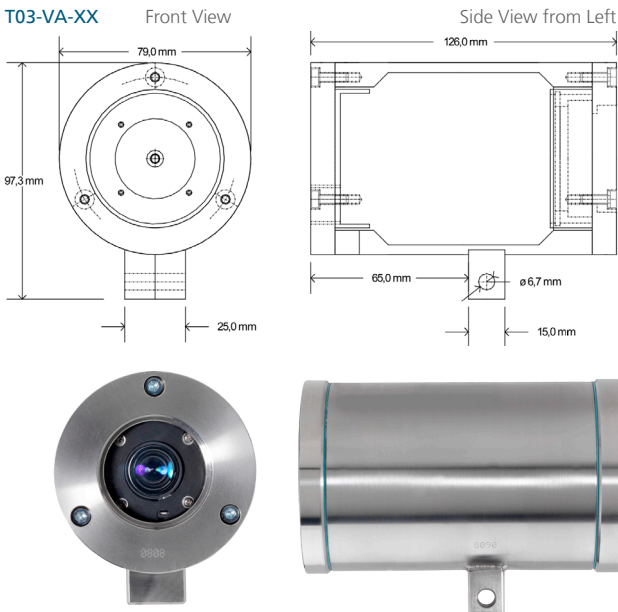
The **ExCam niteZoom** incorporates a newly designed 1/3-type Super HAD™ CCD II sensor that provides **increased sensitivity** compared to cameras featuring the 1/4-type Super HAD™ CCD.

#### 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)
- ↓ 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 Koax AWG 24, Cu shield  
RS 422: 2x2x0.25mm<sup>2</sup> closed Cu shield  
Power supply camera: 2x0.75mm<sup>2</sup>  
Power supply heating: 2x0.75mm<sup>2</sup>

### 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<sub>ss</sub>  
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 acc. to directive 2014/34/EU:  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)

Schillerstrasse 17  
D-35102 Lohra-Altenvers

www.samcon.eu  
info@samcon.eu  
T: +49 6426 9231-0  
F: +49 6426 9231-31

## Equipment.

### Mounting.

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

