TKH Security SA3-PTZ D-IR 3rd Generation SA PTZ Camera



TKH Security SA3-PTZ D-IR 3rd Generation SA PTZ Camera **Instruction Manual**

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TKH Security SA3-PTZ D-IR 3rd Generation SA PTZ Camera



Product Information

Specifications

• Product Name: TKH SA3 PTZ Series

Model: SA3-PTZ

• Material: AISI 316L Stainless Steel

- Features: Belt-drive technology for PAN and TILT rotations, low power consumption, compatible with zoom module day/night and thermal imaging modules (TX3)
- Models Covered: SA3-PTZ(v), SA3-PTZ(v)T, SA3-PTZ(v)D, SA3-PTZ(v)D-IR34

Product Usage Instructions

Installation

- 1. Ensure only suitably trained personnel install the product.
- 2. Refer to the installation manual for step-by-step installation instructions.
- 3. Connect the appropriate power supply based on the model (24V, 120V, or 230V).

Operation

- 1. Power on the SA3-PTZ camera.
- 2. Use the provided controls to adjust PAN, TILT, and ZOOM functions as needed.

3. Ensure proper ventilation around the camera housing for optimal performance.

Maintenance

- 1. Regularly clean the camera lens and housing to prevent dust buildup.
- 2. Check for any loose connections or signs of wear and tear periodically.
- 3. Follow the maintenance schedule provided in the manual to ensure longevity.

FAQ

Q: What should I do if I encounter an "ELECTRICAL HAZARD" warning?

A: If you see an "ELECTRICAL HAZARD" warning, immediately stop using the product and refer to the provided instructions to address the situation safely.

• Q: Can I use the SA3-PTZ camera in hazardous areas?

A: Yes, the SA3-PTZ series is specifically designed for Hazardous Area applications, ensuring safe operation in such environments.

SA3 PTZ Series

Installation manual

Note: To ensure proper operation, please read this manual thoroughly before using the product and retain the information for future reference.

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TKH Security reserves the right to modify specifications stated in this manual.

Brand names

Any brand names mentioned in this manual are registered trademarks of their respective owners.

Liability

TKH Security accepts no liability for claims from third parties arising from improper use other than that stated in this manual.

Although considerable care has been taken to ensure a correct and suitably comprehensive description of all relevant product components, this manual may nonetheless contain errors and inaccuracies. We invite you to offer your suggestions and comments by email via info@tkhsecurity.com. Your feedback will help us to further improve our documentation.

How to contact us

If you have any comments or queries concerning any aspect related to the product, do not hesitate to contact:

TKH Security B.V.

Werner von Siemensstraat 7 2712 PN Zoetermeer The Netherlands http://tkhsecurity.com

Introduction

Preserve this manual as a reference for future needs.



Used electrical, electronic and stainless steel products should not be mixed with general waste. For proper treatment, recovery and recycling of old products, take them to applica ble collection points, in accordance with your national legislation and the Directives 2011/65/EU and 2012/19/EU.

By disposing of these products correctly, you help to save valuable resources and preve nt any potential negative effects on human health and the environment which could other wise arise from inappropriate waste handling. For more information about collection and recycling of old products, contact your local municipality or your waste disposal service. Penalties may be applicable for incorrect disposal of this waste, in accordance with natio nal legislation.

The manufacturer declines all liability for any consequence resulting from improper installation practices, tampering or improper uses of the product.

The descriptions and illustrations contained in this manual are not binding. The manufacturer reserves the right to make any alterations deemed appropriate for the technical, manufacturing and commercial improvement of the product, while leaving the essential product features unchanged, at any time and without undertaking to update the present publication.

The manufacturer declines all responsibility for any consequences resulting from improper use of the product, or use which is different from that expected and specified in the present documents.

General information

Description

The SA3-PTZ series are AISI 316L Stainless Steel camera housings specifically designed for Hazardous Area applications. Built with belt-drive technology, SA3-PTZ allows PAN and TILT rotations with very low power consumption.

The SA3-PTZ can be assembled the latest generation zoom module day/night and/or thermal imaging modules (TX3).

Note: This product must only be installed by suitably trained personnel.

These instructions are intended for their sole use.

Models

This manual contains instructions on installation and use of the SA3-PTZ series. It covers the following models:

- SA3-PTZ(v). Single head optical upright pan, tilt, and zoom camera
- SA3-PTZ(v)T. Single head thermal upright pan and tilt camera
- SA3-PTZ(v)D. Dual head optical + thermal upright pan, tilt, and zoom camera
- SA3-PTZ(v)D-IR34. Dual head optical upright pan, tilt, and zoom camera with IR illuminator
- (v) determines the power supply voltage. (v) can be 24 for AC 24 V, 120 for AC 120 V or 230 for AC 230 V

Symbols used



It indicates a potentially dangerous situation that, if ignored, could lead to physical or mortal injuries and/or damage to the unit. Read the provided instructions carefully.



It indicates a potentially dangerous situation involving electricity risks that could lead to physical or mortal injuries and/or damage to the unit. Read the provided instructions carefully.



OPTICAL RADIATION

It indicates a potentially dangerous situation due to the emission of visible light or infrared that could be harmful for eyes. Read the provided instructions carefully.

Before you continue

	Prior to installation and operation, carefully read all instructions in this manual and heed all warning s.
_	Use the original packaging to transport the unit. Disconnect power supply before moving it. In case of returning the equipment, the original packaging must be used.
<u>\i\</u>	Any change performed on the unit that is not previously approved by the manufacturer will void bot h the certification and the warranty. If this equipment is not utilized according to the instructions of t his document, the protection of the equipment may be impaired and the certification may be void.
	Trying to manually force the wiper will result in damaging the device and will void the warranty.
	When leaving the unit unused for long periods, disconnect supply cables
	For security reasons, do not install the unit in the proximity of water containers and never push objects or pour liquids into the unit. The unit can be safely used in damp environments or outdoors, as long as the glands are properly sealed.
1	The internal transformer of the unit should never be used to power external devices.
	Connecting GND/Earth/PE to line or neutral will result in damaging the device and will void the warr anty.
	No ventilation is needed for the unit, as it is completely sealed.



The unit emits high intensity IR light. Wear protective eyewear. Avoid direct eye and skin exposure. Please follow safety precautions given in IEC 60825-1 and IEC 62471.

Technical Data

General & Mechanical

Construction: AISI316L Stainless Steel

· Finishing: Electro-polished

• Pan: Angle: 360° (continuous rotation); Speed: 0 – 40°/second

Tilt: Angle: 180° (±90°); Speed: 0 – 20°/second

Electrical

Heater: T[°C] ON=12±4°C, T[°C] OFF=20±3°C (thermostatically controlled)

• Power consumption:

- SA3-PTZ(v) 130W MAX
- SA3-PTZ(v)D 170W MAX
- SA3-PTZ(v)D-IR34 155W MAX
- · Supply voltage:
 - \circ (v) = 24 AC 24V (±10%)
 - (v)= 120 AC 120V (±10%)
 - (v)= 230 AC 230V (±10%)

Certifications

Weatherproof standard: IP66/IP67/IP68/IP69

EMC, LVD CE compliant, Class A

Unpacking

Contents in the box

The camera comes in a sturdy carton box with the following contents::

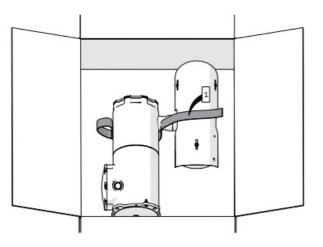
- · Safe area camera station
- Sunshield(s)
- · Hard copy of this manual
- · Washing nozzle brackets kit (versions with wiper only)

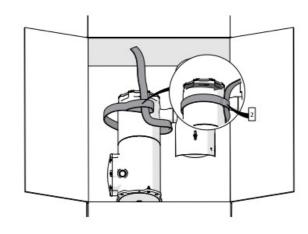
Unpack

If the package or the contents appears to be damaged, notify the shipper immediately.

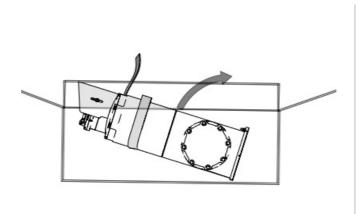
Use suitable lifting equipment that complies with all applicable (local) standards. The unit must be harnessed with a suitable anchor strap (minimum capacity: 500kg, minimum length: 2m)

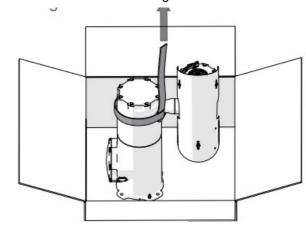
- 1. Pass the anchor strap (1) under the unit
- 2. Pass the strap through the end of loop and tighten (2).





- 3. Pull the strap to tilt the unit in vertical position while still in the box
- 4. Lift the PTZ out of the box. Be careful to any sudden movements of the unit while lifting.





Installation

Before you begin

À	Proper stainless steel tools should be carefully chosen and used during installation and to fasten t e unit to the surfaces, in accordance with the local requirements.
	The unit cannot be installed horizontally.
	Make sure that the installation surface can support at least four times the weight of the unit in normal operating conditions. Where the equipment may be exposed to excessive external stresses (e.g. vibration, heat, impact), then the equipment must be protected by additional means of protection. In dditional protection may be required if the equipment is to be installed in locations where it may be subject to damage.
	It is not advised to use automatic tools (such as drill drivers) for tightening/loosening the screws, it may result in damaged threads.
	Use caution when lifting and (dis)assembling the unit. It is recommended that non-slip protective goves be worn during installation. The unit could bear sharp edges
	Electrical connections (such as plugs and cords) must be protected from potential hazardous environmental factors (e.g., foot traffic, hitting objects).
	Earth ground attachment point is a stud M5-0.8 x20 A4-70 ISO 4762 with dual nut and dual serrated d washer. During installation it is important to connect the Earth stud to an appropriate grounding I cation using a (minimum) 6 mm2 / 10 AWG copper stranded wire. Make sure that the unit case is operly earthed, connecting all the earth ground studs.
4	An all-pole mains switch with an opening distance between the contacts at least 3 mm (1/8") in each pole must be incorporated in the electrical installation. The switch must be equipped with protect n against the fault current towards the ground (differential) and the overcurrent (magnetothermal, aximum 15 A). It must be very quickly recognizable and readily accessible
	Recommended fuse for AC 120 V / 230 V is a 2 A Delayed Fuse T (Time delay) or equivalent reseable devices.
	Recommended fuse for AC 24 V is a 4 A Delayed Fuse T (Time delay) or equivalent resettable de ces.
	For connection to the main power supply use suitably insulated multipolar cable having minimum 3 1,5 mm2. The yellow/green PE wire must be longer than the others.
	Connecting GND/Earth/PE to line or neutral will result in damaging the device and will void the war anty.

Fasten all the cables inside the housing with cables ties or other fixing means to avoid the electrical contact with surrounding parts in case the wire gets loose.

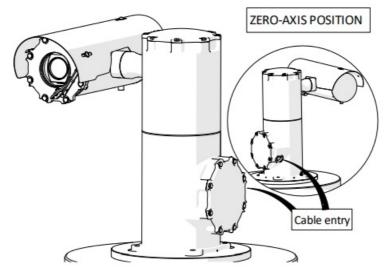
Route all the cables avoiding contact with the wiper shaft and motor.

Do not connect the unit to a supply circuit unless the installation is completed. Check before assembling the position of the O-ring seals in their groove

Mounting the camera

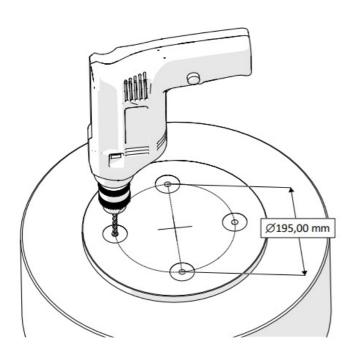
Zero Axis position

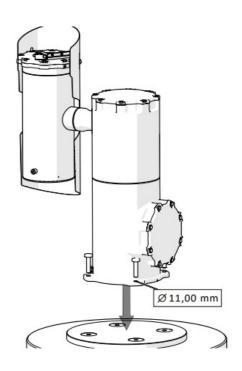
Upon each start-up, the unit will perform a "zero-axis" calibration. "Zero-axis" position is with side flange on the left (cable entry on the back) and camera(s) facing forward. The unit should be installed with the cable gland facing the opposite direction to the zone to be monitored



Flat surface or pole-top mount*

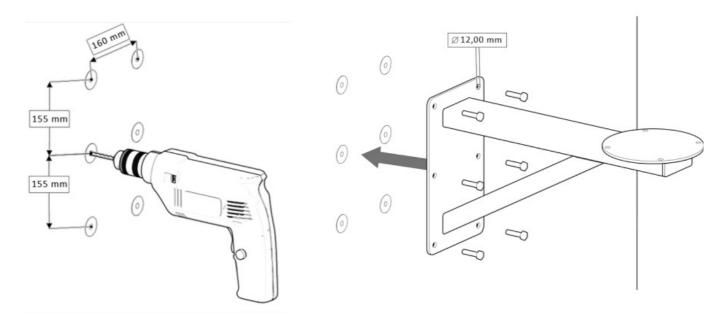
Mount the SA3-PTZ on a flat surface which can support the unit or the top flange of a pole top. Choose the proper fasteners for surface. The screws must be tightened with suitable torque by authorized and qualified personnel only. See appendix for drawings of the mounting pattern and for the camera physical dimensions





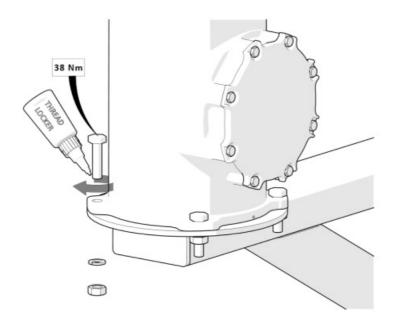
Wall-mount

To mount the SA3-PTZ camera to a horizontal wall an EX-PTZ WM01 must be used. Choose the proper fasteners for surface. The screws must be tightened with suitable torque by authorized and qualified personnel only. See appendix for drawings of the camera physical dimensions.



To install the PTZ to the bracket, 4x M10 screws, 4x lock washer and 4x nuts (provided with the EX-PTZ WM01) must be used.

Check that all the threads are clean. When fixing the screws use thread locking compound (e.g., Loctite) and allow an appropriate rest period. Screws must be tightened to 38Nm with an adequate torque wrench



Installing the camera



Any action performed on the unit which is not described in this manual may damage the camera.

Open only the covers pointed out in this installation manual. Other covers should be open only by the manufacturer.

Check the supply voltage marked on the label. Incorrect power supply voltage may damage the unit . Do not overload the terminal connection, as it may cause fire or electrical shock hazard.

Make sure that the camera is disconnected from the power. An accessible mains switch must be ins talled to switch-off the power. Wait at least 5 min before opening the camera



An all-pole mains switch with an opening distance between the contacts at least 3 mm (1/8") in eac h pole must be incorporated in the electrical installation. The switch must be equipped with protection against the fault current towards the ground (differential) and the overcurrent (magnetothermal, maximum 15 A). It must be very quickly recognizable and readily accessible

Do not connect the unit to a supply circuit unless the installation is completed. Check before assembling the position of the O-ring seals in their groove.

Installation of composite cable (INT3 -SA20/25)

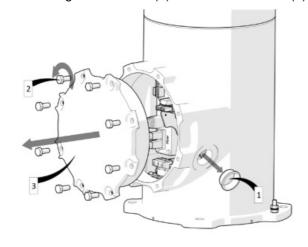
The armored composite cables from TKH Security are pre-fitted with cable glands on each side for ease of installation. The following tails are available:

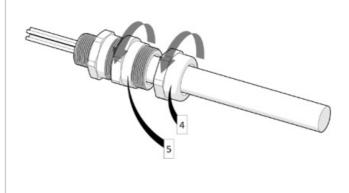
- INT3-RJ5 SA25, 5 meter composite cable for Fast ethernet, M25
- INT3-RJ10 SA25, 10 meter composite cable for Fast ethernet, M25
- INT3-SM5 SA25, 5 meter composite cable with SM fiber, M25
- INT3-SM10 SA25, 10 meter composite cable with SM fiber, M25

If the composite cable tail isn't provided by TKH Security, please check the correct cable gland thread dimension. (M25 x1.5) To maintain the IP rating of the unit, use only cables, cable glands, blind-stops, adapters that are suitably rated.

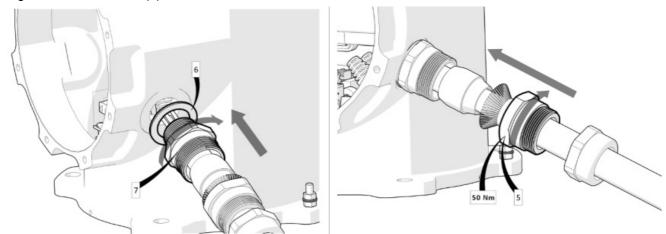
Plastic caps are used to close cable entries during shipment, remove them and close off any unused cable entry with an appropriate blind-stop.

- Remove plastic cover (1. Remove screws (2) and lower flange (3)
- Loosening the back-nut (4) and the middle-nut (5)

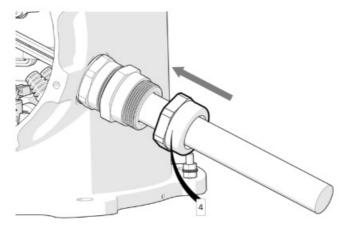




- Insert plastic washer (6) and tighten the nut (7).
- Tighten the middle-nut (5) to 50Nm

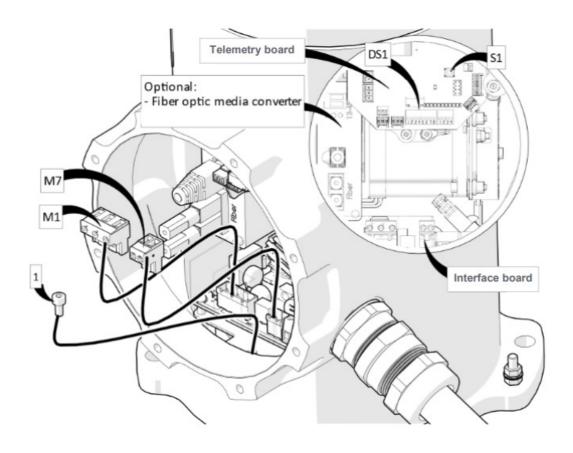


• Tighten the back-nut (4).



Electrical wiring

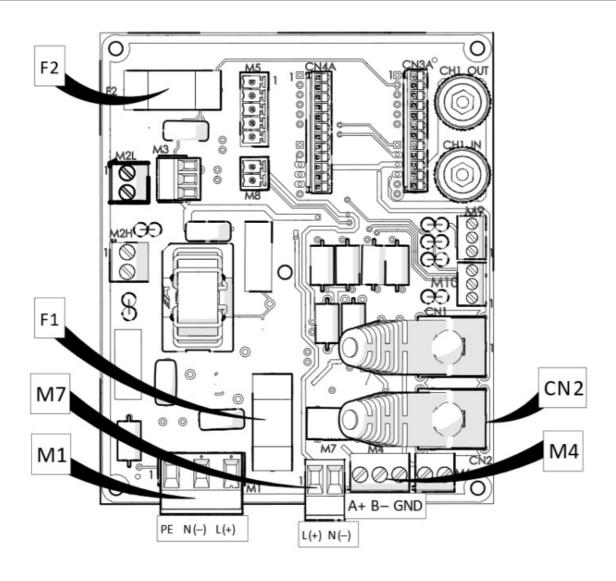
If necessary, remove locking screw (1) and slide out the PCB to have a better access to the other terminal blocks. M1 and M7 terminal blocks can be removed from PCB to perform electrical connections.



ID	Name	Notes			
		Do not change settings. Used for setting the unit address and baud rate of camera station. PIN 1-6: P TZ Address ID (Default on address 1)			
	RS485	PIN 7-8:	DIS1-7	DIS1-8	Baud rate
DS1	settings	OFF	OFF	2400 (Default)	
		OFF	ON	9600	
		ON	OFF	19200	
		ON	ON	57600	
		Push 15 seconds to reset to default settings.			
S1	1 Reset button CAUTION: this operation will reset all the existing presets and the PA limits.			xisting presets and the PAN/TILT axis	

Each plug-in connector is different in shape and/or colour to avoid any wrong connection. The connections should be performed according to the table below.

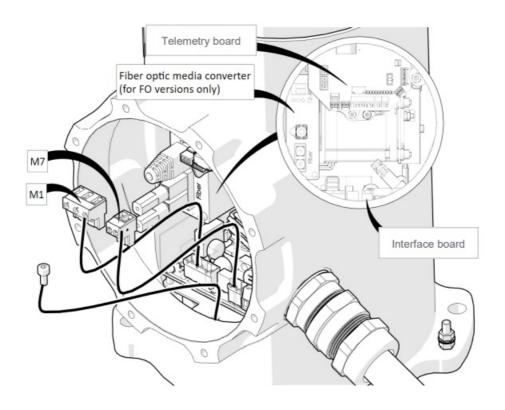
ID	Name	Notes
M1	Supply voltage	Depending on model. Please refer to marking plate supply voltage information.
M4	Data input (RS485)	Not applicable
M7	Washer control	AC 24 V output. Designed to activate washer systems. The activation lasts 5 seconds
CN2	RJ45 Fast Ethernet	Signal out from the camera. Use shielded or unshielded cable according to the needs.



Fuse name	Fuse value
F1	8 A HT 250 VAC 5×20
F2	10 A HT 250 VAC 5×20

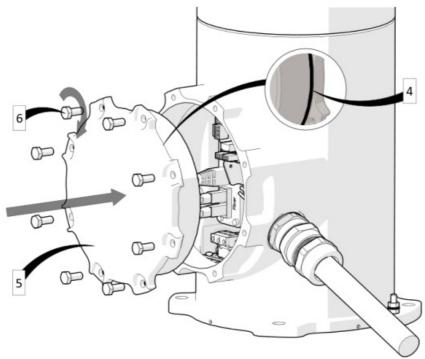
For fiber optic versions only (INT3-SM, INT3-MM)

The direct to fiber versions of the SA3-PTZ cameras are fitted with a media converter in the base of the unit. Connect both optical fiber pigtails from the composite cable to the media converter. The converter is fitted with two



Closing the camera base

Check if the O-Ring gasket (4) is in its grove before proceeding. Assemble the rear flange (5) in the PTZ and tight the screws (6) to 11Nm



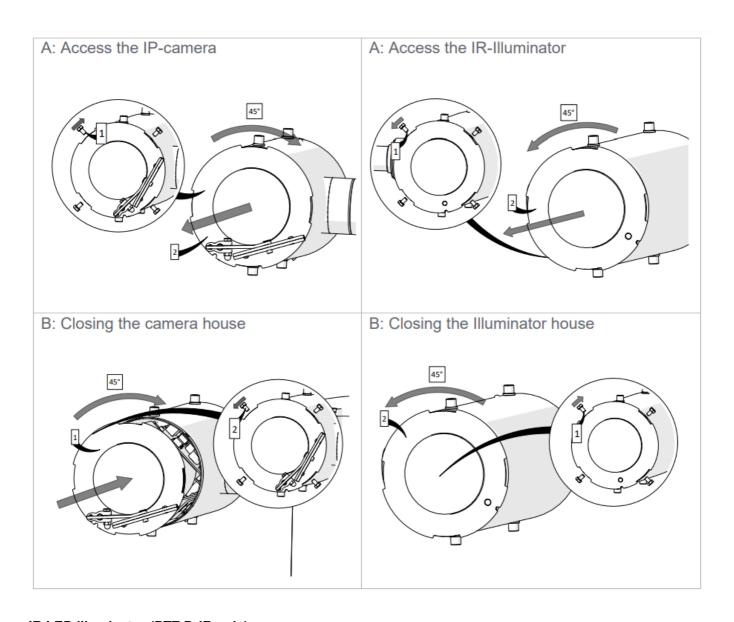
Opening and closing camera house

To access the IP camera or IR illuminator follow these instructions to open the camera house.

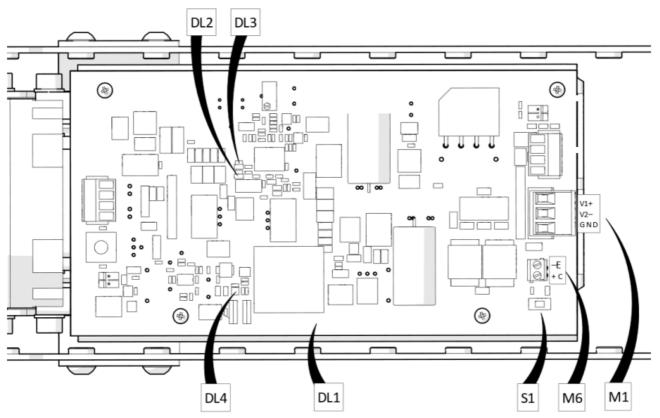
A. **Opening:** Remove screws (1) from the window flange of the camera housing (2).

Rotate the flange 45° clockwise while sliding it out. In case of an IR-illuminator, the camera flange has to be rotated 45° counterclockwise

B. Closing: Slide the camera assembly (2) in the camera housing while rotating it 45° clockwise. Tight the screws (1) to 11Nm. In case of an IR-illuminator rotate 45 counter clockwise Check if the O-Ring gasket (3) is inside its grove before proceeding



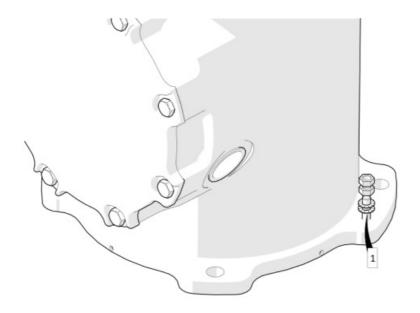
IR LED illuminator (PTZ D-IR only)



Connector	Name	Notes
M1	AC/DC Power supply Input	AC 24V
M6	Inputs	Dry contact/Open collector (NPN) input for IR LEDs activation (Example: external camera output)
S1	Test	Used for manual IR LEDs activation test.
LED	Color	Indication
DL1	Green	is ON when the board is correctly powered
DL2	Yellow	is ON when the IR LEDs are interrupted (open-led)
DL3	Red	is ON when the IR LEDs are not activated or when they are in short-circuit.
DL4	Yellow	is ON when the IR LEDs are in the activation phase during its hysteresis delay

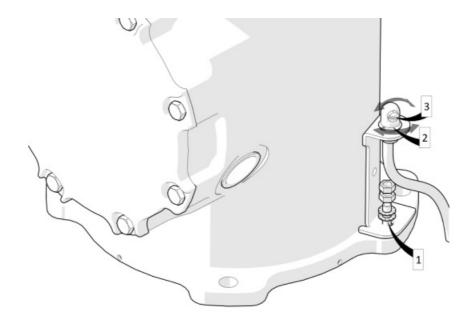
Grounding

Connect earth cable to the PTZ base, under the nuts and screws (1), with M5 ring wire terminal.



Installing the washer nozzle

- Fix the nozzle bracket on the PTZ with the provided nuts and washers (1).
- Connect earth cable to the PTZ base, between nozzle bracket and screws (1), with M5 ring wire terminal.
- Adjust horizontal position of the nozzle, use the screwdriver slot (3) on the nozzle to adjust the tilt position



Maintain the unit

Inspections

This equipment has been designed to fit in harsh environments requiring little or no maintenance. Suggested inspection interval is six months, but extremely harsh environments may require more frequent inspection and maintenance checks. On each inspection, check the O-ring seals and the window wiper blade integrity. Replace them when necessary.

Routine activities

Regularly perform the following routine activities:

· Clean the glass

Use water or a liquid detergent that will not generate a hazardous situation.

· Clean the germanium window

Use water or a damp cloth. Be careful not to scratch the carbon coating. Do not use ethyl alcohol, solvents, hydrogenated hydrocarbons, strong acids or alkalis. This will irreparably damage the germanium window.

· Clean the unit

Use a dry or damp cloth. Do not use compressed air to clean the unit.

· Check electrical connections

Check cables and electrical connections for integrity and tightness. Replace worn cable(s) or tighten loose connections.

· Check mounting accessories

Check mounting bolts and screws for integrity and tightness. Replace or tighten any damaged/loose mounting hardware.

Suitable precautions: regular checks as part of routine inspections or establishing from the material's datasheet that it is resistant to specific chemicals.

Fuse replacement

If necessary, replace the fuses F1 or F2 on the interface board (see section "Electrical wiring") The following fuse values are used:

Fuse name	Fuse value
F1	8 A HT 250 VAC 5×20
F2	10 A HT 250 VAC 5×20

All the fuses must be ceramic T type (time lag) with a breaking capacity of 1500 A. Different supply voltage can be supplied and may require different fuse values. In such cases, please contact TKH Security.

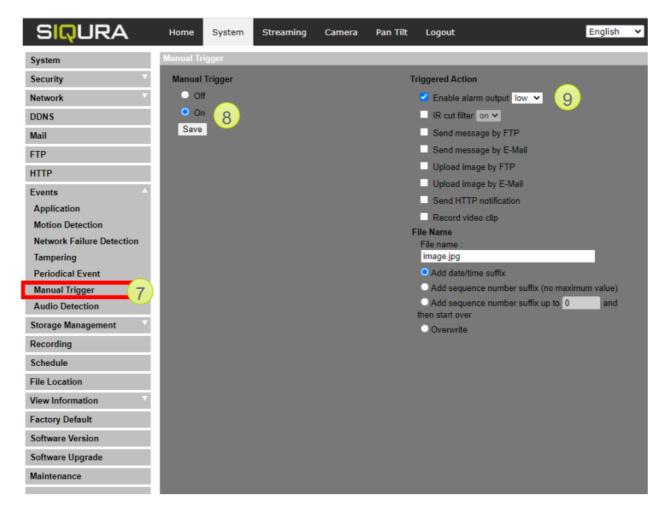
Sync IR with D/N mode

1. Open the web interface; click on the "System" tab and open [Events] > [Application]. Check the boxes as shown below:

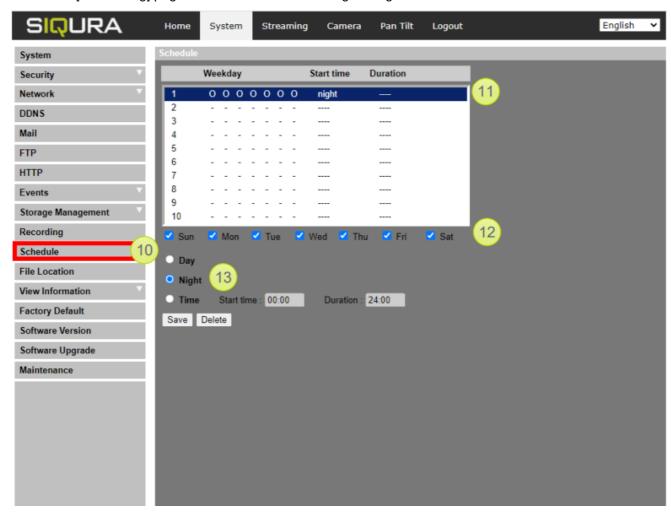
2.



Click the [Manual Trigger] page and again take over the settings as shown in screenshot below:



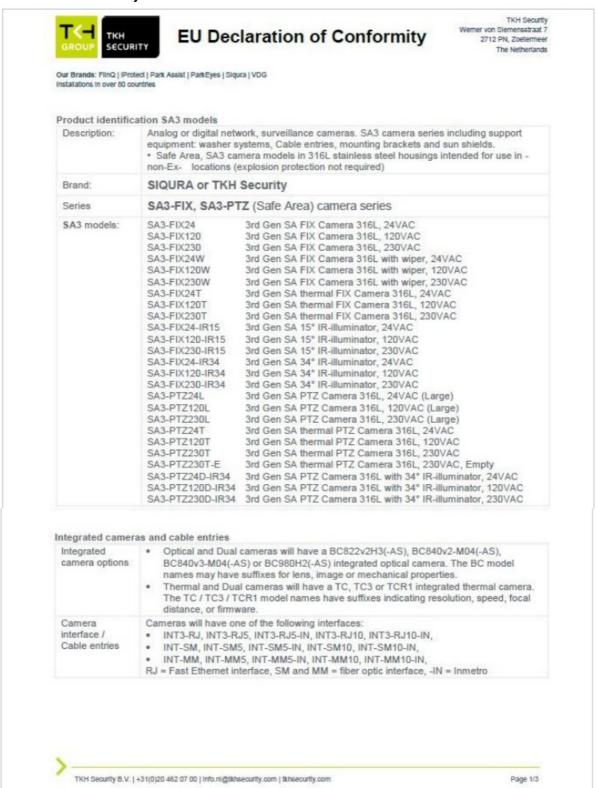
3. Click to the [Scheduling] page and take over the following settings:



With these settings the Alarm contact output is synchronized with the Day/Night mode of the camera. The Alarm output of the optical camera must be connected to M6 of the IR control board to switch on/off the IR illuminator

EU Certificates

EU Declaration of conformity



Product identification EX3 models Analog or digital network, surveillance cameras. EX3 camera series including support Description: equipment: washer systems, Ex cable entries, mounting brackets and sun shields. . Explosion protected, EX camera models in 316L stainless steel housings intended for use in potentially explosive atmosphere, according ATEX / IECEx / UKEX Brand: SIQURA or TKH Security EX3-FIX, EX3-PTZ (Explosion proof) camera series Series 3rd Gen EX FIX Camera 316L, 24VAC, Empty EX3-FIX24-E EX models: FX3-FIX24 3rd Gen EX FIX Camera 316L, 24VAC EX3-FIX120 3rd Gen EX FIX Camera 316L, 120VAC EX3-FIX230 3rd Gen EX FIX Camera 316L, 230VAC EX3-FIX24W 3rd Gen EX FIX Camera 316L with wiper, 24VAC EX3-FIX120W 3rd Gen EX FIX Camera 316L with wiper, 120VAC EX3-FIX230W 3rd Gen EX FIX Camera 316L with wiper, 230VAC EX3-FIX24T 3rd Gen EX thermal FIX Camera 316L, 24VAC EX3-FIX120T 3rd Gen EX thermal FIX Camera 316L, 120VAC EX3-FIX230T 3rd Gen EX thermal FIX Camera 316L, 230VAC 3rd Gen EX 15° IR-illuminator, 24VAC EX3-FIX24-IR15 3rd Gen EX 15° IR-illuminator, 120VAC EX3-FIX120-IR15 3rd Gen EX 15° IR-illuminator, 230VAC EX3-FIX230-IR15 EX3-FIX24-IR34 3rd Gen EX 34° IR-illuminator, 24VAC 3rd Gen EX 34° IR-illuminator, 120VAC EX3-FIX120-IR34 3rd Gen EX 34° IR-illuminator, 230VAC EX3-FIX230-IR34 3rd Gen EX PTZ Camera 316L, 24VAC EX3-PTZ24 EX3-PTZ120 3rd Gen EX PTZ Camera 316L, 120VAC EX3-PTZ230 3rd Gen EX PTZ Camera 316L, 230VAC EX3-PTZ24T 3rd Gen EX thermal PTZ Camera 316L, 24VAC EX3-PTZ120T 3rd Gen EX thermal PTZ Camera 316L, 120VAC EX3-PTZ230T 3rd Gen EX thermal PTZ Camera 316L, 230VAC EX3-PTZ24D 3rd Gen EX dual spectrum PTZ Camera 316L, 24VAC EX3-PTZ120D 3rd Gen EX dual spectrum PTZ Camera 316L, 120VAC EX3-PTZ230D 3rd Gen EX dual spectrum PTZ Camera 316L, 230VAC EX3-PTZ24D-IR34 3rd Gen EX PTZ Camera 316L with 34° IR-illuminator, 24VAC EX3-PTZ120D-IR34 3rd Gen EX PTZ Camera 316L with 34° IR-illuminator, 120VAC

Ratings and produ	uct markings		
Marking for EX models, ATEX / IECEx:	TE 2804 II 2 G, Ex db IIC T6/5/4 Gb		
EX model markings:	Refer to ExVeritas certificates for additional markings of housing models: EX3-FIX series and EX3-PTZ series.		
EXIR spotlight model markings	Different markings apply for the EX3-PTZ230D-IR and EX3-PTZ24D-IR spotlights. Temperature class +40°C or +60°C, see actual product marking plate for details.		
EX-Washer markings:	Washers have a different marking, Ex d or Ex e, Temperature Class and IP protection rating. See datasheets or actual product marking plate for details.		
Laser safety:	Equipment with optional fiber optic interface will not be marked, due to the exception for Class 1 optical radiation sources in EN/IEC 60079-28 (edition2, 2015)		
Power ratings:	The power dissipated within the camera housing shall not exceed 25W		

EX3-PTZ230D-IR34 3rd Gen EX PTZ Camera 316L with 34° IR-illuminator, 230VAC

The object of this declaration is in conformity with the relevant EU harmonisation legislation

RoHs: 2011/65/EU + 2015/863/EU,
REACH Regulation (EC) 1907/2006,
WEEE: 2012/19/EU
7

Reference to ATEX / IECEx certificates and standards

ATEX:	Ex equipment is approved by Notified Body number: 2804 ExVeritas ApS, Severinsmindevej 6, 4420 Regstrup, Denmark ATEX certificate No: ExVeritas 23ATEX1726X Issue 0 (2023)
IECEx:	Ex equipment is approved by ExVeritas Limited, Wrexham, LL 139UZ, UK Certificate No: IECEx EXV 23.0057X Issue No. 0 (2023) (database: www.iecex.com)
EN Standards:	EN 60079-0:2018 - Explosive atmospheres - Part 0: Equipment - General requirements EN 60079-1:2014 - Ex. Atm Part 1: Equipment protection by flameproof enclosures "d" EN 60079-31:2014 - Ex. atm Part 31: Equipm. dust ignition protection by enclosure "t"
IEC Standards:	IEC 60079-0:2017, IEC 60079-1:2014, IEC 60079-31:2013

Reference to harmonised and non-harmonised standards

Safety:	TKH Security B.V. The Netherlands
Standards:	EN 62368-1:2014/AC:2015 - Audio/video, ICT equipment - Part 1: Safety requirements
EMC:	TKH Security B.V. The Netherlands
Standards:	EN 61000-6-4:2007+A1:2011 – Generic, Emission, Industrial. (Class A) EN 55032:2015/A11:2020 – Emission, (Class A) EN 61000-3-2:2014 – Limits for harmonic current emissions EN 61000-3-3:2013 – Voltage fluctuations and flicker EN 61000-6-2:2005+AC:2005 – Generic, Immunity, Industrial EN 50130-4:2011+A1:2014 – Alarm systems

Year of affixing the CE mark: 2024

This declaration of conformity is issued under the sole responsibility of the manufacturer:

Name:	THK Security B.V.
Address:	Werner von Siemensstraat 7, 2712 PN, The Netherlands

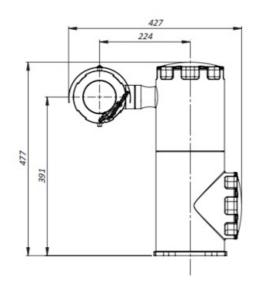
Signed for and on behalf of TKH Security:

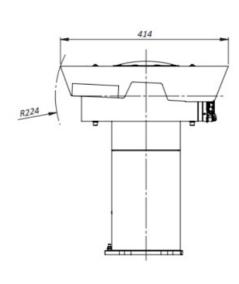
Date:	2024-02-06	
Name:	W.D. Hermelink	
Title:	Product Certification Engineer	

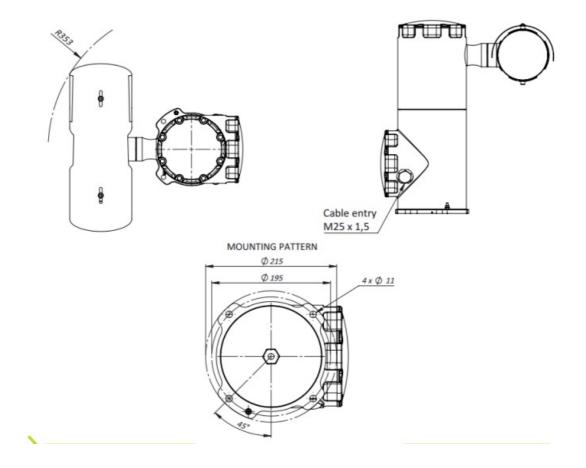
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Appendix: Technical drawings

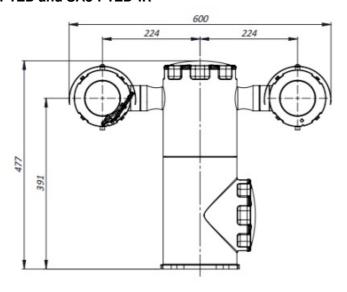
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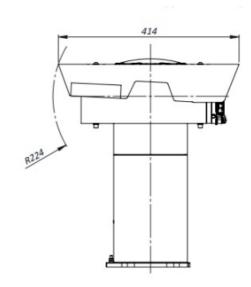


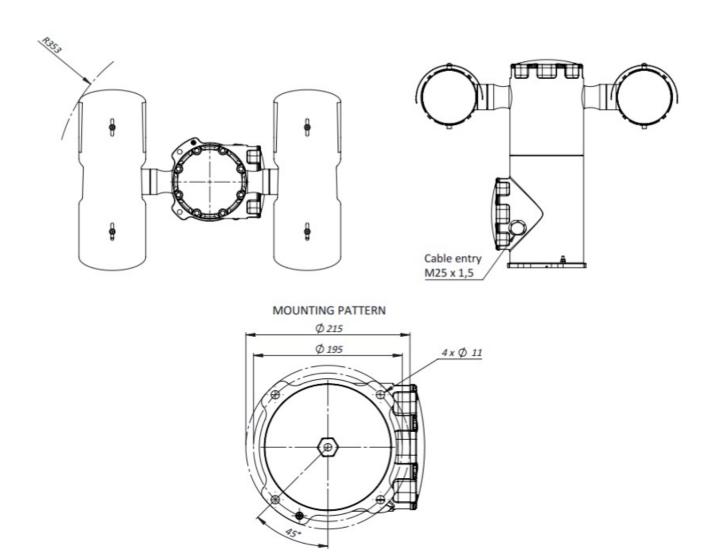




SA3-PTZD and SA3-PTZD-IR







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Documents / Resources



TKH Security SA3-PTZ D-IR 3rd Generation SA PTZ Camera [pdf] Instruction Manual SA3-PTZ D-IR 3rd Generation SA PTZ Camera, SA3-PTZ D-IR, 3rd Generation SA PTZ Camera, Generation SA PTZ Camera, PTZ Camera, Camera

References

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