



# Welcome

## Sistemas PoE y videovigilancia

### Parte 3

Webinar IMA Mayo 2021

## Sistemas PoE y Videovigilancia Parte 3



Fecha	28 Mayo 2021
Hora	16:00
Hora	17:00
Duración	1 hora
Costo	gratuito

Conozca las posibilidades del producto Smart Camera Box para aplicaciones de Videovigilancia

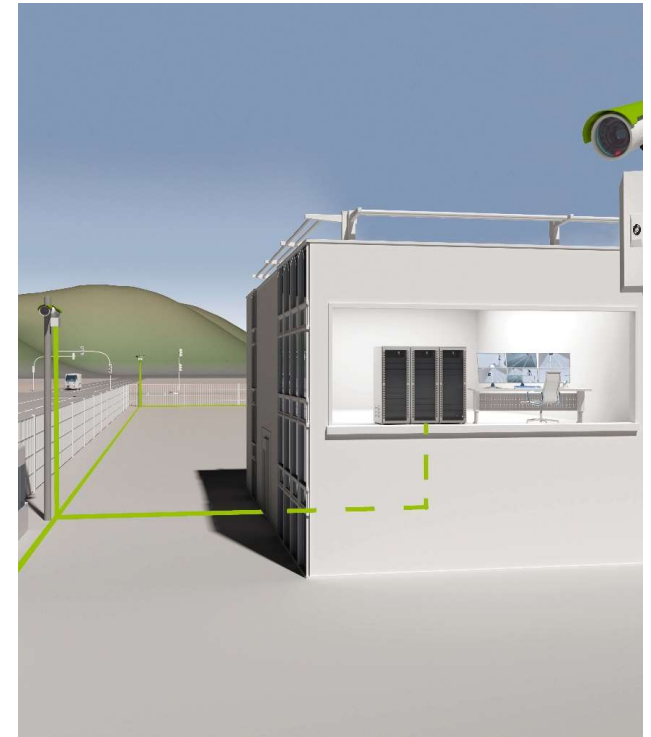
Aprenda la oferta a detalle desde el punto de vista técnico, y sus ventajas en diferentes tipos de aplicación en videovigilancia al utilizar el producto SCX Smart Camera Box como una aplicación fácil, sencilla y práctica al momento de ordenarla, instalarla, configurarla y administrarla por medio de Web en las aplicaciones de Videovigilancia. Con este producto tendrá avances significativos en la infraestructura ethernet moderna al instalar cámaras de videovigilancia y/o cualquier otro tipo de aplicación que pueda diseñar.

Webinars

# Agenda

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- Sistemas de Video vigilancia
  - Smart Camera Box
  - Aplicaciones
- 



Surveillance Infrastructure

## Phoenix Contact

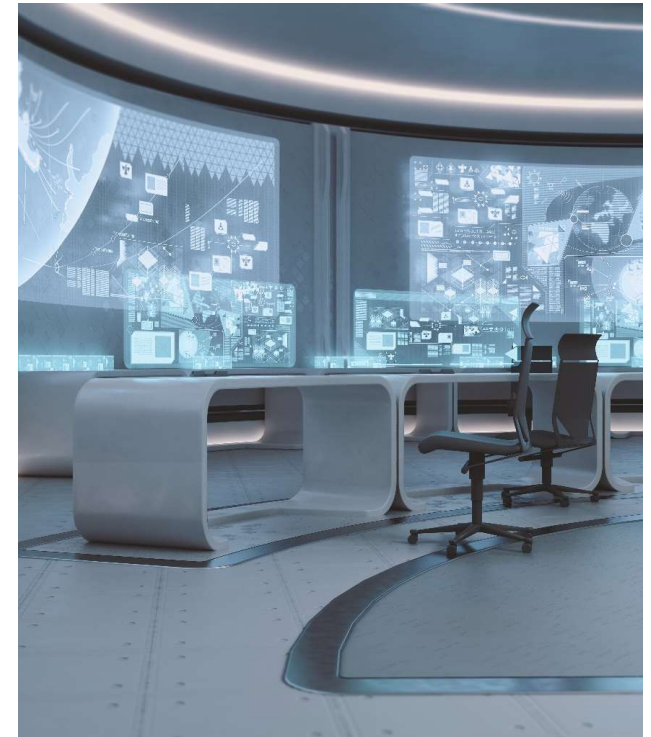


Video Surveillance

## Surveillance Infraestructure

# Overview

- Security
- Access
- Recording
- Process
- Paths
- Warning
- Alarm
- Control
- Actions
- Light
- Dark
- Temperature
- PoE
- Fiber optic
- Cameras
- Wireless
- Control Room
- Doors
- Bars
- Tunnels
- Traffic Light
- Urban Monitoring
- Police
- Fire Department



IEEE 802.3 bt - the new standard

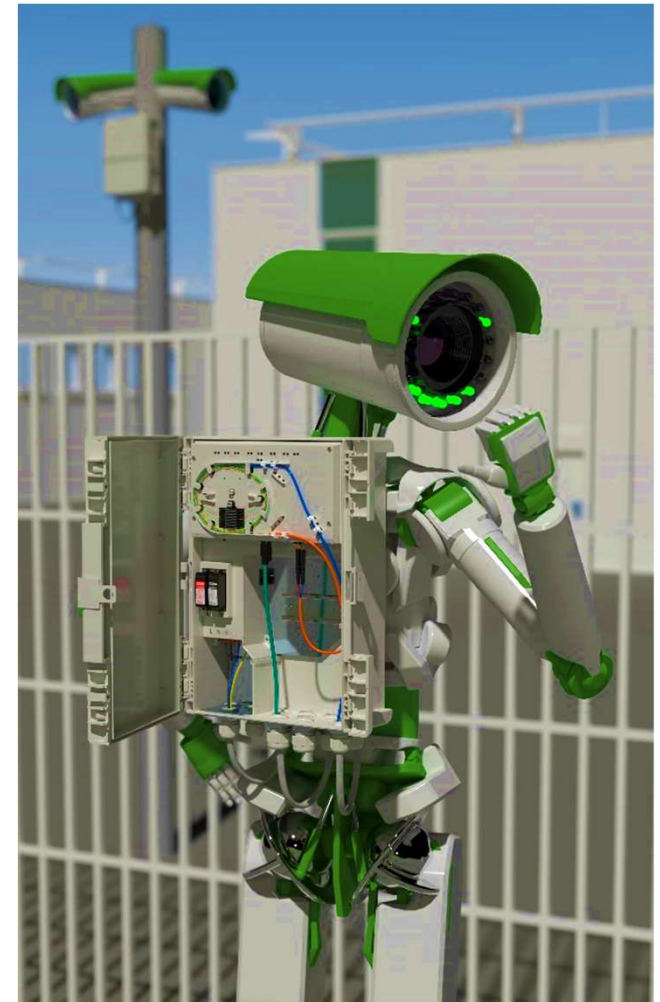
**IEEE Standard → PoE bt**

## **The Smart Camera Box**

**- More than just an outdoor PoE switch**

It connects PoE devices to Ethernet networks,  
such as IP cameras to a video server.

The compact all-in-one device replaces modular control  
cabinet solutions and  
saves time during planning and installation.



IEEE 802.3 bt - the new standard

## SCX → All-in-One device

The Smart Camera Box connects cameras installed in the field with the local network to transmit camera images to the video center.

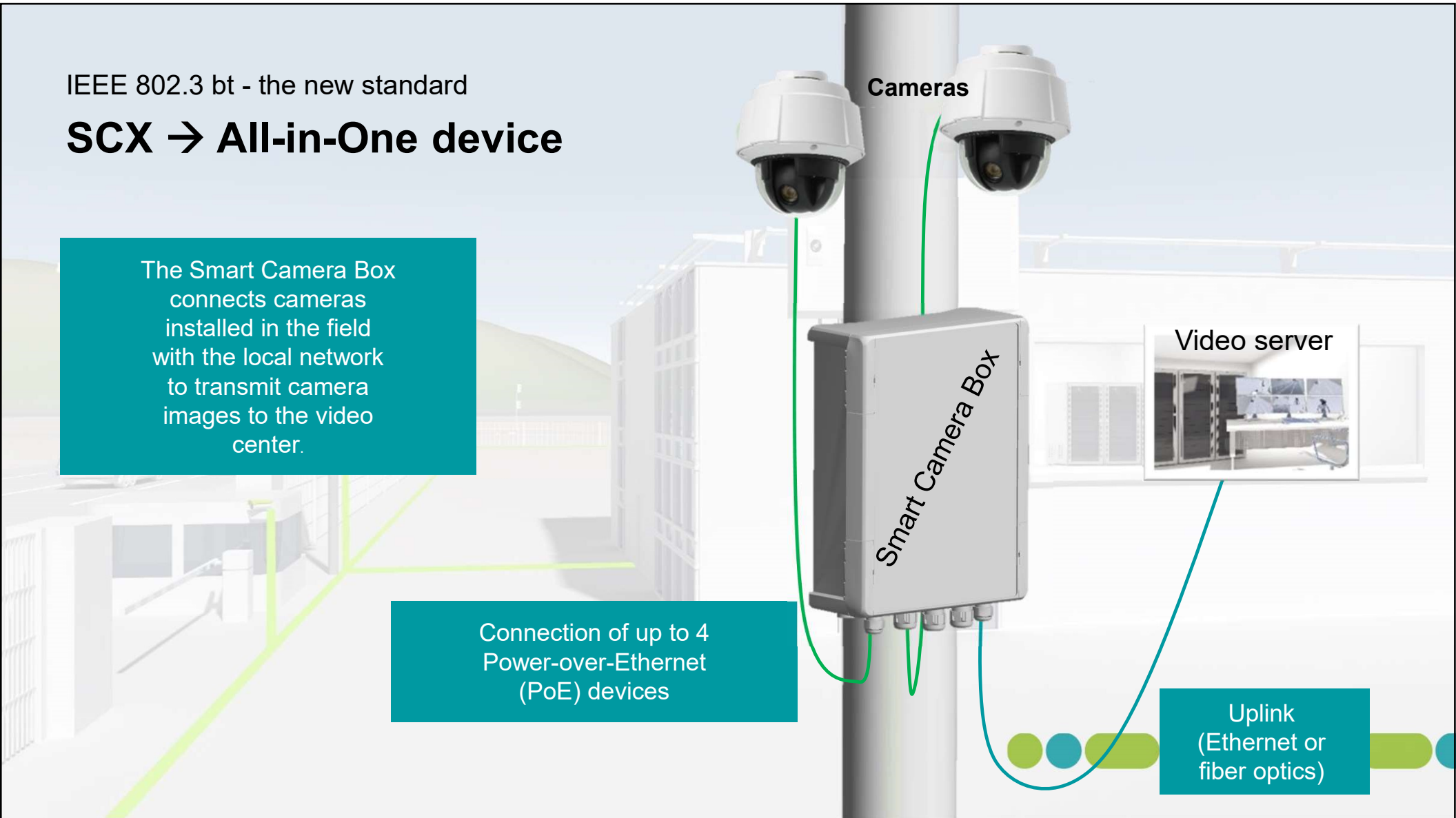
Connection of up to 4 Power-over-Ethernet (PoE) devices

Cameras

Smart Camera Box

Video server

Uplink  
(Ethernet or  
fiber optics)

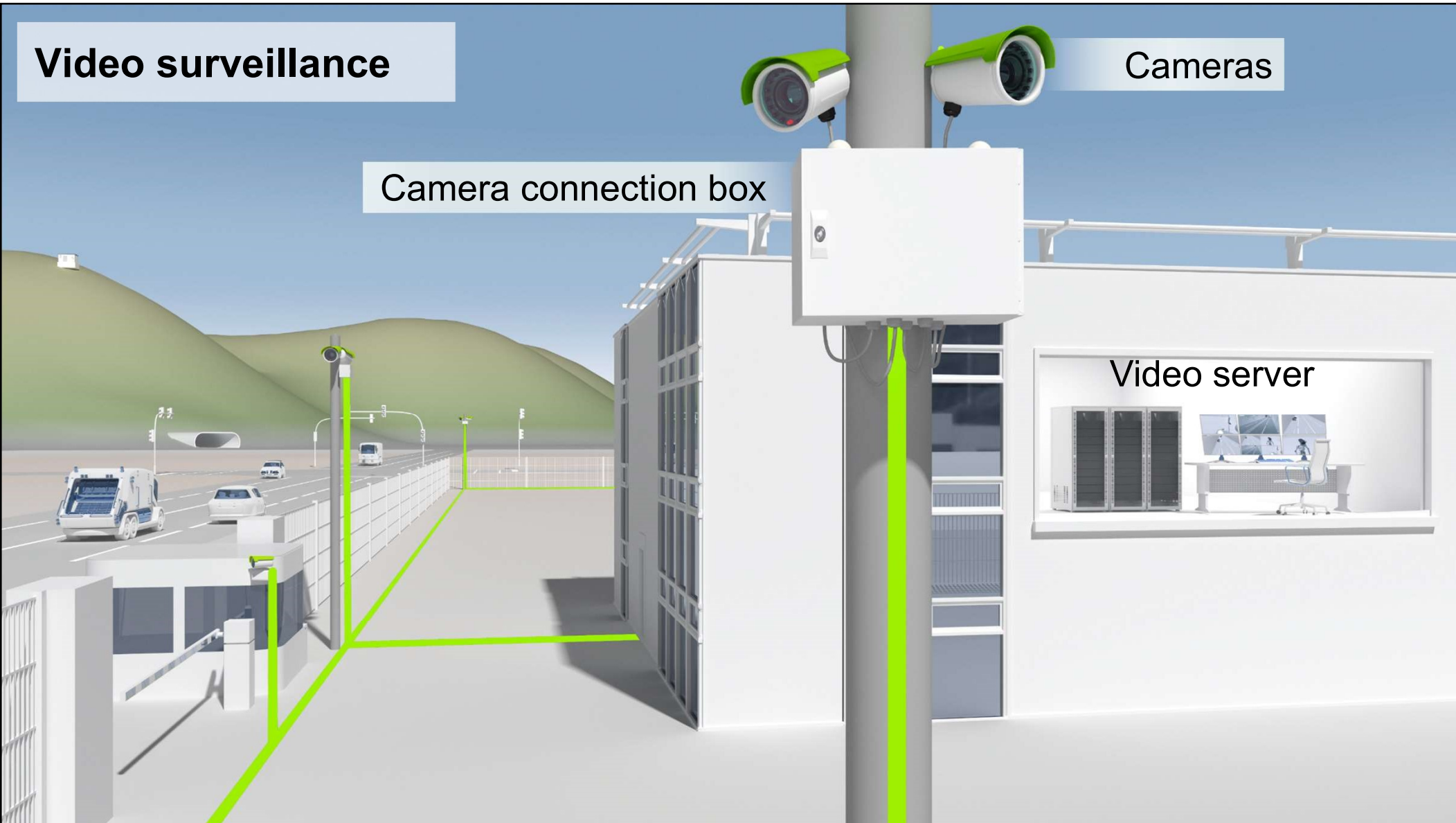


# Video surveillance

Cameras

Camera connection box

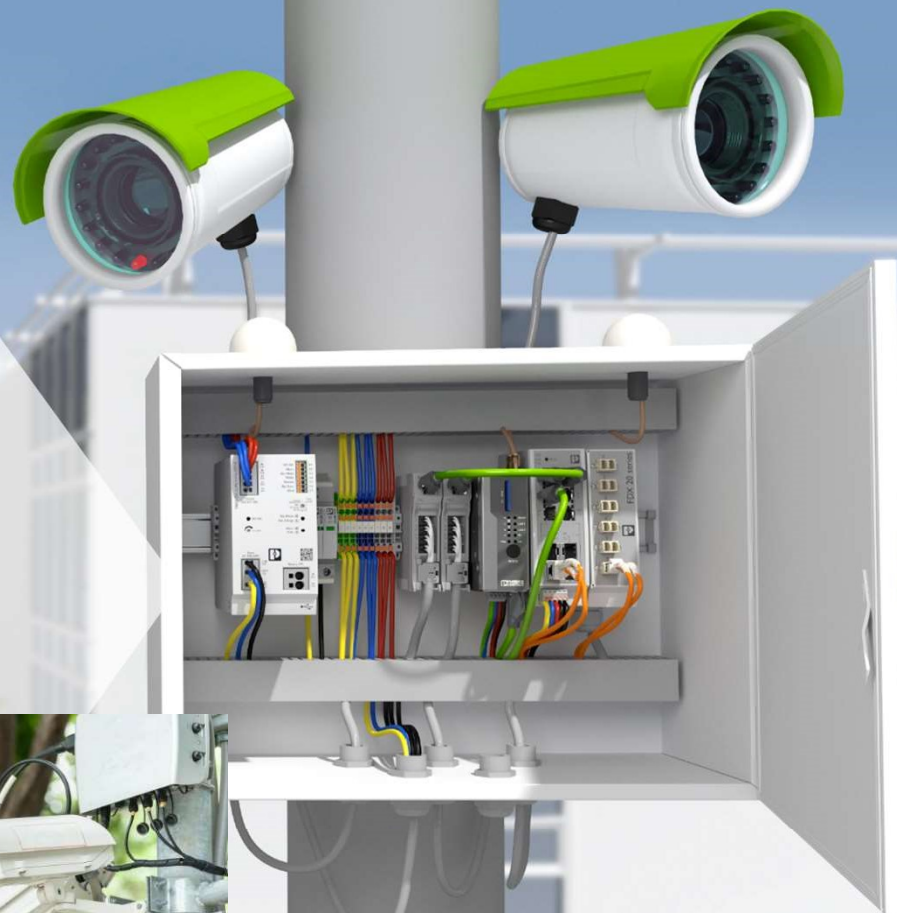
Video server



## Control cabinet solution

### ... typical camera connection box

- Switches
- Power supplies
- FO splice boxes
- Surge protection
- Patch Panels
- Data cables
- Device plug
- ...





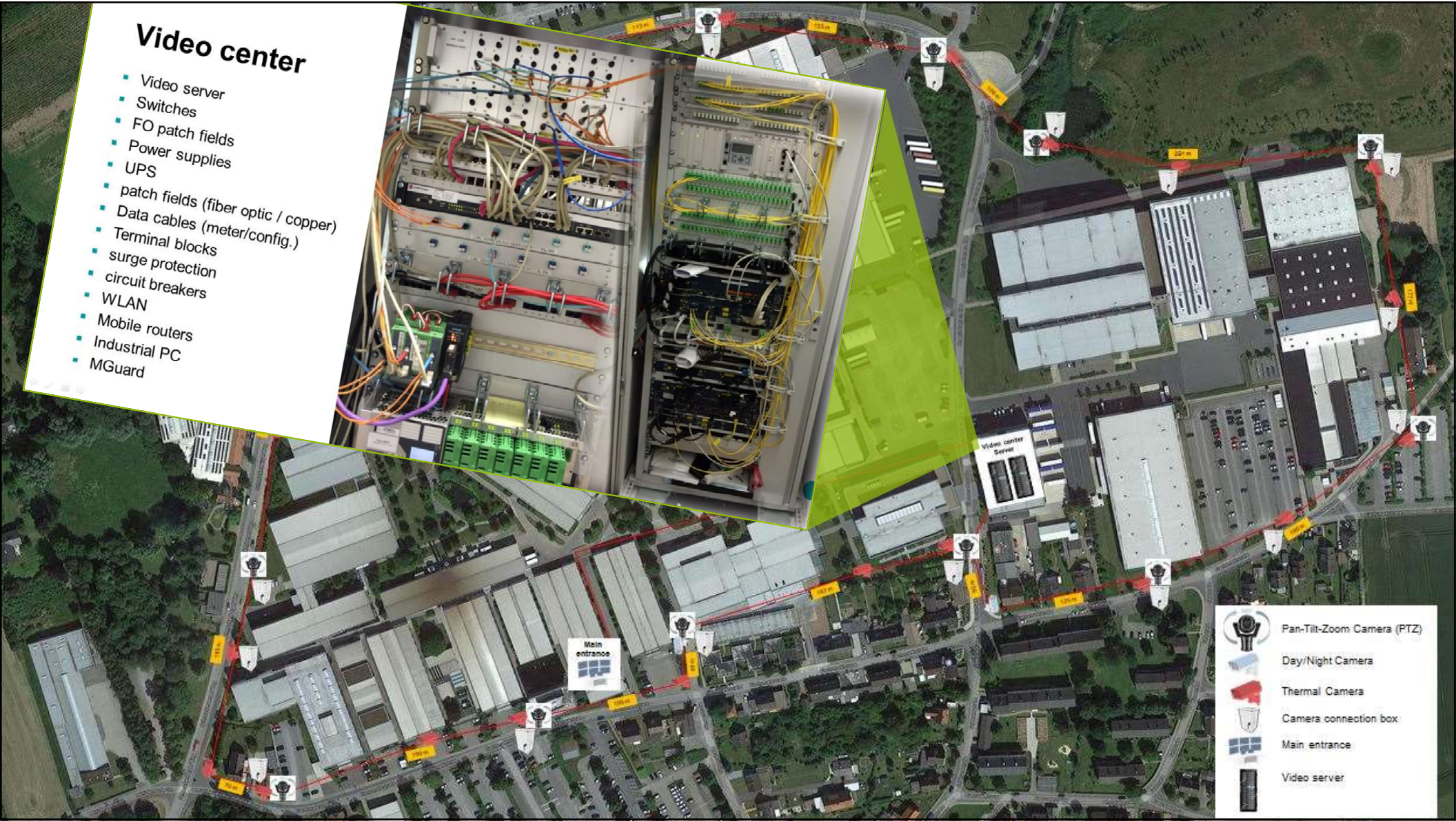
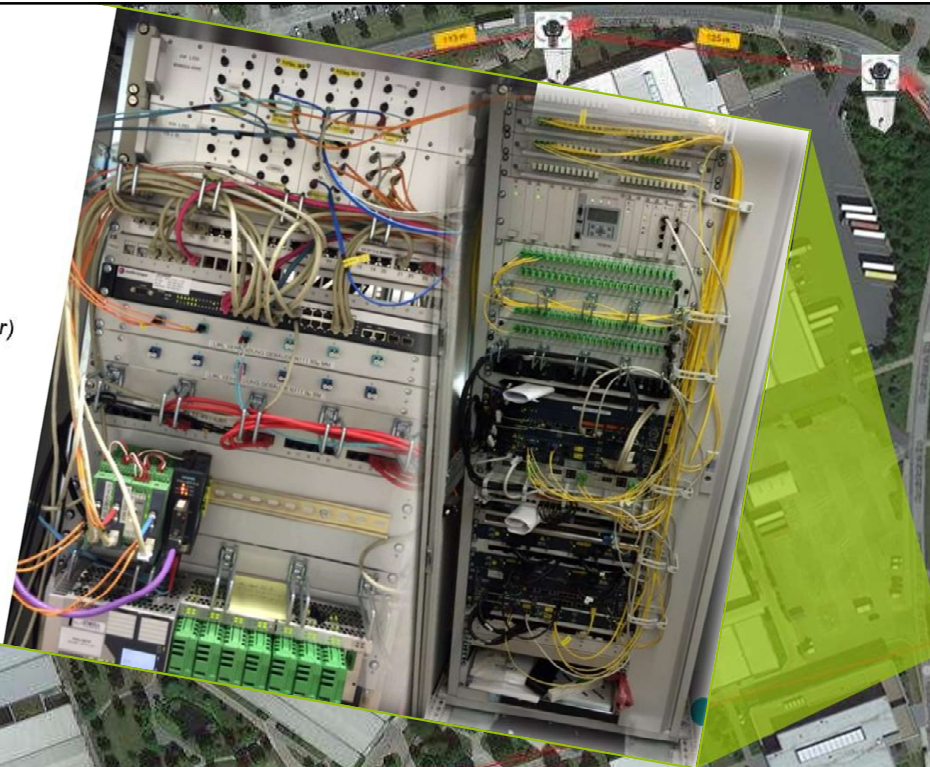
## Camera connection box

- Switches
- Power supplies
- UPS
- FO splice boxes
- Data cables (meter/config.)
- device plugs
- patch panels
- Terminal blocks
- surge protection
- circuit breakers
- WLAN
- Mobile routers
- Industrial PC



## Video center

- Video server
- Switches
- FO patch fields
- Power supplies
- UPS
- patch fields (fiber optic / copper)
- Data cables (meter/config.)
- Terminal blocks
- surge protection
- circuit breakers
- WLAN
- Mobile routers
- Industrial PC
- MGuard



-  Pan-Tilt-Zoom Camera (PTZ)
-  Day/Night Camera
-  Thermal Camera
-  Camera connection box
-  Main entrance
-  Video server

# Some examples of surveillance applications



Smart Camera Box

## All-in-one device

The Smart Camera Box connects cameras installed in the field with the local network to transmit camera images to the video center.

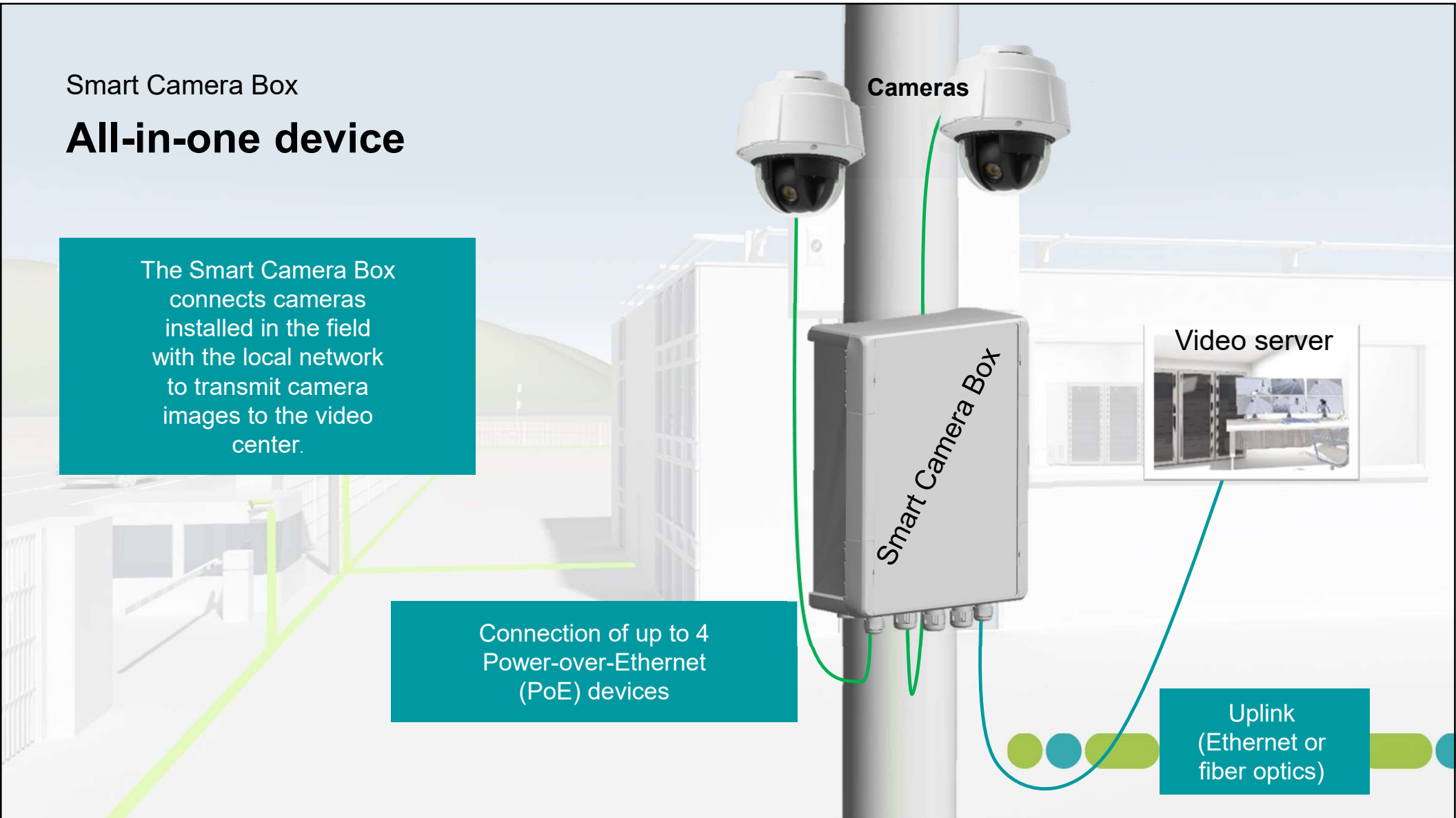
Connection of up to 4  
Power-over-Ethernet  
(PoE) devices

Cameras

Smart Camera Box

Video server

Uplink  
(Ethernet or  
fiber optics)



Smart Camera Box

## All-in-one device

Cameras

Up to 4 Power-over-Ethernet (PoE) devices  
(max. 90 W per port)

Reliable data  
communication  
RSTP, VLAN  
Multicast filtering

Video server

Uplink  
(Ethernet or  
fiber optics)

## Smart Camera Box

# Features

The Smart Camera Box is a  
**All-in-one device**  
which contains all the  
functionalities of a standard  
camera box

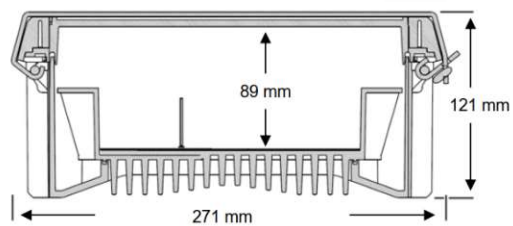
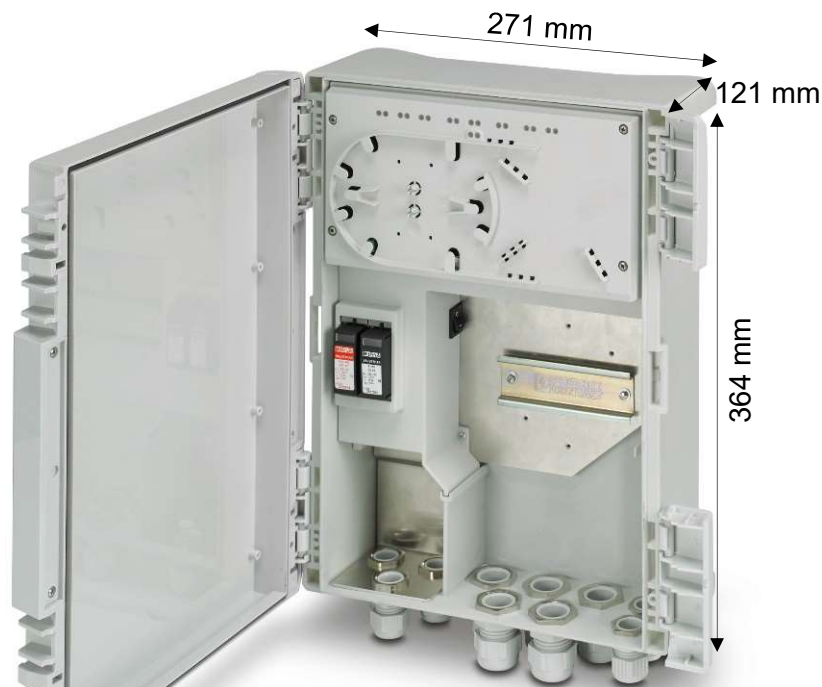


# Smart Camera Box

## Overview

Housing for outdoor  
use  
IP65/IP67  
IK10

Mounting adapter  
for pole and wall



Smart Camera Box

## Housing

Front view



**Wall mounting**  
Holes for direct mounting  
on a wall

Back view



**Lightweight,  
robust casing**

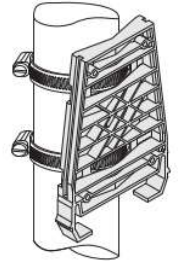
IP65 / IP67 - Outdoor housing  
IK10 - Vandalism proof

**Mounting adapter**

Provides secure fit  
Hidden release mechanism,  
can only be released with a tool

Smart Camera Box

# Mounting adapter



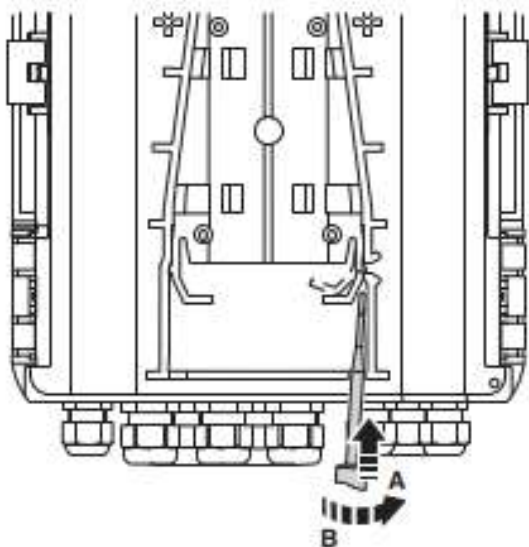
Mounting adapter for pole and wall

Smart Camera Box

## Installation - mounting - mounting adapter

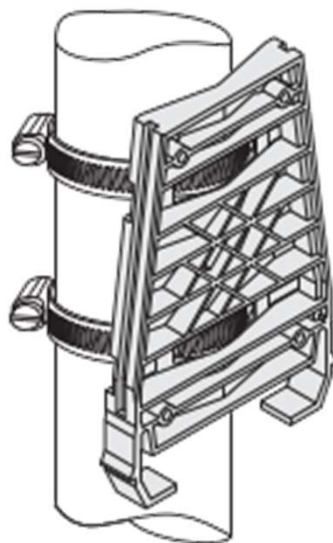
### Installation with mounting adapter

1. Attach the mounting adapter
2. Click the box on the adapter
3. Connect the cables
4. Done!

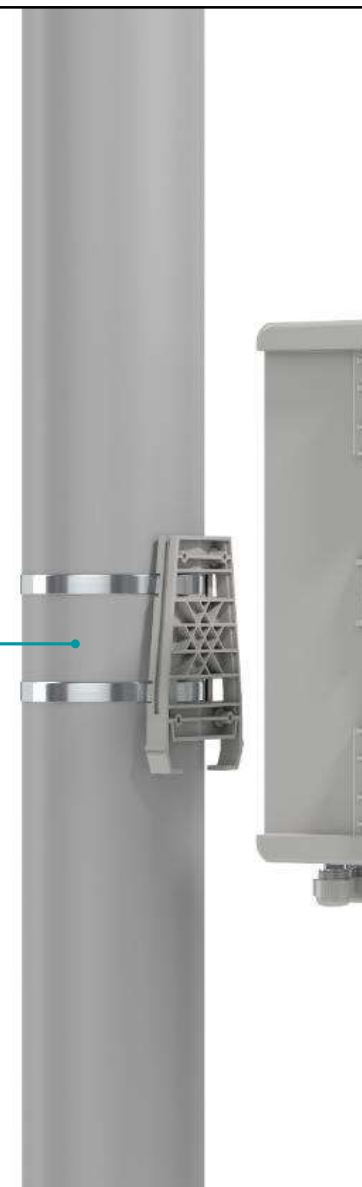


### Disassembly

Pry open the latch with a screwdriver



Mounting adapter for  
pole and wall



Smart Camera Box

## Mechanical safety

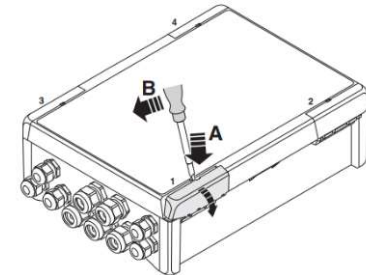
Door bolt with locking tab  
Accessories SCX-DOOR-  
LOCK Part No.: 1184401



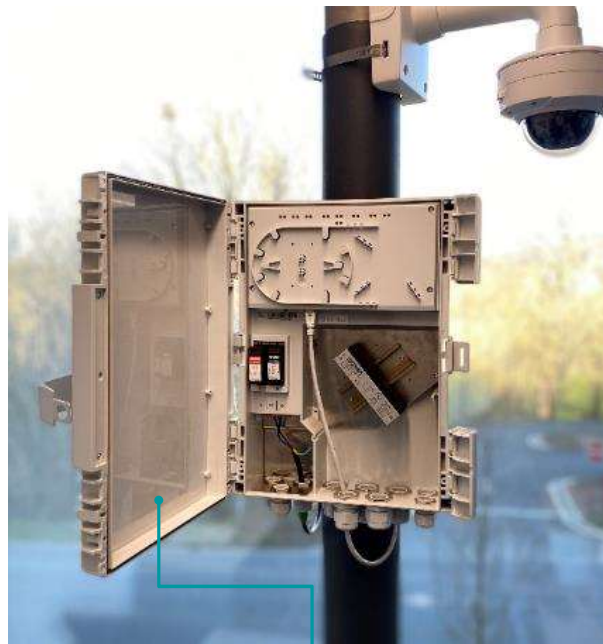
**Metal door interlock**  
Enables safe locking of the door

Smart Camera Box

# Flexible door mounting



Door hinge right



Door hinge left



Door removable

# Smart Camera Box

## Overview

**Housing for outdoor use**  
IP65/IP67  
IK10

**Mounting adapter**  
for pole and wall

**Power supply**  
100 VAC... 240 VAC

**Temperature range**  
-40°C ... +70°C

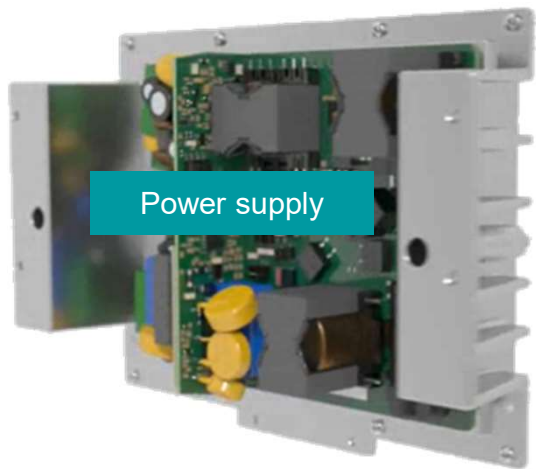


## Smart Camera Box Features

# Reliability - Heat sink

### Integrated heat sink

- Enables reliable use in harsh environments
- Temperature range **-40° C ... +70° C**



# Smart Camera Box

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100 VAC... 240 VAC

**Temperature range**  
-40°C ... +70°C



Cable entry

Smart Camera Box

## Installation - Cable entry

### Direct connection of pre-assembled patch cables

- Due to the slotted seal, the connectors fit directly through the cable glands
- Error-free and fast !



# Smart Camera Box

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**Temperature range**  
-40°C ... +70°C



**Device switch on/off**

**Cable entry**

# Smart Camera Box

## Overview

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IK10

**Mounting adapter**  
for pole and wall

**Power supply**  
100 VAC... 240 VAC

**Temperature range**  
-40°C ... +70°C

**Overvoltage protection**  
for 230 V AC supply  
Exchangeable and status via  
SNMP

**Cable entry**

**Device switch on/off**



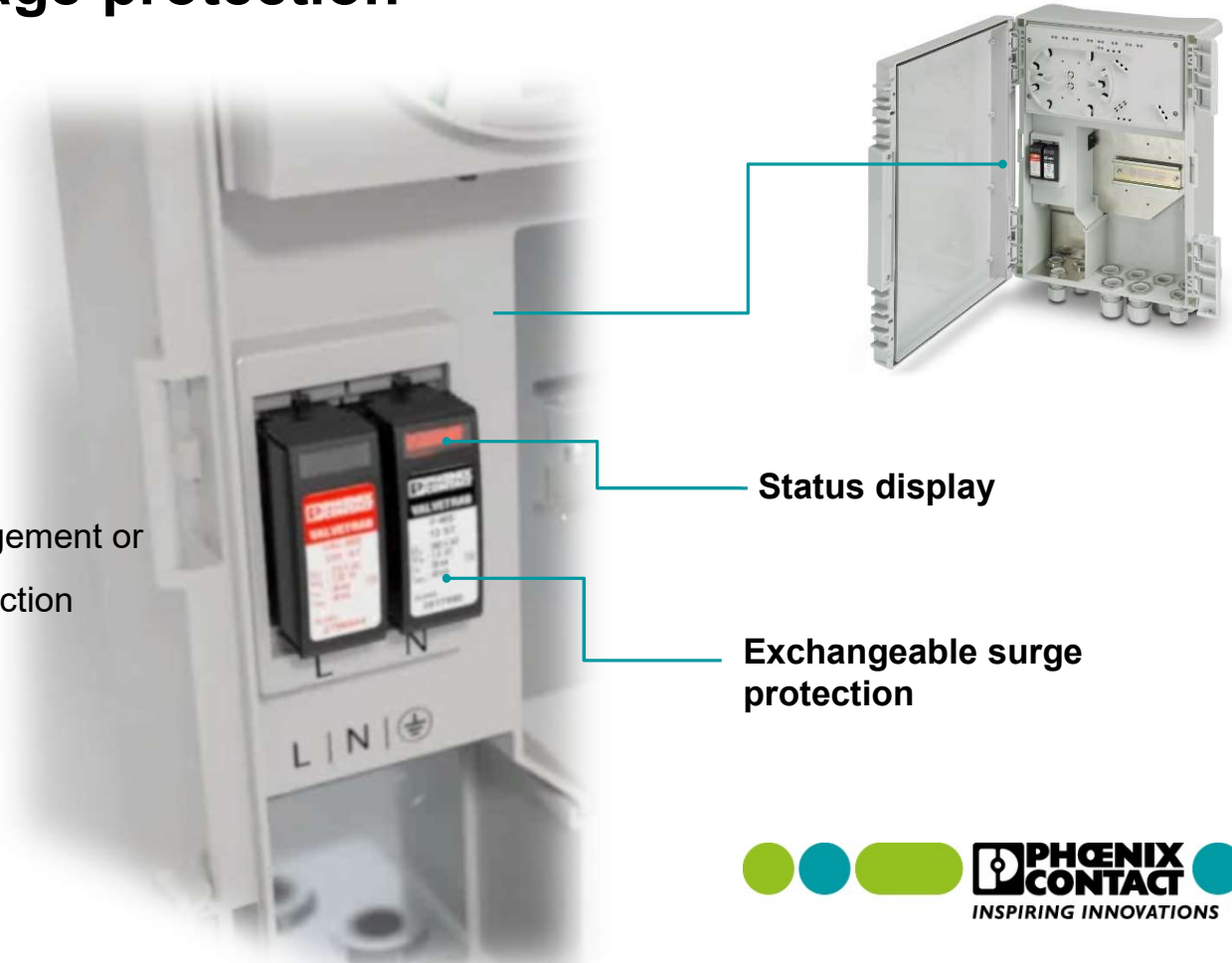
Smart Camera Box

## Reliability - Overvoltage protection

### Integrated overvoltage protection

- Exchangeable, pluggable
- Alarm message via Web-based management or SNMP in case of defective surge protection

Surge protection modules:  
VAL-MS 230 ST, item no. 2798844  
VAL-MS 350 VF ST, item no. 2856595



Status display

Exchangeable surge protection

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SNMP



**managed Ethernet switch**  
10/100/1000 Mbps  
Up to 4 PoE camera connections  
and 2 uplink ports  
Up to 90 W per port (IEEE802.3bt)  
Flexible power management

**Uplink to the Video Center (variants)**  
2 x FO with SFP adapter or  
2 x standard Ethernet

**Device switch on/off**

**Cable entry**

Smart Camera Box

## Ethernet Management

### Reliable networks

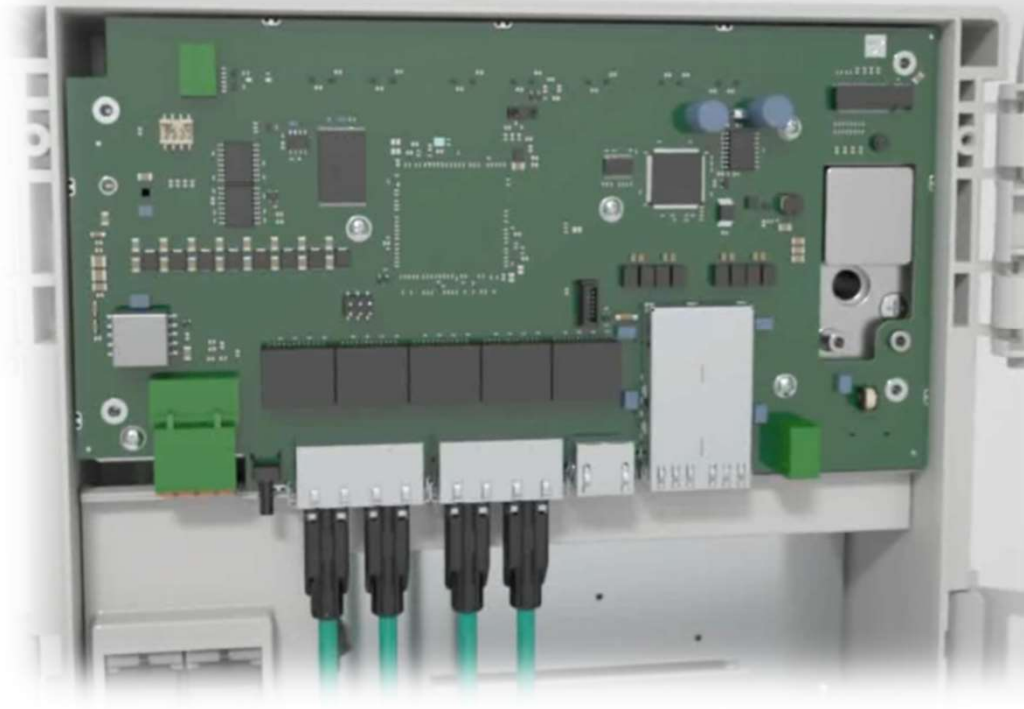
- ✓ Redundancy for fail-safe networks
- ✓ VLANs
- ✓ Multicast filtering

### Power-over-Ethernet

- ✓ Power supply of cameras with up to **90 W** per connection (new standard IEEE802.3bt)
- ✓ **Alarm message** when the temperature or power budget is exceeded

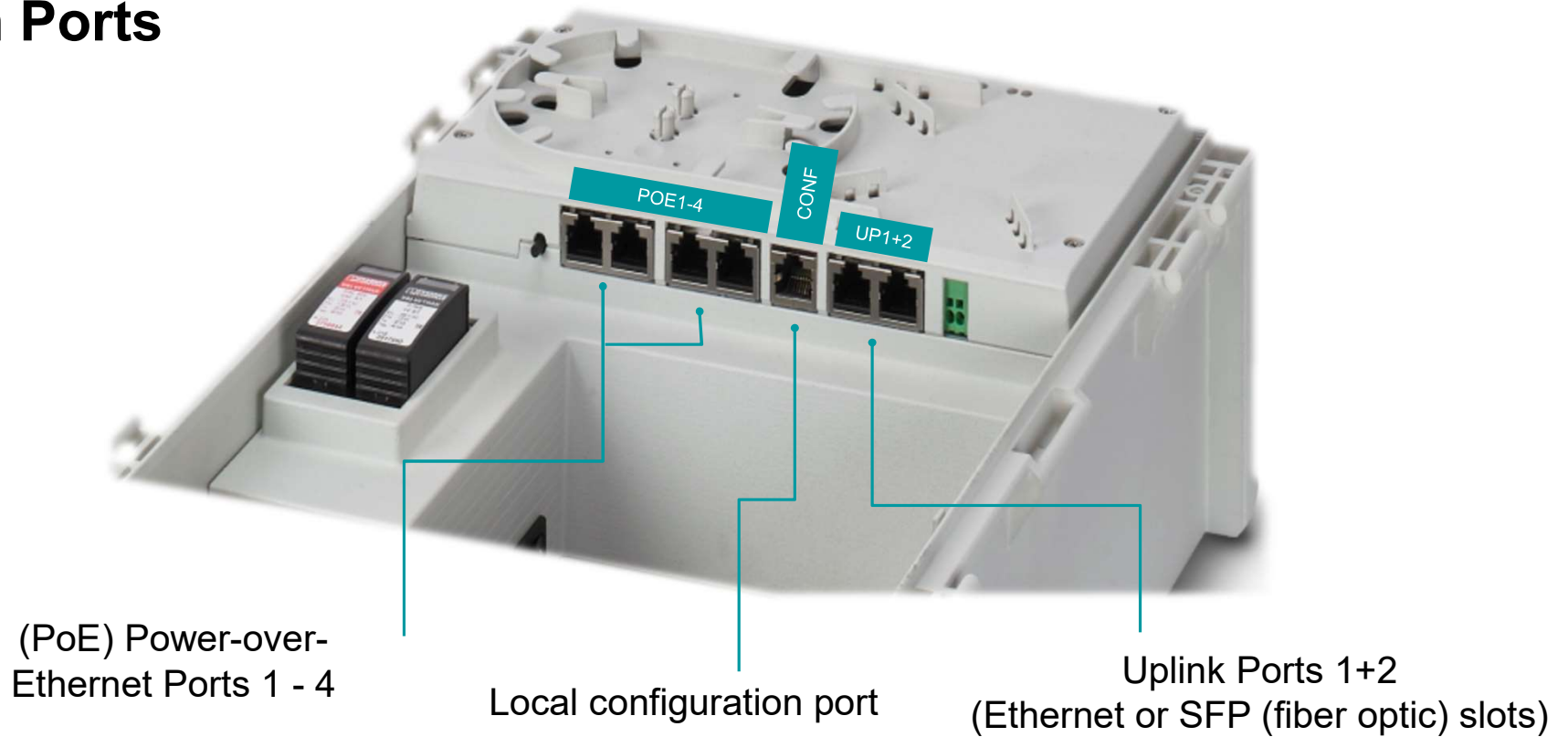
### Flexible configuration options

- ✓ web-based management
- ✓ FL NETWORK Manager software support
- ✓ SNMP, CLI



Smart Camera Box

## Switch Ports



# Smart Camera Box Overview

**Housing for outdoor use**  
IP65/IP67  
IK10

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**Power supply**  
100 VAC... 240 VAC

**Temperature range**  
-40°C ... +70°C

**Integrated splice cassette**  
for FO cable

**managed Ethernet switch**  
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**Device switch on/off**

**Overvoltage protection**  
for 230 V AC supply  
Exchangeable and status via  
SNMP

**Cable entry**

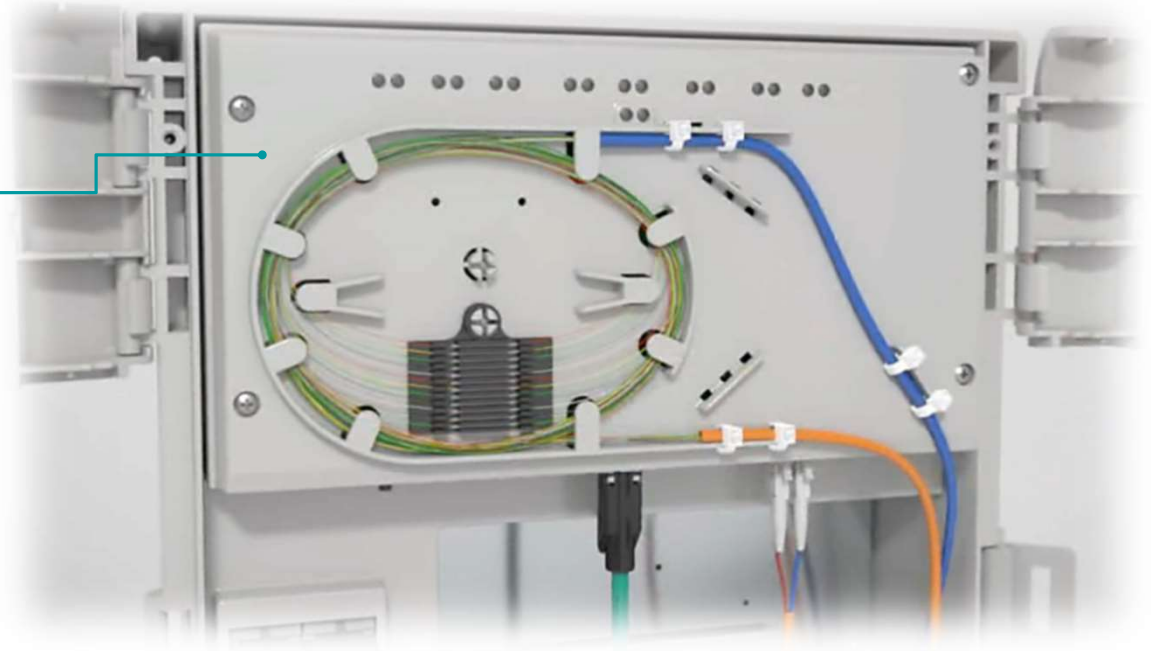


Smart Camera Box

## Installation - Splice Box

### Integrated FO splice cassette

- No additional splice box required
- Secure connection of all fibre optic cables
- Improved cable routing within the box



# Smart Camera Box Overview

**Housing for outdoor use**  
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**Power supply**  
100 VAC... 240 VAC

**Temperature range**  
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**Integrated splice cassette**  
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**Uplink to the Video Center (variants)**  
2 x FO with SFP adapter or  
2 x standard Ethernet

**Device switch on/off**

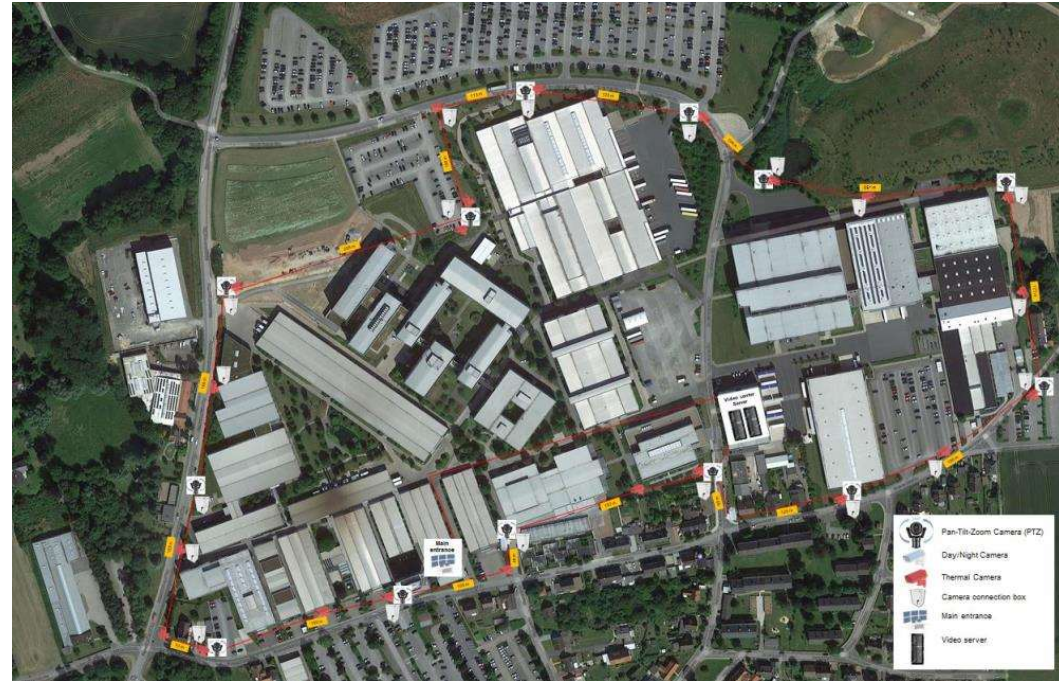
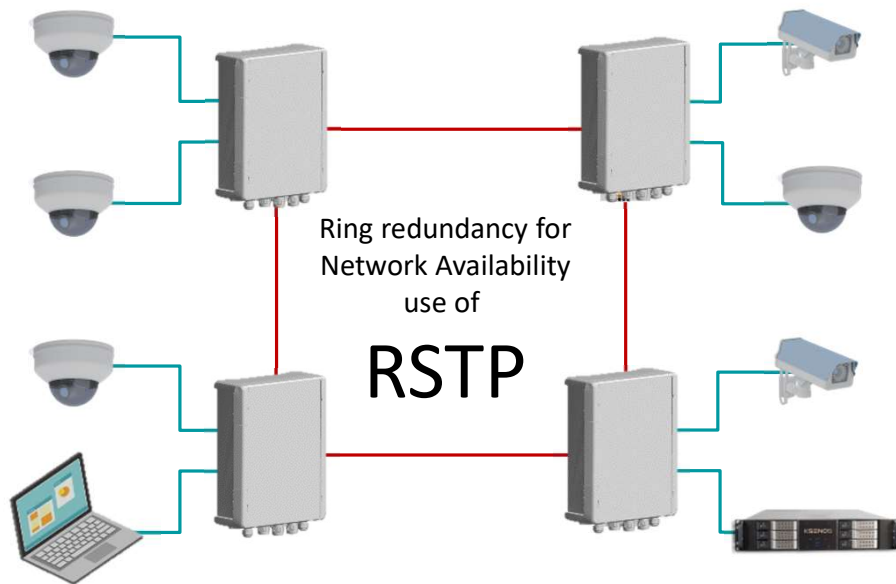
**Reliable data communication**  
RSTP, VLAN  
Multicast filtering

**Overvoltage protection**  
for 230 V AC supply  
Exchangeable and status via  
SNMP

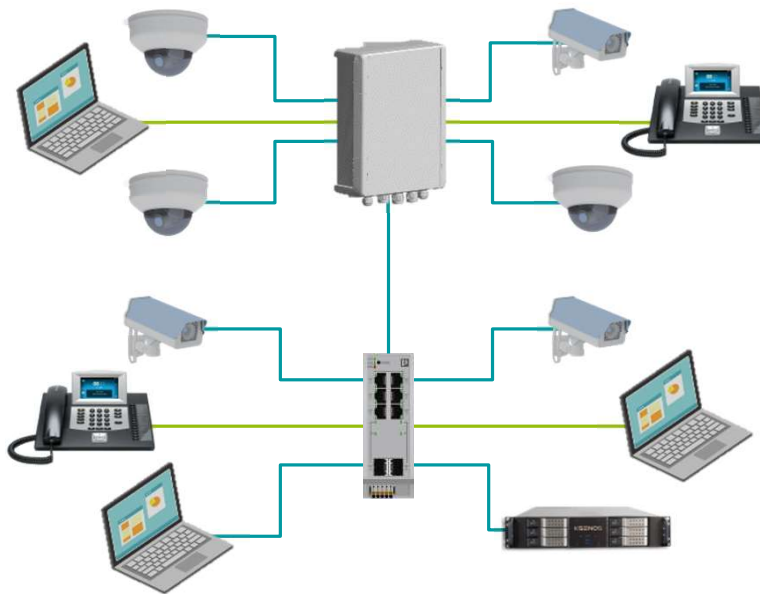
**Cable entry**



## Smart Camera Box Network structure



## Smart Camera Box Network structure



Video Security

Office

Combination of both networks

Use of **VLAN** for

**Safety** and  
**Priority setting**

# Smart Camera Box Overview

**Housing for outdoor use**  
IP65/IP67  
IK10

**Mounting adapter**  
for pole and wall

**Power supply**  
100 VAC... 240 VAC

**Temperature range**  
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Up to 4 PoE camera connections  
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**Uplink to the Video Center (variants)**  
2 x FO with SFP adapter or  
2 x standard Ethernet

**Device switch on/off**

**Reliable data communication**  
RSTP, VLAN  
Multicast filtering

**Flexible configuration**  
web-based management  
Configuration software (FL NETWORK MANAGER)  
SNMP, CLI  
Smart mode button

**Overvoltage protection**  
for 230 V AC supply  
Exchangeable and status via  
SNMP

**Cable entry**

# Smart Camera Box

## web-based management



Basic Setup Administration Configuration Diagnostics Information

Homepage

Home > Basic Setup

Basic Setup	
IP Address Assignment	STATIC
IP Address	Please enter 192.168.0.61
Network Mask	Please enter 255.255.0.0
Default Gateway	Please enter 0.0.0.0

IP address:

- STATIC: Enter static IP address manually
- BOOTP: IP address assignment via BootIP
- DHCP: IP address assignment via DHCP, delivery status



- basic setup
- Administration
- Configuration
- Diagnosis
- Information

# Smart Camera Box

## web-based management

### Port Configuration

Home > Configuration > Port Configuration

Port Configuration						
Name ⓘ	Status	Mode	Jumbo Frames	MTU [byte]	Default Priority ⓘ	Flow Control
UP1	Enabled ▼	Auto ▼	Disabled ▼	1536	0 ▼	Disabled ▼
UP2	Enabled ▼	Auto ▼	Disabled ▼	1536	0 ▼	Disabled ▼
CONF	Enabled ▼	Auto ▼	Disabled ▼	1536	0 ▼	Disabled ▼
POE1	Enabled ▼	Auto ▼	Disabled ▼	1536	0 ▼	Disabled ▼
POE2	Enabled ▼	Auto ▼	Disabled ▼	1536	0 ▼	Disabled ▼
POE3	Enabled ▼	Auto ▼	Disabled ▼	1536	0 ▼	Disabled ▼
POE4	Enabled ▼	Auto ▼	Disabled ▼	1536	0 ▼	Disabled ▼

# Smart Camera Box

## web-based management

Home > Configuration > Power Over Ethernet

Power Budget Alarm

PoE Power Threshold [%]

Please enter:  
90

i

PoE Port Configuration Table					
Name <i>i</i>	Port State <i>i</i>	Port Mode <i>i</i>	Power Pairs <i>i</i>	Power Priority <i>i</i>	Max Power Class <i>i</i>
POE1	Enabled ▾	Auto ▾	Both ▾	High ▾	Class 8 or 5D (90 W) ▾
POE2	Enabled ▾	Auto ▾	Both ▾	High ▾	Class 8 or 5D (90 W) ▾
POE3	Enabled ▾	Force ▾	Both ▾	High ▾	Class 8 or 5D (90 W) ▾
POE4	Enabled ▾	Force ▾	Signal ▾	High ▾	Class 4 or 3D (30 W) ▾

Power-over-Ethernet Configuration

# Smart Camera Box

## web-based management

Home > Configuration > SNMP

SNMP				
Trap List				
Index	11	Firmware Status Changed		<input checked="" type="checkbox"/>
1	12	Ip Conflict Persisted		<input checked="" type="checkbox"/>
2	13	Configuration Difference Detected		<input checked="" type="checkbox"/>
3	14	PoE Port on/off		<input checked="" type="checkbox"/>
4	15	PoE Power Threshold Exceeded		<input checked="" type="checkbox"/>
5	16	PoE Power Threshold Undershot		<input checked="" type="checkbox"/>
6	17	PoE Controller Thermal Shutdown		<input checked="" type="checkbox"/>
7	18	PoE Port Thermal Shutdown		<input checked="" type="checkbox"/>
8	19	Controller budget exhausted		<input checked="" type="checkbox"/>
9	20	Controller temp Critical		<input checked="" type="checkbox"/>
10	21	PoE watchdog event was triggered		<input checked="" type="checkbox"/>
	22	Vitals state changed		<input checked="" type="checkbox"/>

Simple Network  
Management  
Protocol

SNMP Traps

# Smart Camera Box

## web-based management

Home > Configuration > VLAN

VLAN Configuration

VLAN Mode

Management VLAN

VLAN Port Member

VLAN ID

1

100

200

VLAN Port Configuration Table

Port	VLAN ID	Default Priority	Filter
UP1	1	0	Disabled (check)
UP2	1	0	Disabled (check)
CONF	1	0	Disabled (check)
POE1	100	0	Enabled (secure)
POE2	100	0	Enabled (secure)
POE3	100	0	Enabled (secure)
POE4	100	0	Enabled (secure)

VLAN ID	VLAN Name	T	T	U	-	-	-	-	DELETE
1	VLAN 1	T	T	U	-	-	-	-	DELETE
100	Gas	T	T	-	U	U	U	U	DELETE
200	Water	T	T	-	-	-	-	-	DELETE

VLAN

# Smart Camera Box

## web-based management

Home > Configuration > Network Redundancy

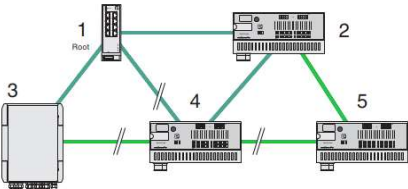
Spanning-Tree Configuration

RSTP Port Configuration Table

Name ⓘ	RSTP Enable ⓘ	Admin Path Cost ⓘ	Auto Edge ⓘ	Admin Edge ⓘ	Priority ⓘ
UP1	Enabled ▼	0	Enabled ▼	Non-Edge ▼	128
UP2	Enabled ▼	0	Enabled ▼	Non-Edge ▼	128
CONF	Enabled ▼	0	Enabled ▼	Non-Edge ▼	128
POE1	Enabled ▼	0	Enabled ▼	Non-Edge ▼	128
POE2	Enabled ▼	0	Enabled ▼	Non-Edge ▼	128
POE3	Enabled ▼	0	Enabled ▼	Non-Edge ▼	128
POE4	Enabled ▼	0	Enabled ▼	Non-Edge ▼	128

15

RSTP  
Rapid Spanning  
Tree Protocol



Smart Camera Box

## Security - Sabotage Alarm

### Integrated sensor

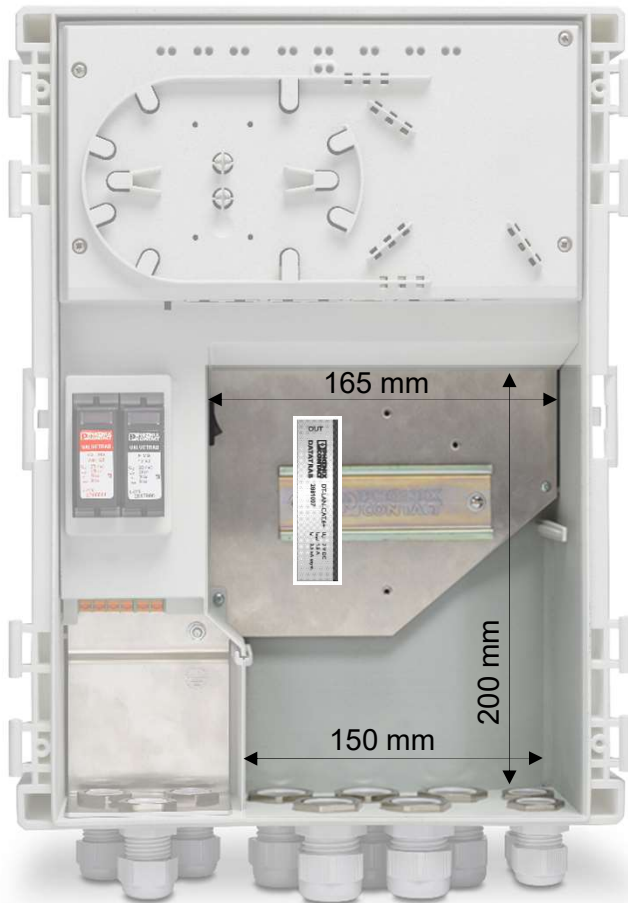
- Detects open and closed doors
- Alarm message via Ethernet (SNMP) as soon as the door is opened

Optical sensor



## Smart Camera Box

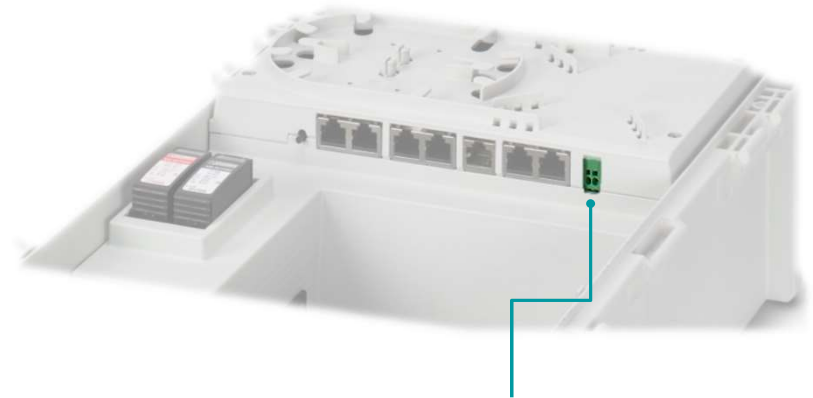
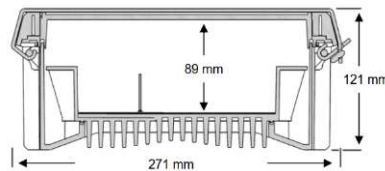
# Individual extension



### Integrated DIN rail

Allows the use of additional equipment, e.g.

- Overvoltage protection for data cables
- Relay for switching external lights etc.
- 4G router
- WLAN access point



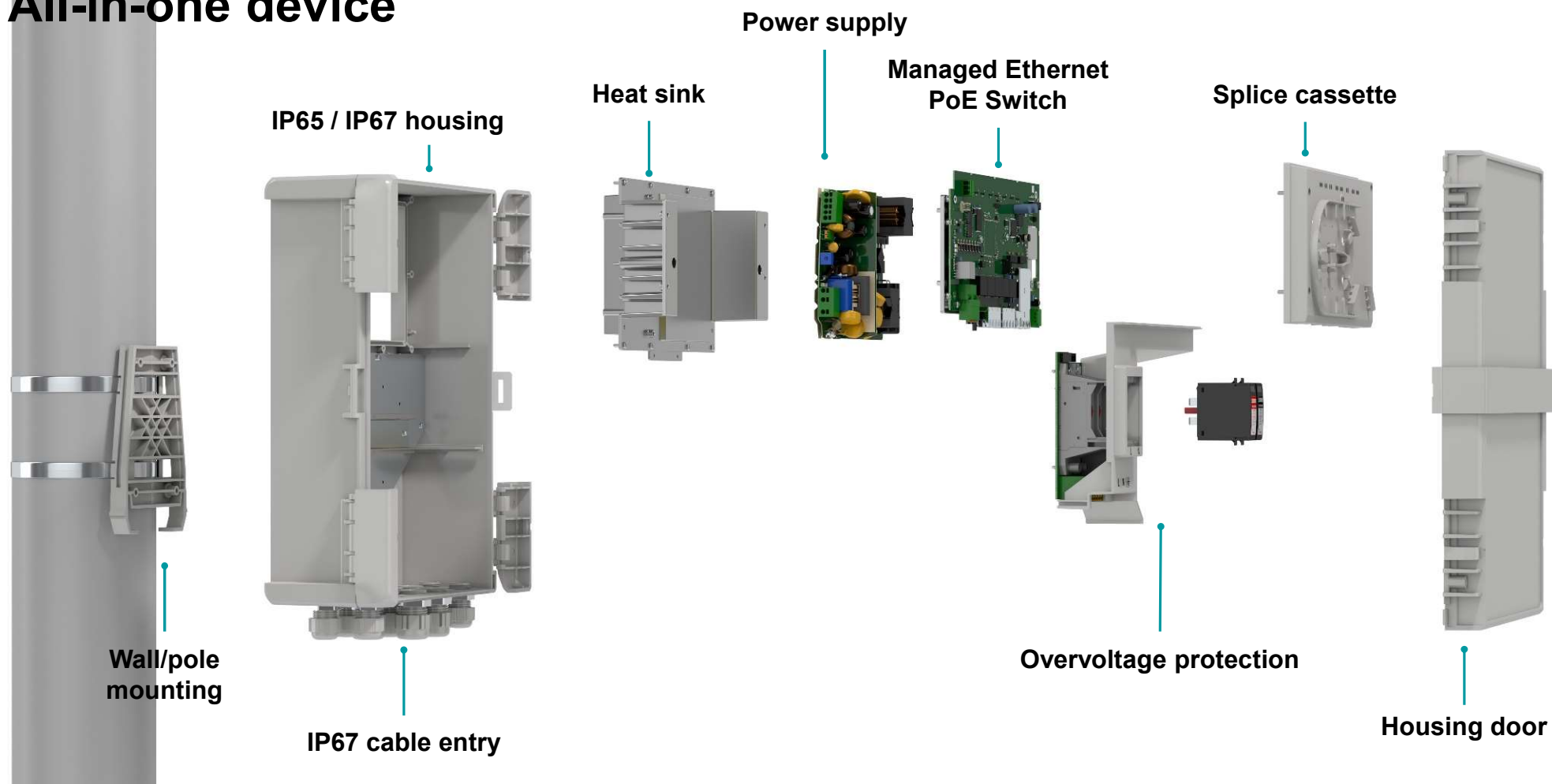
### 24 V DC output

- Power supply of additional devices
- Switchable via WBM and SNMP

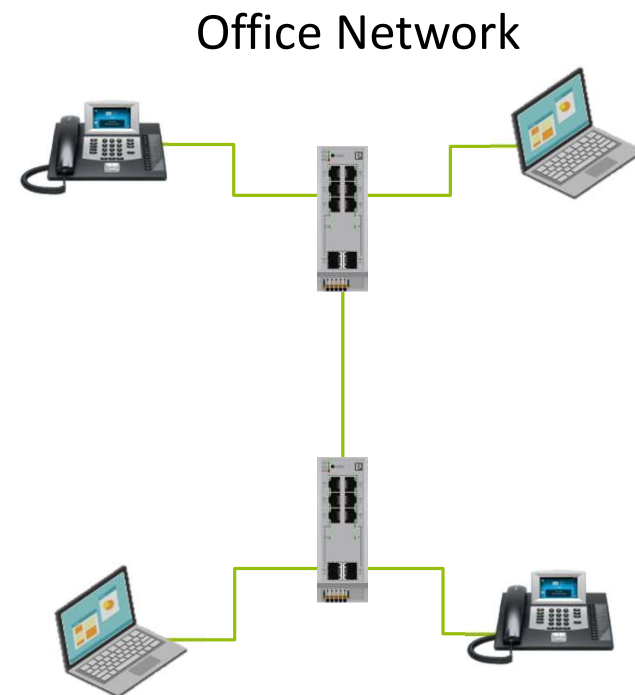
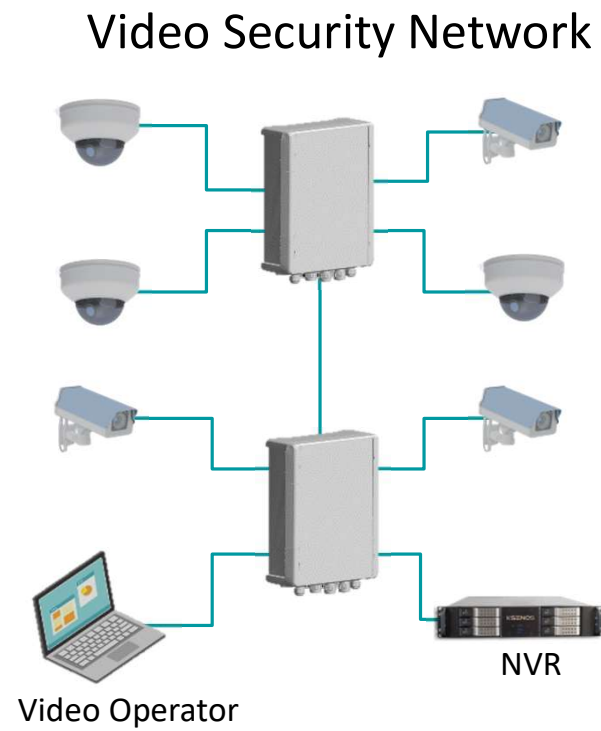


# Smart Camera Box

## All-in-one device



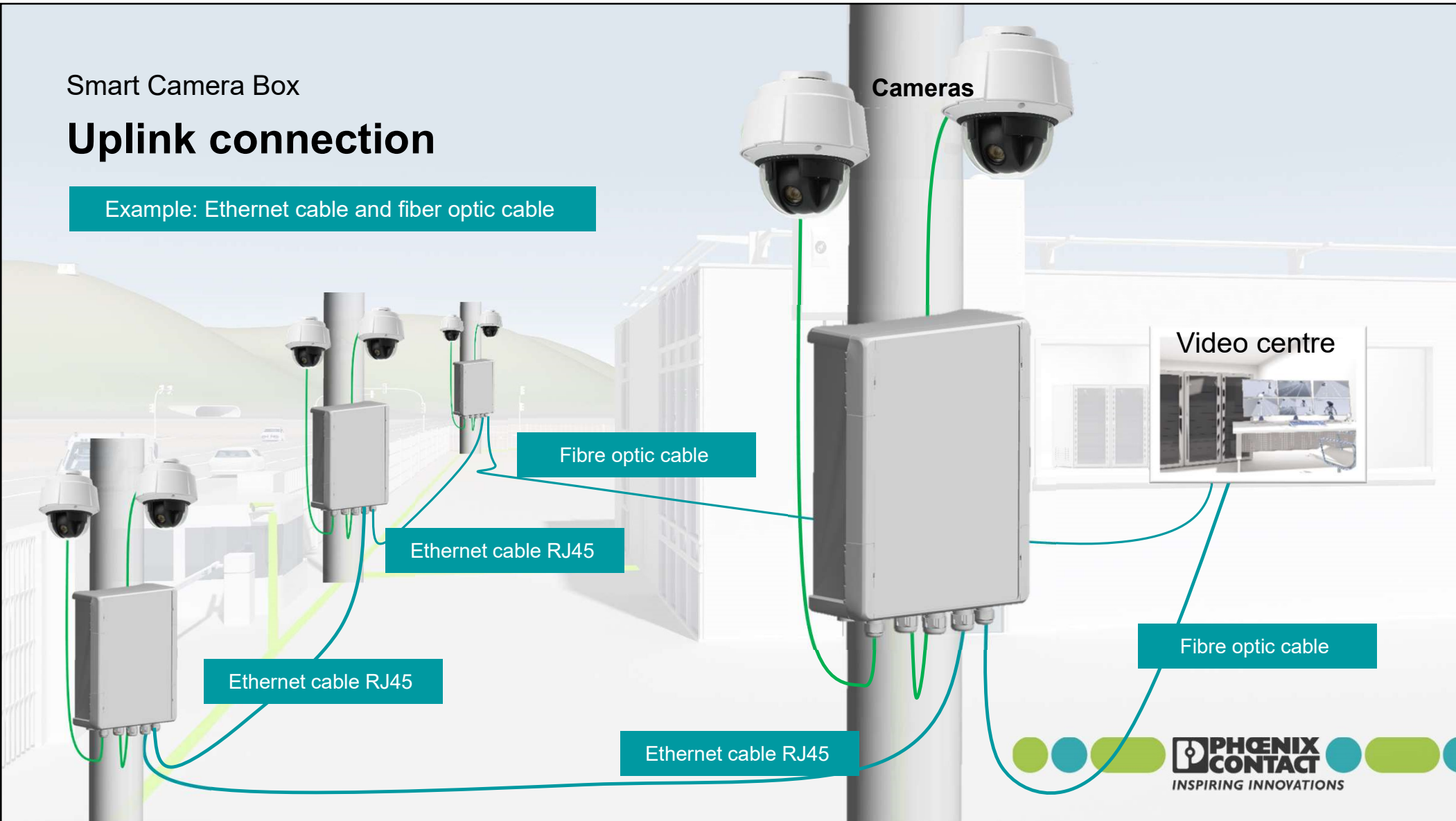
## Smart Camera Box Network structure



Smart Camera Box

## Uplink connection

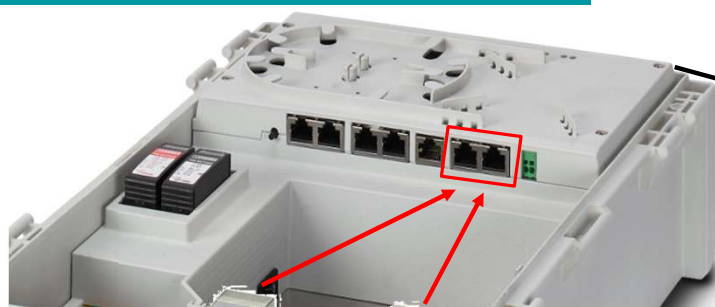
Example: Ethernet cable and fiber optic cable



Smart Camera Box

## Uplink connection

Example: Ethernet cables and optical fibres



UP1

UP2

SFP Module

**FL SFP GT - 2989420**

With a data transmission rate of 1000 MBit/s at a maximum transmission length of 100 m.

SFP Module

**FL SFP SX2 - 2702397**

With a data transmission rate of 1000 MBit/s at a wavelength of 1310 nm and a maximum transmission length of 2 km.

Other SFP modules are available!



Cameras



Video centre



Ethernet cable RJ45

Fibre optic cable

**PHOENIX CONTACT**  
INSPIRING INNOVATIONS

Smart Camera Box

## Customer benefits

### Quick and easy installation

- ✓ You **only** need to manage **one part number** instead of many devices
- ✓ Saves up to 70% installation time through innovative wall and pole mounting adapter
- ✓ Small and lightweight housing to allow installation by only one person instead of two

### Time saving

- ✓ No need to **plan** a complete cabinet with different devices
- ✓ No need to **install** and **wire** different devices in one cabinet

### Cost saving

- ✓ The Smart Camera Box is cheaper than standard camera boxes - All-In-One solution



*End customer*



*Video Installer*







*Wholesaler*



*System Integrator*

## Smart Camera Box

### Product portfolio

				
	SCX 4POE 2LX	SCX 2POE 2LX	SCX 4POE 2T	SCX 2POE 2T
Uplink ports	2 x fibre optic cable	2 x fibre optic cable	2 x Ethernet copper	2 x Ethernet copper
PoE ports	4	2	4	2
Item no.	1102626	1108543	1108542	1108544

# Smart Camera Box

## Accessories

Accessories	Type	Order No.	Pcs./Pkt.
Surge protection connector type 2 with high-capacity varistor for VAL-MS base element, thermal monitoring, visual fault warning. Design: 230 V AC	VAL-MS 230 ST	2798844	10
Surge protection connector type 2 with series connection consisting of varistor and gas-filled spark gap for VAL-MS base element, thermal monitoring, visual fault warning. Design: 350 V AC	VAL-MS 350 VF ST	2856595	10
Mast clamp with quick mounting connection for installation on masts with a diameter of 51 ... 127 mm	SCX-CLAMP 14X51-127	1175556	2
Mast clamp with quick mounting connection for installation on masts with a diameter of 102 ... 254 mm	SCX-CLAMP 14X102-254	1188634	2
Multi-mode OM4 duplex jumper, LC-LC, UPC polishing, length 5 m	FOC-LC:PA-LC:PA-OM4:D01/5	1115621	1
Single-mode OS2 duplex jumper, LC-LC, UPC polishing, length 5 m	FOC-LC:PA-LC:PA-OS2:D01/5	1115626	1
Locking	SCX-DOOR-LOCK	1184401	1
Gigabit SFP WDM module for transmission up to a maximum of 10 km on a single fiber with a wavelength of 1550/1310 nm.	FL SFP WDM10-B	2702441	1
Gigabit SFP module for transmission up to 2 km with a wavelength of 1310 nm.	FL SFP SX2	2702397	1
Gigabit SFP WDM module for transmission up to a maximum of 10 km on a single fiber with a wavelength of 1310/1550 nm.	FL SFP WDM10-A	2702440	1
Gigabit SFP module for transmission up to 10 km with a wavelength of 1310 nm.	FL SFP LX10-B	1025401	1
FL Network Manager, SNMP-based configuration and firmware update software, for easy startup of Managed Switches	FL NETWORK MANAGER BASIC	2702889	1

Smart Camera Box

**Fast Installation**  
**Ready to use**




Video SMART CAMERA BOX

# Smart Camera Box

## Product page

**Industrial Ethernet Switch - SCX 4POE 2LX - 1102626** new




Smart Camera Box to connect PoE end devices, four PoE ports, two uplink ports (SFP slots), Managed Switch, integrated surge protection and splice tray, supply voltage 100 ... 240 V AC, wall or mast mounting

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**Industrial Ethernet Switch - SCX 2POE 2LX - 1108543** new




Smart Camera Box to connect PoE end devices, two PoE ports, two uplink ports (SFP slots), Managed Switch, integrated surge protection and splice tray, supply voltage 100 ... 240 V AC, wall or mast mounting

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**Industrial Ethernet Switch - SCX 4POE 2T - 1108542** new




Smart Camera Box to connect PoE end devices, four PoE ports, two uplink ports (RJ45), Integrated Managed Switch and surge protection, supply voltage 100 ... 240 V AC, wall or mast mounting

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**Industrial Ethernet Switch - SCX 2POE 2T - 1108544** new




Smart Camera Box to connect PoE end devices, four PoE ports, two uplink ports (RJ45), Integrated Managed Switch and surge protection, supply voltage 100 ... 240 V AC, wall or mast mounting

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## Smart camera box for video surveillance



**All-in-one device**

Video surveillance for industrial and commercial applications.

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## Video surveillance landing page



### Smart camera box for video surveillance



#### All-in-one device

Video surveillance for industrial and commercial applications.

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The smart camera box securely connects IP surveillance cameras to the video server. It integrates the functions from conventional connection boxes assembled with standard DIN rail devices in a single compact device. This saves time during planning and installation. The integrated mounting adapter for wall and mast mounting makes installation much easier and quicker. Numerous management and monitoring functions ensure reliable operation of the video system.

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#### Smart Camera Box



All-in-one-device for video surveillance.

New brochure  
incl. Smart Camera Box  
MNR 1128136/2020-01-30/01



#### Video surveillance for industrial applications

Reliable camera networks for a secure world

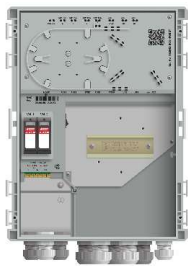


## Video



Surveillance Infrastructure

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