

ExCam® IP1355



Datasheet.

Features.

ExCam IP1355 – Max. resolution: 1920 x 1080 (2 megapixel) + P-Iris Function

With the ExCam IP1355, SAMCON offer a compact, explosion-proof stainless steel case with an integrated IP camera. The ExCam IP1355 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 IP1355 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 IP1355 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 + 60 °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 SAMCONtrol®, 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 IP1355 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.



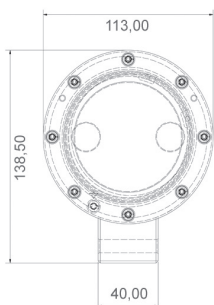
Zones.

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

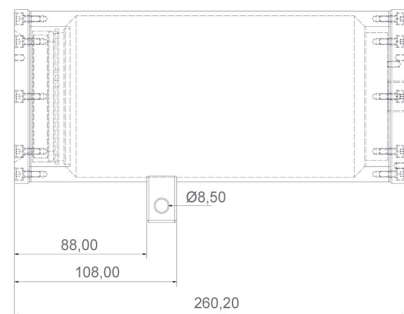
More certificates on request

Dimensions.

T08-VA2.2.X.X Front view

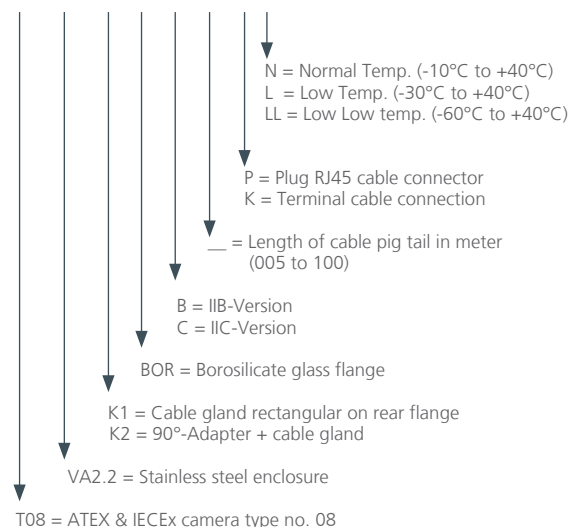


Left side view



Models.

T08-VA2.2.X.BOR-X-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



Marking acc. to ATEX directive 94/9/EG:

TUEV-14-ATEX-7539X

Explosion protection (gas):

II 2G Ex d IIC T6 Gb or Ex d IIB T6 Gb

Explosion protection (dust):

II 2D Ex t IIIC T80°C Db IP68



Mines susceptible to firedamp:

I M2 Ex d I Mb

Marking according to IECEx:

IECEx-TUR-14.0026X

Explosion protection (gas):

Ex d IIC T6 Gb

Explosion protection (dust):

Ex t IIIC T80°C Db IP68

Mines susceptible to firedamp:

Ex d I Mb

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Mechanical characteristics

Housing material:

Stainless Steel 1.4301 (AISI 304) or optional
Stainless Steel 1.4401 / 1.4404 (AISI 316 / 316L)

Protection level:

IP 68 (IEC / EN 60529)

Weight:

T08-VA2.2-K1: 6600g
T08-VA2.2-K2: 7300g



Range of temperature

T08-VA2.2.X-BOR-X-XXX-X-N:

-10°C to +40°C

T08-VA2.2.X-BOR-X-XXX-X-L:

-30°C to +40°C

T08-VA2.2.X-BOR-X-XXX-X-LL:

-60°C to +40°C



Electrical characteristics

Power supply:

PoE, IEEE 802.3af Class 3

Reference power:

48 VDC

Maximum Power (PoE) (without heating):

Max. 7.1 W



Connection cable

Outside diameter:

8.7 ±0.3 mm

Bending radius:

100 mm

Twisted pair structure (data):

4 x 2 x AWG22/1 CAT.6a

Other features:

UV resistant and flame retardant
(see www.samcon.eu; datasheet SKD01)
Low temperature models (*-L & *-LL)
require an additional power line .Please refer to the manual.



Lens

Type:

Varifocal 2.8 - 8 mm, F 1.2

Horizontal angle of view:

(other DC-CS-iris lenses are also supported)

Minimum illumination:

109° - 39° (other angles depending on lens)
Colour: 0.2 lux, B/W: 0.04 lux, F1.2



Camera

Image sensor:

Progressive scan RGB CMOS 1/3"

Shutter time:

Rated frequency 50 Hz: 1/28000 s to 2 s

Rated frequency 60 Hz: 1/33500 s to 2 s

Video compression:

H.264 (MPEG-4 Part 10/AVC), Motion JPEG

Resolutions:

1920 x 1080 (approx. 2 megapixel) to 160 x 90

Frame rate H.264 / Motion JPEG:

Rated frequency 50 Hz: 25 fps

Rated frequency 60 Hz: 30 fps

Pan/Tilt/Zoom:

Digital PTZ, preset positions, guard tour

Video streaming:

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, fine tuning of behavior at low light, rotation, text and image overlay, privacy mask, mirroring of images, WDR-dynamic contrast, P-Iris-function

Edge storage:

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)



Network

Security:

Password protection, IP address filtering, HTTPS* encryption, digest authentication, user access log

Supported protocols:

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:

Intelligent video

Alarm events:

File upload via FTP, HTTP and email notification via email, HTTP and TCP

Video recording to edge storage

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