

RoughCam[®] IPP3827

User Manual



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1 Introduction

The RoughCam IPP3827 is a powerful multi-sensor camera with 7 MP resolution (3712 x 1856, 7MP@30fps) and 4 1/2.8" sensors for seamless 180° coverage. A panorama camera is particularly suitable for monitoring spacious terrains and large outdoor areas. The RoughCam IPP3827 enables seamless 180° horizontal and 90° vertical coverage. The individual images captured by the 4 sensors are merged into a seamless overall image, delivering real-time 180° images without blind spots with 7 MP resolution and a smooth, coherent video stream. Thanks to the lightfinder technology, you receive razor-sharp images even in demanding light conditions.

For further information, please visit our website at www.samcon.eu

In designing the RoughCam IPP3827, we attached a very high importance to safety, mechanical precision and high quality of stainless steel.

2 Technical data

2.1 Model variants

1) Product name	2) Type	3) Housing- (combination)	4) Temp.- range	5) Cable length [m] Cable type	6) Termination
RoughCam IPP3827	T10-	VA4.1K.PS1-	LL.H-	005.N-	P
	T10-	VA4.1K.PS1-	LL.H-	005.N-	T
	T10-	VA4.1K.PS1-	LL.H-	005.A-	P
	T10-	VA4.1K.PS1-	LL.H-	005.A-	T
	T10-	VA4.1K.PS1-	LL.H-	000.X -	X

Tab.2-1 Model key

Description:

- 1) **RoughCam IPP3827** = Functional description of the camera of the RoughCam Series (technical data/ specification of the camera module)
- 2) **T10** = SAMCON production- type 10 (cameras for safe areas)
- 3) **VA4.1K.PS1** = Housing combination (Edelstahl 1.4404) with large diameter $\varnothing_{VA4}=216\text{mm}$
VA4.1K.PS1 = T11 VA4.1K housing with short body length ($L_R = 145\text{mm}$),
 Without cable- and supply flange
VA4.1K.PS1 = Housing with thermoplastic dome
- 4) **LL.H** = High temperature ($T_{amb} < +60^\circ\text{C}$)
LL.H = Low low temperatures ($T_{amb} > -50^\circ\text{C}$)
- 5) **005.N** = Length of connection cable in meters at delivery; 5m is standard,
 max. cable length is: 005...100 [m]
005.N = Non armoured cable
005.A = Armoured cable
000.X = Without cable

- 6) **P** = Plug- termination (Standard)
 CAT6, RJ-45 network plug (heavy duty), AWG 26-22,
 Pin assignment acc. specification EIA/TIA-568B
- T** = Terminal Box - termination (Optional)
 4 x PoE Mode A connection (Camera PoE)
 (see electrical connection)
- X** = Electrical connection via flipConnect

2.2 Electrical parameters of the camera

PoE Power input camera:

Power supply:	PoE, IEEE 802.3at Type 2 Class 4
Reference voltage:	48 VDC (44...54 VDC)
Maximum power consumption:	18 W
Typical power consumption:	12 W

2.3 Connection cable (SKD02-T/ASKD02-T)

Description:	Data transfer and power supply of the camera module (compliant with DIN EN 60079-14)
Jacket colour:	Green (GN), similar to RAL3001

Systemcable SKD02-T:

Outside diameter:	8.9 ± 0.3 mm
Bending radius:	8 x D _a when installed and 4 x D _a after relocation
Data line:	4 x 2 x AWG23/1 CAT.6
Properties:	PUR halogen-free, flame-retardant, UV-resistant, chemical resistance, shielded (see www.samcon.eu)

Quick link:

https://www.samcon.eu/fileadmin/documents/en/60-Assembling%26mounting/SKD02-T_Datasheet.pdf

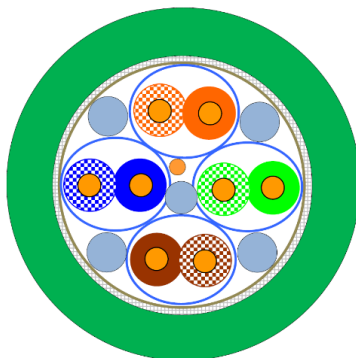


Fig. 2-1 Sectional view of SKD02-T

Systemcable ASKD02-T:

Outside diameter:	12.0 ± 0.4 mm
Bending radius:	20 x D _a when installed and 10 x D _a after relocation
Data line:	4 x 2 x AWG23/1 CAT.6
Properties:	PUR halogen-free, flame-retardant, UV-resistant, chemical resistance, shielded (see www.samcon.eu)

Quicklink:

https://www.samcon.eu/fileadmin/documents/en/60-Assembling%26mounting/ASKD02-T_Datasheet.pdf

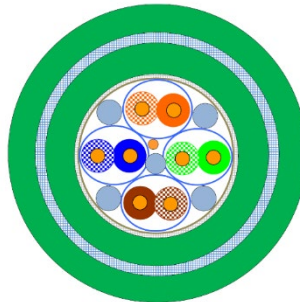


Figure 2-2 Sectional view of ASKD02-T

2.4 Video-technical characteristics

We use the AXIS P3827 Multisensor Camera in the enclosure. For details, please refer to the Product Documentation, video-technical data of AXIS®:

<https://www.axis.com/products/axis-p3827-pve>



2.5 Other technical data

	Camera
Permissible ambient temperature	-50°C ... +60°C
Transport/storage temperature	-40°C ... +65°C
Protection class as per EN 60529/IEC 529	IP66/68 (Test conditions: 24h/3m water column 5°C)
Housing material	Stainless steel, mat. no. 1.4404
Weight	15 kg
Dimensions	D216mm x 236mm

Tab. 2-1 Other technical data

3 Safety Instructions

Please observe the national safety regulations and regulations for prevention of accidents, as well as to the safety instructions given below in this User Manual!



Attention!

Repairs may only be carried out by using original parts from the manufacturer.



Attention!

Prior to installation, take external sources of heat or cold into account! The temperature ranges prescribed for storage, transport and operating must be adhered to!

4 Installation

For commissioning and operating the camera, the relevant national regulations, as well as the generally accepted rules of technology shall prevail. Before mounting the camera, thoroughly check it for any transport damage, especially on the housing and cable. Installation, electrical connection and the first start must only be carried out by qualified specialists.

Work preparation:



Attention!

Prepare your work carefully and in accordance with the relevant regulations.

To ensure the best image quality delivered by the network camera, plan the installation site carefully (consider light conditions, object distance or size, angle and minimum object distance to the focus).

- Use appropriate tools and aids.
- When working, ensure a safe stand.
- Make sure that any static charge is avoided.



Attention!

Please observe the national security, installation and accident prevention regulations and the safety instructions in this User Manual!

The RoughCam® IPP3827 consists of a tough camera housing. This is equipped optionally (models with a terminal box ...-T), a terminal box. Both units are connected via a reinforced 5 m cable. Or it is equipped with the flipConnect for electrical connection. Mount the camera

according to the desired field of view and so that a good accessibility is provided, in order to facilitate electrical connection.



Attention!

Please pay attention to the national and local regulations for mounting heavy loads. In case of doubt, take appropriate security measures.



Attention!

Always mount the camera using the appropriate screws (5 screws in accordance with DIN 6921 M8-A4-70 or ISO 4017 M8-A4-70/DIN 933 M8-A4-70) and the correct torque.

Drawings for drill hole patterns and further information can be viewed on our product page:

Quick link:

<https://www.samcon.eu/en/products/roughcam/roughcam-ipp3827/>



Option mounting accessories

Wall bracket WMB-...		<p>WALL MOUNT WMB VA4.X Wall bracket for the T10 / VA4.X series Suitable for hanging the camera on walls. The scope of delivery includes a protective cover for the wall bracket. Material: stainless steel 1.4404 Load bearing: 45 kg Dimensions: 460 x 140 x 220 mm</p>
Pole adapter PMB-...		<p>POLE MOUNT PMB VA4.X Pole adapter for wall mount for the T10 / VA4.X series Material: stainless steel 1.4404 Suitable for pole diameters between 110 and 150 mm Load-bearing capacity: 50 kg</p>
Wall-/Ceiling adapter CMB-...		<p>CEILING MOUNT CMB VA4.X Pole adapter for ceiling mount for the T10 / VA4.X series Suitable also for horizontal mounting Material: stainless steel 1.4404 Load-bearing capacity: 50 kg</p>

Tab. 4-1 Mounting accessories

5 Electrical connection



Attention!

The electrical connection of the equipment may only be carried out by qualified and skilled personnel!



Attention!

It is absolutely necessary to ground the RoughCam® series' housing via the PA connection.

The RoughCam® IPP3827 is equipped with an electrical connection cable of the type (A)SKD02-T (models ...-P/T) or optionally with a flipConnect for the electrical connection. The maximum transmission range from the camera to the next active network interface is 100 meters and can be individually specified by the client. The user is NOT authorised to do electrical connection procedures inside the enclosure.

5.1 Equipotential bonding/Grounding

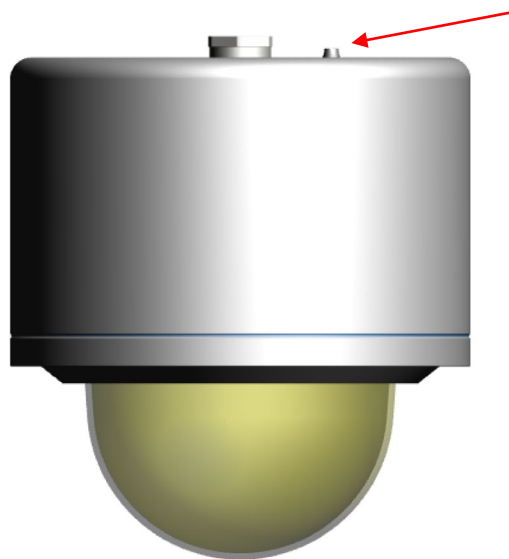


Figure 5-1 RoughCam IPP3827 equipotential bonding

Equipotential bonding/grounding of the camera body is absolutely necessary, in order to avoid static charges and formation of sparks. For this purpose, a screw terminal is provided at the rear side, at the bottom (right) (see Figure 5.1). The cross-section of the equipotential bonding should comply with the National Ground Rules (at least 4 mm²).

Wiring table:

Potential	Colour (IEC 60757)	Cross-section	Comment
PA	GN/YE	4 mm ² (rigid)	Terminal: Slotted screw M4x0.7 (DIN 84) with washer Ø9mm (DIN 125A), Keep 3 Nm tightening torque!

Tab. 5-1 Potential equalization

5.2 Connection work at the device

Power supply for the camera (PoE)

Voltage supply:	PoE, IEEE /802.3at type 2 class 4
Reference voltage:	+48 V DC (44...54 V DC)
Maximum power consumption:	18 W
Typical power consumption:	12 W

Potential cable terminations of the RoughCam IPP3827 are: terminal box, plug or flipConnect.

5.2.1 Connection work at the junction box

Video Tutorial:

Observe our video tutorial:

“SAMCON 01 Wiring the cable SKDP03-T to the junction box ExTB-3”
<https://go.samcon.eu/v01>



Figure 5-2 Video Tutorial connection work on device

The pin assignment of the SKD02-T is executed in accordance with the standard EIA/TIA-568B for 100BaseTX as follows:

Camera (T568B)	Colour SKD02-T (IEC60757)	Terminal	Cross-sectional surface	Comment
Tx+	WH / OG	1	0.32 mm ²	Solid conductor
Tx-	OG	2	0.32 mm ²	Solid conductor
Rx+	WH / GN	3	0.32 mm ²	Solid conductor
Rx-	GN	4	0.32 mm ²	Solid conductor
(PoE +48 VDC)	WH / BU	5	0.32 mm ²	Solid conductor
(PoE +48 VDC)	BU	6	0.32 mm ²	Solid conductor
(PoE GND)	WH / BN	7	0.32 mm ²	Solid conductor
(PoE GND)	BN	8	0.32 mm ²	Solid conductor
GND/SHD	YE / GN	PE	2.5 mm ²	Flex

Tab. 5-2 Wire assignment of terminal box (SKD02-T)

The pin assignment of the ASKD02-T is executed in accordance with the standard EIA/TIA-568B for 100BaseTX as follows:

Camera (T568B)	Colour ASKD02-T (IEC60757)	Terminal	Cross-sectional surface	Comment
Reinforcement	YE / GN	PE	2.5 mm ²	Flex
Tx+	WH / OG	1	0.26 mm ²	Solid conductor
Tx-	OG	2	0.26 mm ²	Solid conductor
Rx+	WH / GN	3	0.26 mm ²	Solid conductor
Rx-	GN	4	0.26 mm ²	Solid conductor
(PoE +48 VDC)	WH / BU	5	0.26 mm ²	Solid conductor
(PoE +48 VDC)	BU	6	0.26 mm ²	Solid conductor
(PoE GND)	WH / BN	7	0.26 mm ²	Solid conductor
(PoE GND)	BN	8	0.26 mm ²	Solid conductor
GND/SHD	YE / GN	PE	2.5 mm ²	Flex

Tab. 5-3 Wire assignment of terminal box (ASKD02-T)

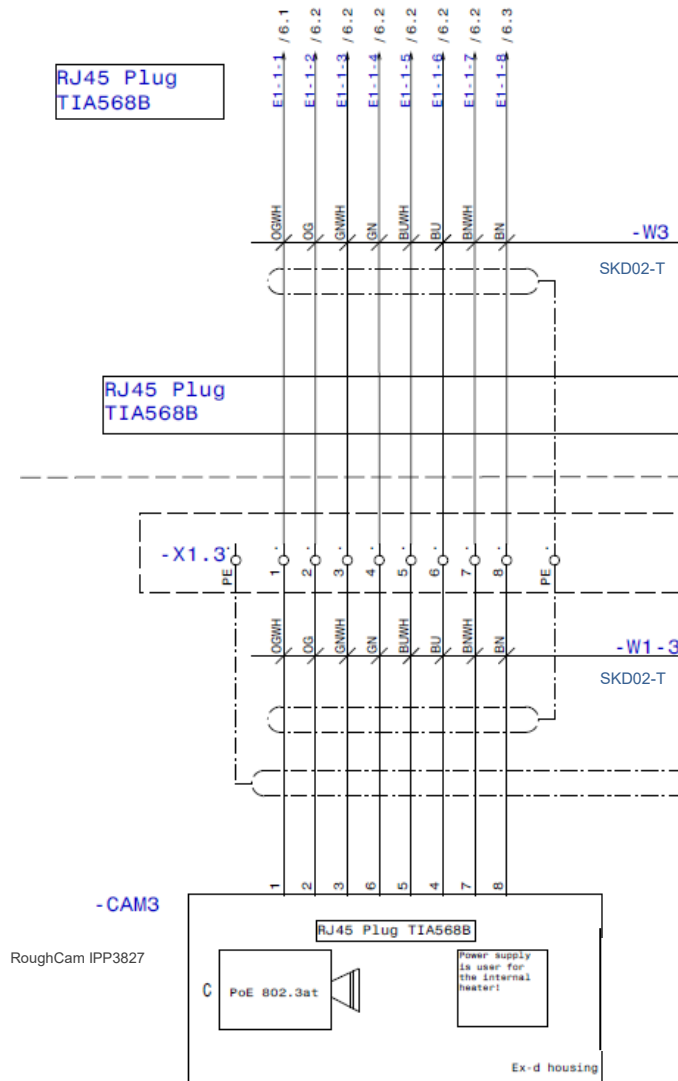


Figure 5-3 Sample circuit of terminal box



Attention!

Introduce the foiling up to about 15 mm close to the terminals, in order to prevent alien crosstalk. Make sure that the foiling cannot cause any short circuit of the data pairs!



Attention!

Bring the twisted pair composite up to about 10 mm close to the terminals, in order to ensure interference immunity.



Attention!

Use only terminals approved by SAMCON.



Attention!

Finally, check your network installation with a Class-D Link Test.

5.2.2 Plug assignments (RJ45)

The data transfer of the RoughCam IPP3827 uses a 100 Mbit/s Ethernet connection (100BASE-TX). If the cable termination uses a plug, the latter should be plugged into the RJ45 PoE slot of the network device (PSE). Prior to connecting it to the camera, the network device (PSE) can already be supplied with power, hence there is no „power ON“ priority which has to be observed.



Attention!

Use appropriate RJ45 plugs! Check the cable shielding, cross-section and the outside diameter!



Attention!

It is imperative to ensure a correct routing of the individual wires according to the EIA/TIA-568B”



Attention!

Finally, check your network installation with a Class-D Link Test.

Detailed instructions on how to connect a RJ45 plug are available in our video tutorial: “SAMCON 03 Mounting and installing the RJ45 jack to SAMCON cables”
<https://go.samcon.eu/v03>



Figure 5-4 Plug assignment RJ45

5.2.3 Connection work at the device via flipConnect

We show the procedures of electrical connection via flipConnect in the following video tutorial

“Plug & Play Cable Connection via flipConnect”

<https://go.samcon.eu/flipconnect>

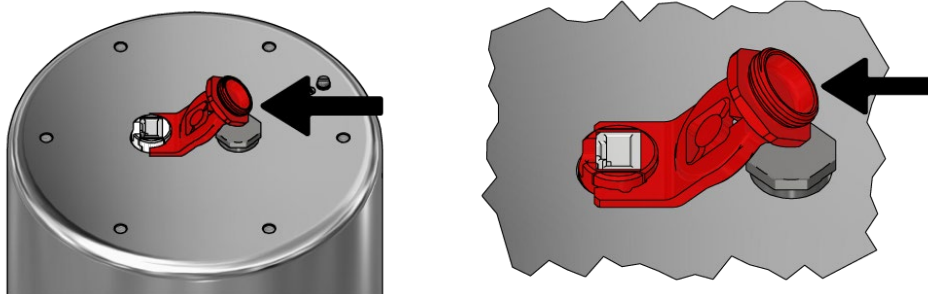


Figure 5-5 Connection via flipConnect

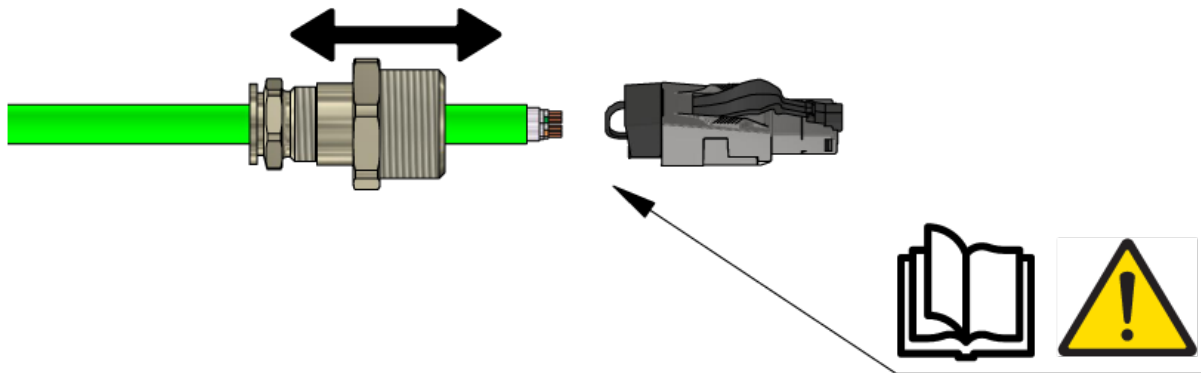
Unscrew the red blind plug (with integrated auxiliary tool) from the housing and **keep it save**.



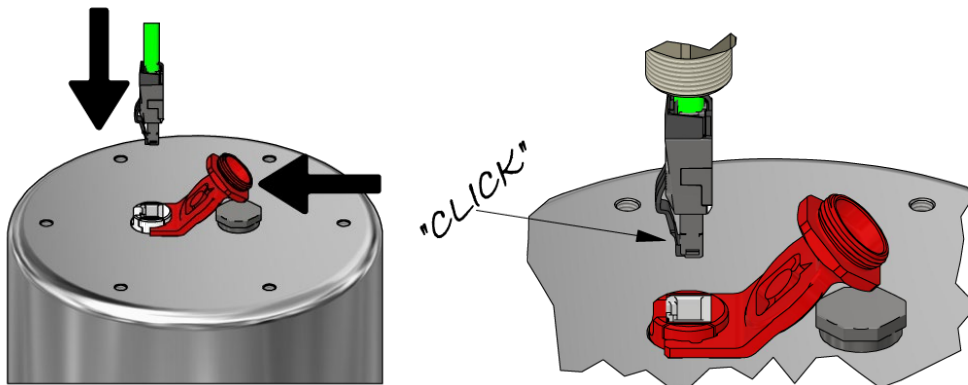
Fixate the RJ45 socket as shown in the figure below.



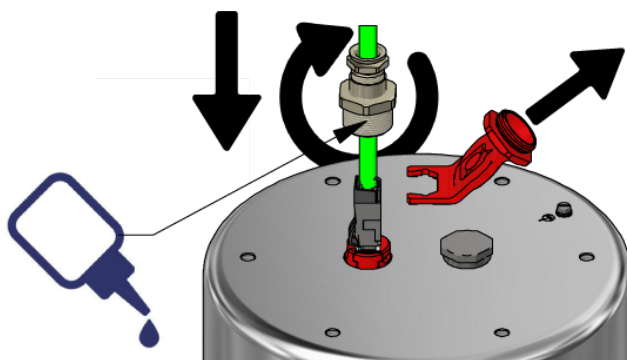
Choose a suitable cable and cable gland (e.g. the provided). Put the gland over the cable. Caution: the selected plug must be of the same length or shorter than the supplied one. Follow the respective instructions of the components.



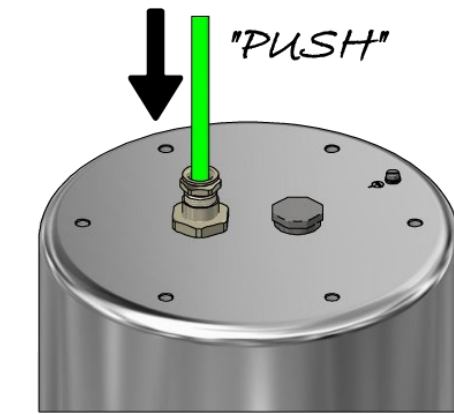
Plug in the RJ45 plug with the cable pigtail into the socket until the lock engages.



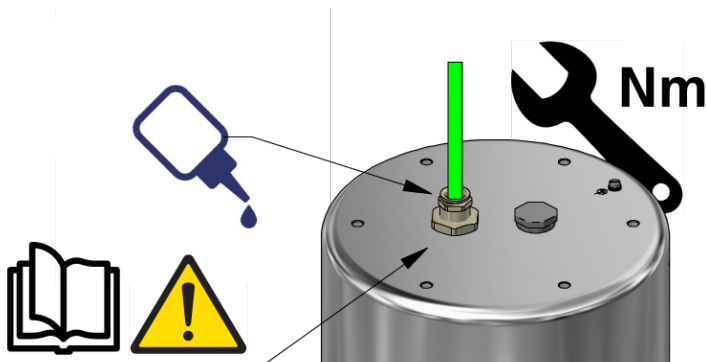
Remove the auxiliary tool and apply glue to the gland's inner thread. Then screw the gland into the housing. Attention, the cable is still movable and the gland's outer ring open.



Push the cable down.



Fasten the cable gland's outer ring. Use Loctite and refer to the operating instructions of the selected gland in order to observe the appropriate fastening torques.



Done.



Attention!

Use appropriate RJ45 plug! Pay attention to shielding, cross-section and outer diameter of the cable!

If RoughCam IPP3827 is delivered **without** cable and gland the electrical connection is made via RJ45 network socket in the housing through M25 entry (flipConnect).

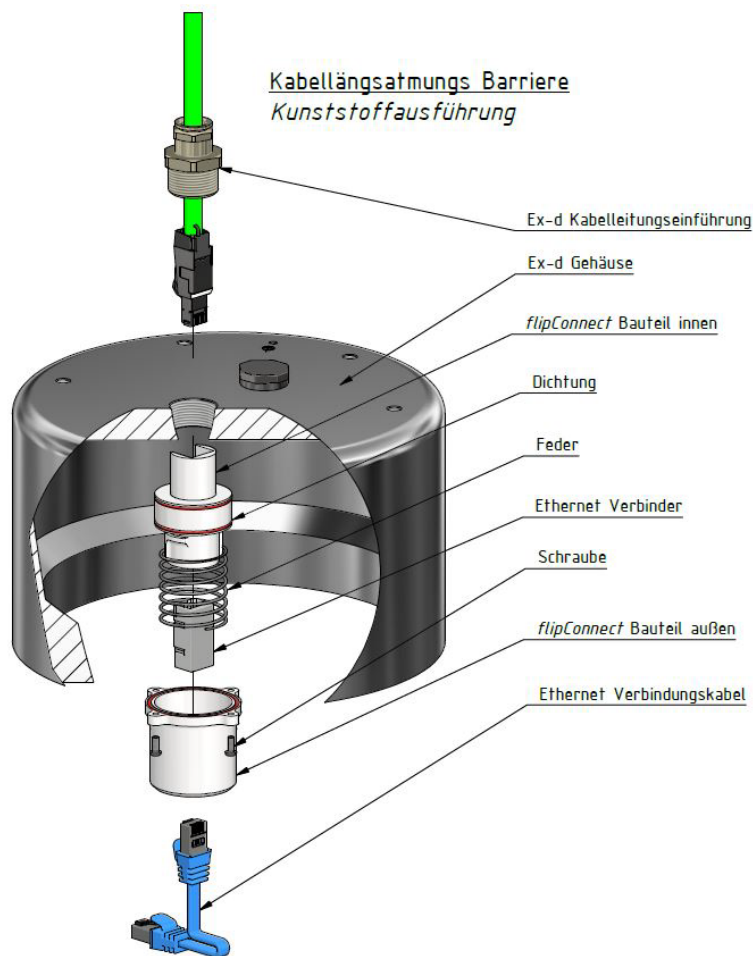


Figure 5-7 Sketch „flipConnect“

Furthermore, all cable - gland combinations recommended by the manufacturer for the device are listed below:

No.:	System cable:	KLE:
1	SKD02	Capri ADE-1F2 no.5
2	SKDP03-T	Capri ADE-1F2 no.6
3	SKD04-T.flex	Capri ADE-1F2 no.5
5	ASKD02-T	Capri ADE-4F no.6
6	ASKDP03-T	Capri ADE-4F no.7

5.3 Tests prior to switching on voltage



Attention!

Prior to commissioning, all tests as indicated by the national regulations have to be executed. Furthermore, the correct function and installation of the device has to be checked in accordance with this user manual and other applicable regulations.



Attention!

Incorrect installation and operation of the camera may lead to a loss of warranty!



Attention!

Do not switch on the camera at temperatures below 0°C!

6 Working inside the camera housing

Opening the T10-VA4.1K.PS1 housing is only intended by the customer to adjust the camera position, exchange the memory card or for hardware reset. If you think that the housing has to be opened for unforeseeable reasons, please contact our support team at first (Support@samcon.eu).

6.1 Opening and closing the housing

- Remove or loosen the bolted connections of the camera housing flange and body.
- Use only appropriate tools and pay attention to the respective spring rings (DIN 127A).
- Caution: Avoid any contact of the screw thread with skin and/or clothes! The screw threads are covered with LOCTITE® 243™ (chemical basis is dimethacrylate ester). This is to prevent the bolted connection from unintentional loosening because of impacts and vibrations and for sealing purposes.

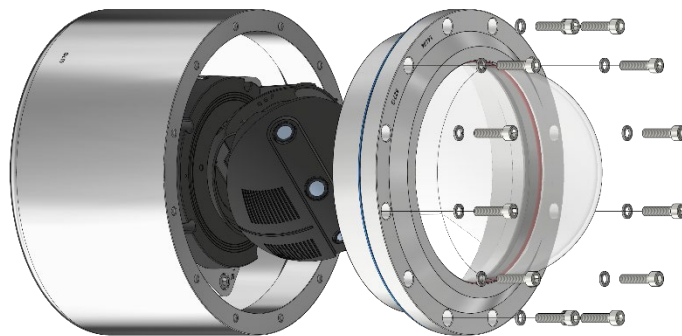


Figure 6-1 Opening the RoughCam T10-VA4.1K.PS1

- Carefully pull out the dome flange strictly vertically/perpendicularly (see Figure 6-1). There is a risk of side tilt! Because of negative pressure it may be difficult to remove.
- The circular cylindrical clearance fit H8f7 or H8G7 (in accordance with ISO 286) of the camera body and flange must not be tilted!
- Caution: Avoid any contact of the screw thread with skin and clothes! There is oil lubricating paste applied.
- Attention: Use particular care when dealing with installed components (camera module, optics, temperature control, electronics, etc.) which are fixated above the mounting adapter on the cable and supply flange (cable gland). Risk of damage!

- Attention: When removing the flange, ensure that the Gylon flat gasket (Style 3504, blue) does not get damaged or dirty!
- After the completion of the work at the components which are installed inside the camera, immediately re-close the housing. Ensure that no foreign objects and particles are enclosed in the housing!
- For closing the housing, follow the instructions for opening the housing in reversed order. Please observe the following safety warnings:



Attention!
Insert the flange to reach the end position



Attention!
If the bolted connections are tightened too strongly, it can cause damages to the device!



Attention!
Be careful not to damage the housing seals and keep them clean.



Attention!
Ensure that no foreign objects are entrapped in the housing.

- Exclusively use undamaged and clean **original screws** included in the supply. The dismantled screw locks (spring washers DIN 127A) must be used again.
- The Gylon gasket must be used in undamaged condition, according to the flange hole pattern. The surface orientation is arbitrary.
- If, when closing the housing, you notice that the surface of the fitting gap is dirty or insufficiently lubricated, clean it with a clean cloth and suitable cleaning agent (e.g. concentrated isopropyl alcohol) and then grease it with lubricant which is suitable for this specific application.
- The **M6 screwed connections** of the **VA4.x** flange and body components must always be tightened *crosswise* with a torque of **9.0 Nm!**
Do not tighten the screws too strongly! It can cause rupture of the cylinder head.

6.2 Adjusting the camera position

The camera position could be adjusted manually in the following ways.

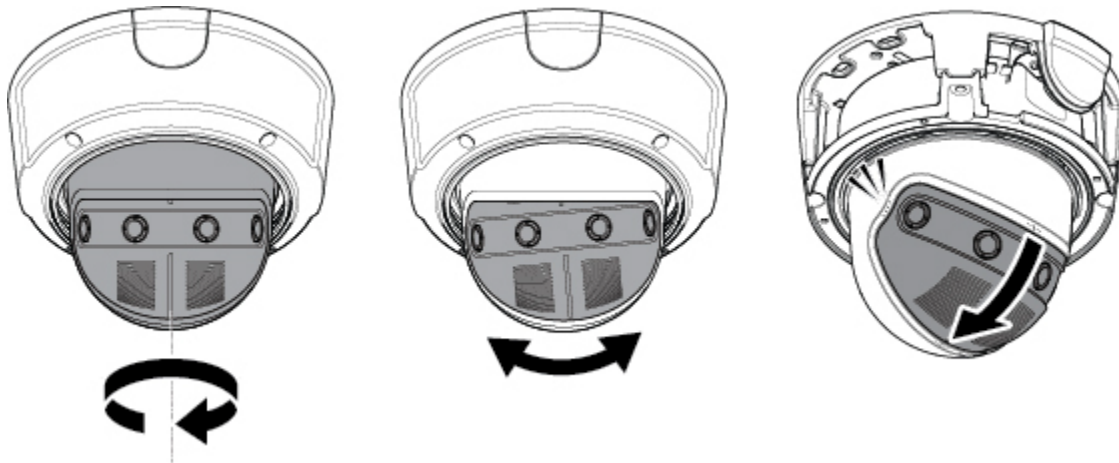


Figure 6-2 Adjusting camera position

Manual turning $\pm 5^\circ$, manual panning $\pm 180^\circ$, manual tilting 0° up to 50°

6.3 Removing / inserting a SD memory card

The RoughCam IPP3827 has a slot for a micro SDHC memory card (card not included). Saved video files can be played and deleted via the web interface. They are also available in a download list. Moreover, the videos available in the memory card can also be accessed via FTP server in the network.

If the memory card has to be replaced by the user, it should be, as far as possible, empty and pre-formatted with an ext4 or vFAT file system.



When touching electrical components, observe potential equalization (grounding of the body): carry electrostatic-discharge clothes, a PE wristband etc.!

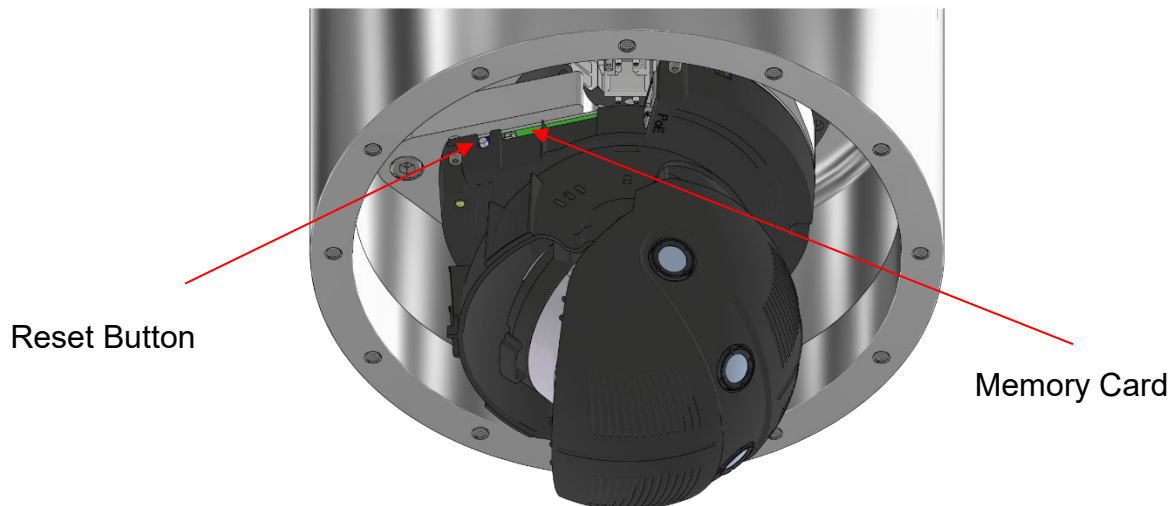


Figure 6-3 Reset Button / Memory Card

6.4 Hardware Reset

To set all the parameters of the RoughCam IPP3827 (including the IP address) to default values, you should run a hardware reset.

The parameters can be reset via the web interface or manually. If the camera placed in the network can no longer be reached or its state is uncontrollable, the reset should be performed manually. To do so, proceed as follows:

1. Disconnect the camera installation module (Axis P3827) from the power supply.
2. Press and hold the control button (see the illustration below) and, at the same time, connect the system to the voltage supply (PoE).
3. Hold the control button pressed for about 30 seconds.
4. Release the control button. After about a minute, the AXIS P3827 will return to factory defaults. If there is a DHCP server in the network, the IP address will be the following: 192.168.0.90 (subnet masking 255.255.255.0).
5. IP address and password can be redefined. If the hardware reset is not satisfactory or the network camera shows serious conflicts or does not work as usual (errors in the browser visualisation, frozen images, control commands no longer processed, slowing down of the system, etc.), it may be necessary to re-install the current firmware, or to install an update (see Chapter 7).

7 Network access and visualization

The most important procedures of the first starting up the camera are described below. The configuration menu of the web surface allows an intuitive navigation and offers several configuration possibilities. For detailed documentation and information how to use the web interface, please see the User Manual for Axis or visit the following website:

<https://help.axis.com/axis-p3827-pve>



At delivery, the RoughCam IPP3827 is set to the applicable net frequency (50Hz or 60Hz). If the camera is used at a location with a differing net frequency, a flickering of the picture might be noticeable, particularly in surroundings with fluorescent tubes. In such a case, the applicable settings have to be carried out within the menu “System Options > Advanced > Plain Config”.

User: root
Password: root

7.1 Browser Support

A list of the currently supported web browsers, operating systems, required add-ons, etc. can be viewed at:

<https://help.axis.com/access-your-device>
<https://www.axis.com/support>



7.2 Assigning the IP address

The RoughCam IPP3827 is intended for use in an Ethernet network and requires an IP address to access and control it. In the most today's networks, a DHCP server is integrated. This server automatically assigns an IP address.

<https://www.axis.com/support/tools/axis-ip-utility>

If there is no DHCP server available in the network, the RoughCam IPP3827 IP's default address is “**192.168.0.90**” (subnet masking **255.255.255.0**).

With the AXIS IP Utility, it is possible to determine the IP address under Windows.



In case it is not possible to assign the IP address, it might be necessary to change the firewall settings!

The "AXIS IP Utility" tool automatically recognizes all RoughCam devices and visualises them in the device list. It can also be used to manually assign a static IP address. For this purpose, the RoughCam IPP3827 network camera has to be installed in the same physical network segment (physical subnet) as the computer on which the AXIS IP Utility is running. The network signature of RoughCam IPP3827 is "AXIS P3827". MAC address and serial number for clear device identification are also detected and displayed.

7.3 Password/ Identification

The following user name is set at the factory: **root**

The following password is set at the factory: **root**

8 Cleaning the dome

It is best to clean the dome only with warm water. In any case, use a soft, damp cloth to avoid the risk of static electricity! The UV protective coating of the dome must not be damaged. Scratches must be avoided!

9 Maintenance/ Modification

The required maintenance intervals are specific to the individual devices. The operating company has to determine these intervals depending on the application parameters. If maintenance measures are necessary they have to be initiated and/or executed. Repairs may only be carried out with original parts of SAMCON Prozessleittechnik GmbH. If in doubt, send the part in question back to SAMCON Prozessleittechnik GmbH. Rebuilding of or alterations to the devices are not permitted.

10 Disposal/ Recycling

When disposing of the device, nationally applicable regulations must be observed.

This Document is subject to alterations and additions.

11 Drawings & 3D models

All drawings, 3D models and other information are available in the download area of the product page on our website:

<https://www.samcon.eu/en/products/roughcam/roughcam-ipp3827/>

Robust Cameras (non-ex)

- RoughCam miniTube
- RoughCam e.Vario
- RoughCam microTube IP
- RoughCam miniTube IP
- RoughCam IPM1137
- RoughCam IPM1137-LE
- RoughCam IPM2036
- RoughCam IPP1275
- RoughCam IPP1387
- RoughCam IPQ1656 (DLPU)
- RoughCam IPQ1715
- RoughCam IPQ1785
- RoughCam IPP3827 (panorama)**
- RoughCam IPQ3628 (PTRZ)
- RoughCam IPP5655 MKII
- RoughCam IPP1280 (thermal)
- Your Individual Camera (BTO)
- Ex Luminaires
- Robust Luminaires
- Ex-d Camera Enclosures
- Connection Systems
- Cables for Ex-Areas
- Mounting Systems
- Wash and Wipe Equipment
- Software

Downloads:

- [Datasheet](#)
- [3D-Model](#)
- [Usermanual](#)
- [CAD-files \(DXF\)](#)
- [Drawing](#)
- [Dec. of Conformity](#)
- [Optical-Quality-Test](#)

Pictures:

RoughCam[®] IPP3827

Keep an eye on the big picture: 180° panoramic view network camera with 7MP resolution

The RoughCam IPP3827 is a powerful multi-sensor camera, particularly suitable for use in potentially explosive areas. It offers 7MP resolution (3712 x 1856, 7 MP@30fps) and 4 1/2.8" sensors for seamless 180° coverage. More information can be found in the download area.

Features.

- 180° Panoramic View, 90° Vertical Coverage
- Seamless Image Composition of 4x 1/2.8" Sensors
- High Resolution: 3712x1856 (7MP@30fps)
- New Dome with optimized Scratch and UV resistance
- Protection Level of IP66/68 (IEC 60529)
- Lightfinder Technologies and Forensic WDR
- Advanced Analytics thanks to Deep Learning Processing Unit (DLPU)
- Plug & Play Cable Connection via flipConnect (optional)
- [Extensive Accessories](#)

Robust IP panorama camera

During the development of the RoughCam IPP3827, great importance was attached to safety, mechanical precision and high-quality stainless steel. In addition, a modular structure was at the forefront of the development. With regard to the technical characteristics, we have gone to the limits of what is feasible: In areas such as media resistance and ambient temperature, we are setting standards with the RoughCam series.

For a complete overview with just one 180° surveillance camera

A panorama camera is particularly suitable for monitoring large areas and large outdoor areas. The multi-sensory camera enables seamless 180° horizontal and 90° vertical coverage. This is possible thanks to the 4 sensors. The individual images captured by the 4 sensors are stitched together to form a seamless overall image, delivering real-time 180° images with HD resolution, with no blind spots, and a smooth, coherent video stream.

See more with just one camera - One camera instead of many

Quick Installation and Wiring - One camera installation

Because only one camera needs to be connected instead of many, installation costs are reduced. Thanks to Power over Ethernet (PoE), data and power supply can be routed in one cable. This means that only a PoE switch or a PoE midspan is required for the connection in the safe area. For the electrical connection via flipConnect please observe our [video tutorial](#). The camera is powered by Power over Ethernet (PoE according to IEEE 802.3at) via the network, eliminating the need for a costly installation of a separate power supply line.

Low video management system costs

The RoughCam IPP3827 combines the images from 4 sensors, but counts as a single camera for the video management software. This reduces the system costs. Thanks to H.264/H.265 Zippstream technology, the bandwidth and storage requirements are low and so are the costs for managing HD images and videos.

If you wish additional technical information, please contact us at:

support@samcon.eu

12 Notes



SAMCON

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