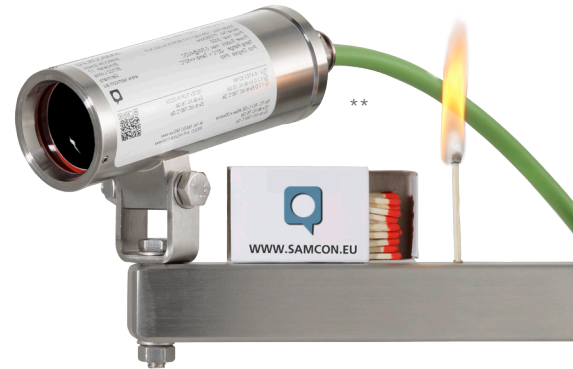# ExCam® IPP1280

Datasheet.

Ultra compact **ATEX, IECEx & EAC-Ex** certified thermal network camera

Features.

✓ Certification for **Hazardous Areas**
✓ **Ultra-Compact** and Leightweight Sensor Unit in Combination with a Main Unit
✓ **Thermal Technology for Low False Alarm Rate**
✓ **Single-Cable-Solution** (PoE)
✓ Protection Level of **IP68/IP66** (IEC 60529)
✓ Resolution Thermal: 208x156

**

Zones.

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

More certificates upon request

Distance Ranges [m].

Johnson's criteria (theoretical values)	Human 1.8 x 0.5 m	Vehicle 4 x 1.5 m
Detection (1.5 pixels on target)	166 - 182	511 - 559
Recognition (6 pixels on target)	41 - 45	127 - 139
Identification (12 pixels on target)	20 - 22	63 - 69

Information without liability - values may vary

Models.

T08- VA.0.1.K1.GER-   N.N- 005. N- X

P = Plug RJ12 cable connector*
TD = Ethernet connector in a junction box (Ex-d)

N = Non armoured cable

___ = Cable length (005 = standard, 025 = max.)

N = Max. temp. (T$_{amb}$ $\leq$ +60°C)

N = Min. temp.(T$_{amb}$ $\geq$ -30°C)

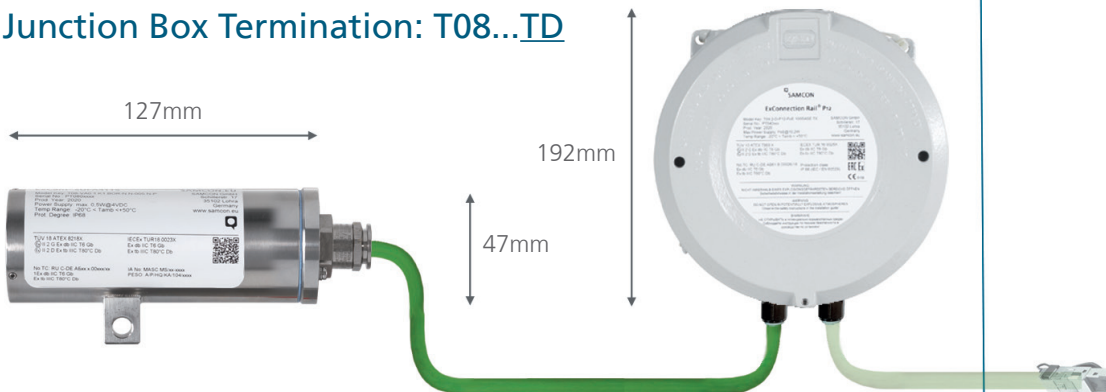VA0.1.K1.GER = Stainless steel housing 1.4404 with germanium sight glass

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

Model Variants.

Plug Termination: T08...P

Junction Box Termination: T08...TD

127mm

192mm

47mm

Data.

Explosion protection

Declaration of conformity:	DIN EN/IEC/GOST ... 60079-0,
	DIN EN/IEC/GOST ... 60079-1, DIN EN/IEC/GOST ... 60079-31
Ex- certificates Sensor Unit:	TUEV-18-ATEX-8218X, IECEx-TUR-18.0023X,
	No. TC RU C-DE.HA65.B.01652/22, TUEV-22-UKEX-7137X
Ex- certificates Main Unit (for T08...-TD):	TUEV-10-ATEX-7969X, IECEx-TUR-16.0025X,
	No. TC RU C-DE.АБ.61.B.00380/19

Ex- Marking Sensor Unit:
Explosion protection (gas):   II 2G Ex db IIC T6 Gb
Explosion protection (dust):   II 2D Ex tb IIIC T80°C Db
Ex- Marking Main Unit (T08...-TD):
Explosion protection (gas):   II 2G Ex d IIC T6 Gb
Explosion protection (dust):   II 2D Ex tb IIIC T80°C Db

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Mechanical characteristics:

Sensor Unit:	Stainless Steel (AISI 316L/1.4404)
Main Unit:	T08-...-TD: aluminium, kopper free and see water resistant
	T08-...-P: polycarbonat
Protection level (cam/ExConnection Rail):	IP68/IP66 (IEC/EN 60529)
Weight:	Sensor Unit: 0.7 kg
	Main Unit (T08-...-TD): 4 kg
	Main Unit (T08-...-P): 0.72 kg
Range of temperature:	Sensor Unit: -30°C to +60°C
	Main Unit: -20°C to +50°C
Power supply:	IEEE 802.3af/802.3at Type 1 Class 2 typical 2.5 W, max 4.0 W
Connection cable type:	WWW.SAMCON.EU ... Cat.6 / 4x2xAWG24/7 ...
Outside diameter:	8.7 mm*

Lens

Type:	Athermalized, 4 mm, F1.2
Field of view:	HFoV: 35.4° – 28°
Minimum object distance:	1 m

Camera

Image sensor:	Uncooled microbolometer
Resolution:	208x156 p, image scalable up to 640x480
Pixel size:	12 µm
Spectral range:	8 - 14 µm
Sensitivity:	NETD < 100 mK
Videocompression:	H.264 (MPEG-4 Part 10/AVC) Baseline, Main and High Profiles Motion JPEG
Frame rate:	Up to 8.3 fps
Video streaming:	Multiple, individually configurable streams in H.264 and Motion JPEG
	Axis Zipstream technology in H.264
	Controllable frame rate and bandwidth, VBR/MBR H.264
Image settings:	Saturation, contrast, brightness, sharpness, Forensic WDR, white balance,
	exposure mode, exposure zones, compression, mirroring of images,
	electronic image stabilization, barrel distortion correction,
	text and image overlay, dynamic text and image overlay, privacy masks,
	Rotation: 0°, 90°, 180°, 270° including Corridor Format
Edge storage:	microSD/SDHC/SDXC slot supporting memory card up to 64 GB (card not included);
	Support for recording to dedicated network-attached storage (NAS)

Network

	100BaseTX (from the Main Unit)
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), etc...

System integration

Application programming interface:	Open API for software integration, including VAPIX® and AXIS Camera
	Application Platform; specifications at www.axis.com;
	AXIS Video Hosting System (AVHS) with One-Click Connection; ONVIF® Profile S,
	ONVIF® Profile G and ONVIF® Profile T, specification at onvif.org
Analytics included:	AXIS Video Motion Detection, AXIS Guard Suite, AXIS Cross Line Detection Support
	for AXIS Camera Application Platform enabling installation of third-party applications,
	see www.axis.com/acap
Event triggers:	Analytics, hardware temperature, edge storage events, time scheduled, video motion
	detection, live stream accessed, edge storage events, virtual inputs through API
Event actions:	Pre- and post-alarm video buffering
	File upload: FTP, SFTP, HTTP, HTTPS, network share and email
	Notification: email, HTTP, HTTPS, TCP and SNMP trap
Data streaming:	Event data

Optional accessories:

Wall mount bracket (WMB), Pole mount bracket (PMB)

* = Cable is not longitudinal tight (see UM); Please observe the requirements of DIN/EN/IEC 60079-14.
** = Illustrations show models with accessories that are subjected to an extra charge