

ExCam® IP1357



Datasheet.

Features.

ExCam IP1357 – Max. resolution: 2592 x 1944 (5 megapixel)

with the ExCam IP1357, SAMCON offer a compact, explosion-proof stainless steel case with an integrated IP camera. The ExCam IP1357 is equipped with all features to be found in modern IP cameras such as HDTV or megapixel resolution, remote configuration, event management, intelligent video and tampering alarm. It allows the easy storage of video data and the „Plug & Play“ design supports the expansion of the video network including the easy on-site replacement of cameras.

Free choice of lens and Power over Ethernet (PoE)

The ExCam IP1357 can be equipped with different lenses and thus optimally adapts to your video surveillance system. It supports Power over Ethernet (PoE) which means that the data as well as the power are provided by one single line. We standardly supply the camera with a 5 m cable pig tail (other lengths are possible) and optionally also with explosion-proof distribution boxes.

Modular housing concept - different interfaces

The housing of the ExCam IP1357 can reflect various stainless steel qualities and can also be coated with an optional protective lacquer in order to adapt it best to your demands. The PTFE seal allows a protection level of IP68 (IEC 60529) and is very resistant to most media (a media resistance list is available upon request). The intelligent climate control system allows the use in ambient temperatures ranging from -60 °C to + 40 °C and a fiber optic or wireless adapter supports the transmission of data over long distances. The camera body is extremely compact with a length of 260 mm and a diameter of 113 mm.

Visualization concepts without additional software installation

In connection with SAMCONtroll®, the world's first browser-based video management software, which is particularly well suited for integration into control systems, and the (ex) Connection Rail-series, it is as easy as „Plug & Play“ to integrate the ExCam IP1357 in a complex video surveillance system in the hazardous area.

Our project planning engineers will be pleased to support you with the **design, documentation, commissioning,** and **maintenance** of your video surveillance system.



Zones.

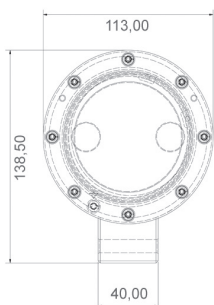
Group I (Mining)	ATEX / IECEx / EAC-Ex	
Category	Ma	Mb
For use in	✗	✓

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

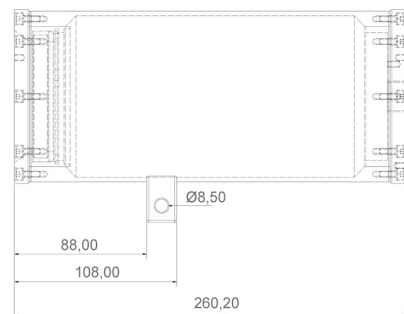
More certificates on request

Dimensions.

T08-VA2.2.K1.BOR Front view

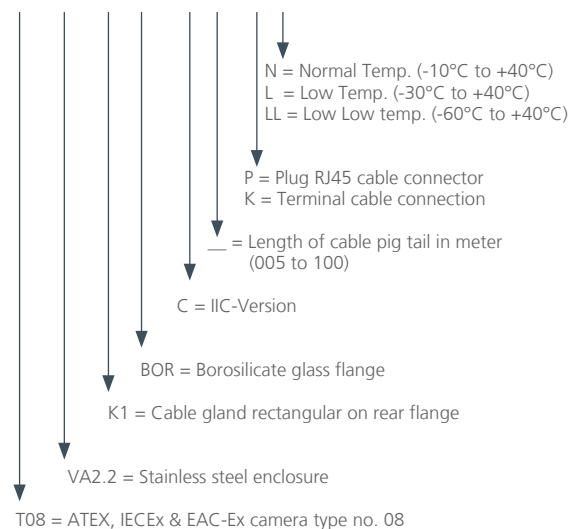


Left side view



Models.

T08-VA2.2.K1.BOR-C-XXX-X-X



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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):
 Mines susceptible to firedamp:

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):
 Mines susceptible to firedamp:

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:

Stainless Steel 1.4404 (AISI 316L) or optional
 Stainless Steel 1.4301 (AISI 304)

Protection level:
 Weight:

IP 68 (IEC / EN 60529)
 T08-VA2.2-K1: 6600g



Range of temperature

T08-VA2.2.K1.BOR-C-XXX-X-N:
 T08-VA2.2.K1.BOR-C-XXX-X-L:
 T08-VA2.2.K1.BOR-C-XXX-X-LL:

-10°C to +40°C
 -30°C to +40°C
 -60°C to +40°C



Electrical characteristics

Power supply:
 Reference power:
 Maximum Power without heating (PoE):

PoE, IEEE 802.3af Class 3
 48 VDC
 Max. 7.9 W

Connection cable

Outside diameter:
 Twisted pair structure (data):

9.1 ±0.2 mm
 4 x 2 x AWG22/1 CAT.6a



Lens

Type:

Varifocal 2.8 - 8 mm, F 1.2 (other P-CS-iris lenses are also supported)
 Horizontal angle of view: 92° - 32° (other angles depending on lens)
 Colour: 0.2 lux, B/W: 0.04 lux, F1.2

Minimum illumination:



Camera

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

Progressive scan RGB CMOS 1/3"
 Rated frequency 50/60 Hz: 1/24000 s to 2 s
 H.264 (MPEG-4 Part 10/AVC), Motion JPEG
 2592 x 1944 (approx. 5 megapixel) to 160 x 90
 Rated frequency 50 Hz: 25 fps
 Rated frequency 60 Hz: 30 fps



Pan/Tilt/Zoom:
 Video streaming:

Digital PTZ, preset positions, guard tour
 Multiple, individually configurable streams in H.264 and Motion JPEG
 Controllable frame rate and bandwidth VBR/CBR H.264

Image settings:

Compression, colour, brightness, sharpness, contrast, white balance, exposure control, exposure zones,
 backlight compensation, rotation, text and image overlay, privacy mask, mirroring of images, WDR-dynamic contrast
 SD/SDHC memory card slot, supporting memory card up 64MB (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

Application Programming Interface:

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

Intelligent video:

Video motion detection, active tampering alarm

Alarm triggers / alarm events:

Intelligent video, file upload via FTP, HTTP and email notification via email, HTTP and TCP
 Video recording to edge storage

