

ExCam® IPM1145



Compact ATEX, IECEx & EAC-Ex Certified HDTV Day & Night Varifocal Lens Camera with RemoteZoom and RemoteFocus

Features.

- ✓ ATEX, IECEx & EAC-Ex certification
- ✓ 1920x1080 (HDTV 1080p)
- ✓ Day & Night functionality
- ✓ Dynamic and modular PTC heating concept for arctic temperatures (-60°C)
- ✓ One-cable-wiring (PoE+) IEEE 802.3af/at
- ✓ P-Iris control
- ✓ Remote Focus and Remote Zoom
- ✓ Internal SD-card storage
- ✓ The optional pneumatic enclosure cooling system „cool.Jacket“ allows the use at high temperatures: „High Definition meets High Temperatures“



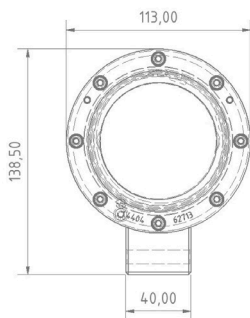
Zones.

Group I (Mining)	ATEX / IECEx / EAC-Ex		Group II (Gas & Dust)	ATEX / IECEx / EAC-Ex				
Category	Ma	Mb	Zone	0	1	2	21	22
For use in	✗	✓	For use in	✗	✓	✓	✓	✓

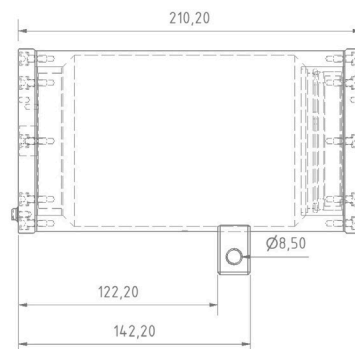
Further certifications upon request.

Dimensions.

T08-VA2.1 .XX Front view

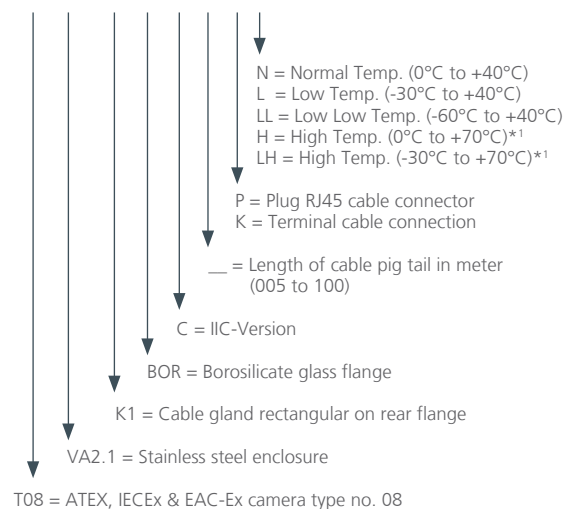


Left side view



Models.

T08-VA2.1.K1.BOR-C-XXX-X-X





Explosion protection

Declaration of conformity:

DIN EN 60079-0:2012, DIN EN 60079-1:2007
 DIN EN 60079-31:2009
 TR CU 012/2011, GOST R IEC 60079-0-2011,
 GOST IEC 60079-1-2011, GOST R IEC 60079-31-2010



Marking acc. to ATEX directive 2014/34/EU:
 Explosion protection (gas):
 Explosion protection (dust):
 Explosion protection (mining):

TUEV-14-ATEX-7539X
 II 2G Ex d IIC T6 Gb or Ex d IIB T6 Gb
 II 2D Ex t IIIC T80°C Db IP68
 I M2 Ex d I Mb



Marking according to IECEx:
 Explosion protection (gas):
 Explosion protection (dust):
 Explosion protection (mining):

IECEx-TUR-14.0026X
 Ex d IIC T6 Gb
 Ex t IIIC T80°C Db IP68
 Ex d I Mb



Marking according to EAC-Ex:
 Explosion protection (gas):
 Explosion protection (dust):
 Explosion protection (mining):

No. TC RU C-DE.MIO62.B.01921
 Ex d IIC T6 Gb
 Ex tb IIIC T80°C Db IP68
 PB Ex d I Mb



Mechanical characteristics

Housing material:
 Protection level:
 Weight:

Stainless Steel 1.4404 (AISI 316L) or optional 1.4401 / 1.4301
 IP 68 (IEC / EN 60529)
 T08-VA2.1.K1.BOR...: 4700 g



Range of temperature

T08-VA2.1.X.BOR-X-XXX-X-N:
 T08-VA2.1.X-BOR-X-XXX-X-L:
 T08-VA2.1.X-BOR-X-XXX-X-LL:
 T08-VA2.1.X-BOR-X-XXX-X-H:
 T08-VA2.1.X-BOR-X-XXX-X-LH:

0°C to +40°C
 -30°C to +40°C
 -60°C to +40°C
 0°C to +70°C*1
 -30°C to +70°C*1



Electrical characteristics

Power supply:

Power over Ethernet IEEE 802.3af/802.3at
 Class 2, Max. 6.0 W

Connection cable

Outside diameter:
 Twisted pair structure (data):

9.1 ±0.2 mm
 4 x 2 x AWG22/1 CAT.6a



Lens

Type:

Vari focal, P-Iris 3-10.5 mm
 F1.4 with built-in IR-cut filter and motorized focus/zoom
 95° - 34° @ 16/9
 Color: 0.4 lux, F1.4, B/W: 0.08 lux, F1.4

Horizontal angle of view:
 Minimum illumination:



Camera

Image sensor:
 Shutter time:
 Video compression:
 Resolutions:
 Frame rate H.264 / Motion JPEG:
 Pan/Tilt/Zoom:
 Video streaming:

Progressive scan RGB CMOS 1/2.9"
 Power line frequency 50 Hz: 1/28000s to 2s, Power line frequency 60 Hz: 1/33500s to 2s
 H.264 (MPEG-4 Part 10/AVC), Motion JPEG
 1920 x 1080 (approx. 2 Megapixel) to 160 x 90
 Rated frequency 50 Hz: 25 fps, Rated frequency 60 Hz: 30 fps
 Digital PTZ, Remote Focus, Remote Zoom
 Multiple, individually configurable streams in H.264 and Motion JPEG
 Controllable frame rate and bandwidth VBR/CBR H.264

Image settings:

Compression, Color, Brightness, Sharpness, Contrast, Whitebalance, Backlight compensation,
 Mirroring of images, Rotation – including Corridor Format, Text and image overlay, Privacy mask,
 Rotation: 0°, 90°, 180°, 270°, Wide Dynamic Range - Dynamic Contrast, Exposure control,
 Exposure zones, Fine tuning of behavior at low light
 SD/SDHC memory card slot, supporting memory card up 64GB (card not included)
 Support for recording to network share (network-attached storage or file server)

Edge storage:



Network

Security:
 Supported protocols:

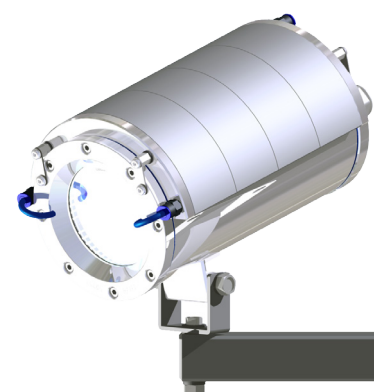
Password protection, IP address filtering, HTTPS* encryption, digest authentication, user access log
 IPv4/v6, HTTP, HTTPS*, QoS Layer 3 DiffServ, FTP, SMTP, Bonjour, UPnP, SNMPv1/v2c, v3(MIB-II), DNS,
 DynDNS, NTP, RTSP, RTP, TCP, UDP, IGMP, RTCP, ICMP, DHCP, ARP, SOCKS
 Open API for software integration, including supporting the ONVIF S specification available at
 www.onvif.org, as well as VAPIX® from Axis Communications, specifications available at www.axis.com

Application Programming Interface:

Video motion detection, active tampering alarm
 Intelligent video
 Intelligent video
 File upload via FTP, HTTP and email notification via email, HTTP and TCP, video recording to edge storage

Intelligent video:
 Alarm triggers:
 Alarm events:

* 1: These models require the SAMCON cool.Jacket. The temperature class must be reduced to T5.
 The compressed air according to the requirements must be available or be produced.



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