

RoughCam[®] IPP5655 MKII

User Manual



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1 Introduction

The RoughCam IPP5655 MKII is a powerful IP dome camera of the latest generation, with 2-megapixel resolution at 1920x1080p points. This dome camera can endlessly rotate around its own axis. This is done with a high speed and precision.

To see other Information, please visit our website at www.samcon.eu

In designing the RoughCam IPP5655 MKII, 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]	6) Cable termin.
RoughCam IPP5655 MKII	T10-	VA4.1K.PS1-	L.H-	005.N-	P-
	T10-	VA4.1K.PS1--	L.H-	005.N-	T-
	T10-	VA4.1K.PS1-	L.H-	005.A-	P-
	T10-	VA4.1K.PS1-	L.H-	005.A-	T-

Tab. 2-1 Model key

Explanations:

- 1) **RoughCam IPP5655 MKII=** Functional camera description of the RoughCam Series
(technical data/specification of the individual camera module)

- 2) **T10 =** SAMCON Production- Type 10

- 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) **L.H =** Normal ambient temperature range ($T_{amb} \geq -30^{\circ}\text{C}$)
L.H= High temperature battery installed ($T_{amb} \leq +60^{\circ}\text{C}$)

- 5) **005.N =** Length of the connection line in meter at delivery; 5m is the
standard cable length, max. cable length is: 005...100 [m]
005.N = Non armoured cable
005.A = Armoured cable

- 6) **P =** Plug- termination (standard)
CAT6, RJ-45 network plug (heavy duty), AWG 26-22,
contact assignment acc. To specification EIA/TIA-568B
T = Terminal Box termination (optional)
4 x PoE Mode A connection (camera PoE)

2.2 Electrical parameters of the camera

PoE+ Power input:

Permissible temperature range:	$-30^{\circ}\text{C} < T_{\text{amb}} < +60^{\circ}\text{C}$
Power supply:	PoE+, IEEE 802.3at class 4
Reference voltage:	48 VDC (44...54 VDC)
Maximum power consumption:	19 W
Typical power consumption:	10.5 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 RAL6018

Systemcable SKD02-T:

Outside diameter:	$8.9 \pm 0.3 \text{ mm}$
Bending radius:	$8 \times D_a$ when installed and $4 \times D_a$ 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

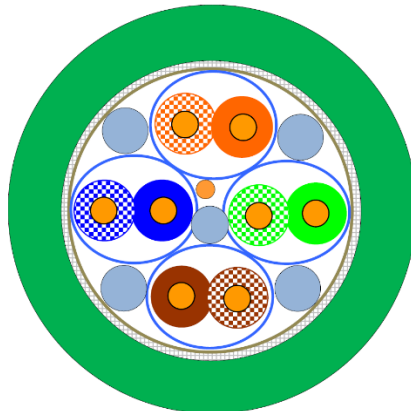


Fig. 2-1 Sectional view of SKD02-T

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

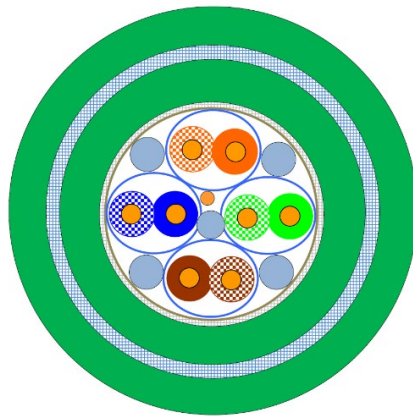


Fig. 2-2 Sectional view of ASKD02-T

2.4 Video-technical characteristics

We use the AXIS P5655 Dome Camera in the enclosure. For details, please refer to the Product Documentation, video-technical data of AXIS®:

<http://www.axis.com/products/axis-p5655-e>



2.5 Other technical data

	Camera	Terminal box
Permissible ambient temperature	-30°C ... +60°C (for PoE+ power supply)	-60°C ... +55°C
Protection class as per EN 60529/IEC 529	IP68 (Test conditions: 24h/3m water column 5°C°)	IP66
Housing material	- stainless steel, mat. no. 1.4404	polyester resin
Weight	about 15.5 kg	about 1 kg
Dimensions	D216mm x 236mm	145mm x 145mm x 71mm

Tab. 2-2 Other technical data

3 Safety Instructions

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



Attention!

Only original parts of SAMCON Prozessleittechnik GmbH may be used for repairs.



Attention!

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

4 Installation

For erecting 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 regarding the housing and the cable. Installation, electrical connection and the commissioning 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 pay attention to the national security, installation and accident prevention regulations and the safety instructions given below in this User Manual, as well as the ones in the Installation Guidelines!

RoughCam® IPP5655 MKII consists of a camera housing and optionally (models with a terminal box ...-T), a terminal box. Both areas are separated by a reinforced 5 m line. Mount the camera as high as possible, according to the desired field of view. Install the connection chamber 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 according to 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-ipp5655-mkii/>



Option mounting accessories

<p>Wall bracket WMB-...</p>		<p>WALL MOUNT WMB V4.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>
<p>Pole adapter PMB-...</p>		<p>POLE MOUNT PMB V4.X T10 / VA4.X pole adapter for wall mount Material: stainless steel 1.4404 Suitable for pole diameters between 110 and 150 mm Load-bearing capacity: 50 kg</p>
<p>Wall-/Ceiling adapter CMB-...</p>		<p>CEILING MOUNT CMB V4.X T10 / VA4.X pole adapter for ceiling mount 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 must only be carried out by officially qualified and skilled personnel!



Attention!

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

The RoughCam® IPP5655 MKII is equipped with an electrical connection cable of the type (A)SKD02-T and optionally, a pre-assembled and pre-wired terminal box. 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 any electrical connection procedures inside the enclosure.

5.1 Equipotential bonding/Grounding

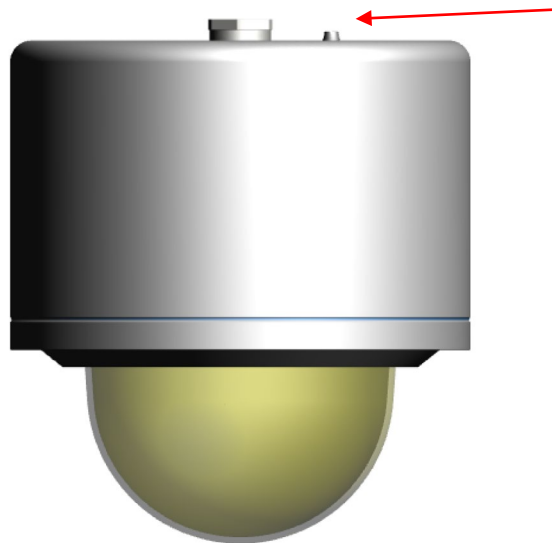


Fig. 5-1 RoughCam IPP5655 MKII equipotential bonding

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 Equipotential Bonding

5.2 Connection work on 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:	19 W
Typical power consumption:	10.5 W

Potential cable terminations are: terminal box or plug.

5.2.1 Connection work at the terminal box

Video Tutorial:

Observe our video tutorial:

“SAMCON 01 Installation and Wiring Connection to ExTB-3”

<https://go.samcon.eu/v01>

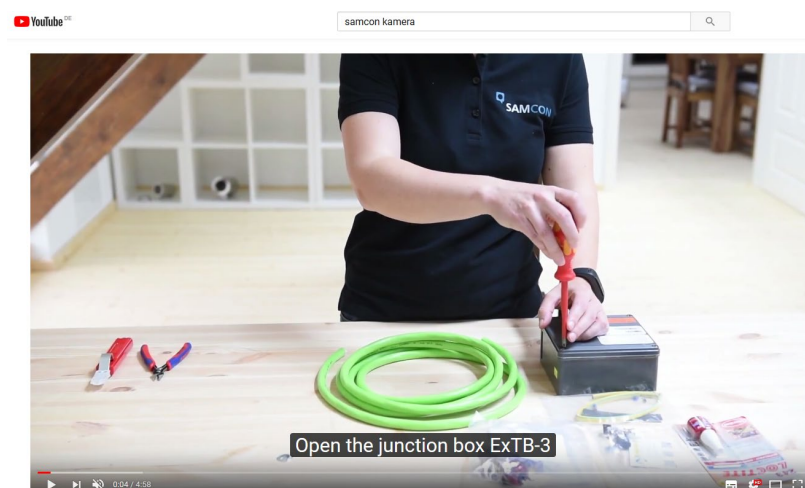


Fig. 5-2 Video Tutorial connection work on the device

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)

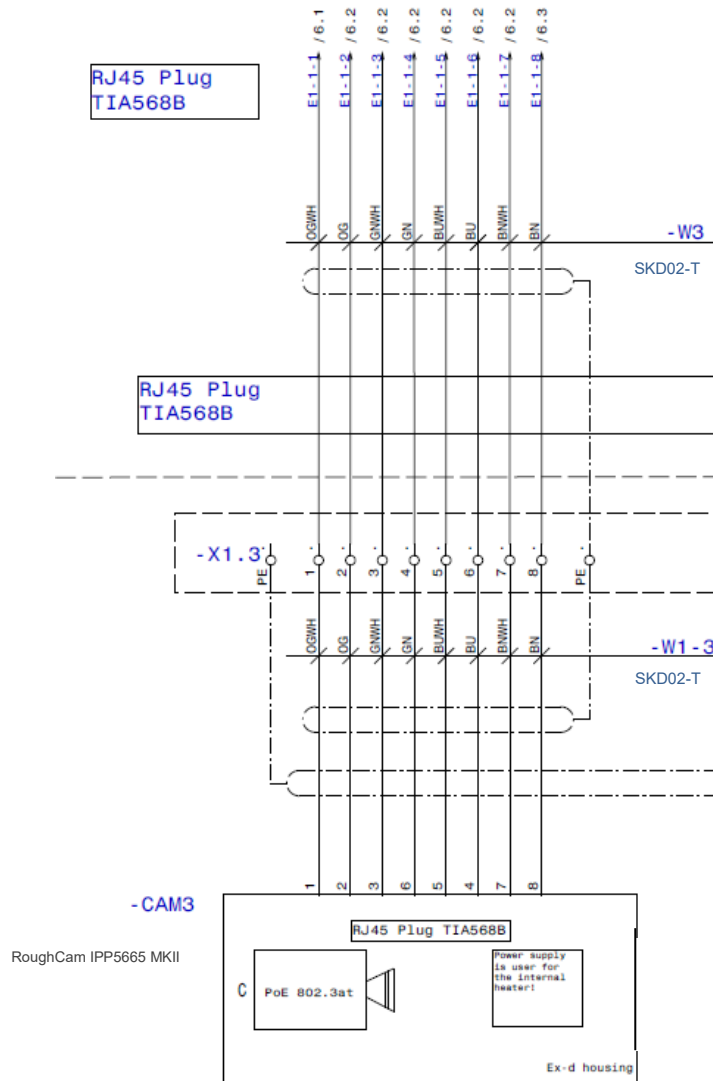


Fig. 5-3 Sample circuit of terminal box



Attention!

Perform the foiling up to about 10mm to the terminals, in order to prevent alien crosstalk. Make sure that the foiling cannot cause any short circuit of the data couples!



Attention!

Bring the twisted pair composite approximately 10mm close to the terminals, in order to ensure the immunity to disturbance.



Attention!

Use only terminals approved by SAMCON.



Attention!

Finally, check your network installation by per Class-D Link Test.

5.2.2 Plug assignment (RJ45)

The data transfer of the RoughCam IPP5655 MKII series uses a 100 Mbit/s Ethernet connection (100BASE-TX).

If the cable termination uses a plug it has to be plugged into the associated slot of the network device. 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 the appropriate RJ45 plug! Check shielding, cross-section and the outside diameter of the cable!



Attention!

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



Attention!

Finally, check your network installation by per Class-D Link Test.

Observe our video tutorial:

“SAMCON 03 Mounting and installing the RJ45 jack to SAMCON cables”

<https://go.samcon.eu/v03>



Fig. 5-4 Plug assignment RJ45

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 Opening the 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 pressure-resistant housing

Always adhere to the explosion-relevant rules:

- 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.

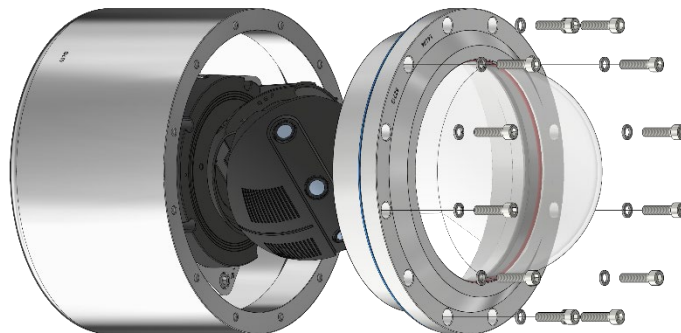


Fig. 6-1 Opening the RoughCam T10-VA4.1K.PS1

- 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, in order to ensure ignition protection and the protection level (IP) of the housing.

**Attention!**

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

**Attention!**

Do not to damage the surface of the drill hole and the shaft (fitting) of the gap.

**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.

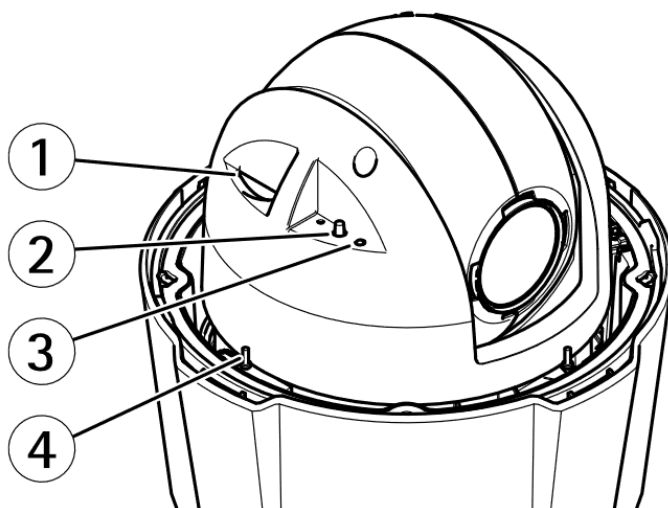
6.2 Removing / inserting a SD memory card

The RoughCam IPP5655 MKII 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.!



- 1 SD memory card slot
- 2 Control button
- 3 Status LED indicator
- 4 Reset button

Fig. 6-2 Reset Button / Memory Card

6.3 Hardware Reset

To set all the parameters of the RoughCam IPP5655 MKII (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 P5655-E) 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 P5655-E 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:

<http://www.axis.com/products/axis-p5655-e>



At delivery, the RoughCam IPP5655 MKII 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 IPP5655 MKII 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 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 IPP5655 MKII 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 IPP5655 MKII is "AXIS P5655" (see Figure 7.1). 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 with lukewarm water only. Always use a soft, damp cloth to avoid the risk of static electricity! The UV-protective coating on the dome must not be damaged. Scratches must be avoided at all costs.

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 using original parts of SAMCON Prozessleittechnik GmbH. In case of doubt, the affected equipment must be returned 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-ipp5655-mkii/>

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 IPP1377 *EOL*](#)
[RoughCam IPP1387](#)
[RoughCam IPQ1656 \(DLPU\)](#)
[RoughCam IPQ1715](#)
[RoughCam IPQ1785](#)
[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](#)
[- Drawing](#)
[- CAD-files \(DXF\)](#)
[- Dec. of Conformity](#)
[- Optical-Quality-Test](#)

Pictures:

RoughCam® IPP5655MKII

The RoughCam IPP5655 MKII is a compact, powerful IP-dome-camera (2 megapixels) – not only offering superb HDTV resolution (1920 x 1080) but also a powerful motor zoom and auto focus lens (32x optical zoom). The camera allows continuous 360° pan rotation. A particular highlight is the precise and quick panning and tilting ability of the camera.

Features.

- Single-Cable-Solution (PoE+) IEEE 802.3at
- Protection Level of IP68 (IEC 60529)
- High Resolution: 1920x1080 (HDTV 1080p)
- Powerful Motor-Zoom-Autofocus-Lens (32x Optical)
- Dome with Optimized UV and Scratch Resistance
- Lightfinder and WDR Technologies
- Endless and very fast and precise PAN Drive (0.1° - 350°/s)
- Very fast and precise TILT Drive (0.1° - 350°/s)
- Focus recall and EIS (electronic image stabilisation)
- Easy VMS Integration
- [Extensive Accessories](#)

Robust dome camera

During the RoughCam IPP5655 MKII's development stage, the focus was clearly laid on security aspects as well as mechanical precision and high-quality stainless steels but also on the modular design which allows, for example, the direct connection of FOC. In case of spacious observation requests, FOC offers great transmission speeds; also the lighting protection for the outside area measures becomes obsolete.

Media resistance and seals

Thanks to its high-quality materials, the RoughCam series (stainless steel AISI 316L / 1.4404) is resistant to a large number of media! The specially designed optical dome consists of a plastic that is not only resistant to very low temperatures, but also offers superior optical properties such as very low distortion. In addition, thanks to a protective varnish, the UV and scratch resistance are significantly improved. Water rolls off the dome. The dome is hydrophobic. The degree of protection is IP66/68.

Temperatures

The allowed ambient temperature of the RoughCam IPP5655 MKII is -30°C going up to +60°C.

Reduced installation costs & Power over Ethernet (PoE)

A particularity of the RoughCam IPP5655 MKII is that the data streams as well as the power is transmitted via a single cable which means that for the installation within the safe area, only a PoE-Switch or a PoE-Midspan is required. As the power supply of the camera is executed via Power over Ethernet (PoE according to IEEE 802.3at) via the network, no costly installation of a separate power supply is required.

HD CCTV Camera in blast proof housing

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

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SAMCON

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