ExCam® IPQ1715

Features.
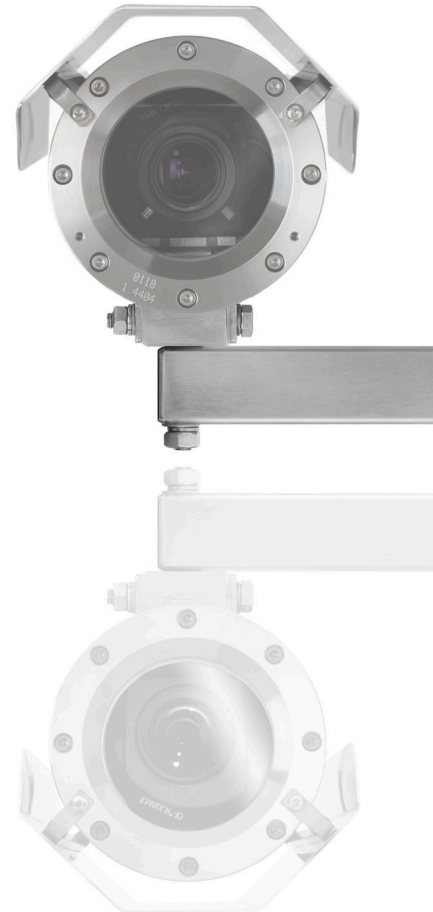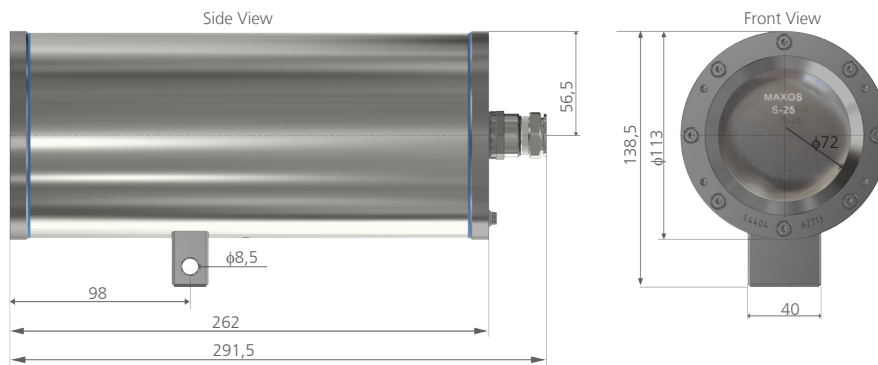
- ✓ Broad Certification Landscape for Hazardous Areas (ATEX, IECEx, INMETRO, EAC-Ex, ...)
- ✓ Deep Learning Processing Unit (DLPU) for Artificial Intelligence (AI) Applications
- ✓ Granular Object Classification & Motion Detection
- ✓ High Resolution: 1920x1080 (HDTV1080p at 50/60 fps)
- ✓ Powerful Motor-Zoom and Auto-Focus Lens (21xoptical)
- ✓ High Light Sensitivity with 1/2.8"CMOS Sensor
- ✓ Arctic-Temperature-Control (-60°C)
- ✓ Forensic WDR & Lightfinder Technology
- ✓ Protection Level of IP66/68 (IEC 60529)
- ✓ Electronic Image Stabilization (EIS)
- ✓ Optional Enclosure Cooling System allows Use at +120°C

Zones.

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

More certificates upon request .

Dimensions [mm].

Side View

56,5

φ8,5

98

262

291,5

Front View

138,5

φ113

φ72

MAXOS S-25

40

Models.
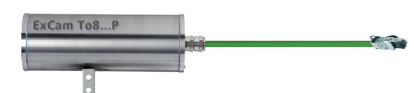
T08- VA.2.2.K1.BOR- X.X- XXX. X- X

- P = Plug RJ45 cable connector (standard)
- T = Terminal box (Ex-e) connection

- N = Non armoured cable (standard)
- A = Armoured cable
- F = Flex cable (suitable for drag chain use)

___ = Cable lenght (see UM) (005 = standard)

- N = No modification for hot temperatures ($T_{amb} \leq$ +50°C)
- H = Battery removed ($T_{amb} \leq$ +50°C)
- HH = Active cooling system for high temp. ($T_{amb} \leq$ +120°C)**

- L = Low temperatures ($T_{amb} \geq$ -40°C)
- LL = Low Low temp., PTC heater installed ($T_{amb} \geq$ -60°C)

VA2.2.K1.BOR = Camera in stainless steel enclosure 1.4404

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

Plug Termination.

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

ExCam To8...P

Terminal Box Termination.

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

ExCam To8...T

Data.

ExCam® IPQ1715

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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, PESO: A/P/HQ/KA/104/5735, IA No.: MASC MS/18-3256X

Ex- Marking of the camera:
Explosion protection (gas):	Ⓔⓧ II 2G Ex db IIB 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 junction box:
Explosion protection (gas):	Ⓔⓧ II 2G Ex eb IIC T5 Gb
Explosion protection (dust):	Ⓔⓧ II 2D Ex tb IIIC T95°C Db (IP66)

Mechanical Characteristics (CAM/TB)
	Stainless Steel (AISI 316L/1.4404), Polyester resin
Protection level (CAM/TB):	IP66/68, IP66 (IEC/EN 60529)
Weight:	ca.6.0 kg

Range of temperature
Type ...L.N:	-40°C bis +50°C	(T6)
Type ...LL.H:	-60°C bis +50°C	(T4)
Type ...L.HH:	-40°C bis +120°C**	(T3)

Camera power supply
	IEEE 802.3af/802.3at Type 2 Class 4, typical 12 W, max 13.5 W
Heater power supply	40W@24VDC@-60°C (see user manual)

Connection cable type
	WWW.SAMCON.EU ... Cat.6 / 4x2xAWG23/1 ...
Outside diameter:	8.7 mm - 17 mm

Lens
Type:	Varifocal, 4 – 84.6 mm, F1.6-F4.5, Autofocus, P-Iris control
Field of view:	HFoV: 76° – 3.6°, VFoW: 42° – 2.2°
Minimum object distance:	7 cm (wide); 95 cm (tele)
Minimum illumination:	Color: 0.1 lux at 50 IRE F1.5, B/W: 0.02 lux at 50 IRE F1.5, (25/30 fps with WDR and Lightfinder)
	Color: 0.2 lux at 50 IRE F1.5, B/W: 0.04 lux at 50 IRE F1.5, (50/60 fps with WDR and Lightfinder)

Camera
Image sensor:	1/2.8" progressive scan RGB CMOS
Shutter time:	1/66500 s to 2 s
Videocompression:	H.264 (MPEG-4 Part 10/AVC) Baseline, Main and High Profiles, H.265 (MPEG-H Part 2/HEVC) Main Profile, Motion JPEG
Resolution:	1920x1080 to 160x90
Frame rate:	Up to 60/50 fps (60/50 Hz) in all resolutions
Video streaming:	Multiple, individually configurable streams in H.264, H.265 and Motion JPEG
	Axis Zipstream technology in H.264 and H.265
	Controllable frame rate and bandwidth, VBR/ABR/MBR H.264/H.265
Image settings:	Saturation, contrast, brightness, sharpness, Forensic WDR (up to 120 dB depending on scene), white balance, day/night threshold, tone mapping, local contrast, electronic image stabilization (EIS), exposure mode, exposure zones, defogging, compression, dynamic text and image overlay, polygon privacy masks, mirroring of images, rotation: auto, 0°, 90°, 180°, 270° including Corridor Format
	Scene profiles: forensic, vivid, traffic overview
Pan/Tilt/Zoom:	Zoom: 21x optical, 100 preset positions, control queue, adjustable zoom speed, uploadable PTZ driver
Edge storage:	Support for microSD/microSDHC/microSDXC card (card not included); Recording to network-attached storage (NAS)

Network
Security:	Password protection, IP address filtering, HTTPS encryption, digest authentication, user access log, centralized certificate management, brute force delay protection, ...
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, etc...

System integration
Application programming interface:	Open API for software integration, including VAPIX® and AXIS Camera Application Platform; specifications at www.axis.com; One-click cloud connection; ONVIF® Profile M, ONVIF® Profile S, ONVIF® Profile T and ONVIF® Profile G, specification at onvif.org
Analytics included:	Deep Learning Processing Unit (DLPU), AXIS Object Analytics, AXIS Video Motion Detection, Support for AXIS Camera Application Platform enabling installation of third-party applications, see www.axis.com/acap
Event triggers:	Analytics, edge storage events, supervised external input, edge storage events, virtual inputs through API
Event actions:	Pre- and post-alarm video or image buffering, File upload: FTP, SFTP, HTTP, HTTPS, network share and email Notification: email, HTTP, HTTPS, TCP and SNMP trap
Data streaming:	Event data
Built-in installation aids:	Pixel counter, leveling guide, license plate capture assistant

Optional accessories
	Wall mount bracket, Pole mount bracket, Ceiling mount bracket, Non-armoured cable kits, armoured cable kits, ExConnection Rails, ...

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* = illustrations show models with accessories that are subjected to an extra charge
** = this model requires the SAMCON cool.Jacket. The temperature class must be reduced to T3.
*** = mining only for variants with armoured cable and plug termination
**** = Ex-marking depends on model: the temperature class has to be reduced to T4 for models LL.H.