ExCam® microTube IP

Datasheet.

Ultra compact ex-certified HDTV cylinder camera with fixed focal length

Features.

- ✓ Broad Certification Landscape for Hazardous Areas (ATEX, IECEx, INMETRO, EAC-Ex, ...)
- ✓ 1/2.8“ 2MP Sony STARVIS CMOS-Sensor
- ✓ High Light Sensitivity with 0.05 Lux
- ✓ Resolution: FullHD 1920x1080p
- ✓ Day & Night Functionality
- ✓ Protection Level of IP66/68 (IEC 60529)
- ✓ Single-Cable-Solution (PoE)
- ✓ Dual-Streaming and Videocompression H.264

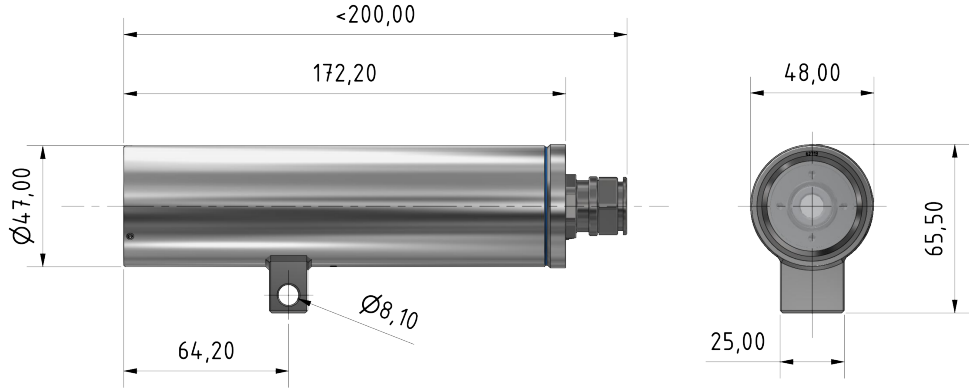
Zones.

Group I (Mining)	ATEX / IECEx / ...	
Zone	Ma	Mb
For use in	✗	✓

Group II (Gas & Dust)	ATEX / IECEx / ...				
Zone	0	1	2	21	22
For use in	✗	✓	✓	✓	✓

More certificates upon request.

Dimensions [mm].



Models.

T08-VA0.4.K1.BOR- N. H- XXX. X- X (-XXX)

- (-XXX): 058/034 = alternative lenses
- X: P = Plug RJ45 cable connection (standard); T = terminal box (Ex-e) connection
- X: N = Non-armoured cable (standard); A = Armoured cable
- XXX.: ___ = Cable length (see UM) (005 = Standard)
- H-: H = Modification for high temperatures ($T_{amb} \leq +50°C$)
- N.: N = Normal temperatures ($T_{amb} \geq -20°C$)
- T08-VA0.4.K1.BOR-: VA0.4.K1.BOR = Camera in stainless steel housing 1.4404

T08 = ATEX, IECEx, EAC-Ex, ... camera type No. 08 (TÜV 18...)

Data.

ExCam® microTube IP

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Explosion protection

Declaration of conformity:	DIN EN/IEC/GOST... 60079-0, DIN EN/IEC/GOST... 60079-1, DIN EN/IEC/GOST... 60079-7, DIN EN/IEC/GOST... 60079-31
Ex- Certificates:	TUEV-18-ATEX-8218X, IECEx-TUR-18.0023X, INMETRO TUEV 23.0363X, No. TC RU C-DE.HA65.B.01652/22, TUEV-22-UKEX-7137X, IA No.: MASC MS/18-3256X
Ex- Marking of the camera:	
Explosion protection (gas):	II 2G Ex db IIC T6 Gb
Explosion protection (dust):	II 2D Ex tb IIIC T80°C Db
Explosion protection (mining):	I M2 Ex db I Mb*
Ex- Marking of the terminal box:	
Explosion protection (gas):	II 2G Ex eb IIC T5 Gb
Explosion protection (dust):	II 2D Ex tb IIIC T95°C Db

Mechanical characteristics

Protection level (camera/terminal box):	Camera: stainless steel (AISI 316L/1.4404), terminal box: Polyester resin IP66/68 / IP66 (IEC/EN 60529)
Weight:	ca. 1.2 kg / 2.6 kg (with terminal box)

Range of temperature

-20°C bis +50°C

Power supply

PoE, IEEE 802.3af Type 1 Class 1, max. 2.5 W

Connection cable type

	WWW.SAMCON.EU ... Cat.6 / 4x2xAWG23/1 ...
Outside diameter:	9 mm - 12 mm

Lens

Type:	Megapixel lens with fixed iris, fixed focus length, 4mm
Field of view:	Horizontal: 80°, vertical: 47°
Light Sensitivity:	Color: 0.05 lux
Minimum Object Distance (MOD):	30 cm

Lens options

T08-VA.0.4.K1.BOR-N.H-XXX.X-X-058	Megapixel lens 4.3 mm	F2.0	HAoV@16/9=58°
T08-VA.0.4.K1.BOR-N.H-XXX.X-X-034	Megapixel lens 8 mm	F2.0	HAoV@16/9=34°

Camera

Image sensor:	1/2.8" CMOS Sony STARVIS, IMX307
Shutter setting:	ESC (automatic electronic shutter) 1/30000 s to 1/30 s
Video compression:	H.264, Motion JPEG
Resolution:	1920x1080 (16:9), 1280x720 (16:9), 960x540 (16:9), 640x480 (4:3), 320x240 (4:3)
Frame rate:	Max. 25fps/30fps (PAL/NTSC)
Video streaming:	Dual Stream, H.264 and MJPEG at the same time
Image settings:	Electronic day/night mode, white balance, D-WDR, digital noise reduction, 3D-DNR, motion detection, mirror function, vertikal-flip, rotation

Network

Supported protocols:	TCP/IP, HTTP, HTTPS, RTP, RTSP, UTP, DHCP, FTP, NTP, ARP, ICMP
Max. number of users:	4 users at the same time
API support	

System integration

Application programming interface:	API support, ONVIF support, specification at onvif.org
Included analytics:	Motion Detection

Optional accessories

Wall Mount Bracket (WMB), Pole mount Bracket (PMB), Weather Protection Roof (WPR), non-armoured cable kits, armoured cable kits, ExConnection Rails, ...

* = Mining only for variants with armoured cable and plug termination

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