niteZoom

Datasheet.

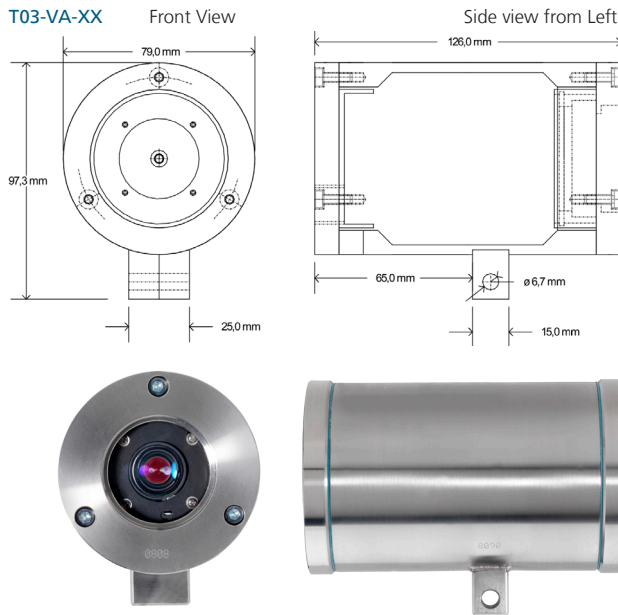## Features.

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).

Dimension.

T03-VA-XX   Front View   Side view from Left

79,0 mm

97,3 mm

25,0 mm

126,0 mm

65,0 mm   ø 6,7 mm

15,0 mm

Models.

T03- XX- X- XXX- X- X

N = Normal temperature (0°C bis +50°C)
L = Low temperature (-20°C bis +50°C)

P = Plug BNC cable termination
K = Terminal block cable termination

___ = Connecting cable length in meters (005 bis 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 (optional only for T03-AL..):
Power supply:	+12VDC to +24VDC
Reference power:	+24VDC
Input current:	about 1000mA
Max. power:	10W (VA)

System cable SKA01:

Outside Diameter:	8,5mm
Bending Radius:	min. 150mm
Video:	1x75Ω Koax AWG 24, Cu shield
RS 232:	2x0,25mm2 closed Cu shield
Power supply camera:	2x0,75mm2
Power supply heating:	2x0,75mm2

Mechanichal characteristic:

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

Range of temperature:

T03-XX-X-XXX-X-N (without Heating)	0°C to +50°C
T03-XX-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

Objektiv:

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-232
Composite (CVBS) video output 1Vss
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 60079-0:2006
	DIN EN 60079-1:2004
	DIN EN 61241-0:2006
	DIN EN 61241-1:2004
EC type examination certificate:	TÜV 09 ATEX 7697 X
Marking according to directive 94/9/EG:	⟨Ex⟩ II 2G (zone 1 and 2)
	⟨Ex⟩ II 2D (zone 21 and 22)
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)

Equipment.

Mounting.

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

Controling and viewing. Hardware.

Videoserver AXIS
..241S (Single Port – one ExCam
..241Q (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