



Security Tech Germany

**CATALOGUE 2024**

# VIDEO IP

Intelligent IP cameras and special solutions that ensure top night vision, powerful recording solutions, network video recorders and software, video door intercoms and ABUS Link Station app



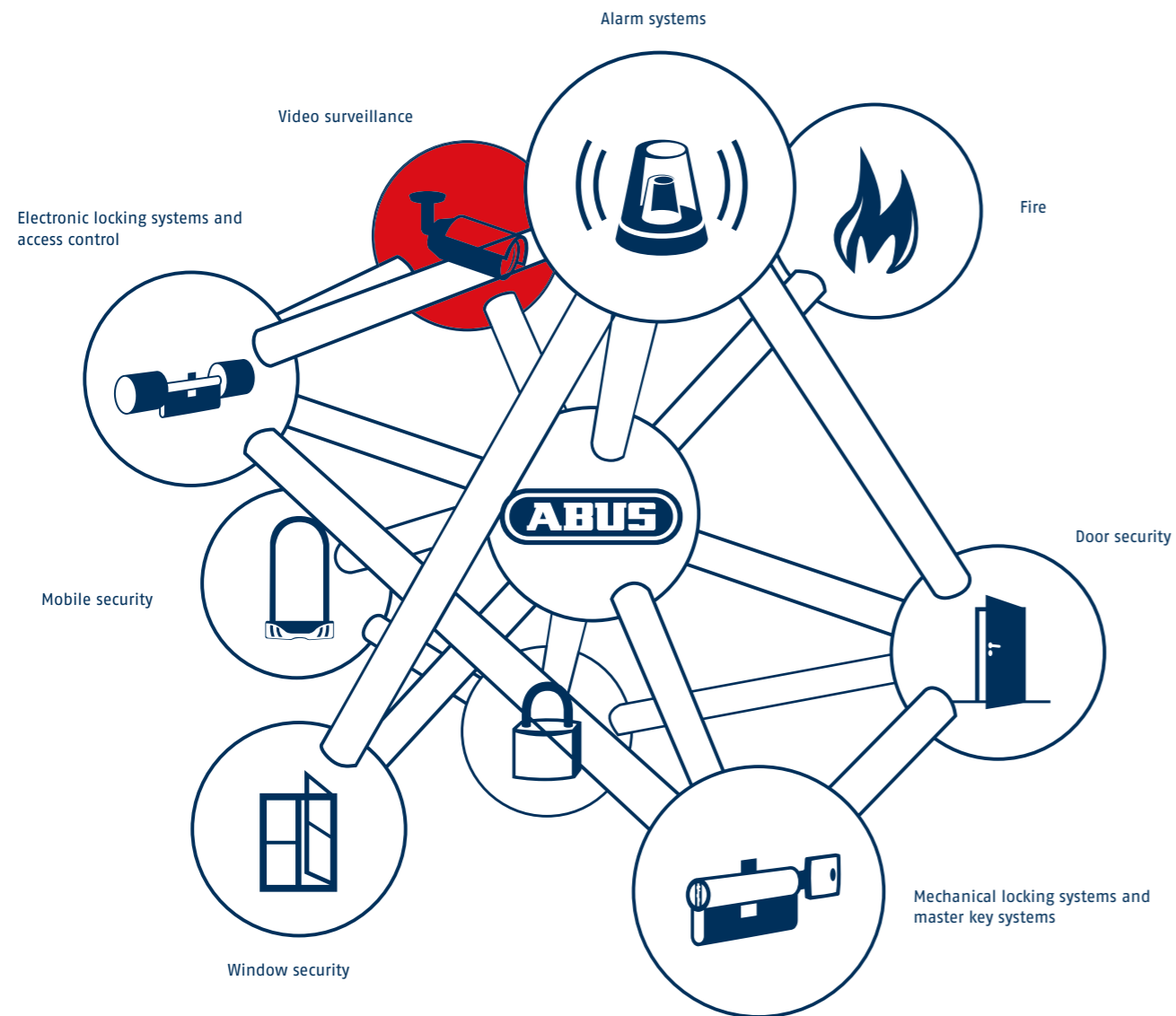
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In our latest catalogue, we are presenting the  
**2024 Video IP range** from ABUS Security Center.  
Detailed information for all products can be found at [abus.com](http://abus.com)

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**ABUS | August Bremicker Söhne**  
Home security, property security, mobile security

**ABUS | Security Center**  
Alarm systems, video surveillance, electronic security systems, electronic locking systems, access control, switching devices

**ABUS | Pfaffenhain**  
Mechanical locking systems and master key systems

ABUS Security Center belongs to the ABUS Group and is part of the well-known global security brand.

The ABUS Group and its subsidiaries have stood for comprehensive security for nearly 100 years. As a traditional company with many years of experience, ABUS continues to set new standards and trends in the field of innovative security technology with a particular focus on the smart interplay between electronics and mechanics.

High-quality security solutions are the result of the interplay of various factors such as hardware and software, service and advice - and the fusion of separate technologies into a comprehensive networked solution.

ABUS Security Center brings this philosophy of integrated security solutions to life with its products. And by doing so, it pursues the goal of making the everyday lives of its customers and users extra secure and comfortable.

# 360° SOLUTIONS FOR VIDEO SURVEILLANCE



## THE B·A·S STRUCTURE

Basic, Advanced, Special: our B·A·S model! With our various price and performance categories for cameras, the ABUS video IP range always provides the ideal technical parameters for your project. Depending on your task, you can combine the basic products for basic applications, advanced products for particular challenges and complex light situations, as well as our special products for surveillance solutions in a particularly challenging environment.

Our cameras, recorders and accessories are perfectly compatible. And this applies beyond the field of video surveillance: video, alarm, access control – the interconnectivity of the entire range of electronic security products makes us a full provider of integrated security solutions.

**You can therefore enjoy a fully compatible all-round range and order everything from one source – with ABUS quality!**

# MORE INTELLIGENCE. MORE PRECISION.



## MORE PROTECTION WITH LESS EFFORT

Intelligence in the camera itself. For high-quality image results by day and night at almost any distance. With automatic classification/evaluation of incidents for top security with low personnel deployment (precise motion alarms instead of frequent false alarms, quick incident search, triggering of automatic processes). Also available if required: cameras with thermal image sensor, 180° panoramic image, advanced alarm functions, etc.

## IN FOCUS: CLEAR ADVANTAGES

- Less personnel required: thanks to object detection, the camera delivers very few, highly precise motion alarms
- Less time: thanks to quick search with event filter (human, vehicle), relevant scenes are found much faster
- More security: clear colour images even at night and in absolute darkness thanks to colour night vision
- Total night vision with thermal camera: precise detection of dangers at long distances, even in fog, difficult terrain, etc.

## OBJECT RECOGNITION: INTELLIGENCE IN THE CAMERA

Almost all Professional cameras automatically recognise people and vehicles by means of intelligent software (AI algorithm) and distinguish them absolutely reliably from disturbing influences (clouds, light, shadows, trees/leaves, birds, etc.). Already as standard from the Basic line and also the popular Special cameras with colour night vision (see GECKO logo in the overview).

	Thermal camera (thermal image)	Optical camera		
		Standard (Basic)	Alarm function/ alarm output	PTZ function (latest generation)
High-precision detection, fewer false alarms	✓	✓	✓	✓
Detection at a very long distance	✓	✗	✗	✓
Detection in darkness and poor visibility	✓	✗	✗	✗
VCA scenarios	✓	✓	✓	✓
Quick search for human/vehicle	✓	✓	✓	✓
Early fire detection in the camera's field of view	✓	✗	✗	✗

## SECURITY, TIME & COST ADVANTAGES

- Higher security level, more applications and programmable scenarios (with VCA events)
- False alarms and the number of push notifications for VCA motion alarms are minimised
- Less memory space and write access to SD card required (only relevant scenes are saved)
- Quick search for events in the central recording (NVR, CMS) directly by person/vehicle
- Twice the security: the recorder (NVR) saves all events (for later search for another scene)
- Alarm camera: intercom and perpetrator addressing functions, local alarm and set-up of efficient processes with external networking (e.g. ticket machine triggers camera)
- Thermal cameras for precise detection up to 200 m, even at night, in fog, and with other disturbing influences, etc.
- ANPR camera: number plate recognition and fully automatic access control



# VIDEO IP OVERVIEW



The right camera for every application: from the efficient Basic model to Advanced and Special cameras with unique features and top performance characteristics.



**IPCB44611A** + **TVAC32420X**

Example camera: IP Mini Dome 4 MPx Black (2.8mm)

Example mount: Mini Dome Wall Mount, black

## IP CAMERA

<b>IPC</b>	<b>B</b>	<b>4</b>	<b>4</b>	<b>6</b>	<b>1</b>	<b>1</b>	<b>A</b>
TECHNOLOGY	PRODUCT LINE	DESIGN	RESOLUTION	COLOUR	PRODUCT SPECIFICATION	VERSIONS NUMBER	FOCAL LENGTH (FIXED LENSES)
Network camera	Product range B Basic A Advanced S Special	2 Special 3 Mini Tube 4 <b>Mini Dome</b> 5 Ball Dome 6 Tube 7 large domes 8 PTZ	2 2 MPx 3 3 MPx 4 4 MPx 5 5 MPx 8 8 MPx 9 12MPx	5 white 6 black	1 fixed lens 2 zoom lens 6 WiFi	E.g.: Version 1	A 2.8 mm B 4 mm

## IP CAMERA MOUNT

<b>TVAC</b>	<b>32</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>X</b>
VIDEO ACCESSORIES	RANGE	CAMERA DESIGN	MOUNT TYPE	VERSIONS NUMBER	COLOUR
Mount	IP camera Mounts & Brackets portfolio 2022	0 Universal (e.g. Corner mount) 3 Mini Tube 4 <b>Mini Dome</b> 5 Ball Dome 6 Tube 7 large domes	0 Installation box 1 Installation box for wall mount 2 wall mounts 3 Recessed ceiling frame	E.g. version 1	X black



white	IPCB44511A	IPCB44511B	IPCB44561A
black	IPCB44611A	IPCB44611B	-
	<b>IP Mini Dome 4 MPx (2.8 mm)</b>	<b>IP Mini Dome 4 MPx (4mm)</b>	<b>IP Mini Dome Wi-Fi 4 MPx (2.8mm)</b>
<b>Resolution</b>	4 MPx	4 MPx	4 MPx
<b>Image sensor</b>	1/2.7" Progressive Scan CMOS	1/2.7" Progressive Scan CMOS	1/2.7" Progressive Scan CMOS
<b>Horizontal angle of view</b>	103°	83°	103°
<b>Lens</b>	Fix	Fix	Fix
<b>Focal length</b>	2,8 mm	4 mm	2,8 mm
<b>Aperture at minimum illumination (color)</b>	F1,4	F1,4	F1,4
<b>ICR day/night function</b>	✓	✓	✓
<b>Minimum illumination (color)</b>	0.003 lx	0.003 lx	0.003 lx
<b>Minimum illumination (IR)</b>	0 lx	0 lx	0 lx
<b>IR range (up to)</b>	20 m	20 m	20 m
<b>Backlight compensation</b>	WDR, BLC, HLC	WDR, BLC, HLC	WDR, BLC, HLC
<b>Image enhancement</b>	WDR, BLC, HLC, 3D DNR, Vertical Display	WDR, BLC, HLC, 3D DNR, Vertical Display	WDR, BLC, HLC, 3D DNR, Vertical Display
<b>Video Content Analysis (VCA)</b>	Object tracking human & vehicle at Tripwire Detection, Intrusion Detection, Region Entrance, Region Exit	Object tracking human & vehicle at Tripwire Detection, Intrusion Detection, Region Entrance, Region Exit	Object tracking human & vehicle at Tripwire Detection, Intrusion Detection, Region Entrance, Region Exit
<b>Functions</b>	Scene Change Detection, Region of Interest	Scene Change Detection, Region of Interest	Scene Change Detection, Region of Interest
<b>Video compression</b>	Stream 1: H.264, H.265, Dynamic GOP (+), Stream 2: H.264, H.265, MJPEG, Stream 3: H.264, H.265	Stream 1: H.264, H.265, Dynamic GOP (+), Stream 2: H.264, H.265, MJPEG, Stream 3: H.264, H.265	Stream 1: H.264, H.265, Dynamic GOP (+), Stream 2: H.264, H.265, MJPEG, Stream 3: H.264, H.265
<b>Storage medium</b>	microSD card, 256 GB (opt.)	microSD card, 256 GB (opt.)	microSD card, 256 GB (opt.)
<b>Audio</b>	Integrated: Microphone	Integrated: Microphone	Integrated: Microphone; Connectable: Microphone, Loudspeaker
<b>Alarm input (NO/NC)</b>	-	-	-
<b>Alarm output</b>	-	-	-
<b>IK protection class</b>	8	8	8
<b>IP protection class</b>	67	67	67
<b>Compatible with Secoris</b>	✓	✓	✓
<b>Compatible with Secvest</b>	✓	✓	✓
<b>Compatible with wAppLoxx</b>	✓	✓	✓
<b>Compatible with wAppLoxx Pro</b>	✓	✓	✓
<b>Compatible with ABUS Link Station</b>	✓	✓	✓
<b>PoE Standard</b>	IEEE 802.3af	IEEE 802.3af	IEEE 802.3af



white	IPCB54511A	IPCB54511B	IPCB58511A	IPCB58511B
black	-	IPCB54611B	IPCB58611A	-
	<b>IP Ball Dome 4 MPx (2.8mm)</b>	<b>IP Ball Dome 4 MPx (4mm)</b>	<b>IP Ball Dome 8 MPx (2.8mm)</b>	<b>IP Ball Dome 8 MPx (4mm)</b>
<b>Resolution</b>	4 MPx	4 MPx	8 MPx	8 MPx
<b>Image sensor</b>	1/2.7" Progressive Scan CMOS	1/2.7" Progressive Scan CMOS	1/1,8" Progressive Scan CMOS	1/1,8" Progressive Scan CMOS
<b>Horizontal angle of view</b>	103°	95°	110°	87°
<b>Lens</b>	Fix	Fix	Fix	Fix
<b>Focal length</b>	2,8 mm	4 mm	2,8 mm	4 mm
<b>Aperture at minimum illumination (color)</b>	F1,4	F1,4	F1,4	F1,4
<b>ICR day/night function</b>	✓	✓	✓	✓
<b>Minimum illumination (color)</b>	0.003 lx	0.003 lx	0.003 lx	0.003 lx
<b>Minimum illumination (IR)</b>	0 lx	0 lx	0 lx	0 lx
<b>IR range (up to)</b>	30 m	30 m	30 m	30 m
<b>Backlight compensation</b>	WDR, BLC, HLC	WDR, BLC, HLC	WDR, BLC, HLC	WDR, BLC, HLC
<b>Image enhancement</b>	WDR, BLC, HLC, 3D DNR, Vertical Display	WDR, BLC, HLC, 3D DNR, Vertical Display	WDR, BLC, HLC, 3D DNR, Vertical Display	WDR, BLC, HLC, 3D DNR, Vertical Display
<b>Video Content Analysis (VCA)</b>	Object tracking human & vehicle at Tripwire Detection, Intrusion Detection, Region Entrance, Region Exit	Object tracking human & vehicle at Tripwire Detection, Intrusion Detection, Region Entrance, Region Exit	Object tracking human & vehicle at Tripwire Detection, Intrusion Detection, Region Entrance, Region Exit	Object tracking human & vehicle at Tripwire Detection, Intrusion Detection, Region Entrance, Region Exit
<b>Functions</b>	Scene Change Detection, Region of Interest	Scene Change Detection, Region of Interest	Scene Change Detection, Region of Interest	Scene Change Detection, Region of Interest
<b>Video compression</b>	Stream 1: H.264, H.265, Dynamic GOP (+), Stream 2: H.264, H.265, MJPEG, Stream 3: H.264, H.265	Stream 1: H.264, H.265, Dynamic GOP (+), Stream 2: H.264, H.265, MJPEG, Stream 3: H.264, H.265	Stream 1: H.264, H.265, Dynamic GOP (+), Stream 2: H.264, H.265, MJPEG, Stream 3: H.264, H.265	Stream 1: H.264, H.265, Dynamic GOP (+), Stream 2: H.264, H.265, MJPEG, Stream 3: H.264, H.265
<b>Storage medium</b>	microSD card, 256 GB (opt.)	microSD card, 256 GB (opt.)	microSD card, 256 GB (opt.)	microSD card, 256 GB (opt.)
<b>Audio</b>	-	-	-	-
<b>Alarm input (NO/NC)</b>	-	-	-	-
<b>Alarm output</b>	-	-	-	-
<b>IK protection class</b>	-	-	-	-
<b>IP protection class</b>	67	67	67	67
<b>Compatible with Secoris</b>	✓	✓	✓	✓
<b>Compatible with Secvest</b>	✓	✓	✓	✓
<b>Compatible with wAppLoxx</b>	✓	✓	✓	✓
<b>Compatible with wAppLoxx Pro</b>	✓	✓	✓	✓
<b>Compatible with ABUS Link Station</b>	✓	✓	✓	✓
<b>PoE Standard</b>	IEEE 802.3af	IEEE 802.3af	IEEE 802.3af	IEEE 802.3af



	IPC74521	IPC78521
	<b>IP Dome 4 MPx (2.8-12 mm)</b>	<b>IP Dome 8 MPx (2.8 - 12mm)</b>
<b>Resolution</b>	4 MPx	8 MPx
<b>Image sensor</b>	1/2.7" Progressive Scan CMOS	1/1.8" Progressive Scan CMOS
<b>Horizontal angle of view</b>	30 – 108°	45 – 108°
<b>Motorzoom</b>	Motor-Zoom	Motor-Zoom
<b>Focal length</b>	2,8 – 12,0 mm	2,8 – 12,0 mm
<b>Aperture at minimum illumination (color)</b>	F1,4	F1,4
<b>ICR day/night function</b>	✓	✓
<b>Minimum illumination (color)</b>	0.003 lx	0.003 lx
<b>Minimum illumination (IR)</b>	0 lx	0 lx
<b>IR range (up to)</b>	40 m	40 m
<b>Backlight compensation</b>	WDR, BLC, HLC	WDR, BLC, HLC
<b>Image enhancement</b>	WDR, BLC, HLC, 3D DNR, Vertical Display	WDR, BLC, HLC, 3D DNR, Vertical Display
<b>Video Content Analysis (VCA)</b>	Object tracking human & vehicle at Tripwire Detection, Intrusion Detection, Region Entrance, Region Exit	Object tracking human & vehicle at Tripwire Detection, Intrusion Detection, Region Entrance, Region Exit
<b>Functions</b>	Scene Change Detection, Region of Interest	Scene Change Detection, Region of Interest
<b>Video compression</b>	Stream 1: H.264, H.265, Dynamic GOP (+), Stream 2: H.264, H.265, MJPEG, Stream 3: H.264, H.265	Stream 1: H.264, H.265, Dynamic GOP (+), Stream 2: H.264, H.265, MJPEG, Stream 3: H.264, H.265
<b>Storage medium</b>	microSD card, 256 GB (opt.)	microSD card, 256 GB (opt.)
<b>Audio</b>	Connectable: Microphone, Loudspeaker	Connectable: Microphone, Loudspeaker
<b>Alarm input (NO/NC)</b>	1	1
<b>Alarm output</b>	1	1
<b>IK protection class</b>	10	10
<b>IP protection class</b>	67	67
<b>Compatible with Secoris</b>	✓	✓
<b>Compatible with Secvest</b>	✓	✓
<b>Compatible with wAppLoxx</b>	✓	✓
<b>Compatible with wAppLoxx Pro</b>	✓	✓
<b>Compatible with ABUS Link Station</b>	✓	✓
<b>PoE Standard</b>	IEEE 802.3af	IEEE 802.3af



white	IPC34511A	IPC34511B	IPC38511A	IPC38511B
black	IPC34611A			
	<b>IP Mini Tube 4 MPx (2.8 mm)</b>	<b>IP Mini Tube 4 MPx (4mm)</b>	<b>IP Mini Tube 8 MPx (4K, 2.8 mm)</b>	<b>IP Mini Tube 8 MPx (4K, 4mm)</b>
<b>Resolution</b>	4 MPx	4 MPx	8 MPx	8 MPx
<b>Image sensor</b>	1/2.7" Progressive Scan CMOS	1/2.7" Progressive Scan CMOS	1/1.8" Progressive Scan CMOS	1/1.8" Progressive Scan CMOS
<b>Horizontal angle of view</b>	103°	83°	102°	78°
<b>Lens</b>	Fix	Fix	Fix	Fix
<b>Focal length</b>	2,8 mm	4 mm	2,8 mm	4 mm
<b>Aperture at minimum illumination (color)</b>	F1,4	F1,4	F1,4	F1,4
<b>ICR day/night function</b>	✓	✓	✓	✓
<b>Minimum illumination (color)</b>	0.003 lx	0.003 lx	0.003 lx	0.003 lx
<b>Minimum illumination (IR)</b>	0 lx	0 lx	0 lx	0 lx
<b>IR range (up to)</b>	30 m	30 m	30 m	30 m
<b>Backlight compensation</b>	WDR, BLC, HLC	WDR, BLC, HLC	WDR, BLC, HLC	WDR, BLC, HLC
<b>Image enhancement</b>	WDR, BLC, HLC, 3D DNR, Vertical Display	WDR, BLC, HLC, 3D DNR, Vertical Display	WDR, BLC, HLC, 3D DNR, Vertical Display	WDR, BLC, HLC, 3D DNR, Vertical Display
<b>Video Content Analysis (VCA)</b>	Object tracking human & vehicle at Tripwire Detection, Intrusion Detection, Region Entrance, Region Exit	Object tracking human & vehicle at Tripwire Detection, Intrusion Detection, Region Entrance, Region Exit	Object tracking human & vehicle at Tripwire Detection, Intrusion Detection, Region Entrance, Region Exit	Object tracking human & vehicle at Tripwire Detection, Intrusion Detection, Region Entrance, Region Exit
<b>Functions</b>	Scene Change Detection, Region of Interest	Scene Change Detection, Region of Interest	Scene Change Detection, Region of Interest	Scene Change Detection, Region of Interest
<b>Video compression</b>	Stream 1: H.264, H.265, Dynamic GOP (+), Stream 2: H.264, H.265, MJPEG, Stream 3: H.264, H.265	Stream 1: H.264, H.265, Dynamic GOP (+), Stream 2: H.264, H.265, MJPEG, Stream 3: H.264, H.265	Stream 1: H.264, H.265, Dynamic GOP (+), Stream 2: H.264, H.265, MJPEG, Stream 3: H.264, H.265	Stream 1: H.264, H.265, Dynamic GOP (+), Stream 2: H.264, H.265, MJPEG, Stream 3: H.264, H.265
<b>Storage medium</b>	microSD card, 256 GB (opt.)	microSD card, 256 GB (opt.)	microSD card, 256 GB (opt.)	microSD card, 256 GB (opt.)
<b>Audio</b>	-	-	-	-
<b>Alarm input (NO/NC)</b>	-	-	-	-
<b>Alarm output</b>	-	-	-	-
<b>IK protection class</b>	-	-	-	-
<b>IP protection class</b>	67	67	67	67
<b>Compatible with Secoris</b>	✓	✓	✓	✓
<b>Compatible with Secvest</b>	✓	✓	✓	✓
<b>Compatible with wAppLoxx</b>	✓	✓	✓	✓
<b>Compatible with wAppLoxx Pro</b>	✓	✓	✓	✓
<b>Compatible with ABUS Link Station</b>	✓	✓	✓	✓
<b>PoE Standard</b>	IEEE 802.3af	IEEE 802.3af	IEEE 802.3af	IEEE 802.3af



white	IPC B64521	IPC B68521
black	IPC B64621	IPC B68621
	<b>IP Tube 4 MPx (2.8–12 mm)</b>	<b>IP Tube 8 MPx (2.8 - 12mm)</b>
<b>Resolution</b>	4 MPx	8 MPx
<b>Image sensor</b>	1/2.7" Progressive Scan CMOS	1/1.8" Progressive Scan CMOS
<b>Horizontal angle of view</b>	30 – 108°	46 – 108°
<b>Lens</b>	Motor-Zoom	Motor-Zoom
<b>Focal length</b>	2,8 – 12,0 mm	2,8 – 12,0 mm
<b>Aperture at minimum illumination (color)</b>	F1,4	F1,4
<b>ICR day/night function</b>	✓	✓
<b>Minimum illumination (color)</b>	0.003 lx	0.003 lx
<b>Minimum illumination (IR)</b>	0 lx	0 lx
<b>IR range (up to)</b>	60 m	60 m
<b>Backlight compensation</b>	WDR, BLC, HLC	WDR, BLC, HLC
<b>Image enhancement</b>	WDR, BLC, HLC, 3D DNR, Vertical Display	WDR, BLC, HLC, 3D DNR, Vertical Display
<b>Video Content Analysis (VCA)</b>	Object tracking human & vehicle at Tripwire Detection, Intrusion Detection, Region Entrance, Region Exit	Object tracking human & vehicle at Tripwire Detection, Intrusion Detection, Region Entrance, Region Exit
<b>Functions</b>	Scene Change Detection, Region of Interest	Scene Change Detection, Region of Interest
<b>Video compression</b>	Stream 1: H.264, H.265, Dynamic GOP (+), Stream 2: H.264, H.265, MJPEG, Stream 3: H.264, H.265	Stream 1: H.264, H.265, Dynamic GOP (+), Stream 2: H.264, H.265, MJPEG, Stream 3: H.264, H.265
<b>Storage medium</b>	microSD card, 256 GB (opt.)	microSD card, 256 GB (opt.)
<b>Audio</b>	Connectable: Microphone, Loudspeaker	Connectable: Microphone, Loudspeaker
<b>Alarm input (NO/NC)</b>	1	1
<b>Alarm output</b>	1	1
<b>IK protection class</b>	10	10
<b>IP protection class</b>	67	67
<b>Compatible with Secoris</b>	✓	✓
<b>Compatible with Secvest</b>	✓	✓
<b>Compatible with wAppLoxx</b>	✓	✓
<b>Compatible with wAppLoxx Pro</b>	✓	✓
<b>Compatible with ABUS Link Station</b>	✓	✓
<b>PoE Standard</b>	IEEE 802.3at	IEEE 802.3at



	IPC A54581B	IPC A64581D
	<b>Thermal Dome Bi-Spectral 4MPx (3.6 / 4.3 mm)</b>	<b>Thermal Tube Bi-Spectral 4MPx (9.7 / 8 mm)</b>
<b>Resolution</b>	4 MPx	4 MPx
<b>Image sensor (Thermal)</b>	Vanadium Oxid Uncooled Focal Plane Arrays	Vanadium Oxid Uncooled Focal Plane Arrays
<b>Focal length (Thermal)</b>	3,6 mm	9,7 mm
<b>Horizontal angle of view (Thermal)</b>	50°	18°
<b>Temperature measurement</b>	21 measuring rules (10 measuring points, 10 measuring ranges, 1 measuring line)	21 measuring rules (10 measuring points, 10 measuring ranges, 1 measuring line)
<b>Video Content Analysis (VCA)</b>	Thermal: 8 VCA rules (intrusion, tripwire, range input, range output), object classification person/vehicle	Thermal: 8 VCA rules (intrusion, tripwire, range input, range output), object classification person/vehicle
<b>Temperature measurement range (1 x 1 m / 0,2 x 0,2 m)</b>	58 meters / 12 meters	160 meters / 32 meters
<b>VCA range (human / vehicle)</b>	28 meters / 76 meters	80 meters / 200 meters
<b>Resolution (Thermal)</b>	256 x 192	256 x 192
<b>Image sensor</b>	1/2.7" Progressive Scan CMOS	1/2.7" Progressive Scan CMOS
<b>Horizontal angle of view</b>	84°	39,5°
<b>Lens</b>	Fix	Fix
<b>Focal length</b>	4,3 mm	8 mm
<b>ICR day/night function</b>	✓	✓
<b>Minimum illumination (color)</b>	0,01 lx	0,01 lx
<b>IR range (up to)</b>	15 m	30 m
<b>Backlight compensation</b>	WDR, BLC	WDR, BLC
<b>Image enhancement</b>	WDR, BLC, 3D DNR	WDR, BLC, 3D DNR
<b>Video compression</b>	Stream 1: H.264, H.265, Stream 2: H.264, H.265, MJPEG	Stream 1: H.264, H.265, Stream 2: H.264, H.265, MJPEG
<b>Storage medium</b>	microSD card (32 GB preinstalled, max. 256 GB)	microSD card (32 GB preinstalled, max. 256 GB)
<b>Audio</b>	Integrated: Loudspeaker; Connectable: Microphone, Loudspeaker	Integrated: Loudspeaker; Connectable: Microphone, Loudspeaker
<b>Alarm input (NO/NC)</b>	1	2
<b>Alarmausgang</b>	1	2
<b>IK protection class</b>	-	-
<b>IP protection class</b>	66	67
<b>Compatible with Secvest</b>	✗	✗
<b>Compatible with Secoris</b>	✗	✗
<b>Compatible with wAppLoxx</b>	✗	✗
<b>Compatible with wAppLoxx Pro</b>	✗	✗
<b>Compatible with ABUS Link Station</b>	✓	✓
<b>PoE Standard</b>	IEEE 802,3af	IEEE 802,3af





white	IPCS54511A	IPCS54511B	IPCS34511A	IPCS34511B
black	IPCS54611A		IPCS34611A	
	<b>IP Ball Dome 4 MPx (2.8 mm, WL)</b>	<b>IP Ball Dome 4 MPx (4 mm, WL)</b>	<b>IP Mini Tube 4 MPx (2.8 mm, WL)</b>	<b>IP Mini Tube 4 MPx (4 mm, WL)</b>
<b>Resolution</b>	4 MPx	4 MPx	4 MPx	4 MPx
<b>Image sensor</b>	1/1.8" Progressive Scan CMOS	1/1.8" Progressive Scan CMOS	1/1.8" Progressive Scan CMOS	1/1.8" Progressive Scan CMOS
<b>Horizontal angle of view</b>	108°	95°	108°	95°
<b>Lens</b>	Fix	Fix	Fix	Fix
<b>Focal length</b>	2,8 mm	4 mm	2,8 mm	4 mm
<b>Aperture at minimum illumination (color)</b>	F1.0	F1.0	F1.0	F1.0
<b>ICR day/night function</b>	✗	✗	✗	✗
<b>Minimum illumination (color)</b>	0.0005 lx	0.0005 lx	0.0005 lx	0.0005 lx
<b>White light LEDs (up to)</b>	30 m	30 m	30 m	30 m
<b>Backlight compensation</b>	WDR, BLC, HLC	WDR, BLC, HLC	WDR, BLC, HLC	WDR, BLC, HLC
<b>Image enhancement</b>	WDR, BLC, HLC, 3D DNR, Vertical Display (not in Smart-Event mode)	WDR, BLC, HLC, 3D DNR, Vertical Display (not in Smart-Event mode)	WDR, BLC, HLC, 3D DNR, Vertical Display (not in Smart-Event mode)	WDR, BLC, HLC, 3D DNR, Vertical Display (not in Smart-Event mode)
<b>Video Content Analysis (VCA)</b>	Object Detection Human & Vehicle for Tripwire Detection, Intrusion Detection, Region Entrance, Region Exit	Object Detection Human & Vehicle for Tripwire Detection, Intrusion Detection, Region Entrance, Region Exit	Object Detection Human & Vehicle for Tripwire Detection, Intrusion Detection, Region Entrance, Region Exit	Object Detection Human & Vehicle for Tripwire Detection, Intrusion Detection, Region Entrance, Region Exit
<b>Functions</b>	Scene Change Detection, Region of Interest	Scene Change Detection, Region of Interest	Scene Change Detection, Region of Interest	Scene Change Detection, Region of Interest
<b>Video compression</b>	Stream 1: H.264, H.265, Dynamic GOP (+), Stream 2: H.264, H.265, MJPEG, Stream 3: H.264, H.265	Stream 1: H.264, H.265, Dynamic GOP (+), Stream 2: H.264, H.265, MJPEG, Stream 3: H.264, H.265	Stream 1: H.264, H.265, Dynamic GOP (+), Stream 2: H.264, H.265, MJPEG, Stream 3: H.264, H.265	Stream 1: H.264, H.265, Dynamic GOP (+), Stream 2: H.264, H.265, MJPEG, Stream 3: H.264, H.265
<b>Storage medium</b>	microSD card, 256 GB (opt.)	microSD card, 256 GB (opt.)	microSD card, 256 GB (opt.)	microSD card, 256 GB (opt.)
<b>Audio</b>	Integrated: Microphone	Integrated: Microphone	Integrated: Microphone	Integrated: Microphone
<b>Alarm input (NO/NC)</b>	-	-	-	-
<b>Alarmausgang</b>	-	-	-	-
<b>IK protection class</b>	-	-	-	-
<b>IP protection class</b>	67	67	67	67
<b>Compatible with Secoris</b>	✓	✓	✓	✓
<b>Compatible with Secvest</b>	✓	✓	✓	✓
<b>Compatible with wAppLoxx</b>	✓	✓	✓	✓
<b>Compatible with wAppLoxx Pro</b>	✓	✓	✓	✓
<b>Compatible with ABUS Link Station</b>	✓	✓	✓	✓
<b>PoE Standard</b>	IEEE 802.3af	IEEE 802.3af	IEEE 802.3af	IEEE 802.3af



white	IPCS64511A	IPCS64511B	IPCS28581A
black	IPCS64611A		
	<b>IP Tube 4 MPx (2.8 mm, WL)</b>	<b>IP Tube 4 MPx (4 mm, WL)</b>	<b>IP Panorama Dome 8 MPx (180°, WL)</b>
<b>Resolution</b>	4 MPx	4 MPx	8 MPx
<b>Image sensor</b>	1/1.8" Progressive Scan CMOS	1/1.8" Progressive Scan CMOS	2 x 1/1.8" Progressive Scan CMOS
<b>Horizontal angle of view</b>	108°	95°	180°
<b>Lens</b>	Fix	Fix	Fix
<b>Focal length</b>	2,8 mm	4 mm	2 x 4 mm
<b>Aperture at minimum illumination (color)</b>	F1.0	F1.0	1.0
<b>ICR day/night function</b>	✗	✗	✗
<b>Minimum illumination (color)</b>	0.0005 lx	0.0005 lx	0.0005 lx
<b>Minimum illumination (IR)</b>	-	-	-
<b>IR range (up to)</b>	-	-	-
<b>White light LEDs (up to)</b>	50 m	50 m	30 m
<b>Backlight compensation</b>	WDR, BLC, HLC	WDR, BLC, HLC	WDR, BLC, HLC
<b>Image enhancement</b>	WDR, BLC, HLC, 3D DNR, Vertical Display (not in Smart-Event mode)	WDR, BLC, HLC, 3D DNR, Vertical Display (not in Smart-Event mode)	-
<b>Video Content Analysis (VCA)</b>	Object Detection Human & Vehicle for Tripwire Detection, Intrusion Detection, Region Entrance, Region Exit	Object Detection Human & Vehicle for Tripwire Detection, Intrusion Detection, Region Entrance, Region Exit	Object Detection Human & Vehicle for Tripwire Detection, Intrusion Detection, Region Entrance, Region Exit
<b>Functions</b>	Scene Change Detection, Region of Interest	Scene Change Detection, Region of Interest	-
<b>Video compression</b>	Stream 1: H.264, H.265, Dynamic GOP (+), Stream 2: H.264, H.265, MJPEG, Stream 3: H.264, H.265	Stream 1: H.264, H.265, Dynamic GOP (+), Stream 2: H.264, H.265, MJPEG, Stream 3: H.264, H.265	Stream 1: H.264, H.265, Dynamic GOP (+), Stream 2: H.264, H.265, MJPEG
<b>Storage medium</b>	microSD card, 256 GB (opt.)	microSD card, 256 GB (opt.)	microSD card, 256 GB (opt.)
<b>Audio</b>	-	-	Integrated: Microphone, Loudspeaker; Connectable: Microphone, Loudspeaker
<b>Alarm input (NO/NC)</b>	-	-	1
<b>Alarmausgang</b>	-	-	1
<b>IK protection class</b>	-	-	-
<b>IP protection class</b>	67	67	67
<b>Compatible with Secvest</b>	✓	✓	✗
<b>Compatible with wAppLoxx</b>	✓	✓	✗
<b>Compatible with wAppLoxx Pro</b>	✓	✓	✗
<b>Compatible with ABUS Link Station</b>	✓	✓	✓
<b>Compatible with Secoris</b>	✓	✓	✗
<b>PoE Standard</b>	IEEE 802.3af	IEEE 802.3af	IEEE 802.3af




	IPCS58571A	IPCS29511	IPCS64531	IPCS64541
	<b>IP Spherical Dome 8 MPx with 2WAY Audio &amp; Alarm (2.8 mm)</b>	<b>IP Fisheye 12 MPx</b>	<b>IP Tube 4 MPx (2.8-12 mm, licence plate/ANPR)</b>	<b>IP Tube 4 MPx Telephoto Motorised Zoom (4.7-118 mm)</b>
<b>Resolution</b>	8 MPx	12 MPx	4 MPx	4 MPx
<b>Image sensor</b>	1/1.8" Progressive Scan CMOS	1/1.7" Progressive Scan CMOS	1/1.8" Progressive Scan CMOS	1/1.8" Progressive Scan CMOS
<b>Horizontal viewing angle</b>	110°	180°	42 – 114°	2,8 – 56°
<b>Lens</b>	Fix	Fix	Motor-Zoom, Autofokus	Motor-Zoom, Autofokus
<b>Focal length</b>	2,8 mm	1,29 mm	2,8 – 12,0 mm	4,8 – 118,0 mm
<b>Aperture at minimum illumination (colour)</b>	F1.6	1,2	F1.2 – F2.5	F1.6 – F3.8
<b>ICR day/night function</b>	✓	✓	✓	✓
<b>Minimum illumination (colour)</b>	0.003 lx	0.015 lx	0.0005 lx	0.01 lx
<b>Minimum illumination (IR)</b>	0 lx	0 lx	0 lx	0 lx
<b>IR range (up to)</b>	30 m	15 m	50 m	200 m
<b>Backlight compensation</b>	WDR, BLC, HLC	DWDR	WDR, BLC, HLC	WDR, BLC, HLC
<b>Image enhancement</b>	WDR, BLC, HLC, 3D DNR, Vertical Display (not in Smart-Event mode)	DWDR, BLC, HLC, 3D-DNR	WDR, BLC, HLC, 3D DNR, EIS Electr. Image Stabilizer	WDR, BLC, HLC, 3D DNR, EIS Electr. Image Stabilizer
<b>Video Content Analysis (VCA)</b>	Object Detection Human & Vehicle for Tripwire Detection, Intrusion Detection, Region Entrance, Region Exit	Tripwire Detection, Intrusion Detection, Region Entrance, Region Exit	ANPR - Automatic Number Plate Recognition (Europe, max. 70 km/h, single/double line plates)	Object Detection Human & Vehicle for Tripwire Detection, Intrusion Detection, Region Entrance, Region Exit or Face Recognition (2D)
<b>Functions</b>	Scene Change Detection, Region of Interest	Heat map, object direction analysis	ANPR - Automatic Number Plate Recognition (Europe, max. 70 km/h)	Tele-Motorzoom 4,7 - 118 mm
<b>Video compression</b>	Stream 1: H.264, H.265, Dynamic GOP (+), Stream 2: H.264, H.265, MJPEG, Stream 3: H.264, H.265 (only in surveillance mode)	H.264, MJPEG	Stream 1: H.264, H.265, H.264+, H.265+, Stream 2/3/4/5: H.264, H.265, MJPEG	Stream 1: H.264, H.265, H.264+, H.265+, Stream 2/3/4/5: H.264, H.265, MJPEG
<b>Storage medium</b>	microSD card, 256 GB (opt.)	microSD (256 GB)	microSD card, 256 GB (opt.)	microSD card, 256 GB (opt.)
<b>Audio</b>	Integrated: Microphone, Loudspeaker; Connectable: Microphone, Loudspeaker	Integrated: Microphone, Loudspeaker; Connectable: Microphone, Loudspeaker	Connectable: Microphone, Loudspeaker	Connectable: Microphone, Loudspeaker
<b>Alarm input (NO/NC)</b>	1	-	2	2
<b>Alarm output</b>	1	1	2	2
<b>Protection class IK</b>	-	10	10	10
<b>IP protection class</b>	67	67	67	67
<b>Compatible with Secoris</b>	✓	✗	✗	✗
<b>Compatible with Secvest</b>	✓	✗	✗	✗
<b>Compatible with wAppLoxx</b>	✓	✗	✗	✗
<b>Compatible with wAppLoxx Pro</b>	✓	✗	✗	✗
<b>Compatible with ABUS Link Station</b>	✓	✓	✓	✓
<b>PoE standard</b>	IEEE 802.3af	IEEE 802.3af	IEEE 802.3at	IEEE 802.3at





	IPCS84511	IPCS84531	IPCS84551
	<b>IP Mini PTZ 4 MPx (4x)</b>	<b>IP PTZ 4 MPx (25x)</b>	<b>IP PTZ Dome 4 MPx (32x)</b>
<b>Resolution</b>	4 MPx	4 MPx	4 MPx
<b>Image sensor</b>	1/2.8" Progressive Scan CMOS	1/2.8" Progressive Scan CMOS	1/1.8" Progressive Scan CMOS
<b>Horizontal viewing angle</b>	31,6 – 96,7°	2,5 – 53°	2,6 – 51°
<b>Lens</b>	Motor-Zoom	Motor-Zoom, Autofocus	Motorised zoom, autofocus
<b>Focal length</b>	2,8 – 12,0 mm	4,8 – 120 mm	5,9 - 189 mm
<b>Aperture at minimum illumination (colour)</b>	F1.6 – F2.7	F1.6 – F3.5	F1.5
<b>ICR day/night function</b>	✓	✓	✓
<b>Minimum illumination (colour)</b>	0.005 lx	0.005 lx	0.005 lx
<b>Minimum illumination (IR)</b>	0 lx	0 lx	0 lx
<b>IR range (up to)</b>	20 m	50 m	200 m
<b>Backlight compensation</b>	WDR	WDR	WDR
<b>Image enhancement</b>	-	-	WDR, 3D DNR, EIS Electr. Image Stabilizer
<b>Video Content Analysis (VCA)</b>	Tripwire, Intrusion Detection, Region Enter, Region Exit	Tripwire, Intrusion Detection, Region Enter, Region Exit	Tripwire, Intrusion Detection, Region Enter, Region Exit
<b>Functions</b>	-	-	Smart Tracking
<b>Video compression</b>	Stream 1: H.264, H.265, Dynamic GOP, Stream 2: H.264, H.265, MJPEG, Stream 3: H.264, H.265, MJPEG	Stream 1: H.264, H.265, Dynamic GOP, Stream 2: H.264, H.265, MJPEG, Stream 3: H.264, H.265, MJPEG	Stream 1: H.264, H.265, Dynamic GOP, Stream 2: H.264, H.265, MJPEG, Stream 3: H.264, H.265, MJPEG
<b>Storage medium</b>	microSD card, 256 GB (option)	microSD card, 256 GB (option)	Optional microSD card (max. 256 GB)
<b>Audio</b>	Integrated: Microphone; Connectable: Microphone, Loudspeaker	Connectable: Microphone, Loudspeaker	Integrated: Microphone, Loudspeaker; Connectable: Microphone, Loudspeaker
<b>Alarm input (NO/NC)</b>	-	2	2
<b>Alarm output</b>	-	2	1
<b>Protection class IK</b>	10	10	10
<b>IP protection class</b>	66	66	66
<b>Compatible with Secoris</b>	✓	✓	✗
<b>Compatible with Secvest</b>	✓	✓	✗
<b>Compatible with wAppLoxx</b>	✓	✓	✗
<b>Compatible with wAppLoxx Pro</b>	✓	✓	✗
<b>Compatible with ABUS Link Station</b>	✓	✓	✓
<b>PoE standard</b>	IEEE 802.3af	IEEE 802.3at	IEEE 802.3bt

**OVERVIEW OF CAMERA ACCESSORIES**




**Mini Dome (white)**  
IPCB44511A  
IPCB44511B


**Mini Dome WiFi**   
IPCB44561A




TVAC32400  
Junction Box




TVAC32420  
Wall Mount




TVAC32410  
Junction Box for Wall Mount



TVAC32420  
Wall Mount




TVAC32000  
Pole Mount




**Mini Dome (black)**  
IPCB44611A  
IPCB44611B



TVAC32400X  
Junction Box (black)




TVAC32420X  
Wall Mount (black)



TVAC32410X  
Junction Box for Wall Mount (black)



TVAC32420X  
Wall Mount (black)



TVAC32000X  
Pole Mount (black)



**Ball Dome (white)**  
IPCB54511A  
IPCB54511B  
IPCB58511A  
IPCB58511B

**Ball Dome ALARM**   
IPCS58571A

**Ball Dome GECK**   
IPCS54511A  
IPCS54511B

**Ball Dome THERMAL**   
IPCA54581B



TVAC32500  
Junction Box



TVAC32520  
Wall Mount



TVAC32020  
Junction Box for Wall Mount



TVAC32520  
Wall Mount




TVAC32000  
Pole Mount




TVAC32520  
Wall Mount




TVAC32010  
Corner Mount




**Ball Dome (black)**  
IPCB54611B  
IPCB58611A


**Ball Dome GECK**   
IPCS54611A




TVAC32500X  
Junction Box (black)




TVAC32520X  
Wall Mount (black)



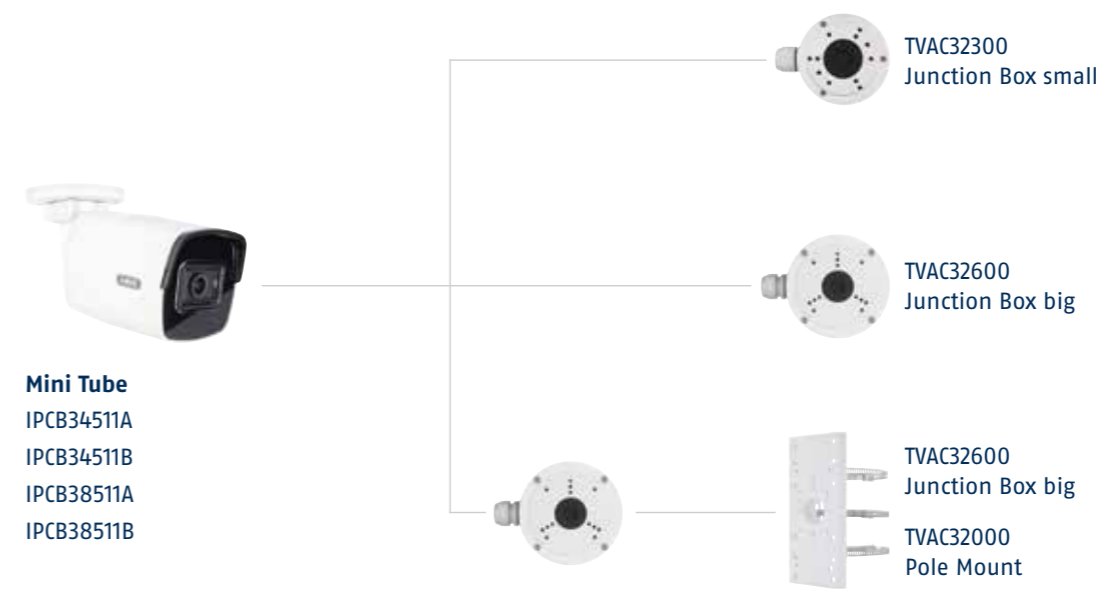
TVAC32020X  
Junction Box for Wall Mount (black)



TVAC32520X  
Wall Mount (black)



TVAC32000X  
Pole Mount (black)





**Tube (white)**  
IPCB64521  
IPCB68521

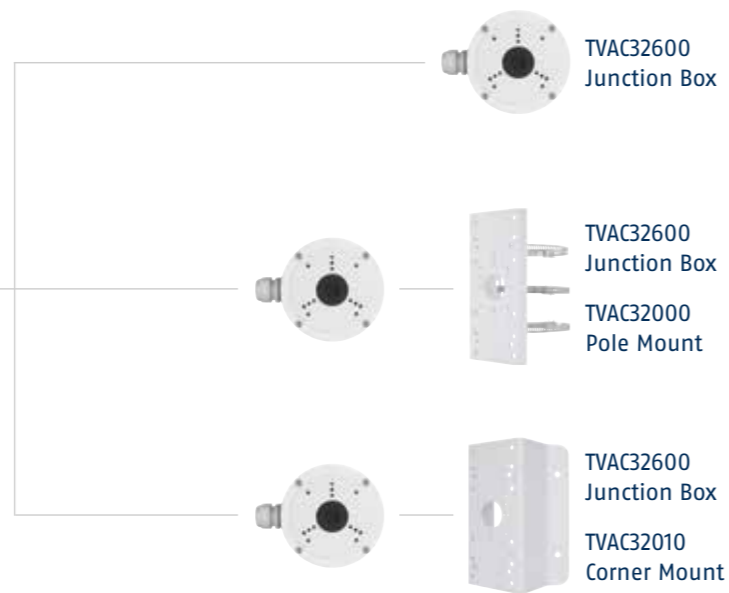
**Mini Tube (white) GECKO**

IPCS34511A  
IPCS34511B

**Tube (white) GECKO**

IPCS64511A  
IPCS64511B

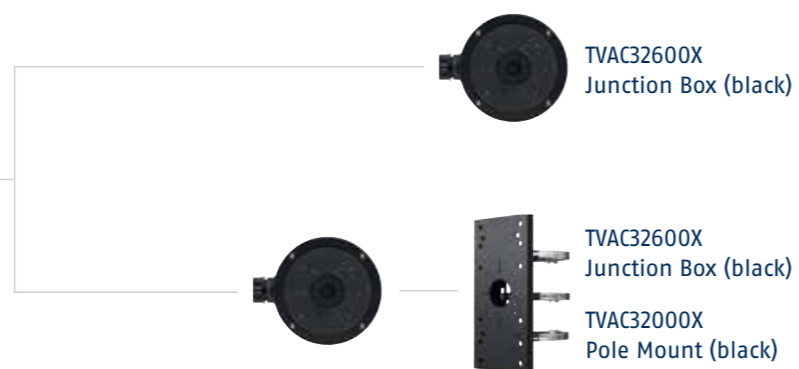
**Tube THERMAL**   
IPCA64581D



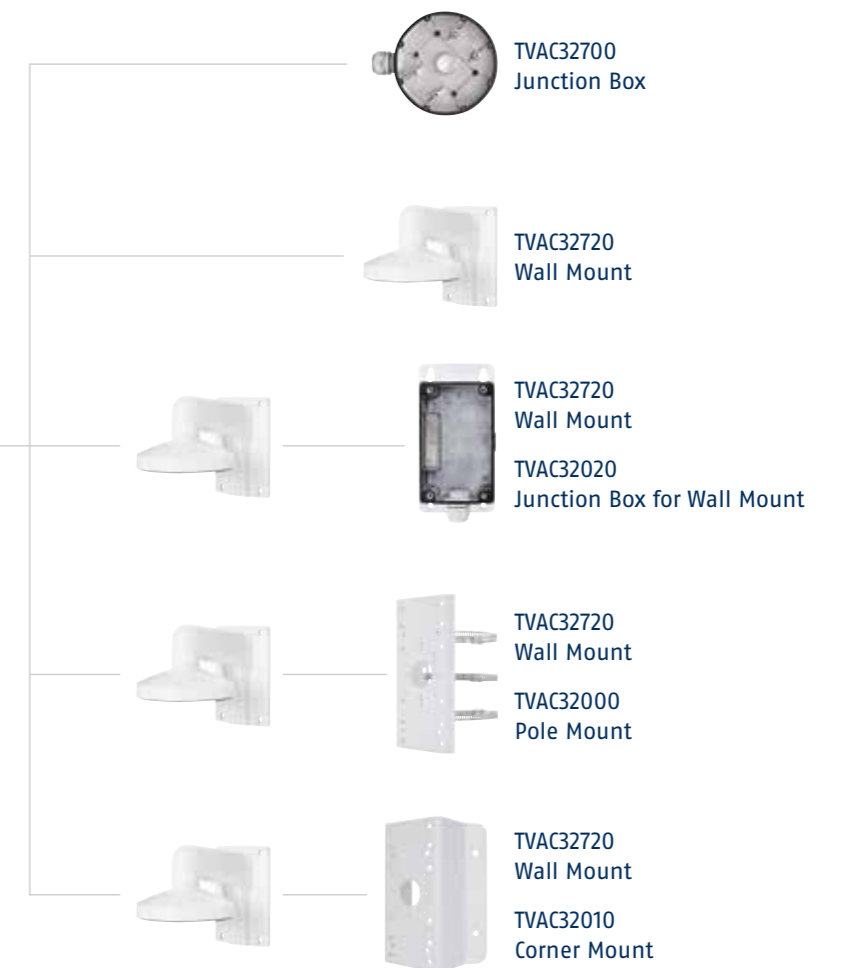
**Tube (black)**  
IPCB64621  
IPCB68621

**Tube (black) GECKO**

IPCS64611A  
**Mini Tube (black) GECKO**  
IPCS34611A




**180° Panorama Dome GECKO**  
IPCS28581A



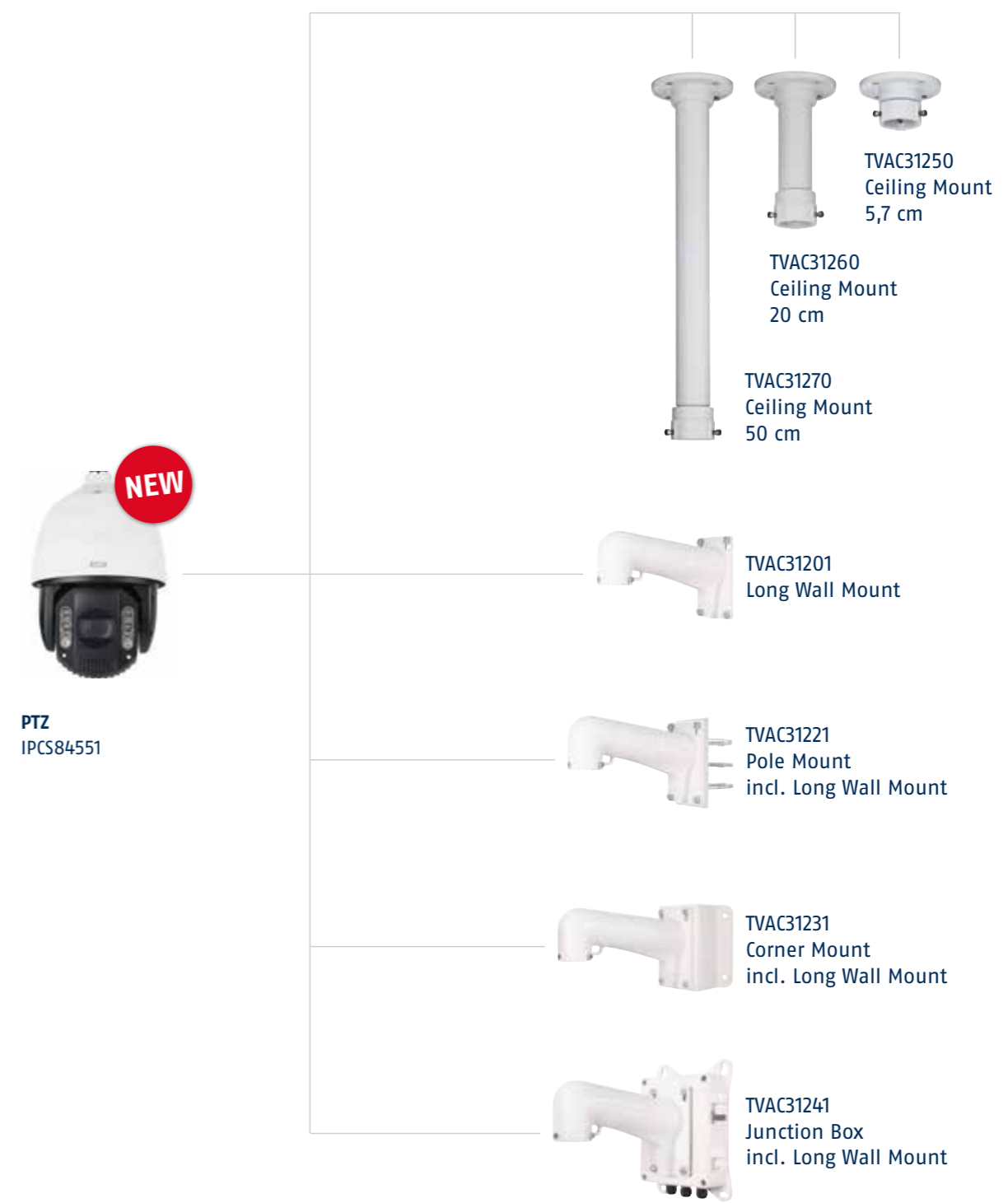
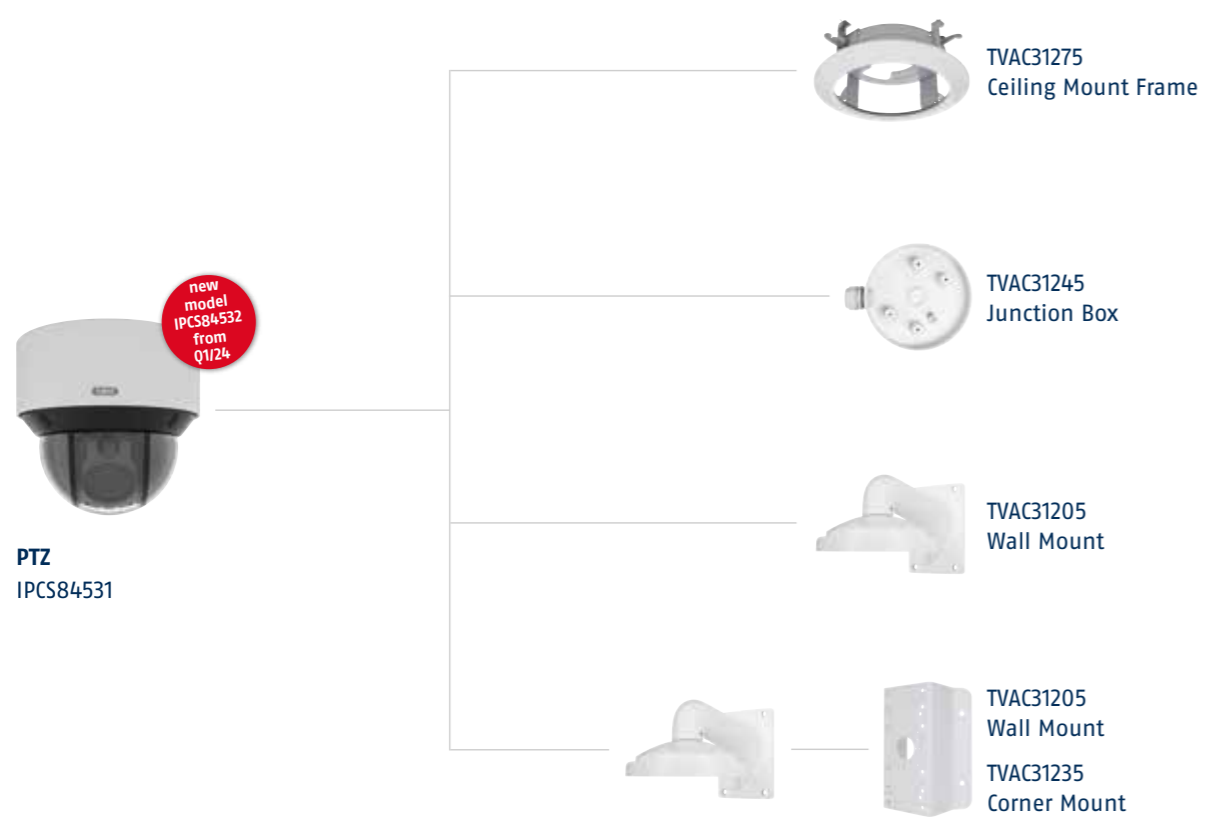
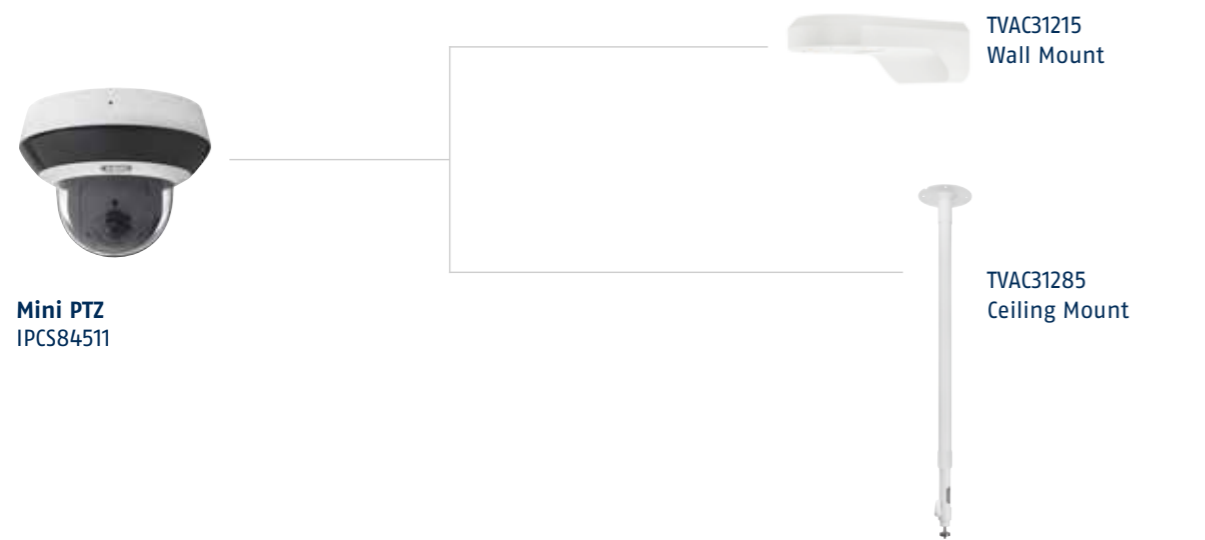
**Fisheye**  
IPCS29511



**Tube ANPR (number plate recognition)**   
IPCS64531

**Tube MOTORZOOM**   
IPCS64541







Automatic access control without any personnel: an ANPR camera with number plate recognition opens the barrier only for authorised vehicles.

# IP CAMERAS

ABUS IP cameras protect your property with powerful surveillance and support the user in daily business with intelligent image analysis.

This means that the user does not always have to have a direct view of their commercial space. For example, if a person enters a defined area, an alarm is triggered as a pop-up or signal tone and a push notification is sent to the app. Professional optical and AI functions ensure precise alarms and maximum efficiency even in unmanned operation.

In addition to pure surveillance, intelligent cameras can also be used to optimise work processes. For example, servicestaff in the retail sector can serve customers immediately or security staff can be trained to intervene directly in the event of suspicious behaviour.

## THE TOP ADVANTAGES AT A GLANCE

- Less time required: thanks to event filters (human, vehicle), relevant recordings (on the NVR or internal microSD card) are found much faster
- Lower personnel costs: very few, highly accurate motion alarms are triggered thanks to object detection/classification in the camera
- More security: clear colour images with every detail, even at night and in absolute darkness, thanks to full-colour day/night function
- Top product innovations in this catalogue: thermal cameras for precise detection of intruders (high alarm accuracy) over wide areas and long distances (efficient camera use). Also at night and in fog and with other adverse environmental factors (where optical cameras miss details or are prone to error)
- Reinforcement for the Special line: tele-motorised zoom tube camera with ultra-large zoom factor (up to 118 mm focal length) for very large surveillance areas and detail detection
- Ideal for automated processes or buildings with party traffic: the 'alarm camera' with acoustic as well as optical deterrent function and intercom (incl. microphone, loudspeaker, flashing light)
- Extremely smart and suitable for special façades or room designs: further Black Line models in classic anthracite black

# IP-CAMERAS BASIC

## OBJECT RECOGNITION

Even the inexpensive cameras of the Basic Line provide AI-supported object recognition. For more security with less time effort – and reliable semi-autonomous monitoring almost without personnel.




## FROM DISCREET TO DETERRENT

An end customer requires a discreet camera on a dark façade? The other a clearly visible camera that stands out in colour against a white wall and is a perfect deterrent? With the Basic Line models in elegant matt black, you cannot go wrong in either case.



## IP CAMERAS BASIC



Item number	IPCB44511A	IPCB44511B	IPCB44561A 
<b>Description</b>	IP Mini Dome 4 MPx (2.8 mm)	IP Mini Dome 4 MPx (4mm)	IP Mini Dome Wi-Fi 4 MPx (2.8mm)
	<ul style="list-style-type: none"> <li>• 4 Mpx resolution: 2,688 x 1,520 @ 25 fps</li> <li>• 2.8 mm fixed lens (103° angle of view)</li> <li>• Ultra low-light performance for excellent image results in poorly lit environments</li> <li>• 120 dB WDR function to compensate for image contrasts, strong backlighting etc.</li> <li>• Object recognition (human &amp; vehicle): Motion detection with fully automatic differentiation between people/vehicles and disturbances (branches, light, etc.)</li> </ul>	<ul style="list-style-type: none"> <li>• 4 Mpx resolution: 2,688 x 1,520 @ 25 fps</li> <li>• 4 mm fixed lens (83° angle of view)</li> <li>• Ultra low-light performance for excellent image results in poorly lit environments</li> <li>• 120 dB WDR function to compensate for image contrasts, strong backlighting etc.</li> <li>• Object recognition (human &amp; vehicle): Motion detection with fully automatic differentiation between people/vehicles and disturbances (branches, light, etc.)</li> </ul>	<ul style="list-style-type: none"> <li>• 4 Mpx resolution: 2,688 x 1,520 @ 25 fps</li> <li>• 2.8 mm fixed lens (103° angle of view)</li> <li>• Ultra low-light performance for excellent image results in poorly lit environments</li> <li>• 120 dB WDR function to compensate for image contrasts, strong backlighting etc.</li> <li>• Object recognition (human &amp; vehicle): Motion detection with fully automatic differentiation between people/vehicles and disturbances (branches, light, etc.)</li> </ul>
<b>Resolution modes</b>	Stream 1: 2688 x 1520 @ 25 fps, Stream 2: 640 x 480 @ 25 fps, Stream 3: 1920 x 1080 @ 10 fps	Stream 1: 2688 x 1520 @ 25 fps, Stream 2: 640 x 480 @ 25 fps, Stream 3: 1920 x 1080 @ 10 fps	Stream 1: 2688 x 1520 @ 25 fps, Stream 2: 640 x 480 @ 25 fps, Stream 3: 1920 x 1080 @ 10 fps
<b>Image sensor</b>	1/2.7" Progressive Scan CMOS	1/2.7" Progressive Scan CMOS	1/2.7" Progressive Scan CMOS
<b>Lens</b>	Fix	Fix	Fix
<b>Focal length</b>	2,8 mm	4 mm	2,8 mm
<b>Horizontal angle of view</b>	103°	83°	103°
<b>Optical zoom</b>	-	-	-
<b>Minimum illumination (color)</b>	0.003 lx	0.003 lx	0.003 lx
<b>Minimum illumination (IR)</b>	0 lx	0 lx	0 lx
<b>IR range (up to)</b>	20 m	20 m	20 m
<b>Video compression</b>	Stream 1: H.264, H.265, Dynamic GOP (+), Stream 2: H.264, H.265, MJPEG, Stream 3: H.264, H.265	Stream 1: H.264, H.265, Dynamic GOP (+), Stream 2: H.264, H.265, MJPEG, Stream 3: H.264, H.265	Stream 1: H.264, H.265, Dynamic GOP (+), Stream 2: H.264, H.265, MJPEG, Stream 3: H.264, H.265
<b>Video Content Analysis (VCA)</b>	Object recognition (human & vehicle) at Tripwire Detection, Intrusion Detection, Region Entrance, Region Exit	Object recognition (human & vehicle) at Tripwire Detection, Intrusion Detection, Region Entrance, Region Exit	Object recognition (human & vehicle) at Tripwire Detection, Intrusion Detection, Region Entrance, Region Exit
<b>Image enhancement</b>	WDR, BLC, HLC, 3D DNR, Vertical Display	WDR, BLC, HLC, 3D DNR, Vertical Display	WDR, BLC, HLC, 3D DNR, Vertical Display
<b>Encryption</b>	HTTPS, TLS 1.1/1.2	HTTPS, TLS 1.1/1.2	HTTPS, TLS 1.1/1.2
<b>Alarming</b>	E-Mail, NAS, FTP	E-Mail, NAS, FTP	E-Mail, NAS, FTP, Sound
<b>Audio</b>	Integrated: Microphone	Integrated: Microphone	Integrated: Microphone; Connectable: Microphone, Loudspeaker
<b>Connections</b>	1 x RJ45, 1 x DC	1 x RJ45, 1 x DC	1 x RJ45, 1 x DC, 1 x Audio out, 1 x Alarm in, 1 x Alarm out
<b>Storage medium</b>	microSD card, 256 GB (opt.)	microSD card, 256 GB (opt.)	microSD card, 256 GB (opt.)
<b>DC voltage supply</b>	12 (+/-25 %) V	12 (+/-25 %) V	12 (+/-25 %) V
<b>AC voltage supply</b>	-	-	-
<b>Power consumption</b>	650 mA	650 mA	650 mA
<b>PoE Standard</b>	IEEE 802.3af	IEEE 802.3af	IEEE 802.3af
<b>IP protection class</b>	67	67	67
<b>IK protection class</b>	8	8	8
<b>Min. operating temperature</b>	-25° C	-25° C	-25° C
<b>Max. operating temperature</b>	60° C	60° C	60° C
<b>Compatible with Secoris</b>	Yes	Yes	Yes
<b>Compatible with Secvest</b>	Yes	Yes	Yes
<b>Compatible with wAppLoxx</b>	Yes	Yes	Yes
<b>Compatible with wAppLoxx Pro</b>	Yes	Yes	Yes
<b>Compatible with ABUS Link Station</b>	Yes	Yes	Yes
<b>Max. resolution @ frame rate</b>	2688 x 1520 @ 30 fps	2688 x 1520 @ 30 fps	2688 x 1520 @ 30 fps
<b>Dimensions (W x H x D)</b>	109 x 58 x 109 mm	109 x 58 x 109 mm	109 x 58 x 109 mm
<b>Scope of delivery</b>	IP Mini Dome 4 MPx (2.8 mm) • Quickstart manual • Safety Instructions • Adapter plate	IP Mini Dome 4 MPx (4.0 mm) • Quickstart manual • Safety Instructions	IP Mini Dome WiFi 4 MPx (2.8 mm) • Quickstart manual • Safety Instructions • Adapter plate





Item number	IPC44611A	IPC44611B
<b>Description</b>	<b>IP Mini Dome 4 MPx Black (2.8mm)</b>	<b>IP Mini Dome 4 MPx Black (4mm)</b>
	<ul style="list-style-type: none"> <li>• 4 Mpx resolution: 2,688 x 1,520 @ 25 fps</li> <li>• 2.8 mm fixed lens (103° angle of view)</li> <li>• Ultra low-light performance for excellent image results in poorly lit environments</li> <li>• Object recognition (human &amp; vehicle): Motion detection with fully automatic differentiation between people/vehicles and disturbances (branches, light, etc.)</li> <li>• 120 dB WDR function to compensate for image contrasts, strong backlighting etc.</li> <li>• Vandalism- and weatherproof housing (IK08 &amp; IP66); colour: black</li> <li>• IR LEDs for very clear night vision (up to 20 m range), without coupling effect thanks to externally located LEDs (no disturbing reflections)</li> </ul>	<ul style="list-style-type: none"> <li>• 4 Mpx resolution: 2,688 x 1,520 @ 25 fps</li> <li>• 4 mm fixed lens (83° angle of view)</li> <li>• Ultra low-light performance for excellent image results in poorly lit environments</li> <li>• Object recognition (human &amp; vehicle): Motion detection with fully automatic differentiation between people/vehicles and disturbances (branches, light, etc.)</li> <li>• 120 dB WDR function to compensate for image contrasts, strong backlighting etc.</li> <li>• Vandalism- and weatherproof housing (IK08 &amp; IP66); colour: black</li> <li>• IR LEDs for very clear night vision (up to 20 m range), without coupling effect thanks to externally located LEDs (no disturbing reflections)</li> </ul>
<b>Resolution modes</b>	Stream 1: 2688 x 1520 @ 25 fps, Stream 2: 640 x 480 @ 25 fps, Stream 3: 1920 x 1080 @ 10 fps	Stream 1: 2688 x 1520 @ 25 fps, Stream 2: 640 x 480 @ 25 fps, Stream 3: 1920 x 1080 @ 10 fps
<b>Image sensor</b>	1/2.7" Progressive Scan CMOS	1/2.7" Progressive Scan CMOS
<b>Lens</b>	Fix	Fix
<b>Focal length</b>	2,8 mm	4 mm
<b>Horizontal angle of view</b>	103°	83°
<b>Optical zoom</b>	-	-
<b>Minimum illumination (color)</b>	0.003 lx	0.003 lx
<b>Minimum illumination (IR)</b>	0 lx	0 lx
<b>IR range (up to)</b>	20 m	20 m
<b>Video compression</b>	Stream 1: H.264, H.265, Dynamic GOP (+), Stream 2: H.264, H.265, MJPEG, Stream 3: H.264, H.265	Stream 1: H.264, H.265, Dynamic GOP (+), Stream 2: H.264, H.265, MJPEG, Stream 3: H.264, H.265
<b>Video Content Analysis (VCA)</b>	Object recognition (human & vehicle) at Tripwire Detection, Intrusion Detection, Region Entrance, Region Exit	Object recognition (human & vehicle) at Tripwire Detection, Intrusion Detection, Region Entrance, Region Exit
<b>Image enhancement</b>	WDR, BLC, HLC, 3D DNR, Vertical Display	WDR, BLC, HLC, 3D DNR, Vertical Display
<b>Encryption</b>	HTTPS, TLS 1.1/1.2	HTTPS, TLS 1.1/1.2
<b>Alarming</b>	E-Mail, NAS, FTP	E-Mail, NAS, FTP
<b>Audio</b>	Integrated: Microphone	Integrated: Microphone
<b>Connections</b>	1 x RJ45, 1 x DC	1 x RJ45, 1 x DC
<b>Storage medium</b>	microSD card, 256 GB (opt.)	microSD card, 256 GB (opt.)
<b>DC voltage supply</b>	12 (+/-25 %) V	12 (+/-25 %) V
<b>AC voltage supply</b>	-	-
<b>Power consumption</b>	650 mA	650 mA
<b>PoE Standard</b>	IEEE 802.3af	IEEE 802.3af
<b>IP protection class</b>	67	67
<b>IK protection class</b>	8	8
<b>Min. operating temperature</b>	-25° C	-25° C
<b>Max. operating temperature</b>	60° C	60° C
<b>Compatible with Secoris</b>	Yes	Yes
<b>Compatible with Secvest</b>	Yes	Yes
<b>Compatible with wAppLoxx</b>	Yes	Yes
<b>Compatible with wAppLoxx Pro</b>	Yes	Yes
<b>Compatible with ABUS Link Station</b>	Yes	Yes
<b>Max. resolution @ frame rate</b>	2688 x 1520 @ 30 fps	2688 x 1520 @ 30 fps
<b>Dimensions (W x H x D)</b>	109 x 58 x 109 mm	109 x 58 x 109 mm
<b>Scope of delivery</b>	IP Mini Dome 4 MPx (2.8 mm) • Quickstart manual • Safety Instructions • Adapter plate	IP Mini Dome 4 MPx (4.0 mm) • Quickstart manual • Safety Instructions • Adapter plate



Item number	IPC54511A	IPC54511B	IPC58511A
<b>Description</b>	<b>IP Ball Dome 4 MPx (2.8mm)</b>	<b>IP Ball Dome 4 MPx (4mm)</b>	<b>IP Ball Dome 8 MPx (2.8mm)</b>
	<ul style="list-style-type: none"> <li>• 4 Mpx resolution: 2,688 x 1,520 @ 25 fps</li> <li>• 2.8 mm fixed lens (103° angle of view)</li> <li>• Ultra low-light performance for excellent image results in poorly lit environments</li> <li>• Object recognition (human &amp; vehicle): Motion detection with fully automatic differentiation between people/vehicles and disturbances (branches, light, etc.)</li> <li>• 120 dB WDR function to compensate for image contrasts, strong backlighting etc.</li> <li>• Weatherproof housing (IP67)</li> </ul>	<ul style="list-style-type: none"> <li>• 4 Mpx resolution: 2,688 x 1,520 @ 25 fps</li> <li>• 4 mm fixed lens (83° angle of view)</li> <li>• Ultra low-light performance for excellent image results in poorly lit environments</li> <li>• Object recognition (human &amp; vehicle): Motion detection with fully automatic differentiation between people/vehicles and disturbances (branches, light, etc.)</li> <li>• 120 dB WDR function to compensate for image contrasts, strong backlighting etc.</li> <li>• Weatherproof housing (IP67)</li> </ul>	<ul style="list-style-type: none"> <li>• 8 MPx (4K) resolution: 3.840 x 2,160 @ 20 fps for ultra-high resolution surveillance images</li> <li>• 2.8 mm fixed lens (102° angle of view)</li> <li>• 120 dB WDR function to compensate for image contrasts, strong backlighting etc.</li> <li>• Object recognition (human &amp; vehicle): Motion detection with fully automatic differentiation between people/vehicles and disturbances (branches, light, etc.)</li> <li>• Weatherproof housing (IP67)</li> </ul>
<b>Resolution modes</b>	Stream 1: 2688 x 1520 @ 25 fps, Stream 2: 640 x 480 @ 25 fps, Stream 3: 1920 x 1080 @ 10 fps	Stream 1: 2688 x 1520 @ 25 fps, Stream 2: 640 x 480 @ 25 fps, Stream 3: 1920 x 1080 @ 10 fps	Stream 1: 3840 x 2160 @ 20 fps, Stream 2: 640 x 480 @ 25 fps, Stream 3: 1280 x 720 @ 25 fps
<b>Image sensor</b>	1/2.7" Progressive Scan CMOS	1/2.7" Progressive Scan CMOS	1/1.8" Progressive Scan CMOS
<b>Lens</b>	Fix	Fix	Fix
<b>Focal length</b>	2,8 mm	4 mm	2,8 mm
<b>Horizontal angle of view</b>	103°	95°	110°
<b>Optical zoom</b>	-	-	-
<b>Minimum illumination (color)</b>	0.003 lx	0.003 lx	0.003 lx
<b>Minimum illumination (IR)</b>	0 lx	0 lx	0 lx
<b>IR range (up to)</b>	30 m	30 m	30 m
<b>Video compression</b>	Stream 1: H.264, H.265, Dynamic GOP (+), Stream 2: H.264, H.265, MJPEG, Stream 3: H.264, H.265	Stream 1: H.264, H.265, Dynamic GOP (+), Stream 2: H.264, H.265, MJPEG, Stream 3: H.264, H.265	Stream 1: H.264, H.265, Dynamic GOP (+), Stream 2: H.264, H.265, MJPEG, Stream 3: H.264, H.265
<b>Video Content Analysis (VCA)</b>	Object recognition (human & vehicle) at Tripwire Detection, Intrusion Detection, Region Entrance, Region Exit	Object recognition (human & vehicle) at Tripwire Detection, Intrusion Detection, Region Entrance, Region Exit	Object recognition (human & vehicle) at Tripwire Detection, Intrusion Detection, Region Entrance, Region Exit
<b>Image enhancement</b>	WDR, BLC, HLC, 3D DNR, Vertical Display	WDR, BLC, HLC, 3D DNR, Vertical Display	WDR, BLC, HLC, 3D DNR, Vertical Display
<b>Encryption</b>	HTTPS, TLS 1.1/1.2	HTTPS, TLS 1.1/1.2	HTTPS, TLS 1.1/1.2
<b>Alarming</b>	E-Mail, NAS, FTP	E-Mail, NAS, FTP	E-Mail, NAS, FTP
<b>Audio</b>	-	-	-
<b>Connections</b>	1 x RJ45, 1 x DC (Cable length 280 mm)	1 x RJ45, 1 x DC (Cable length 280 mm)	1 x RJ45, 1 x DC (Cable length 280 mm)
<b>Storage medium</b>	microSD card, 256 GB (opt.)	microSD card, 256 GB (opt.)	microSD card, 256 GB (opt.)
<b>DC voltage supply</b>	12 (+/-25 %) V	12 (+/-25 %) V	12 (+/-25 %) V
<b>AC voltage supply</b>	-	-	-
<b>Power consumption</b>	600 mA	600 mA	600 mA
<b>PoE Standard</b>	IEEE 802.3af	IEEE 802.3af	IEEE 802.3af
<b>IP protection class</b>	67	67	67
<b>IK protection class</b>	-	-	-
<b>Min. operating temperature</b>	-25° C	-25° C	-25° C
<b>Max. operating temperature</b>	60° C	60° C	60° C
<b>Compatible with Secoris</b>	Yes	Yes	Yes
<b>Compatible with Secvest</b>	Yes	Yes	Yes
<b>Compatible with wAppLoxx</b>	Yes	Yes	Yes
<b>Compatible with wAppLoxx Pro</b>	Yes	Yes	Yes
<b>Compatible with ABUS Link Station</b>	Yes	Yes	Yes
<b>Max. resolution @ frame rate</b>	2688 x 1520 @ 30 fps	2688 x 1520 @ 30 fps	3840 x 2160 @ 20 fps
<b>Dimensions (W x H x D)</b>	139 x 128 x 139 mm	139 x 128 x 139 mm	139 x 128 x 139 mm
<b>Scope of delivery</b>	IP Dome 4 MPx (2.8 mm) • Quickstart manual • Safety Instructions	IP Dome 4 MPx (4 mm) • Quickstart manual • Safety Instructions	IP Dome 8 MPx (2.8 mm) • Quickstart manual • Safety Instructions



Item number	IPCB58511B	IPCB54611B	IPCB58611A
<b>Description</b>	<b>IP Ball Dome 8 MPx (4mm)</b>	<b>IP Ball Dome 4 MPx Black (4mm)</b>	<b>IP Ball Dome 8 MPx Black (2.8mm)</b>
	<ul style="list-style-type: none"> <li>8 MPx (4K) resolution: 3.840 x 2,160 @ 20 fps for ultra-high resolution surveillance images</li> <li>4 mm fixed lens (82° angle of view)</li> <li>120 dB WDR function to compensate for image contrasts, strong backlighting etc.</li> <li>Object recognition (human &amp; vehicle): Motion detection with fully automatic differentiation between people/vehicles and disturbances (branches, light, etc.)</li> <li>Weatherproof housing (IP67)</li> </ul>	<ul style="list-style-type: none"> <li>4 Mpx resolution: 2,688 x 1,520 @ 25 fps</li> <li>4 mm fixed lens (83° angle of view)</li> <li>Ultra low-light performance for excellent image results in poorly lit environments</li> <li>Object recognition (human &amp; vehicle): Motion detection with fully automatic differentiation between people/vehicles and disturbances (branches, light, etc.)</li> <li>120 dB WDR function to compensate for image contrasts, strong backlighting etc.</li> <li>Weatherproof housing (IP67); colour: black</li> </ul>	<ul style="list-style-type: none"> <li>8 MPx (4K) resolution: 3.840 x 2,160 @ 20 fps for ultra-high resolution surveillance images</li> <li>2.8 mm fixed lens (102° angle of view)</li> <li>120 dB WDR function to compensate for image contrasts, strong backlighting etc.</li> <li>Object recognition (human &amp; vehicle): Motion detection with fully automatic differentiation between people/vehicles and disturbances (branches, light, etc.)</li> <li>Weatherproof housing (IP67), colour: black</li> </ul>
<b>Resolution modes</b>	Stream 1: 3840 x 2160 @ 20 fps, Stream 2: 640 x 480 @ 25 fps, Stream 3: 1280 x 720 @ 25 fps	Stream 1: 2688 x 1520 @ 25 fps, Stream 2: 640 x 480 @ 25 fps, Stream 3: 1920 x 1080 @ 10 fps	Stream 1: 3840 x 2160 @ 20 fps, Stream 2: 640 x 480 @ 25 fps, Stream 3: 1280 x 720 @ 10 fps
<b>Image sensor</b>	1/1,8" Progressive Scan CMOS	1/2,7" Progressive Scan CMOS	1/1,8" Progressive Scan CMOS
<b>Lens</b>	Fix	Fix	Fix
<b>Focal length</b>	4 mm	4 mm	2,8 mm
<b>Horizontal angle of view</b>	87°	83°	110°
<b>Optical zoom</b>	-	-	-
<b>Minimum illumination (color)</b>	0.003 lx	0.003 lx	0.003 lx
<b>Minimum illumination (IR)</b>	0 lx	0 lx	0 lx
<b>IR range (up to)</b>	30 m	30 m	30 m
<b>Video compression</b>	Stream 1: H.264, H.265, Dynamic GOP (+), Stream 2: H.264, H.265, MJPEG, Stream 3: H.264, H.265	Stream 1: H.264, H.265, Dynamic GOP (+), Stream 2: H.264, H.265, MJPEG, Stream 3: H.264, H.265	Stream 1: H.264, H.265, Dynamic GOP (+), Stream 2: H.264, H.265, MJPEG, Stream 3: H.264, H.265
<b>Video Content Analysis (VCA)</b>	Object recognition (human & vehicle) at Tripwire Detection, Intrusion Detection, Region Entrance, Region Exit	Object recognition (human & vehicle) at Tripwire Detection, Intrusion Detection, Region Entrance, Region Exit	Object recognition (human & vehicle) at Tripwire Detection, Intrusion Detection, Region Entrance, Region Exit
<b>Image enhancement</b>	WDR, BLC, HLC, 3D DNR, Vertical Display	WDR, BLC, HLC, 3D DNR, Vertical Display	WDR, BLC, HLC, 3D DNR, Vertical Display
<b>Encryption</b>	HTTPS, TLS 1.1/1.2	HTTPS, TLS 1.1/1.2	HTTPS, TLS 1.1/1.2
<b>Alarming</b>	E-Mail, NAS, FTP	E-Mail, NAS, FTP	E-Mail, NAS, FTP
<b>Audio</b>	-	-	-
<b>Connections</b>	1 x RJ45, 1 x DC (Cable length 280 mm)	1 x RJ45, 1 x DC (Cable length 280 mm)	1 x RJ45, 1 x DC (Cable length 280 mm)
<b>Storage medium</b>	microSD card, 256 GB (opt.)	microSD card, 256 GB (opt.)	microSD card, 256 GB (opt.)
<b>DC voltage supply</b>	12 (+/-25 %) V	12 (+/-25 %) V	12 (+/-25 %) V
<b>AC voltage supply</b>	-	-	-
<b>Power consumption</b>	600 mA	600 mA	600 mA
<b>PoE Standard</b>	IEEE 802.3af	IEEE 802.3af	IEEE 802.3af
<b>IP protection class</b>	67	67	67
<b>IK protection class</b>	-	-	-
<b>Min. operating temperature</b>	-25° C	-25° C	-25° C
<b>Max. operating temperature</b>	60° C	60° C	60° C
<b>Compatible with Secoris</b>	Yes	Yes	Yes
<b>Compatible with Secvest</b>	Yes	Yes	Yes
<b>Compatible with wAppLoxx</b>	Yes	Yes	Yes
<b>Compatible with wAppLoxx Pro</b>	Yes	Yes	Yes
<b>Compatible with ABUS Link Station</b>	Yes	Yes	Yes
<b>Max. resolution @ frame rate</b>	3840 x 2160 @ 20 fps	2688 x 1520 @ 30 fps	3840 x 2160 @ 20 fps
<b>Dimensions (W x H x D)</b>	139 x 128 x 139 mm	139 x 128 x 139 mm	139 x 128 x 139 mm
<b>Scope of delivery</b>	IP Dome 8 MPx (4 mm) • Quickstart manual • Safety Instructions	IP Dome 4 MPx (4 mm) • Quickstart manual • Safety Instructions	IP Dome 8 MPx (2.8 mm) • Quickstart manual • Safety Instructions



Item number	IPCB74521	IPCB78521
<b>Description</b>	<b>IP Dome 4 MPx (2.8-12 mm)</b>	<b>IP Dome 8 MPx (2.8 - 12mm)</b>
	<ul style="list-style-type: none"> <li>4 Mpx resolution: 2,688 x 1,520 @ 25 fps</li> <li>2.8 - 12 mm motorised zoom lens (4x optical zoom, 30°-108° viewing angle) for high flexibility in surveillance and installation</li> <li>Ultra low-light performance for excellent image results in poorly lit environments</li> <li>120 dB WDR function to compensate for image contrasts, strong backlighting etc.</li> <li>Object recognition (human &amp; vehicle): Motion detection with fully automatic differentiation between people/vehicles and disturbances (branches, light, etc.)</li> <li>Vandalism- and weatherproof housing (IK10 &amp; IP67), in discreet look with black covered components in the dome</li> <li>IR LEDs for very clear night vision (up to 40 m range)</li> </ul>	<ul style="list-style-type: none"> <li>8 MPx (4K) resolution: 3,840 x 2,160 @ 20 fps, optimal for larger surveillance areas and grounds</li> <li>2.8 - 12 mm motorised zoom lens (4x optical zoom, 46°-108° viewing angle) for high flexibility in surveillance and installation</li> <li>Ultra low-light performance for excellent image results in poorly lit environments</li> <li>120 dB WDR function to compensate for image contrasts, strong backlighting etc.</li> <li>Object recognition (human &amp; vehicle): Motion detection with fully automatic differentiation between people/vehicles and disturbances (branches, light, etc.)</li> <li>Vandalism- and weatherproof housing (IK10 &amp; IP67), in discreet look with black covered components in the dome</li> <li>IR LEDs for very clear night vision (up to 40 m range)</li> </ul>
<b>Resolution modes</b>	Stream 1: 2688 x 1520 @ 25 fps, Stream 2: 640 x 480 @ 25 fps, Stream 3: 1920 x 1080 @ 10 fps	Stream 1: 3840 x 2160 @ 20 fps, Stream 2: 640 x 480 @ 25 fps, Stream 3: 1280 x 720 @ 25 fps
<b>Image sensor</b>	1/2,7" Progressive Scan CMOS	1/1,8" Progressive Scan CMOS
<b>Motorzoom</b>	Motor-Zoom	Motor-Zoom
<b>Focal length</b>	2,8 - 12,0 mm	2,8 - 12,0 mm
<b>Horizontal angle of view</b>	30 - 108°	45 - 108°
<b>Optical zoom</b>	4,2 x	4,2 x
<b>Minimum illumination (color)</b>	0.003 lx	0.003 lx
<b>Minimum illumination (IR)</b>	0 lx	0 lx
<b>IR range (up to)</b>	40 m	40 m
<b>Video compression</b>	Stream 1: H.264, H.265, Dynamic GOP (+), Stream 2: H.264, H.265, MJPEG, Stream 3: H.264, H.265	Stream 1: H.264, H.265, Dynamic GOP (+), Stream 2: H.264, H.265, MJPEG, Stream 3: H.264, H.265
<b>Video Content Analysis (VCA)</b>	Object recognition (human & vehicle) at Tripwire Detection, Intrusion Detection, Region Entrance, Region Exit	Object recognition (human & vehicle) at Tripwire Detection, Intrusion Detection, Region Entrance, Region Exit
<b>Image enhancement</b>	WDR, BLC, HLC, 3D DNR, Vertical Display	WDR, BLC, HLC, 3D DNR, Vertical Display
<b>Encryption</b>	HTTPS, TLS 1.1/1.2	HTTPS, TLS 1.1/1.2
<b>Alarming</b>	E-Mail, NAS, FTP, Sound	E-Mail, NAS, FTP, Sound
<b>Audio</b>	Connectable: Microphone, Loudspeaker	Connectable: Microphone, Loudspeaker
<b>Connections</b>	1 x RJ45, 1 x DC, 1 x Alarm input, 1 x Alarm output, 1 x Audio input, 1 x Audio output	1 x RJ45, 1 x DC, 1 x Alarm input, 1 x Alarm output, 1 x Audio input, 1 x Audio output
<b>Storage medium</b>	microSD card, 256 GB (opt.)	microSD card, 256 GB (opt.)
<b>DC voltage supply</b>	12 (+/-25 %) V	12 (+/-25 %) V
<b>AC voltage supply</b>	-	-
<b>Power consumption</b>	1100 mA	1100 mA
<b>PoE Standard</b>	IEEE 802.3af	IEEE 802.3af
<b>IP protection class</b>	67	67
<b>IK protection class</b>	10	10
<b>Min. operating temperature</b>	-25° C	-25° C
<b>Max. operating temperature</b>	60° C	60° C
<b>Compatible with Secoris</b>	Yes	Yes
<b>Compatible with Secvest</b>	Yes	Yes
<b>Compatible with wAppLoxx</b>	Yes	Yes
<b>Compatible with wAppLoxx Pro</b>	Yes	Yes
<b>Compatible with ABUS Link Station</b>	Yes	Yes
<b>Max. resolution @ frame rate</b>	2688 x 1520 @ 30 fps	3840 x 2160 @ 20 fps
<b>Dimensions (W x H x D)</b>	154 x 112 x 154 mm	154 x 112 x 154 mm
<b>Scope of delivery</b>	IP Dome 4 MPx (2.8 - 12 mm) • Quickstart manual • Safety Instructions	IP Dome 8 MPx (2.8 - 12 mm) • Quickstart manual • Safety Instructions



Item number	IPCB34511A	IPCB34511B	IPCB34611A
<b>Description</b>	<b>IP Mini Tube 4 MPx (2.8 mm)</b>	<b>IP Mini Tube 4 MPx (4mm)</b>	<b>IP Mini Tube 4 MPx Black (2.8 mm)</b>
	<ul style="list-style-type: none"> <li>• 4 Mpx resolution: 2,688 x 1,520 @ 25 fps</li> <li>• 2.8 mm fixed lens (103° angle of view)</li> <li>• Ultra low-light performance for excellent image results in poorly lit environments</li> <li>• Object recognition (human &amp; vehicle): Motion detection with fully automatic differentiation between people/vehicles and disturbances (branches, light, etc.)</li> <li>• 120 dB WDR function to compensate for image contrasts, strong backlighting etc.</li> </ul>	<ul style="list-style-type: none"> <li>• 4 Mpx resolution: 2,688 x 1,520 @ 25 fps</li> <li>• 4 mm fixed lens (83° angle of view)</li> <li>• Ultra low-light performance for excellent image results in poorly lit environments</li> <li>• Object recognition (human &amp; vehicle): Motion detection with fully automatic differentiation between people/vehicles and disturbances (branches, light, etc.)</li> <li>• 120 dB WDR function to compensate for image contrasts, strong backlighting etc.</li> </ul>	<ul style="list-style-type: none"> <li>• 4 Mpx resolution: 2,688 x 1,520 @ 25 fps</li> <li>• 2.8 mm fixed lens (103° angle of view)</li> <li>• Ultra low-light performance for excellent image results in poorly lit environments</li> <li>• Object recognition (human &amp; vehicle): Motion detection with fully automatic differentiation between people/vehicles and disturbances (branches, light, etc.)</li> <li>• 120 dB WDR function to compensate for image contrasts, strong backlighting etc.</li> <li>• Weatherproof housing (IP67); colour: black</li> </ul>
<b>Resolution modes</b>	Stream 1: 2688 x 1520 @ 25 fps, Stream 2: 640 x 480 @ 25 fps, Stream 3: 1920 x 1080 @ 10 fps	Stream 1: 2688 x 1520 @ 25 fps, Stream 2: 640 x 480 @ 25 fps, Stream 3: 1920 x 1080 @ 10 fps	Stream 1: 2688 x 1520 @ 25 fps, Stream 2: 640 x 480 @ 25 fps, Stream 3: 1920 x 1080 @ 10 fps (only in surveillance mode)
<b>Image sensor</b>	1/2.7" Progressive Scan CMOS	1/2.7" Progressive Scan CMOS	1/2.7" Progressive Scan CMOS
<b>Lens</b>	Fix	Fix	Fix
<b>Focal length</b>	2,8 mm	4 mm	2,8 mm
<b>Horizontal angle of view</b>	103°	83°	103
<b>Optical zoom</b>	-	-	-
<b>Minimum illumination (color)</b>	0.003 lx	0.003 lx	0.003 lx
<b>Minimum illumination (IR)</b>	0 lx	0 lx	0 lx
<b>IR range (up to)</b>	30 m	30 m	30 m
<b>Video compression</b>	Stream 1: H.264, H.265, Dynamic GOP (+), Stream 2: H.264, H.265, MJPEG, Stream 3: H.264, H.265	Stream 1: H.264, H.265, Dynamic GOP (+), Stream 2: H.264, H.265, MJPEG, Stream 3: H.264, H.265	Stream 1: H.264, H.265, Dynamic GOP (+), Stream 2: H.264, H.265, MJPEG, Stream 3: H.264, H.265 (only in surveillance mode)
<b>Video Content Analysis (VCA)</b>	Tripwire Detection, Intrusion Detection, Region Entrance, Region Exit	Tripwire Detection, Intrusion Detection, Region Entrance, Region Exit	Objet Classification Personne/Véhicule
<b>Image enhancement</b>	WDR, BLC, HLC, 3D DNR, Vertical Display (not in Smart-Event mode)	WDR, BLC, HLC, 3D DNR, Vertical Display (not in Smart-Event mode)	WDR, BLC, HLC, 3D DNR, Vertical Display (not in Smart-Event mode)
<b>Encryption</b>	HTTPS, TLS 1.1/1.2	HTTPS, TLS 1.1/1.2	HTTPS, TLS 1.1/1.2
<b>Alarming</b>	E-Mail, NAS, FTP	E-Mail, NAS, FTP	E-Mail, App Push, FTP, CMS
<b>Audio</b>	-	-	-
<b>Connections</b>	1 x RJ45, 1 x DC (Cable length 280 mm)	1 x RJ45, 1 x DC (Cable length 280 mm)	1 x RJ45, 1 x DC (Cable length 280 mm)
<b>Storage medium</b>	microSD card, 256 GB (opt.)	microSD card, 256 GB (opt.)	microSD card, 256 GB (opt.)
<b>DC voltage supply</b>	12 (+/-25 %) V	12 (+/-25 %) V	12 (+/-25 %) V
<b>AC voltage supply</b>	-	-	-
<b>Power consumption</b>	600 mA	600 mA	600 mA
<b>PoE Standard</b>	IEEE 802.3af	IEEE 802.3af	IEEE 802.3af
<b>IP protection class</b>	67	67	67
<b>IK protection class</b>	-	-	-
<b>Min. operating temperature</b>	-25° C	-25° C	-25° C
<b>Max. operating temperature</b>	60° C	60° C	60° C
<b>Compatible with Secoris</b>	Yes	Yes	Yes
<b>Compatible with Secvest</b>	Yes	Yes	Yes
<b>Compatible with wAppLoxx</b>	Yes	Yes	Yes
<b>Compatible with wAppLoxx Pro</b>	Yes	Yes	Yes
<b>Compatible with ABUS Link Station</b>	Yes	Yes	Yes
<b>Max. resolution @ frame rate</b>	2688 x 1520 @ 30 fps	2688 x 1520 @ 30 fps	2688 x 1520 @ 30 fps
<b>Dimensions (W x H x D)</b>	70 x 69 x 170 mm	70 x 69 x 170 mm	70 x 69 x 170 mm
<b>Scope of delivery</b>	IP Mini Tube 4 MPx (2.8 mm) • Quickstart manual • Sicherheitshinweise	IP Mini Tube 4 MPx (4 mm) • Quickstart manual • Sicherheitshinweise	IP Mini Tube 4 MPx (2.8 mm) • Quickstart manual • Safety Information



Item number	IPCB38511A	IPCB38511B
<b>Description</b>	<b>IP Mini Tube 8 MPx (4K, 2.8 mm)</b>	<b>IP Mini Tube 8 MPx (4K, 4mm)</b>
	<ul style="list-style-type: none"> <li>• 8 MPx (4K) resolution: 3,840 x 2,160 @ 20 fps for brilliant surveillance images</li> <li>• 2.8 mm fixed lens (102° angle of view)</li> <li>• Ultra low-light performance for excellent image results in poorly lit environments</li> <li>• Object recognition (human &amp; vehicle): Motion detection with fully automatic differentiation between people/vehicles and disturbances (branches, light, etc.)</li> <li>• 120 dB WDR function to compensate for image contrasts, strong backlighting etc.</li> <li>• Weatherproof housing (IP67)</li> <li>• IR LEDs for very clear night vision (up to 30 m range)</li> <li>• Supports H.264, H.265, MJPEG (incl. Dynamic GOP)</li> <li>• MicroSD card slot for internal data storage</li> <li>• 12 V DC &amp; PoE (802.3af)</li> </ul>	<ul style="list-style-type: none"> <li>• 8 MPx (4K) resolution: 3,840 x 2,160 @ 20 fps for brilliant surveillance images</li> <li>• 4 mm fixed lens (78° angle of view)</li> <li>• Ultra low-light performance for excellent image results in poorly lit environments</li> <li>• Object recognition (human &amp; vehicle): Motion detection with fully automatic differentiation between people/vehicles and disturbances (branches, light, etc.)</li> <li>• 120 dB WDR function to compensate for image contrasts, strong backlighting etc.</li> <li>• Weatherproof housing (IP67)</li> <li>• IR LEDs for very clear night vision (up to 30 m range)</li> <li>• Supports H.264, H.265, MJPEG (incl. Dynamic GOP)</li> <li>• MicroSD card slot for internal data storage</li> <li>• 12 V DC &amp; PoE (802.3af)</li> </ul>
<b>Resolution modes</b>	Stream 1: 3840 x 2160 @ 20 fps, Stream 2: 640 x 480 @ 30 fps, Stream 3: 1280 x 720 @ 30 fps	Stream 1: 3840 x 2160 @ 20 fps, Stream 2: 640 x 480 @ 30 fps, Stream 3: 1280 x 720 @ 30 fps
<b>Image sensor</b>	1/1.8" Progressive Scan CMOS	1/1.8" Progressive Scan CMOS
<b>Lens</b>	Fix	Fix
<b>Focal length</b>	2,8 mm	4 mm
<b>Horizontal angle of view</b>	102°	78°
<b>Optical zoom</b>	-	-
<b>Minimum illumination (color)</b>	0.003 lx	0.003 lx
<b>Minimum illumination (IR)</b>	0 lx	0 lx
<b>IR range (up to)</b>	30 m	30 m
<b>Video compression</b>	Stream 1: H.264, H.265, Dynamic GOP (+), Stream 2: H.264, H.265, MJPEG, Stream 3: H.264, H.265	Stream 1: H.264, H.265, Dynamic GOP (+), Stream 2: H.264, H.265, MJPEG, Stream 3: H.264, H.265
<b>Video Content Analysis (VCA)</b>	Object recognition (human & vehicle) at Tripwire Detection, Intrusion Detection, Region Entrance, Region Exit	Object recognition (human & vehicle) at Tripwire Detection, Intrusion Detection, Region Entrance, Region Exit
<b>Image enhancement</b>	WDR, BLC, HLC, 3D DNR, Vertical Display	WDR, BLC, HLC, 3D DNR, Vertical Display
<b>Encryption</b>	HTTPS, TLS 1.1/1.2	HTTPS, TLS 1.1/1.2
<b>Alarming</b>	E-Mail, NAS, FTP	E-Mail, NAS, FTP
<b>Audio</b>	-	-
<b>Connections</b>	1 x RJ45, 1 x DC (Cable length 280 mm)	1 x RJ45, 1 x DC (Cable length 280 mm)
<b>Storage medium</b>	microSD card, 256 GB (opt.)	microSD card, 256 GB (opt.)
<b>DC voltage supply</b>	12 (+/-25 %) V	12 (+/-25 %) V
<b>AC voltage supply</b>	-	-
<b>Power consumption</b>	600 mA	600 mA
<b>PoE Standard</b>	IEEE 802.3af	IEEE 802.3af
<b>IP protection class</b>	67	67
<b>IK protection class</b>	-	-
<b>Min. operating temperature</b>	-25° C	-25° C
<b>Max. operating temperature</b>	60° C	60° C
<b>Compatible with Secoris</b>	Yes	Yes
<b>Compatible with Secvest</b>	Yes	Yes
<b>Compatible with wAppLoxx</b>	Yes	Yes
<b>Compatible with wAppLoxx Pro</b>	Yes	Yes
<b>Compatible with ABUS Link Station</b>	Yes	Yes
<b>Max. resolution @ frame rate</b>	3840 x 2160 @ 20 fps	3840 x 2160 @ 20 fps
<b>Dimensions (W x H x D)</b>	70 x 69 x 170 mm	70 x 69 x 170 mm
<b>Scope of delivery</b>	IP Mini Tube 8 MPx (2.8 mm) • Quickstart manual • Safety Instructions	IP Mini Tube 8 MPx (4 mm) • Quickstart manual • Safety Instructions



Item number **IPC64521**

Item number **IPC68521**

Description	IP Tube 4 MPx (2.8-12 mm)	IP Tube 8 MPx (2.8 - 12mm)
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- 4 Mpx resolution: 2,688 x 1,520 @ 25 fps
- 2.8 - 12 mm motorised zoom lens (4x optical zoom, 30°-108° viewing angle) for high flexibility in surveillance and installation, incl. easy setup of focal length, focus and viewing direction
- Ultra low-light performance for excellent image results in poorly lit environments
- 120 dB WDR function to compensate for image contrasts, strong backlighting etc.
- Object recognition (human & vehicle): Motion detection with fully automatic differentiation between people/vehicles and disturbances (branches, light, etc.)
- Vandalism- and weatherproof housing (IK10 & IP67)
- IR LEDs for clear night vision (up to 60 m range)

- 8 MPx (4K) resolution: 3,840 x 2,160 @ 20 fps, optimal for larger surveillance areas and grounds
- 2.8 - 12 mm motorised zoom lens (4x optical zoom, 46°-108° viewing angle) for high flexibility in surveillance and installation, incl. easy setup of focal length, focus and viewing direction
- Ultra low-light performance for excellent image results in poorly lit environments
- 120 dB WDR function to compensate for image contrasts, strong backlighting etc.
- Object recognition (human & vehicle): Motion detection with fully automatic differentiation between people/vehicles and disturbances (branches, light, etc.)
- Vandalism- and weatherproof housing (IK10 & IP67)
- IR LEDs for clear night vision (up to 60 m range)

<b>Resolution modes</b>	Stream 1: 2688 x 1520 @ 25 fps, Stream 2: 640 x 480 @ 25 fps, Stream 3: 1920 x 1080 @ 10 fps	Stream 1: 3840 x 2160 @ 20 fps, Stream 2: 640 x 480 @ 30 fps, Stream 3: 1280 x 720 @ 30 fps
<b>Image sensor</b>	1/2.7" Progressive Scan CMOS	1/1.8" Progressive Scan CMOS
<b>Lens</b>	Motor-Zoom	Motor-Zoom
<b>Focal length</b>	2,8 - 12,0 mm	2,8 - 12,0 mm
<b>Horizontal angle of view</b>	30 - 108°	46 - 108°
<b>Optical zoom</b>	4,2 x	4,2 x
<b>Minimum illumination (color)</b>	0.003 lx	0.003 lx
<b>Minimum illumination (IR)</b>	0 lx	0 lx
<b>IR range (up to)</b>	60 m	60 m
<b>Video compression</b>	Stream 1: H.264, H.265, Dynamic GOP (+), Stream 2: H.264, H.265, MJPEG, Stream 3: H.264, H.265	Stream 1: H.264, H.265, Dynamic GOP (+), Stream 2: H.264, H.265, MJPEG, Stream 3: H.264, H.265
<b>Video Content Analysis (VCA)</b>	Object recognition (human & vehicle) at Tripwire Detection, Intrusion Detection, Region Entrance, Region Exit	Object recognition (human & vehicle) at Tripwire Detection, Intrusion Detection, Region Entrance, Region Exit
<b>Image enhancement</b>	WDR, BLC, HLC, 3D DNR, Vertical Display	WDR, BLC, HLC, 3D DNR, Vertical Display
<b>Encryption</b>	HTTPS, TLS 1.1/1.2	HTTPS, TLS 1.1/1.2
<b>Alarming</b>	E-Mail, NAS, FTP, Sound	E-Mail, NAS, FTP, Sound
<b>Audio</b>	Connectable: Microphone, Loudspeaker	Connectable: Microphone, Loudspeaker
<b>Connections</b>	1 x RJ45, 1 x DC, 1 x Alarm input, 1 x Alarm output, 1 x Audio input, 1 x Audio output (Cable length 160 mm)	1 x RJ45, 1 x DC, 1 x Alarm input, 1 x Alarm output, 1 x Audio input, 1 x Audio output (Cable length 160 mm)
<b>Storage medium</b>	microSD card, 256 GB (opt.)	microSD card, 256 GB (opt.)
<b>DC voltage supply</b>	12 (+/-25 %) V	12 (+/-25 %) V
<b>AC voltage supply</b>	-	-
<b>Power consumption</b>	1350 mA	1350 mA
<b>PoE Standard</b>	IEEE 802.3at	IEEE 802.3at
<b>IP protection class</b>	67	67
<b>IK protection class</b>	10	10
<b>Min. operating temperature</b>	-25° C	-25° C
<b>Max. operating temperature</b>	60° C	60° C
<b>Compatible with Secoris</b>	Yes	Yes
<b>Compatible with Secvest</b>	Yes	Yes
<b>Compatible with wAppLoxx</b>	Yes	Yes
<b>Compatible with wAppLoxx Pro</b>	Yes	Yes
<b>Compatible with ABUS Link Station</b>	Yes	Yes
<b>Max. resolution @ frame rate</b>	2688 x 1520 @ 30 fps	3840 x 2160 @ 20 fps
<b>Dimensions (W x H x D)</b>	105 x 105 x 298 mm	105 x 105 x 298 mm
<b>Scope of delivery</b>	IP Tube 4 MPx (2.8 - 12 mm) · Quickstart manual · Safety Instructions	IP Tube 8 MPx (2.8 - 12 mm) · Quickstart manual · Safety Instructions

Item number **IPC64621**

Item number **IPC68621**

Description	IP Tube 4 MPx Black (2.8 - 12mm)	IP Tube 8 MPx Black (2.8 - 12mm)
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- 4 Mpx resolution: 2,688 x 1,520 @ 25 fps
- 2.8 - 12 mm motorised zoom lens (4x optical zoom, 30°-108° viewing angle) for high flexibility in surveillance and installation, incl. easy setup of focal length, focus and viewing direction
- Ultra low-light performance for excellent image results in poorly lit environments
- 120 dB WDR function to compensate for image contrasts, strong backlighting etc.
- Object recognition (human & vehicle): Motion detection with fully automatic differentiation between people/vehicles and disturbances (branches, light, etc.)
- Vandalism- and weatherproof housing (IK10 & IP67); colour: black

- 8 MPx (4K) resolution: 3,840 x 2,160 @ 20 fps, optimal for larger surveillance areas and grounds
- 2.8 - 12 mm motorised zoom lens (4x optical zoom, 46°-108° viewing angle) for high flexibility in surveillance and installation, incl. easy setup of focal length, focus and viewing direction
- Ultra low-light performance for excellent image results in poorly lit environments
- 120 dB WDR function to compensate for image contrasts, strong backlighting etc.
- Object recognition (human & vehicle): Motion detection with fully automatic differentiation between people/vehicles and disturbances (branches, light, etc.)
- Vandalism- and weatherproof housing (IK10 & IP67); colour: black

<b>Resolution modes</b>	Stream 1: 2688 x 1520 @ 25 fps, Stream 2: 640 x 480 @ 25 fps, Stream 3: 1920 x 1080 @ 10 fps	Stream 1: 3840 x 2160 @ 20 fps, Stream 2: 640 x 480 @ 30 fps, Stream 3: 1280 x 720 @ 30 fps
<b>Image sensor</b>	1/2.7" Progressive Scan CMOS	1/1.8" Progressive Scan CMOS
<b>Lens</b>	Motor-Zoom	Motor-Zoom
<b>Focal length</b>	2,8 - 12,0 mm	2,8 - 12,0 mm
<b>Horizontal angle of view</b>	30 - 108°	46 - 108°
<b>Optical zoom</b>	4,2 x	4,2 x
<b>Minimum illumination (color)</b>	0.003 lx	0.003 lx
<b>Minimum illumination (IR)</b>	0 lx	0 lx
<b>IR range (up to)</b>	60 m	60 m
<b>Video compression</b>	Stream 1: H.264, H.265, Dynamic GOP (+), Stream 2: H.264, H.265, MJPEG, Stream 3: H.264, H.265	Stream 1: H.264, H.265, Dynamic GOP (+), Stream 2: H.264, H.265, MJPEG, Stream 3: H.264, H.265
<b>Video Content Analysis (VCA)</b>	Object recognition (human & vehicle) at Tripwire Detection, Intrusion Detection, Region Entrance, Region Exit	Object recognition (human & vehicle) at Tripwire Detection, Intrusion Detection, Region Entrance, Region Exit
<b>Image enhancement</b>	WDR, BLC, HLC, 3D DNR, Vertical Display	WDR, BLC, HLC, 3D DNR, Vertical Display
<b>Encryption</b>	HTTPS, TLS 1.1/1.2	HTTPS, TLS 1.1/1.2
<b>Alarming</b>	E-Mail, NAS, FTP, Sound	E-Mail, NAS, FTP, Sound
<b>Audio</b>	Connectable: Microphone, Loudspeaker	Connectable: Microphone, Loudspeaker
<b>Connections</b>	1 x RJ45, 1 x DC, 1 x Alarm input, 1 x Alarm output, 1 x Audio input, 1 x Audio output (Cable length 160 mm)	1 x RJ45, 1 x DC, 1 x Alarm input, 1 x Alarm output, 1 x Audio input, 1 x Audio output, 1 x Video output
<b>Storage medium</b>	microSD card, 256 GB (opt.)	microSD card, 256 GB (opt.)
<b>DC voltage supply</b>	12 (+/-25 %) V	12 (+/-25 %) V
<b>AC voltage supply</b>	-	-
<b>Power consumption</b>	1350 mA	1350 mA
<b>PoE Standard</b>	IEEE 802.3at	IEEE 802.3at
<b>IP protection class</b>	67	67
<b>IK protection class</b>	10	10
<b>Min. operating temperature</b>	-25° C	-25° C
<b>Max. operating temperature</b>	60° C	60° C
<b>Compatible with Secoris</b>	Yes	Yes
<b>Compatible with Secvest</b>	Yes	Yes
<b>Compatible with wAppLoxx</b>	Yes	Yes
<b>Compatible with wAppLoxx Pro</b>	Yes	Yes
<b>Compatible with ABUS Link Station</b>	Yes	Yes
<b>Max. resolution @ frame rate</b>	2688 x 1520 @ 30 fps	3840 x 2160 @ 20 fps
<b>Dimensions (W x H x D)</b>	105 x 105 x 298 mm	105 x 105 x 298 mm
<b>Scope of delivery</b>	IP Tube 4 MPx (2.8 - 12 mm) · Quickstart manual · Safety Instructions	IP Tube 8 MPx (2.8 - 12 mm) · Quickstart manual · Safety Instructions

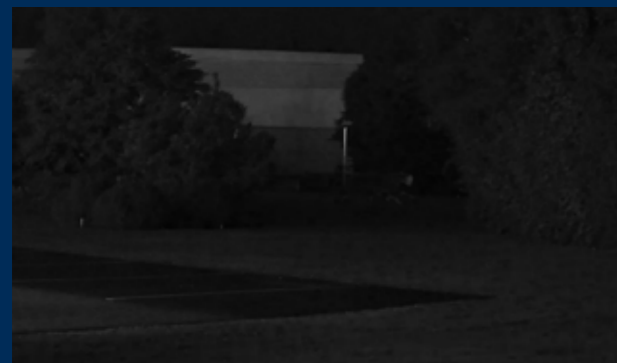
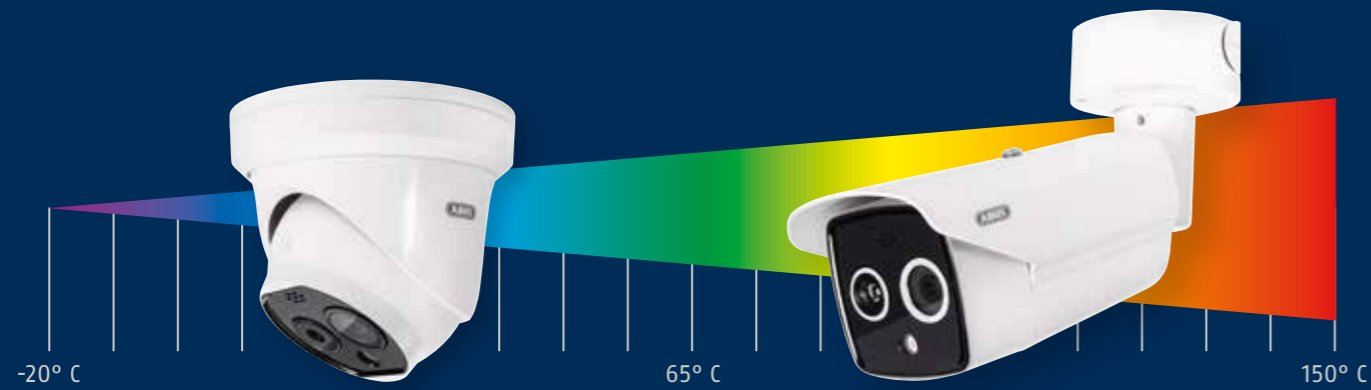
# THERMAL CAMERAS WITH THERMAL IMAGE SENSOR

## BEST PICTURES EVEN AT NIGHT AND IN FOG

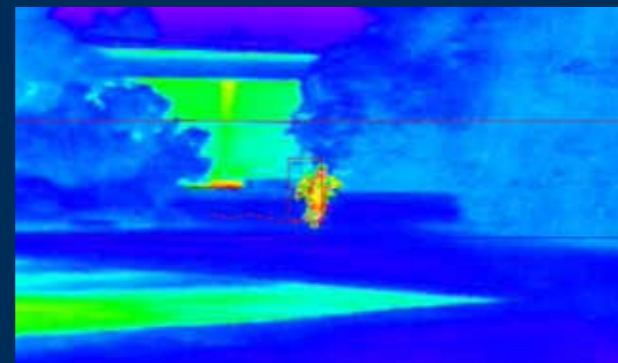
The special solution for 24/7 protection of company premises, large areas and sensitive zones: dual thermal cameras with thermal image sensor plus optical image sensor. For absolutely reliable detection of intruders (human, vehicle) under the most adverse conditions. Ideal for perimeter protection.

## FUNCTION AND ADVANTAGES

- Highly sensitive thermal image sensor: detects the invisible infrared radiation of objects (living beings, objects, machines). The warmer the object, the higher its IR radiation. An image with visible heat zones is created from the radiation differences.
- High alarm accuracy: intelligent object detection (human, vehicle) with AI-supported VCA analysis makes the cameras almost immune to interference and false alarms.
- Best pictures 24/7: thermal images provide clear details under almost all light, weather and environmental conditions such as light intensity, contrast, shadows, fog, etc. People and vehicles are reliably classified.
- Large monitoring area: humans or vehicle can be detected at a distance of 80 m or 200 m. Just a small number of cameras are therefore sufficient to monitor a wide area or a fence.
- Early fire detection: thermal cameras can see temperature fluctuations, such as heat development (e.g. hazardous goods warehouse, e-charging station), pockets of embers (e.g. landfill site) or other signs of incipient fires.



Night shot without thermal technology (optical camera): no intruder can be recognised, no object detection, no motion alarm



Night shot with thermal technology (thermal image): intruder clearly recognisable, detection by object detection function, motion alarm is triggered

## IP CAMERAS ADVANCED



Item number

IPC A54581B



IPC A64581D



Description	Thermal Dome Bi-Spectral 4MPx (3.6 / 4.3 mm)	Thermal Tube Bi-Spectral 4MPx (9.7 / 8 mm)
	<ul style="list-style-type: none"> <li>• Thermal camera with bi-spectral technology: Thermal imaging camera and optical camera in one system thanks to thermal and optical image sensor (dual sensor)</li> <li>• Resolution thermal: 256 x 192 pixels to detect the natural heat radiation emitted by all objects and living creatures and localise specific heat sources</li> <li>• Resolution optical: 4 MPx (2,688 x 1,520 @ 25 fps) for accurate surveillance images and for identifying people and objects located in the thermal image, for example</li> </ul>	<ul style="list-style-type: none"> <li>• Thermal camera with bi-spectral technology: Thermal imaging camera and optical camera in one system thanks to thermal and optical image sensor (dual sensor)</li> <li>• Resolution thermal: 256 x 192 pixels to detect the natural heat radiation emitted by all objects and living creatures and localise specific heat sources</li> <li>• Resolution optical: 4 MPx (2,688 x 1,520 @ 25 fps) for accurate surveillance images and for detecting people and objects located in the thermal image, for example</li> </ul>
<b>Image sensor (Thermal)</b>	Vanadium Oxid Uncooled Focal Plane Arrays	Vanadium Oxid Uncooled Focal Plane Arrays
<b>Resolution (Thermal)</b>	256 x 192	256 x 192
<b>Resolution modes (Thermal)</b>	Stream 1: 1280 x 720 @ 25 fps, Stream 2: 704 x 576 @ 25 fps	Stream 1: 1280 x 720 @ 25 fps, Stream 2: 704 x 576 @ 25 fps
<b>Focal length (Thermal)</b>	3,6 mm	9,7 mm
<b>Horizontal angle of view (Thermal)</b>	50°	18°
<b>Vertical angle of view (Thermal)</b>	37°	13,5°
<b>Pixel pitch</b>	12 µm	12 µm
<b>Spectral range</b>	8 – 14 µm	8 – 14 µm
<b>NETD</b>	< 40 mK (25°C, F1,1)	< 40 mK (25°C, F1,1)
<b>Min. focus distance (Thermal)</b>	0,4 m	3,5 m
<b>Temperature measurement</b>	21 measuring rules (10 measuring points, 10 measuring ranges, 1 measuring line)	21 measuring rules (10 measuring points, 10 measuring ranges, 1 measuring line)
<b>Temperature measuring range</b>	8 – 14° C	8 – 14° C
<b>Temperature accuracy</b>	-20 – 150° C	-20 – 150° C
<b>Temperature measurement range (1 x 1 m / 0,2 x 0,2 m)</b>	58 meters / 12 meters	160 meters / 32 meters
<b>VCA range (human / vehicle)</b>	28 meters / 76 meters	80 meters / 200 meters
<b>Image sensor</b>	1/2.7" Progressive Scan CMOS	1/2.7" Progressive Scan CMOS
<b>Resolution modes</b>	Stream 1: 2688 x 1520 @ 25 fps, Stream 2: 704 x 576 @ 25 fps	Stream 1: 2688 x 1520 @ 25 fps, Stream 2: 704 x 576 @ 25 fps
<b>Lens</b>	Fix	Fix
<b>Focal length</b>	4,3 mm	8 mm
<b>Minimum illumination (color)</b>	0,01 lx	0,01 lx
<b>Horizontal angle</b>	84°	39,5°
<b>Minimum illumination (IR)</b>	0 lx	0 lx
<b>IR range (up to)</b>	15 m	30 m
<b>Video Content Analysis (VCA)</b>	Thermal: 8 VCA rules (intrusion, tripwire, range input, range output), object classification person/vehicle	Thermal: 8 VCA rules (intrusion, tripwire, range input, range output), object classification person/vehicle
<b>Alarming</b>	Flash, speaker, alarm output, e-mail, FTP	Flash, speaker, alarm output, e-mail, FTP
<b>Audio</b>	Integrated: Loudspeaker; Connectable: Microphone, Loudspeaker	Integrated: Loudspeaker; Connectable: Microphone, Loudspeaker
<b>Connections</b>	1 x RJ45, 1 x DC, 1 x alarm input, 1 x alarm output, 1 x audio input, 1 x audio output, 1 x RS485	1 x RJ45, 1 x DC, 1 x alarm input, 1 x alarm output, 1 x audio input, 1 x audio output, 1 x RS485
<b>Storage medium</b>	microSD card (32 GB preinstalled, max. 256 GB)	microSD card (32 GB preinstalled, max. 256 GB)
<b>DC voltage supply</b>	12 (+/-25 %) V	12 (+/-25 %) V
<b>Power consumption</b>	550 mA	700 mA
<b>PoE Standard</b>	IEEE 802,3af	IEEE 802,3af
<b>IP protection class</b>	66	67
<b>Min. operating temperature</b>	-40° C	-40° C
<b>Max. operating temperature</b>	65° C	65° C
<b>Compatible with ABUS Link Station</b>	Yes	Yes
<b>Max. resolution @ frame rate</b>	2688 x 1520 @ 25 fps	2688 x 1520 @ 25 fps
<b>Dimensions (W x H x D)</b>	139 x 128 x 139 mm	106 x 107 x 321 mm
<b>Scope of delivery</b>	Thermal Dome Bi-spectral • Quickstart manual • Safety Information	Thermal Tube Bi-spectral • Quickstart manual • Safety Information

**COLOUR PICTURES AT NIGHT**

- High-contrast surveillance: natural images, just like the human eye is used to. The viewer (e.g. security staff) tires less easily and can recognise incidents more effectively.
- Excellent identification features: maximum image details provide decisive features for identifying perpetrators and vehicles, e.g. hair/clothing colour, logos on a jacket, paint colours.
- Any reflections, as are possible with IR LEDs, are reduced and car number plates and other features are detected better.
- NEW: 180° panorama camera with colour night vision



Night shot with infrared camera



Night shot with Gecko technology

**IP CAMERAS SPECIAL GECKO**



Item number	IPCS54511B <b>GECKO</b>	IPCS54511A <b>GECKO</b>	IPCS54611A <b>GECKO</b>
<b>Description</b>	IP Ball Dome 4 MPx (4 mm, WL)	IP Ball Dome 4 MPx (2.8 mm, WL)	IP Ball Dome Black 4 MPx 2.8 mm, WL)
	<ul style="list-style-type: none"> <li>• 4 Mpx resolution: 2,688 x 1,520 @ 25 fps</li> <li>• 4 mm fixed-focus lens (95° field of view)</li> <li>• Full-colour day/night technology for detailed, highly usable colour images in the dark; effectively amplifies even minimal ambient light by means of a special lens and large, very light-sensitive image sensor</li> <li>• White light LEDs (up to 30 m range) for accurate colour images in total darkness (e.g. interior, unlit terrain); discreet touch of illumination for sensitive full-colour day/night image sensor (barely visible to the human eye)</li> </ul>	<ul style="list-style-type: none"> <li>• 4 Mpx resolution: 2,688 x 1,520 @ 25 fps</li> <li>• 2.8 mm fixed-focus lens (108° field of view)</li> <li>• Full-colour day/night technology for detailed, highly usable colour images in the dark; effectively amplifies even minimal ambient light by means of a special lens and large, very light-sensitive image sensor</li> <li>• White light LEDs (up to 30 m range) for accurate colour images in total darkness (e.g. interior, unlit terrain); discreet touch of illumination for sensitive full-colour day/night image sensor (barely visible to the human eye)</li> </ul>	<ul style="list-style-type: none"> <li>• 4 Mpx resolution: 2,688 x 1,520 @ 25 fps</li> <li>• 4 mm fixed lens (108° angle of view)</li> <li>• Full-colour day/night technology for detailed, highly usable colour images in darkness; effectively amplifies even minimal ambient light by means of a special lens and large, highly light-sensitive image sensor</li> <li>• White light LEDs (up to 30 m range) for accurate colour images in total darkness (e.g. interior, unlit terrain); subtle, finely metered lighting for sensitive full-colour day/night image sensor (barely visible to the human eye)</li> </ul>
<b>Resolution modes</b>	Stream 1: 2688 x 1520 @ 25 fps, Stream 2: 640 x 480 @ 25 fps, Stream 3: 1920 x 1080 @ 10 fps	Stream 1: 2688 x 1520 @ 25 fps, Stream 2: 640 x 480 @ 25 fps, Stream 3: 1920 x 1080 @ 10 fps	Stream 1: 2688 x 1520 @ 25 fps, Stream 2: 640 x 480 @ 25 fps, Stream 3: 1920 x 1080 @ 10 fps (only in surveillance mode)
<b>Image sensor</b>	1/1.8" Progressive Scan CMOS	1/1.8" Progressive Scan CMOS	1/1.8" Progressive Scan CMOS
<b>Lens</b>	Fix	Fix	Fix
<b>Focal length</b>	4 mm	2,8 mm	2,8 mm
<b>Horizontal angle of view</b>	95°	108°	108
<b>Optical zoom</b>	-	-	-
<b>Minimum illumination (color)</b>	0.0005 lx	0.0005 lx	0.0005 lx
<b>White light LEDs (up to)</b>	30 m	30 m	30 m
<b>Video compression</b>	Stream 1: H.264, H.265, Dynamic GOP (+), Stream 2: H.264, H.265, MJPEG, Stream 3: H.264, H.265	Stream 1: H.264, H.265, Dynamic GOP (+), Stream 2: H.264, H.265, MJPEG, Stream 3: H.264, H.265	Stream 1: H.264, H.265, Dynamic GOP (+), Stream 2: H.264, H.265, MJPEG, Stream 3: H.264, H.265 (only in surveillance mode)
<b>Video Content Analysis (VCA)</b>	Tripwire Detection, Intrusion Detection, Region Entrance, Region Exit	Tripwire Detection, Intrusion Detection, Region Entrance, Region Exit	Tripwire Detection, Intrusion Detection, Region Entrance, Region Exit
<b>Image enhancement</b>	WDR, BLC, HLC, 3D DNR, Vertical Display (not in Smart-Event mode)	WDR, BLC, HLC, 3D DNR, Vertical Display (not in Smart-Event mode)	WDR, BLC, HLC, 3D DNR, Vertical Display (not in Smart-Event mode)
<b>Encryption</b>	HTTPS, TLS 1.1/1.2	HTTPS, TLS 1.1/1.2	HTTPS, TLS 1.1/1.2
<b>Alarming</b>	E-Mail, NAS, FTP	E-Mail, NAS, FTP	E-Mail, App Push, FTP, CMS
<b>Audio</b>	Integrated: Microphone	Integrated: Microphone	Integrated: Microphone
<b>Connections</b>	1 x RJ45, 1 x DC	1 x RJ45, 1 x DC	1 x RJ45, 1 x DC
<b>Storage medium</b>	microSD card, 256 GB (opt.)	microSD card, 256 GB (opt.)	microSD card, 256 GB (opt.)
<b>DC voltage supply</b>	12 (+/-25 %) V	12 (+/-25 %) V	12 (+/-25 %) V
<b>AC voltage supply</b>	-	-	-
<b>Power consumption</b>	600 mA	600 mA	600 mA
<b>PoE Standard</b>	IEEE 802.3af	IEEE 802.3af	IEEE 802.3af
<b>IP protection class</b>	67	67	67
<b>IK protection class</b>	-	-	-
<b>Min. operating temperature</b>	-25° C	-25° C	-25° C
<b>Max. operating temperature</b>	60° C	60° C	60° C
<b>Compatible with Secoris</b>	Yes	Yes	Yes
<b>Compatible with Secvest</b>	Yes	Yes	Yes
<b>Compatible with wAppLoxx</b>	Yes	Yes	Yes
<b>Compatible with wAppLoxx Pro</b>	Yes	Yes	Yes
<b>Compatible with ABUS Link Station</b>	Yes	Yes	Yes
<b>Max. resolution @ frame rate</b>	2688 x 1520 @ 30 fps	2688 x 1520 @ 30 fps	2688 x 1520 @ 30 fps
<b>Dimensions (W x H x D)</b>	139 x 128 x 139 mm	139 x 128 x 139 mm	139 x 128 x 139 mm
<b>Scope of delivery</b>	IP Dome 4 MPx (4 mm) • Quickstart manual • Sicherheitshinweise	IP Dome 4 MPx (2.8 mm) • Quickstart manual • Sicherheitshinweise	IP Dome 4 MPx Black (2.8 mm, WL) • Quickstart manual • Safety Information



Item number

IPC34511A **GECK**

IPC34511B **GECK**

IPC34611A **GECK**

Description	IP Mini Tube 4 MPx (2.8 mm, WL)	IP Mini Tube 4 MPx (4 mm, WL)	IP Mini Tube 4 MPx Black (2.8 mm, WL)
	<ul style="list-style-type: none"> <li>• 4 Mpx resolution: 2,688 x 1,520 @ 25 fps</li> <li>• 2.8 mm fixed-focus lens (108° field of view)</li> <li>• Full-colour day/night technology for detailed, highly usable colour images in the dark; effectively amplifies even minimal ambient light by means of a special lens and large, very light-sensitive image sensor</li> <li>• White light LEDs (up to 30 m range) for accurate colour images in total darkness (e.g. interior, unlit terrain); discreet touch of illumination for sensitive full-colour day/night image sensor (barely visible to the human eye)</li> </ul>	<ul style="list-style-type: none"> <li>• 4 Mpx resolution: 2,688 x 1,520 @ 25 fps</li> <li>• 4 mm fixed-focus lens (95° field of view)</li> <li>• Full-colour day/night technology for detailed, highly usable colour images in the dark; effectively amplifies even minimal ambient light by means of a special lens and large, very light-sensitive image sensor</li> <li>• White light LEDs (up to 30 m range) for accurate colour images in total darkness (e.g. interior, unlit terrain); discreet touch of illumination for sensitive full-colour day/night image sensor (barely visible to the human eye)</li> </ul>	<ul style="list-style-type: none"> <li>• 4 MPx resolution (2,688 x 1,520 @ 25 fps) for crisp surveillance images</li> <li>• 2.8 mm fixed lens for longer distances (108° angle of view)</li> <li>• Detailed, highly usable colour images in the dark thanks to full-colour day/night technology; effectively amplifies even minimal ambient light using a special lens and highly light-sensitive image sensor</li> <li>• Discreet illumination of the field of view with white-light LEDs (up to 30 m range) for accurate colour images in total darkness (e.g. indoors); finely metered lighting for the light-sensitive image sensor (barely visible to the human eye)</li> </ul>
<b>Resolution modes</b>	Stream 1: 2688 x 1520 @ 25 fps, Stream 2: 640 x 480 @ 25 fps, Stream 3: 1920 x 1080 @ 10 fps	Stream 1: 2688 x 1520 @ 25 fps, Stream 2: 640 x 480 @ 25 fps, Stream 3: 1920 x 1080 @ 10 fps	Stream 1: 2688 x 1520 @ 25 fps, Stream 2: 640 x 480 @ 25 fps, Stream 3: 1920 x 1080 @ 10 fps (only in surveillance mode)
<b>Image sensor</b>	1/1.8" Progressive Scan CMOS	1/1.8" Progressive Scan CMOS	1/1.8" Progressive Scan CMOS
<b>Lens</b>	Fix	Fix	Fix
<b>Focal length</b>	2,8 mm	4 mm	2,8 mm
<b>Horizontal angle of view</b>	108°	95°	108
<b>Optical zoom</b>	-	-	-
<b>Minimum illumination (color)</b>	0.0005 lx	0.0005 lx	0.0005 lx
<b>White light LEDs (up to)</b>	30 m	30 m	30 m
<b>Video compression</b>	Stream 1: H.264, H.265, Dynamic GOP (+), Stream 2: H.264, H.265, MJPEG, Stream 3: H.264, H.265	Stream 1: H.264, H.265, Dynamic GOP (+), Stream 2: H.264, H.265, MJPEG, Stream 3: H.264, H.265	Stream 1: H.264, H.265, Dynamic GOP (+), Stream 2: H.264, H.265, MJPEG, Stream 3: H.264, H.265 (only in surveillance mode)
<b>Video Content Analysis (VCA)</b>	Tripwire Detection, Intrusion Detection, Region Entrance, Region Exit	Tripwire Detection, Intrusion Detection, Region Entrance, Region Exit	Tripwire Detection, Intrusion Detection, Region Entrance, Region Exit
<b>Image enhancement</b>	WDR, BLC, HLC, 3D DNR, Vertical Display (not in Smart-Event mode)	WDR, BLC, HLC, 3D DNR, Vertical Display (not in Smart-Event mode)	WDR, BLC, HLC, 3D DNR, Vertical Display (not in Smart-Event mode)
<b>Encryption</b>	HTTPS, TLS 1.1/1.2	HTTPS, TLS 1.1/1.2	HTTPS, TLS 1.1/1.2
<b>Alarming</b>	E-Mail, NAS, FTP	E-Mail, NAS, FTP	E-Mail, App Push, FTP, CMS
<b>Audio</b>	Integrated: Microphone	Integrated: Microphone	Integrated: Microphone
<b>Connections</b>	1 x RJ45, 1 x DC	1 x RJ45, 1 x DC	1 x RJ45, 1 x DC
<b>Storage medium</b>	microSD card, 256 GB (opt.)	microSD card, 256 GB (opt.)	microSD card, 256 GB (opt.)
<b>DC voltage supply</b>	12 (+/-25 %) V	12 (+/-25 %) V	12 (+/-25 %) V
<b>AC voltage supply</b>	-	-	-
<b>Power consumption</b>	600 mA	600 mA	600 mA
<b>PoE Standard</b>	IEEE 802.3af	IEEE 802.3af	IEEE 802.3af
<b>IP protection class</b>	67	67	67
<b>IK protection class</b>	-	-	-
<b>Min. operating temperature</b>	-25° C	-25° C	-25° C
<b>Max. operating temperature</b>	60° C	60° C	60° C
<b>Compatible with Secoris</b>	Yes	Yes	Yes
<b>Compatible with Secvest</b>	Yes	Yes	Yes
<b>Compatible with wAppLoxx</b>	Yes	Yes	Yes
<b>Compatible with wAppLoxx Pro</b>	Yes	Yes	Yes
<b>Compatible with ABUS Link Station</b>	Yes	Yes	Yes
<b>Max. resolution @ frame rate</b>	2688 x 1520 @ 30 fps	2688 x 1520 @ 30 fps	2688 x 1520 @ 30 fps
<b>Dimensions (W x H x D)</b>	85 x 85 x 223 mm	85 x 85 x 223 mm	85 x 85 x 223 mm
<b>Scope of delivery</b>	IP Mini Tube 4 MPx (2.8 mm) • Quickstart manual • Sicherheitshinweise	IP Mini Tube 4 MPx (4 mm) • Quickstart manual • Sicherheitshinweise	IP Mini Tube 4 MPx Black (2.8 mm, WL) • Quickstart manual • Safety Information



Item number

IPC64511A **GECK**

IPC64511B **GECK**

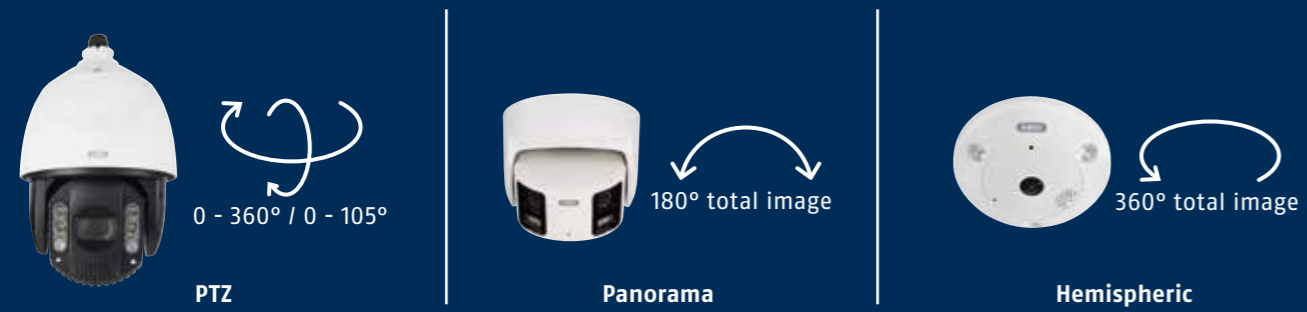
IPC64611A **GECK**

Description	IP Tube 4 MPx (2.8 mm, WL)	IP Tube 4 MPx (4 mm, WL)	IP Tube 4 MPx Black (2.8 mm, WL)
	<ul style="list-style-type: none"> <li>• 4 Mpx resolution: 2,688 x 1,520 @ 25 fps</li> <li>• 2.8 mm fixed-focus lens (108° field of view)</li> <li>• Full-colour day/night technology for detailed, highly usable colour images in the dark; effectively amplifies even minimal ambient light by means of a special lens and large, very light-sensitive image sensor</li> <li>• White light LEDs (up to 50 m range) for accurate colour images in total darkness (e.g. interior, unlit terrain); subtle, touch of illumination for sensitive full-colour day/night image sensor (barely visible to the human eye)</li> </ul>	<ul style="list-style-type: none"> <li>• 4 Mpx resolution: 2,688 x 1,520 @ 25 fps</li> <li>• 4 mm fixed-focus lens (95° field of view)</li> <li>• Full-colour day/night technology for detailed, highly usable colour images in the dark; effectively amplifies even minimal ambient light by means of a special lens and large, very light-sensitive image sensor</li> <li>• White light LEDs (up to 50 m range) for accurate colour images in total darkness (e.g. interior, unlit terrain); subtle, touch of illumination for sensitive full-colour day/night image sensor (barely visible to the human eye)</li> </ul>	<ul style="list-style-type: none"> <li>• 4 Mpx resolution: 2,688 x 1,520 @ 25 fps</li> <li>• 2.8 mm fixed lens (108° angle of view)</li> <li>• Full-colour day/night technology for detailed, highly usable colour images in darkness; effectively amplifies even minimal ambient light by means of a special lens and large, highly light-sensitive image sensor</li> <li>• White light LEDs (up to 50 m range) for accurate colour images in total darkness (e.g. interior, unlit terrain); subtle, finely metered lighting for sensitive full-colour day/night image sensor (barely visible to the human eye)</li> </ul>
<b>Resolution modes</b>	Stream 1: 2688 x 1520 @ 25 fps, Stream 2: 640 x 480 @ 25 fps, Stream 3: 1920 x 1080 @ 10 fps	Stream 1: 2688 x 1520 @ 25 fps, Stream 2: 640 x 480 @ 25 fps, Stream 3: 1920 x 1080 @ 10 fps	Stream 1: 2688 x 1520 @ 25 fps, Stream 2: 640 x 480 @ 25 fps, Stream 3: 1920 x 1080 @ 10 fps (only in surveillance mode)
<b>Image sensor</b>	1/1.8" Progressive Scan CMOS	1/1.8" Progressive Scan CMOS	1/1.8" Progressive Scan CMOS
<b>Lens</b>	Fix	Fix	Fix
<b>Focal length</b>	2,8 mm	4 mm	2,8 mm
<b>Horizontal angle of view</b>	108°	95°	108
<b>Optical zoom</b>	-	-	-
<b>Minimum illumination (color)</b>	0.0005 lx	0.0005 lx	0.0005 lx
<b>White light LEDs (up to)</b>	50 m	50 m	50 m
<b>Video compression</b>	Stream 1: H.264, H.265, Dynamic GOP (+), Stream 2: H.264, H.265, MJPEG, Stream 3: H.264, H.265	Stream 1: H.264, H.265, Dynamic GOP (+), Stream 2: H.264, H.265, MJPEG, Stream 3: H.264, H.265	Stream 1: H.264, H.265, Dynamic GOP (+), Stream 2: H.264, H.265, MJPEG, Stream 3: H.264, H.265 (only in surveillance mode)
<b>Video Content Analysis (VCA)</b>	Tripwire Detection, Intrusion Detection, Region Entrance, Region Exit	Tripwire Detection, Intrusion Detection, Region Entrance, Region Exit	Tripwire Detection, Intrusion Detection, Region Entrance, Region Exit
<b>Image enhancement</b>	WDR, BLC, HLC, 3D DNR, Vertical Display (not in Smart-Event mode)	WDR, BLC, HLC, 3D DNR, Vertical Display (not in Smart-Event mode)	WDR, BLC, HLC, 3D DNR, Vertical Display (not in Smart-Event mode)
<b>Encryption</b>	HTTPS, TLS 1.1/1.2	HTTPS, TLS 1.1/1.2	HTTPS, TLS 1.1/1.2
<b>Alarming</b>	E-Mail, NAS, FTP	E-Mail, NAS, FTP	E-Mail, App Push, FTP, CMS
<b>Audio</b>	-	-	-
<b>Connections</b>	1 x RJ45, 1 x DC	1 x RJ45, 1 x DC	1 x RJ45, 1 x DC
<b>Storage medium</b>	microSD card, 256 GB (opt.)	microSD card, 256 GB (opt.)	microSD card, 256 GB (opt.)
<b>DC voltage supply</b>	12 (+/-25 %) V	12 (+/-25 %) V	12 (+/-25 %) V
<b>AC voltage supply</b>	-	-	-
<b>Power consumption</b>	600 mA	600 mA	600 mA
<b>PoE Standard</b>	IEEE 802.3af	IEEE 802.3af	IEEE 802.3af
<b>IP protection class</b>	67	67	67
<b>IK protection class</b>	-	-	-
<b>Min. operating temperature</b>	-25° C	-25° C	-25° C
<b>Max. operating temperature</b>	60° C	60° C	60° C
<b>Compatible with Secoris</b>	Yes	Yes	Yes
<b>Compatible with Secvest</b>	Yes	Yes	Yes
<b>Compatible with wAppLoxx</b>	Yes	Yes	Yes
<b>Compatible with wAppLoxx Pro</b>	Yes	Yes	Yes
<b>Compatible with ABUS Link Station</b>	Yes	Yes	Yes
<b>Max. resolution @ frame rate</b>	2688 x 1520 @ 30 fps	2688 x 1520 @ 30 fps	2688 x 1520 @ 30 fps
<b>Dimensions (W x H x D)</b>	105 x 105 x 282 mm	105 x 105 x 282 mm	105 x 105 x 282 mm
<b>Scope of delivery</b>	IP Tube 4 MPx (2.8 mm) • Quickstart manual • Sicherheitshinweise	IP Tube 4 MPx (4 mm) • Quickstart manual • Sicherheitshinweise	IP Tube 4 MPx Black (2.8 mm, WL) • Quickstart manual • Safety Information

# SPECIAL-KAMERAS

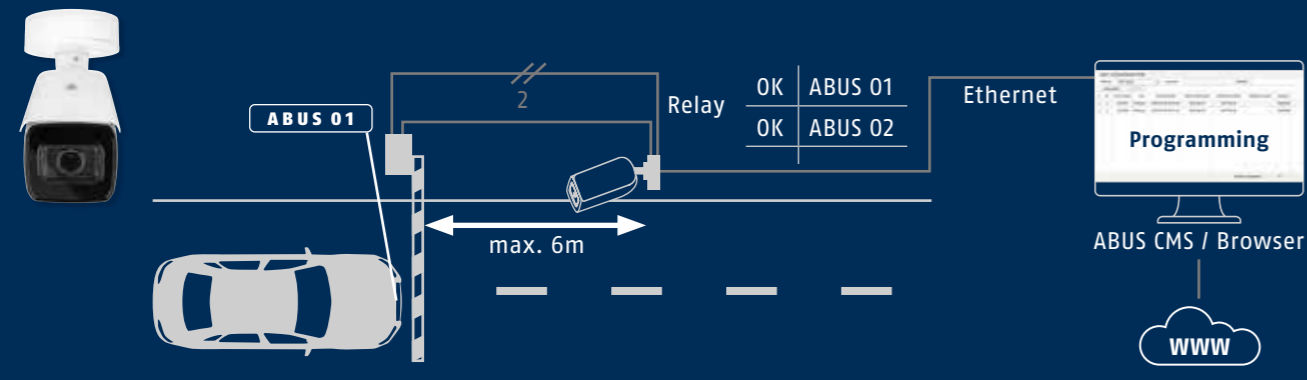
## FAR-SIGHTED VIEW WITHOUT BOUNDARIES

PTZ cameras with pan/tilt lens and optical zoom offer a variable viewing angle in all directions and for different distances, controllable via control panel, NVR or app – and by means of automatic object tracking. Panoramic and hemispheric cameras provide a permanent overview in 180° format (outdoor) or with 360° view (indoor from the ceiling).



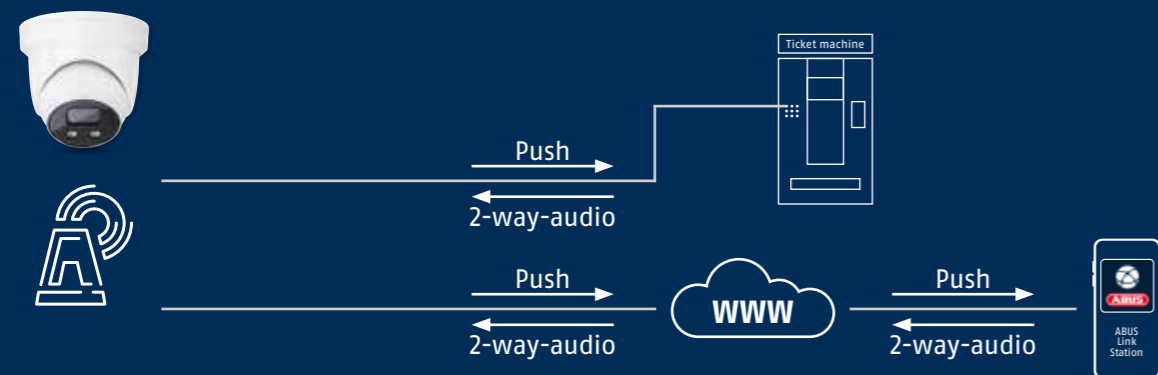
## RECOGNISE NUMBER PLATES & CONTROL RELAYS

ANPR cameras control fully automatic access to the building, car park, premises or construction site. After matching each number plate with positive/negative lists, the barrier is opened or not and the number plate is logged. The cameras work autonomously or as part of a surveillance system.



## ALL-IN-ONE CAMERA: LOCAL ALARM & MORE

With microphone, loudspeaker and flashing light: perpetrators are deterred by camera alarm and by direct addressing. Incl. intercom and set-up of automatic processes in object monitoring and for service purposes.



## IP-CAMERAS SPECIAL



Item number

IPCS28581A **GECK**

IPCS58571A



Description

IP Panorama Dome 8 MPx (180°, WL)

IP Spherical Dome 8 MPx (2.8 mm) with 2WAY Audio & Alarm

- 8 MPx resolution (Ultra-HD) for high image quality and coverage of large surveillance areas in terrain and outdoor surveillance
- 180° panoramic surveillance camera with dual-lens technology (2 camera modules with 4 mm lens focal length each) for optimal overview with only one camera
- Object recognition (human & vehicle) for precise motion alarms without false alarm flood: For vehicle and person detection with fully automatic differentiation of vehicles/people from disturbing influences (twigs, birds, light etc.)

- 2-way audio security camera with integrated microphone, loudspeaker and flashing light for intercom to address people and perpetrators, as well as alarms (acoustic, visual)
- Integrated alarm input/output (I/O) for switching scenarios for effective alarm utilisation or optimisation of operating procedures (e.g. sales room)
- Object recognition (human & vehicle): Motion detection with fully automatic differentiation between people/vehicles and disturbances (branches, light, etc.) for setting precise VCA sequences (scenarios)

Resolution modes

WDR off: Stream 1: 5120 x 1440 @ 20 fps, Stream 2: 1920 x 536 @ 20 fps, WDR on: Stream 1: 5120 x 1440 @ 12.5 fps, Stream 2: 1920 x 536 @ 12.5 fps

Stream 1: 3840 x 2160 @ 25 fps, Stream 2: 640 x 480 @ 25 fps, Stream 3: 1920 x 1080 @ 10 fps (only in surveillance mode)

Image sensor

2 x 1/1,8" Progressive Scan CMOS

1/1,8" Progressive Scan CMOS

Lens

Fix

Fix

Focal length

2 x 4 mm

2,8 mm

Horizontal viewing angle

180°

110°

Optical zoom

No

-

Digital zoom

Yes

Yes

Pan/tilt range

-

-

Minimum illumination (colour)

0.0005 lx

0.003 lx

Minimum illumination (IR)

-

0 lx

IR range (up to)

-

30 m

Video compression

Stream 1: H.264, H.265, Dynamic GOP (+), Stream 2: H.264, H.265, MJPEG

Stream 1: H.264, H.265, Dynamic GOP (+), Stream 2: H.264, H.265, MJPEG, Stream 3: H.264, H.265 (only in surveillance mode)

Video Content Analysis (VCA)

Object recognition (human & vehicle) at Tripwire Detection, Intrusion Detection, Region Entrance, Region Exit

Object recognition (human & vehicle) at Tripwire Detection, Intrusion Detection, Region Entrance, Region Exit

Image enhancement

-

WDR, BLC, HLC, 3D DNR, Vertical Display (not in Smart-Event mode)

Encryption

HTTPS, TLS 1.2

HTTPS, TLS 1.1/1.2

Alarming

Email, App Push, FTP, CMS

Flash, Loudspeaker, Email, App Push, FTP, CMS

Audio

Integrated: Microphone, Loudspeaker; Connectable: Microphone, Loudspeake

Integrated: Microphone, Loudspeaker; Connectable: Microphone, Loudspeake

Connections

1 x RJ45, 1 x DC, 1 x alarm input, 1 x alarm output, 1 x audio input, 1 x audio output

1 x RJ45, 1 x DC, 1 x alarm input, 1 x alarm output, 1 x audio input, 1 x audio output (cable length 250 mm)

Storage medium

microSD card, 256 GB (opt.)

microSD card, 256 GB (opt.)

DC voltage supply

12 (+/-25 %) V

12 (+/-25 %) V

Power consumption

900 mA

800 mA

PoE standard

IEEE 802.3af

IEEE 802.3af

IP protection class

67

67

Protection class IK

-

-

Min. operating temperature

-30° C

-25° C

Other functions

Object Classification Person/Vehicle

Object Classification Person/Vehicle

Max. operating temperature

60° C

60° C

Compatible with Secoris

No

Yes

Compatible with Secvest

No

Yes

Compatible with wAppLoxx

No

Yes

Compatible with wAppLoxx Pro

No

Yes

Compatible with ABUS Link Station

Yes

Yes

Max. resolution @ frame rate

5120 x 1440 @ 20 fps

3840 x 2160 @ 30 fps

Dimensions (W x H x D)

155 x 155 mm

139 x 128 x 139 mm

Scope of delivery

IP Panorama Dome 8 MPx (180°, WL) · Quickstart manual · Safety Information

IP Dome 8 MPx (2.8 mm) · Quickstart manual · Safety Information





Item number **IPC29511** **IPC64531** **IPC64541**

Description	IP Fisheye 12 MPx	IP Tube 4 MPx (2.8-12 mm, licence plate/ANPR)	IP Tube 4 MPx Telephoto Motorised Zoom (4.7-118 mm)
	<ul style="list-style-type: none"> <li>360°/180° panoramic views with up to 12 MPx resolution</li> <li>360°/180° panoramic views with up to 12 MPx resolution</li> </ul>	<ul style="list-style-type: none"> <li>4 Mpx resolution: 2.688 x 1,520 @ 25 fps for accurate surveillance images and number plate recognition</li> </ul>	<ul style="list-style-type: none"> <li>4 Mpx resolution: 2.688 x 1,520 @ 25 fps or 2,560 x 1,440 pixels at 50 fps (double the number of frames/sec) for very clear, smooth shots of moving subjects</li> </ul>
<b>Resolution modes</b>	Fisheye (max. 4000x3072 @ 20 fps) or Panorama (max. 3072x2304 @ 15 fps) or 4xPTZ (1600x1200 @ 15 fps) or Fisheye+3xPTZ (max. 2560x2560 @ 10 fps / 1600x1200 @ 10 fps)	Stream 1: 2688 x 1520 @ 30 fps, Stream 2: 704 x 576 @ 30 fps, Stream 3: 1920 x 1080 @ 30 fps, Stream 4: max. 1.920 x 1.080 @ 30 fps, Stream 5: max. 704 x 576 @ 30 fps	Stream 1: 2688 x 1520 @ 30 fps, Stream 2: 704 x 576 @ 30 fps, Stream 3: 1920 x 1080 @ 30 fps, Stream 4: max. 1.920 x 1.080 @ 30 fps, Stream 5: max. 704 x 576 @ 30 fps
<b>Image sensor</b>	1/1.7" Progressive Scan CMOS	1/1.8" Progressive Scan CMOS	1/1.8" Progressive Scan CMOS
<b>Lens</b>	Fix	Motor-Zoom, Autofokus	Motor-Zoom, Autofokus
<b>Focal length</b>	1,29 mm	2,8 – 12,0 mm	4,8 – 118,0 mm
<b>Horizontal viewing angle</b>	180°	42 – 114°	2,8 – 56°
<b>Optical zoom</b>	-	4,2 x	25 x
<b>Digital zoom</b>	ePTZ	Yes	Yes
<b>Pan/tilt range</b>	360°/80° (ePTZ)	-	-
<b>Minimum illumination (colour)</b>	0.015 lx	0.0005 lx	0.01 lx
<b>Minimum illumination (IR)</b>	0 lx	0 lx	0 lx
<b>IR range (up to)</b>	15 m	50 m	200 m
<b>Video compression</b>	H.264, MJPEG	Stream 1: H.264, H.265, H.264+, H.265+, Stream 2/3/4/5: H.264, H.265, MJPEG	Stream 1: H.264, H.265, H.264+, H.265+, Stream 2/3/4/5: H.264, H.265, MJPEG
<b>Video Content Analysis (VCA)</b>	Tripwire Detection, Intrusion Detection, Region Entrance, Region Exit	ANPR - Automatic Number Plate Recognition (Europe, max. 70 km/h, single/double line plates)	Object Detection Human & Vehicle for Tripwire Detection, Intrusion Detection, Region Entrance, Region Exit or Face Recognition (2D)
<b>Image enhancement</b>	DWDR, BLC, HLC, 3D-DNR	WDR, BLC, HLC, 3D DNR, EIS Electr. Image Stabilizer	WDR, BLC, HLC, 3D DNR, EIS Electr. Image Stabilizer
<b>Encryption</b>	HTTPS	HTTPS	HTTPS
<b>Alarming</b>	Yes	E-Mail, App Push, FTP, CMS	E-Mail, App Push, FTP, CMS
<b>Audio</b>	Integrated: Microphone, Loudspeaker; Connectable: Microphone, Loudspeaker	Connectable: Microphon, Loudspeaker	Connectable: Microphon, Loudspeaker
<b>Connections</b>	1 x RJ45, 1 x DC, 1 x Alarm-In, 1 x Alarm-Out, 1 x Audio-In, 1 x Audio-Out	1 x RJ45, 1 x DC, 2 x alarm in, 2 x alarm out, 1 x Wiegand, 1 x DC out, 1 x audio in, 1 x audio out, 1 x RS485	1 x RJ45, 1 x DC, 2 x alarm in, 2 x alarm out, 1 x DC out, 1 x audio in, 1 x audio out, 1 x RS485
<b>Storage medium</b>	microSD (256 GB)	microSD card, 256 GB (opt.)	microSD card, 256 GB (opt.)
<b>DC voltage supply</b>	12 (+/-25 %) V	12 (+/-20 %) V	12 (+/-20 %) V
<b>Power consumption</b>	900 mA	1400 mA	1400 mA
<b>PoE standard</b>	IEEE 802.3af	IEEE 802.3at	IEEE 802.3at
<b>IP protection class</b>	67	67	67
<b>Protection class IK</b>	10	10	10
<b>Min. operating temperature</b>	-40° C	-30° C	-30° C
<b>Other functions</b>	Heat Map, Intersection analysis	Black/White List (max. 10000 number plates)	-
<b>Max. operating temperature</b>	60° C	60° C	60° C
<b>Compatible with Secoris</b>	No	No	No
<b>Compatible with Secvest</b>	No	No	No
<b>Compatible with wAppLoxx</b>	No	No	No
<b>Compatible with wAppLoxx Pro</b>	No	No	No
<b>Compatible with ABUS Link Station</b>	Yes	Yes	Yes
<b>Max. resolution @ frame rate</b>	4000 x 3072 @ 20 fps	2688 x 1520 @ 25/30 fps	2688 x 1520 @ 25/30 fps, 2560 x 1440 @ 50/60 fps
<b>Dimensions (W x H x D)</b>	164 x 44 x 164 mm	140 x 140 x 350 mm	140 x 140 x 350 mm
<b>Scope of delivery</b>	Outdoor Hemispheric IP Dome 12 MPx · Safety instructions · Quickstart manual	IP Tube (4 Mpx, 2.8 - 12 mm, ANPR) · Junction box · Quickstart manual · Safety Information	IP Tube (4 Mpx, 4.8 - 118 mm) · Junction box · Quickstart manual · Safety Information

Item number **IPC84511** **IPC84531** **IPC84551**

Description	IP Mini PTZ 4 MPx (4x)	IP PTZ 4 MPx (25x)	IP PTZ Dome 4 MPx (32x)
	<ul style="list-style-type: none"> <li>4 Mpx resolution: 2.560 x 1.440 @ 25 fps</li> <li>4x optical zoom, 16x digital zoom</li> <li>Ultra low-light performance for excellent results in low light</li> <li>120 dB WDR function to compensate for image contrasts</li> </ul>	<ul style="list-style-type: none"> <li>4 MPx Resolution: 2.560 x 1.440 @ 25 fps</li> <li>25x autofocus zoom lens (4.8-120 mm)</li> <li>Ultra low-light performance for excellent low-light environments</li> <li>120 dB WDR function to compensate for image contrasts</li> </ul>	<ul style="list-style-type: none"> <li>4 MPx resolution: 2,560 x 1,440 @ 25 fps</li> <li>32x optical zoom: telephoto motorized zoom lens (5.9-189 mm focal length for 51-2.6° angle of view) for monitoring large areas from up to 3 km away</li> </ul>
<b>Resolution modes</b>	Stream 1: 2.560 x 1.440 @ 25 fps, Stream 2: 704 x 576 @ 25 fps, Stream 3: 1.920 x 1.080 @ 25 fps	Stream 1: 2.560 x 1.440 @ 25 fps, Stream 2: 704 x 576 @ 25 fps, Stream 3: 1.920 x 1.080 @ 25 fps	Stream 1: 2.560 x 1.440 @ 25 fps, Stream 2: 704 x 576 @ 25 fps, Stream 3: 1.920 x 1.080 @ 25 fps
<b>Image sensor</b>	1/2.8" Progressive Scan CMOS	1/2.8" Progressive Scan CMOS	1/1.8" Progressive Scan CMOS
<b>Lens</b>	Motor-Zoom	Motor-Zoom, Autofocus	Motorised zoom, autofocus
<b>Focal length</b>	2,8 – 12,0 mm	4,8 – 120 mm	5,9 - 189 mm
<b>Horizontal viewing angle</b>	31,6 – 96,7°	2,5 – 53°	2,6 – 51°
<b>Optical zoom</b>	4x	25x	32 x
<b>Digital zoom</b>	16 x	16 x	16x
<b>Pan/tilt range</b>	355° / 0° – 90°	360° / -5° – 90°	360°/-15°~90°
<b>Minimum illumination (colour)</b>	0.005 lx	0.005 lx	0.005 lx
<b>Minimum illumination (IR)</b>	0 lx	0 lx	0 lx
<b>IR range (up to)</b>	20 m	50 m	200 m
<b>Video compression</b>	Stream 1: H.264, H.265, Dynamic GOP, Stream 2: H.264, H.265, MJPEG, Stream 3: H.264, H.265, MJPEG	Stream 1: H.264, H.265, Dynamic GOP, Stream 2: H.264, H.265, MJPEG, Stream 3: H.264, H.265, MJPEG	Stream 1: H.264, H.265, Dynamic GOP, Stream 2: H.264, H.265, MJPEG, Stream 3: H.264, H.265, MJPEG
<b>Video Content Analysis (VCA)</b>	Tripwire, Intrusion Detection, Region Enter, Region Exit	Tripwire, Intrusion Detection, Region Enter, Region Exit	Tripwire, Intrusion Detection, Region Enter, Region Exit
<b>Image enhancement</b>	-	-	WDR, 3D DNR, EIS Electr. Image Stabilizer
<b>Encryption</b>	HTTPS, TLS 1.2	HTTPS, TLS 1.2	HTTPS
<b>Alarming</b>	E-Mail, NAS, FTP	E-Mail, NAS, FTP	E-Mail, FTP, Relais, App Push, Flash
<b>Audio</b>	Integrated: Microphone; Connectable: Microphone, Loudspeaker	Connectable: Microphone, Loudspeaker	Connectable: Microphone, Loudspeaker; Connectable: Microphone, Loudspeaker
<b>Connections</b>	Audio input / Audio output	1 x DC, 1 x RJ45, 2 x Alarm input, 2 x Alarm output, 1 x Audio input, 1 x Audio output	1 x RJ45, 1 x AC, 1 x audio input, 1 x audio output, 2 x alarm input, 1 x alarm output
<b>Storage medium</b>	microSD card, 256 GB (option)	microSD card, 256 GB (option)	Optional microSD card (max. 256 GB)
<b>DC voltage supply</b>	12 (+/-10 %) V	12 (+/-10 %) V	-
<b>AC voltage supply</b>	-	-	24 (+/-10 %) V
<b>Power consumption</b>	800 mA	1500 mA	1750 mA
<b>PoE standard</b>	IEEE 802.3af	IEEE 802.3at	IEEE 802.3bt
<b>IP protection class</b>	66	66	66
<b>Protection class IK</b>	10	10	10
<b>Min. operating temperature</b>	-20° C	-30° C	-30° C
<b>Max. operating temperature</b>	60° C	60° C	65° C
<b>Other functions</b>	-	-	Smart Tracking, Object classification human/vehicle
<b>Compatible with Secoris</b>	Yes	Yes	No
<b>Compatible with Secvest</b>	Yes	Yes	No
<b>Compatible with wAppLoxx</b>	Yes	Yes	No
<b>Compatible with wAppLoxx Pro</b>	Yes	Yes	No
<b>Compatible with ABUS Link Station</b>	Yes	Yes	Yes
<b>Max. resolution @ frame rate</b>	2560 x 1440 @ 30 fps	2560 x 1440 @ 30 fps	2560 x 1440 @ 25 fps
<b>Dimensions (W x H x D)</b>	131 x 102 x 131 mm	169 x 161 x 169 mm	63 x 185 mm
<b>Scope of delivery</b>	IP Mini PTZ 4 MPx (4x) · Quickstart manual · Safety Information	IP Midi PTZ 4 MPx (25x) · Quickstart manual · Safety Information	IP PTZ 4 MPx (32x) · Quickstart manual · Safety Information


IP CAMERAS SPECIAL

# MOUNTS & BRACKETS

Professional video surveillance: Expert installation, mounting and wiring make all the difference.

In ABUS's extensive range of brackets, you will find the right mounting solution for every application and installation location.

- Flexible bracket for mounting the camera on wall, ceiling, corner, pole, etc.
- Robust, weather-protected installation boxes for optimal cabling
- Ceiling installation frame for suspended ceilings, tinted dome for discreet surveillance and much more.



Installation box: camera sturdily mounted, cables neatly stowed away and well protected from moisture.

## MOUNTS & BRACKETS



Item number	TVAC32300	TVAC32400	TVAC32410
<b>Description</b>	<b>Junction Box Mini Tube</b> <ul style="list-style-type: none"> <li>Compatible with IPCB34511A, IPCB34511B, IPCB38511A, IPCB38511B</li> <li>For a protected and concealed wiring indoors and outdoors</li> <li>Robust aluminum construction</li> <li>Colour: white</li> </ul>	<b>Junction Box Mini Dome</b> <ul style="list-style-type: none"> <li>Compatible with IPCB44511A, IPCB44511B, IPCB44561A</li> <li>For a protected and concealed wiring indoors and outdoors</li> <li>Robust aluminum construction</li> <li>Colour: white</li> </ul>	<b>Junction Box for Wall Mount Mini Dome</b> <ul style="list-style-type: none"> <li>Can only be used in combination with TVAC32420</li> <li>For protecting wiring both indoors and outdoors</li> <li>Sturdy aluminium construction</li> <li>Colour: white</li> </ul>
<b>Dimensions (W × H × D)</b>	100 × 45 × 100 mm	120 × 40 × 120 mm	180 × 120 mm
<b>Scope of delivery</b>	Junction box	Junction box	Junction box



Item number	TVAC32420	TVAC32500	TVAC32520
<b>Description</b>	<b>Wall Mount Mini Dome</b> <ul style="list-style-type: none"> <li>Compatible with IPCB44511A, IPCB44511B, IPCB44561A</li> <li>Internal cabling is possible</li> <li>Sturdy aluminium construction for indoors and outdoors</li> <li>Colour: white</li> </ul>	<b>Junction Box Ball Dome</b> <ul style="list-style-type: none"> <li>Compatible with IPCB54511A, IPCB54511B, IPCB58511A, IPCB58511B</li> <li>For a protected and concealed wiring indoors and outdoors</li> <li>Robust aluminum construction</li> <li>Colour: white</li> </ul>	<b>Wall Mount Ball Dome</b> <ul style="list-style-type: none"> <li>Compatible with IPCB54511A, IPCB54511B, IPCB58511A, IPCB58511B</li> <li>Internal cabling is possible</li> <li>Sturdy aluminium construction for indoors and outdoors</li> <li>Colour: white</li> </ul>
<b>Dimensions (W × H × D)</b>	120 × 120 mm	137 × 42 × 120 mm	184 × 120 mm
<b>Scope of delivery</b>	Wall Mount Bracket	Junction box	520 x Wall Mount Bracket



Item number	TVAC32600	TVAC32700	TVAC32720
<b>Description</b>	<b>Junction Box Tube</b> <ul style="list-style-type: none"> <li>Compatible with IPCB64521, IPCB68521, IPCB34511A/B, IPCB38511A/B, IPCS34511A/B, IPCS64511A/B</li> <li>For a protected and concealed wiring indoors and outdoors</li> <li>Robust aluminum construction</li> <li>Colour: white</li> </ul>	<b>Junction Box Dome</b> <ul style="list-style-type: none"> <li>Compatible with IPCB74521, IPCB78521</li> <li>For a protected and concealed wiring indoors and outdoors</li> <li>Robust aluminum construction</li> <li>Colour: white</li> </ul>	<b>Wall Mount Dome</b> <ul style="list-style-type: none"> <li>Compatible with IPCB74521, IPCB78521</li> <li>Internal cabling is possible</li> <li>Sturdy aluminium construction for indoors and outdoors</li> <li>Colour: white</li> </ul>
<b>Dimensions (W × H × D)</b>	137 × 53 × 120 mm	155 × 40 × 155 mm	184 × 155 mm
<b>Scope of delivery</b>	Junction box	Junction box	Wall Mount Bracket



Item number	TVAC32730	TVAC32000	TVAC32010
<b>Description</b>	<b>Flush Mount Dome</b> <ul style="list-style-type: none"> <li>Compatible with IPCB74521, IPCB78521</li> <li>Ceiling mount frame for use indoors and outdoors</li> <li>Provides cover and protection when mounting on ceilings</li> <li>Cover made of white plastic</li> <li>Installation kit including mounting accessories</li> </ul>	<b>Pole Mount</b> <ul style="list-style-type: none"> <li>Ensures an easy attachment to masts and pipes</li> <li>Ideal for masts with a diameter of 67–127 mm</li> <li>Colour: white</li> </ul>	<b>Corner Mount</b> <ul style="list-style-type: none"> <li>For mounting on outside corners and inaccessible places</li> <li>Color: white</li> </ul>
<b>Dimensions (W × H × D)</b>	245 × 87 × 245 mm	250 × 127 mm	250 × 126 mm
<b>Scope of delivery</b>	Ceiling Mount Frame	Pole mount	Corner mount



<b>Item number</b>	<b>TVAC32020</b>
<b>Description</b>	<b>Junction Box for Wall Mount</b> <ul style="list-style-type: none"> <li>• Can only be used in combination with TVAC32520 or TVAC32720</li> <li>• Compatible with TVAC32000, TVAC32010</li> <li>• For protecting wiring both indoors and outdoors</li> <li>• Sturdy aluminium construction</li> <li>• Internal cable routing possible</li> <li>• Colour: white</li> </ul>
<b>Dimensions (H × Ø)</b>	243 × 123 mm
<b>Scope of delivery</b>	Junction box



<b>Item number</b>	<b>TVAC32400X</b>	<b>TVAC32410X</b>	<b>TVAC32420X</b>
<b>Description</b>	<b>Junction Box for Mini Dome Black</b> <ul style="list-style-type: none"> <li>• Compatible with IPCB44611A, IPCB44611B</li> <li>• For a protected and concealed wiring indoors and outdoors</li> <li>• Robust aluminum construction</li> <li>• Colour: Black</li> </ul>	<b>Junction Box for Wall Mount Mini Dome Black</b> <ul style="list-style-type: none"> <li>• Can only be used in combination with TVAC32420X</li> <li>• For protecting wiring both indoors and outdoors</li> <li>• Sturdy aluminium construction</li> <li>• Colour: Black</li> </ul>	<b>Wall Mount for Mini Dome Black</b> <ul style="list-style-type: none"> <li>• Compatible with IPCB44611A, IPCB44611B</li> <li>• Internal cabling is possible</li> <li>• Sturdy aluminium construction for indoors and outdoors</li> <li>• Colour: Black</li> </ul>
<b>Dimensions (W × H × D)</b>	120 × 40 × 120 mm	180 × 120 mm	120 × 120 mm
<b>Scope of delivery</b>	Junction box	Junction box	Wall Mount Bracket



<b>Item number</b>	<b>TVAC32500X</b>	<b>TVAC32520X</b>	<b>TVAC32600X</b>
<b>Description</b>	<b>Junction Box for Ball Dome Black</b> <ul style="list-style-type: none"> <li>• Compatible with IPCB54611B, IPCB58611A</li> <li>• For a protected and concealed wiring indoors and outdoors</li> <li>• Robust aluminum construction</li> <li>• Colour: Black</li> </ul>	<b>Wall Mount for Ball Dome Black</b> <ul style="list-style-type: none"> <li>• Compatible with IPCB54611B, IPCB58611A</li> <li>• Internal cabling is possible</li> <li>• Sturdy aluminium construction for indoors and outdoors</li> <li>• Colour: Black</li> </ul>	<b>Junction Box for Tube Black</b> <ul style="list-style-type: none"> <li>• Compatible with IPCB64621, IPCB68621</li> <li>• For a protected and concealed wiring indoors and outdoors</li> <li>• Robust aluminum construction</li> <li>• Colour: Black</li> </ul>
<b>Dimensions (W × H × D)</b>	137 × 42 × 120 mm	184 × 120 mm	137 × 53 × 120 mm
<b>Scope of delivery</b>	Junction box	Wall Mount Bracket	Junction box



<b>Item number</b>	<b>TVAC32000X</b>	<b>TVAC32020X</b>
<b>Description</b>	<b>Pole Mount Black</b> <ul style="list-style-type: none"> <li>• Ensures an easy attachment to masts and pipes</li> <li>• Ideal for masts with a diameter of 67–127 mm</li> <li>• Colour: Black</li> </ul>	<b>Junction Box for Wall Mount Black</b> <ul style="list-style-type: none"> <li>• Can only be used in combination with TVAC32520X</li> <li>• Compatible with TVAC32000X</li> <li>• For protecting wiring both indoors and outdoors</li> <li>• Sturdy aluminium construction</li> <li>• Internal cable routing possible</li> <li>• Colour: Black</li> </ul>
<b>Dimensions (H × Ø)</b>	250 × 127 mm	243 × 123 mm
<b>Scope of delivery</b>	Pole mount	Junction box



Item number	TVAC31215	TVAC31285	TVAC31205
<b>Description</b>	Wall Mount for IPCS84510 <ul style="list-style-type: none"> <li>• Compatible with IPCS84510</li> <li>• Internal cabling is possible</li> <li>• Color: white</li> </ul>	Ceiling Mount for IPCS84510 <ul style="list-style-type: none"> <li>• Compatible with IPCS84510, IPCS84511</li> <li>• Internal cabling is possible</li> <li>• Sturdy aluminium construction for indoors and outdoors</li> <li>• Color: white</li> </ul>	Wall Mount for IPCS84530 <ul style="list-style-type: none"> <li>• Compatible with IPCS84530, IPCS84531</li> <li>• Internal cabling is possible</li> <li>• Sturdy aluminium construction for indoors and outdoors</li> <li>• Color: white</li> </ul>
<b>Dimensions (W × H × D)</b>	126 × 80 × 224 mm	120 × 650 × 120 mm	86 × 158 × 315 mm
<b>Scope of delivery</b>	Wall mount	Ceiling Mount	Wall Mount



Item number	TVAC31201	TVAC31221
<b>Description</b>	Long Wall Mount for PTZ Dome Cameras <ul style="list-style-type: none"> <li>• Compatible with IPCS84550, IPCS84551, HDCC82501</li> <li>• Simple installation of ABUS PTZ dome cameras</li> <li>• Length of mount (projection): 310 mm</li> <li>• For wall mounting</li> </ul>	Pole Mount incl. Long Wall Mount for PTZ Dome Cameras <ul style="list-style-type: none"> <li>• Compatible with IPCS84550, IPCS84551, HDCC82501</li> <li>• Simple installation of ABUS PTZ dome cameras</li> <li>• For mounting on poles and pipes</li> <li>• For poles with a diameter of 67 – 127 mm</li> <li>• Long wall mount (310 mm) included with delivery</li> </ul>
<b>Dimensions (W × H × D)</b>	97 × 182 × 310 mm	117 × 194 × 46 mm
<b>Scope of delivery</b>	Long Wall Mount for Speed Dome • Installation material	Pole Mount incl. Long Wall Mount for Speed Dome • Wall mount • Installation material



Item number	TVAC31245	TVAC31235	TVAC31275
<b>Description</b>	Installation box for IPCS84530 <ul style="list-style-type: none"> <li>• Internal cabling is possible</li> <li>• Sturdy aluminium construction for indoors and outdoors</li> <li>• Color: white</li> </ul>	Corner Mount <ul style="list-style-type: none"> <li>• Can only be used in combination with TVAC31205</li> <li>• Compatible with TVAC31245</li> <li>• Color: white</li> </ul>	Ceiling Mount frame for IPCS84530 <ul style="list-style-type: none"> <li>• Compatible with IPCS84530, IPCS84531</li> <li>• Provides cover and protection when mounting on ceilings</li> <li>• Color: white</li> </ul>
<b>Dimensions (H × Ø)</b>	40 × 158 mm	126 × 105 × 250 mm	85 × 233 mm
<b>Scope of delivery</b>	Junction box	Corner mount	Ceiling mount frame



Item number	TVAC31231	TVAC31241
<b>Description</b>	Corner Mount incl. Long Wall Mount for PTZ Dome Cameras <ul style="list-style-type: none"> <li>• Compatible with IPCS84550, IPCS84551, HDCC82501</li> <li>• Simple installation of ABUS PTZ dome cameras</li> <li>• For mounting in corners and inaccessible places</li> <li>• Size: 179 × 194 mm, opening angle: 90°</li> <li>• Wall mount (310 mm) included with delivery</li> </ul>	Junction Box incl. Long Wall Mount for PTZ Dome Cameras <ul style="list-style-type: none"> <li>• Compatible with IPCS84550, IPCS84551, HDCC82501</li> <li>• Simple installation of ABUS PTZ dome cameras</li> <li>• Camera power supply can be installed on the mount for protection from weather</li> <li>• Length of mount (projection): 310 mm</li> <li>• For wall mounting</li> </ul>
<b>Dimensions (W × H × D)</b>	119 × 106 × 194 mm	210 × 310 × 400 mm
<b>Scope of delivery</b>	Corner Mount incl. Long Wall Mount for Speed Dome • Wall mount • Installation material	Junction box • Wall mount • Installation material



Item number	TVAC31250	TVAC31260	TVAC31270
<b>Description</b>	5.7 cm Ceiling Mount for PTZ Dome Cameras	20 cm Ceiling Mount for PTZ Dome Cameras	50 cm Ceiling Mount for PTZ Dome Cameras
	<ul style="list-style-type: none"> <li>• Ceiling bracket for IPCS84550, IPCS84551, HDCC82501</li> <li>• Internal cable routing possible</li> <li>• Sturdy aluminium construction for indoors and outdoors</li> <li>• Load-bearing capacity: 10 kg</li> <li>• Colour: white</li> </ul>		
<b>Dimensions (W × H × D)</b>	116.5 × 57 × 116.5 mm	200 × 116.5 mm	500 × 116.5 mm
<b>Scope of delivery</b>	5.7 cm Ceiling Mount for PTZ Dome Cameras	20 cm Ceiling Mount for PTZ Dome Cameras	50 cm Ceiling Mount for PTZ Dome Cameras



Item number	TVAC32780	TVAC32785
<b>Description</b>	Tinted bubble for IPCB74521, IPCB78521	Transparent bubble for IPCB74521, IPCB78521
	<ul style="list-style-type: none"> <li>• Polycarbonate dome</li> <li>• Compatible with IPCB74521, IPCB78521</li> <li>• The camera's angle of view remains hidden</li> </ul>	
<b>Dimensions (W × H × D)</b>	110 × 64 × 110 mm	110 × 64 × 110 mm
<b>Scope of delivery</b>	Domebubble	Domebubble



Item number	TVAC31280	TVAC31290
<b>Description</b>	Installation Box for Hemispheric Camera	Installation Box with 23/46 cm Ceiling Bracket for Hemispheric Camera
	<ul style="list-style-type: none"> <li>• Compatible with IPCS24510, IPCS29511</li> <li>• For protecting wiring both indoors and outdoors</li> <li>• Sturdy aluminium construction</li> <li>• Load-bearing capacity: 4.5 kg</li> <li>• Colour: white</li> <li>• 1 opening with 2.5 cm diameter for cabling</li> </ul>	<ul style="list-style-type: none"> <li>• Compatible with IPCS24510</li> <li>• For protecting wiring both indoors and outdoors</li> <li>• Sturdy aluminium construction</li> <li>• Internal cable routing possible</li> <li>• Load-bearing capacity: 4.5 kg</li> <li>• Colour: white</li> <li>• 1 opening with 2.5 cm diameter for cabling</li> </ul>
<b>Dimensions (H × Ø)</b>	45 × 165 mm	460 × 165 mm
<b>Scope of delivery</b>	Installation Box for Hemispheric Camera	Installation Box With 23/46 cm Ceiling Bracket for Hemispheric Camera



Item number	TVAC32120	TVAC32130
<b>Description</b>	Camera Mount 160 mm	Camera Mount 300 mm
	<ul style="list-style-type: none"> <li>• Elegant aluminium holder, universally usable for mounting technical devices</li> <li>• 360° ball head with quick-release fastener for easy attachment and optimal alignment of devices</li> <li>• 1/4" stand screw (male) for units with 1/4" screw base (female)</li> <li>• Versatile use, e.g. as a table stand, ceiling mount, etc.</li> <li>• Suitable mount e.g. for security cameras (Boxtype), IR illuminators, photo cameras, laboratory and measuring equipment as well as other equipment in trade and industry</li> <li>• Internal cable routing possible (weather protection)</li> <li>• Length of stand tube: 160/300 mm (for ceiling mounting: distance from the ceiling)</li> <li>• Load-bearing capacity: 3 kg</li> </ul>	
<b>Dimensions (W × H × D)</b>	110 × 125 × 110 mm	110 × 300 × 110 mm
<b>Scope of delivery</b>	Camera Mount 160 mm	Camera Mount 300 mm

# RECORDERS

The monitoring centre: Live viewing, recording and playback of up to 64 IP cameras.

An ABUS network video recorder (NVR) records the high-resolution video streams of the cameras steadily and reliably. In addition to its performance in data throughput and the large storage volume (hard disk not included in the scope of delivery), the ABUS NVR is a winning choice thanks to its simple and flexible operation, among other things. It comes in different versions (number of channels, PoE), so that a scalable recording solution is available for each specific project.

Cameras can be set up in the recorder in no time thanks to the intuitive installation assistant. The clear menu allows for easy and quick programming. All ABUS cameras are depth-integrated per protocol and thus offer maximum compatibility with full functionality.

- Best images: for recording video streams in 4K resolution on all channels
- Perfect connection: available with or without PoE interface
- Efficient storage: no compromise on storage time for multiple cameras - thanks to strong compression of the video data
- Perfect connection: mobile remote access via ABUS Link Station app
- Extensive monitoring: display and operate several NVRs combined on one control centre PC (with ABUS CMS software)

ABUS NVR: all cameras in live view. Incl. VCA alarm functions and local recording on hard disk.

## RECORDERS



Item number **NVR10010**

Description	5-Channel Network Video Recorder (NVR)
	<ul style="list-style-type: none"> <li>• Live view and recording of up to 5 IP cameras @ 8 MPx (4K)</li> <li>• High-performance network data throughput with up to 316 MBit/s (60 MBit/s in / 256 MBit/s out)</li> <li>• Easy operation locally on the device, via web browser, ABUS CMS software or app</li> <li>• Local monitor output supports up to 8 MPx (4K) resolution</li> <li>• Manual or controlled recording according to time plan, motion detection, alarm input or VCA</li> <li>• Supports H.264 and H.265 (incl. dynamic GOP)</li> <li>• Recording on up to 2 SATA hard drives</li> </ul>
<b>Total network throughput (input/output)</b>	316MBit/s (60 Mbits/256 Mbits)
<b>Total frame rate (PAL)</b>	125 fps
<b>Storage medium</b>	2 x S-ATA HDD (up to 16 TB per HDD)
<b>Recording modes</b>	Manual, time schedule, motion detection, alarm input, VCA
<b>Storage</b>	1 x USB 2.0, 1 x USB 3.0
<b>Search modes</b>	Event, date and time, Smart Search, VCA
<b>Alarming</b>	Acoustic warning signal, on screen display signal, email, CMS, Alarm output
<b>Monitor outputs</b>	1 x VGA, 1 x HDMI
<b>Resolution HDMI output</b>	4K(3840x2160)/60Hz, 4K(3840x2160)/30Hz, 1920x1080/60Hz, 1600x1200/60Hz, 1280x1024/60 Hz, 1024x768/60 Hz
<b>Resolution VGA output</b>	1920x1080p/60Hz, 1280x1024/60Hz, 1280x720/60Hz, 1024x768/60Hz
<b>Views</b>	1 / 4 / 6 / 8 / 9
<b>Control</b>	USB mouse
<b>Network access</b>	1 x RJ45 10/100 /1000 Mbps
<b>Network functions</b>	Live view, playback, data export, settings
<b>Simultaneous network access</b>	128 camera connections
<b>PoE Standard</b>	-
<b>Software</b>	ABUS CMS software, integrated web server
<b>Mobile access</b>	ABUS Link Station Lite / Pro (Apple iOS & Android)
<b>Audio</b>	Line in: 1 x cinch (2.0 V s-s, 1000 Ω) – only for network transmission, Audio Out: 1 x cinch (600 Ω)
<b>Relay output</b>	1 (max. load: 12 V DC/1 A)
<b>Alarm inputs (NO/NC)</b>	4
<b>DC voltage supply</b>	12 V
<b>AC voltage supply</b>	-
<b>Compatible with ABUS Link Station</b>	Yes
<b>Recording resolution @ frame rate per camera</b>	12 MPx, 8 MPx, 6 MPx, 5 MPx, 4 MPx, 3 MPx, 2 MPx, 1080p, 720p, VGA @ 25 fps
<b>Recording duration at 6MPx @ 8Mbit/s</b>	60 hours/TB
<b>Recording duration at 1080p @ 2Mbit/s</b>	238 hours/TB
<b>Certifications</b>	-
<b>Dimensions (W × H × D)</b>	380 × 50 × 315 mm
<b>Scope of delivery</b>	Embedded NVR · USB wireless mouse · 2 x S-ATA cable · Power supply · Quickstart manual · Installation materials



Item number **NVR10020**

Description	8-Channel Network Video Recorder (NVR)	8-Channel PoE Network Video Recorder (NVR)
	<ul style="list-style-type: none"> <li>• Live view and recording of up to 8 IP cameras @ 8 MPx (4K)</li> <li>• High-performance network data throughput with up to 336 MBit/s (80 MBit/s in / 256 MBit/s out)</li> <li>• Easy operation locally on the device, via web browser, ABUS CMS software or app</li> <li>• Local monitor output supports up to 8 MPx (4K) resolution</li> <li>• Manual or controlled recording according to time plan, motion detection, alarm input or VCA</li> <li>• Supports H.264 and H.265 (incl. dynamic GOP)</li> <li>• Recording on up to 2 SATA hard drives</li> </ul>	<ul style="list-style-type: none"> <li>• Live view and recording of up to 8 IP cameras @ 8 MPx (4K)</li> <li>• High-performance network data throughput with up to 336 MBit/s (80 MBit/s in / 256 MBit/s out)</li> <li>• Integrated PoE switch (max. 120 W) for power supply and fast operation of IP cameras</li> <li>• Easy operation locally on the device, via web browser, ABUS CMS software or app</li> <li>• Local monitor output supports up to 8 MPx (4K) resolution</li> <li>• Manual or controlled recording according to time plan, motion detection, alarm input or VCA</li> <li>• Supports H.264 and H.265 (incl. dynamic GOP)</li> <li>• Recording on up to 2 SATA hard drives</li> </ul>
<b>Total network throughput (input/output)</b>	336 MBit/s (80 Mbits/256 Mbits)	336 MBit/s (80 Mbits/256 Mbits)
<b>Total frame rate (PAL)</b>	200 fps	200 fps
<b>Storage medium</b>	2 x S-ATA HDD (up to 16 TB per HDD)	2 x S-ATA HDD (up to 16 TB per HDD)
<b>Recording modes</b>	Manual, time schedule, motion detection, alarm input, VCA	Manual, time schedule, motion detection, alarm input, VCA
<b>Storage</b>	1 x USB 2.0, 1 x USB 3.0	1 x USB 2.0, 1 x USB 3.0
<b>Search modes</b>	Event, date and time, Smart Search, VCA	Event, date and time, Smart Search, VCA
<b>Alarming</b>	Acoustic warning signal, on screen display signal, email, CMS, Alarm output	Acoustic warning signal, on screen display signal, email, CMS, Alarm output
<b>Monitor outputs</b>	1 x VGA, 1 x HDMI	1 x VGA, 1 x HDMI
<b>Resolution HDMI output</b>	4K(3840x2160)/60Hz, 4K(3840x2160)/30Hz, 1920x1080/60Hz, 1600x1200/60Hz, 1280x1024/60 Hz, 1024x768/60 Hz	4K(3840x2160)/60Hz, 4K(3840x2160)/30Hz, 1920x1080/60Hz, 1600x1200/60Hz, 1280x1024/60 Hz, 1024x768/60 Hz
<b>Resolution VGA output</b>	1920x1080p/60Hz, 1280x1024/60Hz, 1280x720/60Hz, 1024x768/60Hz	1920x1080p/60Hz, 1280x1024/60Hz, 1280x720/60Hz, 1024x768/60Hz
<b>Views</b>	1 / 4 / 6 / 8 / 9	1 / 4 / 6 / 8 / 9
<b>Control</b>	USB mouse	USB mouse
<b>Network access</b>	1 x RJ45 10/100 /1000 Mbps	8 x RJ45 PoE (IEEE 802.3 af/at, max. 120 W) + 1 x RJ45 10/100/1000 Mbps
<b>Network functions</b>	Live view, playback, data export, settings	Live view, playback, data export, settings
<b>Simultaneous network access</b>	128 camera connections	128 camera connections
<b>PoE Standard</b>	-	IEEE 802.3 af/at (max. 120 W)
<b>Software</b>	ABUS CMS software, integrated web server	ABUS CMS software, integrated web server
<b>Mobile access</b>	ABUS Link Station Lite / Pro (Apple iOS & Android)	iDVR Plus / iDVR Plus HD (Apple iOS & Android)
<b>Audio</b>	Line in: 1 x cinch (2.0 V s-s, 1000 Ω) – only for network transmission, Audio Out: 1 x cinch (600 Ω)	Line in: 1 x cinch (2.0 V s-s, 1000 Ω) – only for network transmission, Audio Out: 1 x cinch (600 Ω)
<b>Relay output</b>	1 (max. load: 12 V DC/1 A)	1 (max. load: 12 V DC/1 A)
<b>Alarm inputs (NO/NC)</b>	4	4
<b>DC voltage supply</b>	12 V	12 V
<b>AC voltage supply</b>	-	-
<b>Compatible with ABUS Link Station</b>	Yes	Yes
<b>Recording duration at 6MPx @ 8Mbit/s</b>	37 hours/TB	37 hours/TB
<b>Recording duration at 1080p @ 2Mbit/s</b>	149 hours/TB	149 hours/TB
<b>Recording resolution @ frame rate per camera</b>	12 MPx, 8 MPx, 6 MPx, 5 MPx, 4 MPx, 3 MPx, 2 MPx, 1080p, 720p, VGA @ 25 fps	12 MPx, 8 MPx, 6 MPx, 5 MPx, 4 MPx, 3 MPx, 2 MPx, 1080p, 720p, VGA @ 25 fps
<b>Certifications</b>	-	-
<b>Dimensions (W × H × D)</b>	380 × 50 × 315 mm	380 × 50 × 315 mm
<b>Scope of delivery</b>	Embedded NVR · USB wireless mouse · 2 x S-ATA cable · Power supply · Quickstart manual · Installation materials	Embedded NVR · USB wireless mouse · 2 x S-ATA cable · Power supply · Quickstart manual · Installation materials





Item number	NVR10030	NVR10030P
<b>Description</b>	<b>16-Channel Network Video Recorder (NVR)</b>	<b>16-Channel PoE Network Video Recorder (NVR)</b>
	<ul style="list-style-type: none"> <li>• Live view and recording of up to 16 IP cameras @ 8 MPx (4K)</li> <li>• High-performance network data throughput with up to 416 MBit/s (160 MBit/s in / 256 MBit/s out)</li> <li>• Easy operation locally on the device, via web browser, ABUS CMS software or app</li> <li>• Local monitor output supports up to 8 MPx (4K) resolution</li> <li>• Manual or controlled recording according to time plan, motion detection, alarm input or VCA</li> <li>• Supports H.264 and H.265 (incl. dynamic GOP)</li> <li>• Recording on up to 4 SATA hard drives</li> </ul>	<ul style="list-style-type: none"> <li>• Live view and recording of up to 16 IP cameras @ 8 MPx (4K)</li> <li>• High-performance network data throughput with up to 416 MBit/s (160 MBit/s in / 256 MBit/s out)</li> <li>• Integrated PoE switch (max. 200 W) for power supply and fast operation of IP cameras</li> <li>• Easy operation locally on the device, via web browser, ABUS CMS software or app</li> <li>• Local monitor output supports up to 8 MPx (4K) resolution</li> <li>• Manual or controlled recording according to time plan, motion detection, alarm input or VCA</li> <li>• Supports H.264 and H.265 (incl. dynamic GOP)</li> <li>• Recording on up to 4 SATA hard drives</li> </ul>
<b>Total network throughput (input/output)</b>	416 MBit/s (160 MBit/s/256 MBit/s)	416 MBit/s (160 MBit/s/256 MBit/s)
<b>Total frame rate (PAL)</b>	400 fps	400 fps
<b>Storage medium</b>	4 x S-ATA HDD (up to 16 TB per HDD)	4 x S-ATA HDD (up to 16 TB per HDD)
<b>Recording modes</b>	Manual, time schedule, motion detection, alarm input, VCA	Manual, time schedule, motion detection, alarm input, VCA
<b>Storage</b>	2 x USB 2.0, 1 x USB 3.0	2 x USB 2.0, 1 x USB 3.0
<b>Search modes</b>	Event, date and time, Smart Search, VCA	Event, date and time, Smart Search, VCA
<b>Alarming</b>	Acoustic warning signal, on screen display signal, email, CMS, Alarm output	Acoustic warning signal, on screen display signal, email, CMS, Alarm output
<b>Monitor outputs</b>	1 x VGA, 1 x HDMI	1 x VGA, 1 x HDMI
<b>Resolution HDMI output</b>	4K(3840x2160)/60Hz, 4K(3840x2160)/30Hz, 1920x1080/60Hz, 1600x1200/60Hz, 1280x1024/60 Hz, 1024x768/60 Hz	4K(3840x2160)/60Hz, 4K(3840x2160)/30Hz, 1920x1080/60Hz, 1600x1200/60Hz, 1280x1024/60 Hz, 1024x768/60 Hz
<b>Resolution VGA output</b>	1920x1080p/60Hz, 1280x1024/60Hz, 1280x720/60Hz, 1024x768/60Hz	1920x1080p/60Hz, 1280x1024/60Hz, 1280x720/60Hz, 1024x768/60Hz
<b>Views</b>	1 / 4 / 6 / 8 / 9 / 16	1 / 4 / 6 / 8 / 9 / 16
<b>Control</b>	USB mouse	USB mouse
<b>Network access</b>	2 x RJ45 10/100 /1000 Mbps	16 x RJ45 PoE (IEEE 802.3 af/at, max. 200 W) + 2 x RJ45 10/100/1000 Mbps
<b>Network functions</b>	Live view, playback, data export, settings	Live view, playback, data export, settings
<b>Simultaneous network access</b>	128 camera connections	128 camera connections
<b>PoE Standard</b>	-	IEEE 802.3 af/at (max. 200 W)
<b>Software</b>	ABUS CMS software, integrated web server	ABUS CMS software, integrated web server
<b>Mobile access</b>	ABUS Link Station Lite / Pro (Apple iOS & Android)	ABUS Link Station Lite / Pro (Apple iOS & Android)
<b>Audio</b>	Line in: 1 x cinch (2.0 V s-s, 1000 Ω) – only for network transmission, Audio Out: 2 x cinch (600 Ω)	Line in: 1 x cinch (2.0 V s-s, 1000 Ω) – only for network transmission, Audio Out: 2 x cinch (600 Ω)
<b>Relay output</b>	4 (Max. load: 12 V DC/1 A)	4 (Max. load: 12 V DC/1 A)
<b>Alarm inputs (NO/NC)</b>	16	16
<b>DC voltage supply</b>	-	-
<b>AC voltage supply</b>	100 – 240 V	100 – 240 V
<b>Compatible with ABUS Link Station</b>	Yes	Yes
<b>Certifications</b>	-	-
<b>Recording resolution @ frame rate per camera</b>	12 MPx, 8 MPx, 6 MPx, 5 MPx, 4 MPx, 3 MPx, 2 MPx, 1080p, 720p, VGA @ 25 fps	12 MPx, 8 MPx, 6 MPx, 5 MPx, 4 MPx, 3 MPx, 2 MPx, 1080p, 720p, VGA @ 25 fps
<b>Recording duration at 1080p @ 2Mbit/s</b>	74 hours/TB	74 hours/TB
<b>Recording duration at 6MPx @ 8Mbit/s</b>	18 hours/TB	18 hours/TB
<b>Dimensions (W x H x D)</b>	450 x 95 x 440 mm	450 x 95 x 440 mm
<b>Scope of delivery</b>	Embedded NVR • USB wireless mouse • 4 x S-ATA cable • Quickstart manual	Embedded NVR • USB wireless mouse • 4 x S-ATA cable • Quickstart manual



Item number	NVR10040	NVR10050
<b>Description</b>	<b>32-Channel Network Video Recorder (NVR)</b>	<b>64-Channel Network Video Recorder (NVR)</b>
	<ul style="list-style-type: none"> <li>• Live view and recording of up to 32 IP cameras @ 8 MPx (4K)</li> <li>• High-performance network data throughput with up to 576 MBit/s (320 MBit/s in / 256 MBit/s out)</li> <li>• Easy operation locally on the device, via web browser, ABUS CMS software or app</li> <li>• Local monitor output supports up to 8 MPx (4K) resolution</li> <li>• Manual or controlled recording according to time plan, motion detection, alarm input or VCA</li> <li>• Supports H.264 and H.265 (incl. dynamic GOP)</li> <li>• Recording on up to 8 SATA hard drives</li> <li>• Redundant data recording via RAID (Level: 0, 1, 5, 10)</li> </ul>	<ul style="list-style-type: none"> <li>• Live view and recording of up to 64 IP cameras @ 8 MPx (4K)</li> <li>• High-performance network data throughput with up to 576 MBit/s (320 MBit/s in / 256 MBit/s out)</li> <li>• Easy operation locally on the device, via web browser, ABUS CMS software or app</li> <li>• Local monitor output supports up to 8 MPx (4K) resolution</li> <li>• Manual or controlled recording according to time plan, motion detection, alarm input or VCA</li> <li>• Supports H.264 and H.265 (incl. dynamic GOP)</li> <li>• Recording on up to 8 SATA hard drives</li> <li>• Redundant data recording via RAID (Level: 0, 1, 5, 10)</li> </ul>
<b>Total network throughput (input/output)</b>	576 MBit/s (320 MBit/s/256 MBit/s) / (Raid: 200 MBit/s/130 MBit/s)	576 MBit/s (320 MBit/s/256 MBit/s) / (Raid: 200 MBit/s/130 MBit/s)
<b>Total frame rate (PAL)</b>	800 fps	1600 fps
<b>Storage medium</b>	8 x S-ATA HDD (up to 16 TB per HDD)	8 x S-ATA HDD (up to 16 TB per HDD)
<b>Recording modes</b>	Manual, time schedule, motion detection, alarm input, VCA	Manual, time schedule, motion detection, alarm input, VCA
<b>Storage</b>	2 x USB 2.0, 1 x USB 3.0	2 x USB 2.0, 1 x USB 3.0
<b>Search modes</b>	Event, date and time, Smart Search, VCA	Event, date and time, Smart Search, VCA
<b>Alarming</b>	Acoustic warning signal, on screen display signal, email, CMS, Alarm output	Acoustic warning signal, on screen display signal, email, CMS, Alarm output
<b>Monitor outputs</b>	2 x VGA, 2 x HDMI	2 x VGA, 2 x HDMI
<b>Resolution HDMI output</b>	HDMI1: 4K(3840x2160)/60Hz, 4K(3840x2160)/30Hz, 1920x1080/60Hz, 1600x1200/60Hz, 1280x1024/60 Hz, 1024x768/60 Hz; HDMI2: 1920x1080/60Hz, 1600x1200/60Hz, 1280x1024/60 Hz, 1024x768/60 Hz	HDMI1: 4K(3840x2160)/60Hz, 4K(3840x2160)/30Hz, 1920x1080/60Hz, 1600x1200/60Hz, 1280x1024/60 Hz, 1024x768/60 Hz; HDMI2: 1920x1080/60Hz, 1600x1200/60Hz, 1280x1024/60 Hz, 1024x768/60 Hz
<b>Resolution VGA output</b>	VGA1: 1920x1080p/60Hz, 1280x1024/60Hz, 1280x720/60Hz, 1024x768/60Hz; VGA2: 2K(2560x1440)/60Hz, 1920x1080p/60Hz, 1280x1024/60Hz, 1280x720/60Hz, 1024x768/60Hz	VGA1: 1920x1080p/60Hz, 1280x1024/60Hz, 1280x720/60Hz, 1024x768/60Hz; VGA2: 2K(2560x1440)/60Hz, 1920x1080p/60Hz, 1280x1024/60Hz, 1280x720/60Hz, 1024x768/60Hz
<b>Views</b>	1 / 4 / 6 / 8 / 9 / 16 / 25 / 36	1 / 4 / 6 / 8 / 9 / 16 / 25 / 36
<b>Control</b>	USB mouse	USB mouse
<b>Network access</b>	2 x RJ45 10/100 /1000 Mbps	2 x RJ45 10/100/1000 Mbps
<b>Network functions</b>	Live view, playback, data export, settings	Live view, playback, data export, settings
<b>Simultaneous network access</b>	128 camera connections	128 camera connections
<b>PoE Standard</b>	-	-
<b>Software</b>	ABUS CMS software, integrated web server	ABUS CMS software, integrated web server
<b>Mobile access</b>	ABUS Link Station Lite / Pro (Apple iOS & Android)	ABUS Link Station Lite / Pro (Apple iOS & Android)
<b>Audio</b>	Line In: 1 x Cinch (2,0 V s-s, 1000 Ω) – nur für Netzwerkübertragung, Audio Out: 2 x Cinch (600 Ω)	Line In: 1 x Cinch (2,0 V s-s, 1000 Ω) – nur für Netzwerkübertragung, Audio Out: 2 x Cinch (600 Ω)
<b>Relay output</b>	4 (Max. load: 12 V DC/1 A)	4 (Max. load: 12 V DC/1 A)
<b>Alarm inputs (NO/NC)</b>	16	16
<b>DC voltage supply</b>	-	-
<b>AC voltage supply</b>	100 – 240 V	100 – 240 V
<b>Compatible with ABUS Link Station</b>	Yes	Yes
<b>Certifications</b>	-	-
<b>Recording duration at 1080p @ 2Mbit/s</b>	37 hours/TB	37 hours/TB
<b>Recording duration at 6MPx @ 8Mbit/s</b>	9 hours/TB	9 hours/TB
<b>Recording resolution @ frame rate per camera</b>	12 MPx, 8 MPx, 6 MPx, 5 MPx, 4 MPx, 3 MPx, 2 MPx, 1080p, 720p, VGA @ 25 fps	12 MPx, 8 MPx, 6 MPx, 5 MPx, 4 MPx, 3 MPx, 2 MPx, 1080p, 720p, VGA @ 25 fps
<b>Dimensions (W x H x D)</b>	450 x 95 x 440 mm	450 x 95 x 440 mm
<b>Scope of delivery</b>	Embedded NVR • USB wireless mouse • 8 x S-ATA cable • Quickstart manual	Embedded NVR • USB wireless mouse • 8 x S-ATA cable • Quickstart manual



New in the ABUS range: FaceXess for easy access via facial recognition

# DOOR INTERCOM SYSTEMS

## SECURITY & CONVENIENCE AT THE DOOR

Thanks to flexible installation and wiring, video door intercoms from ABUS offer a wide range of possible use cases and cut a fine figure in almost any installation location.

## THE RIGHT SOLUTION FOR EVERY BUILDING

Whether new or old building, new installation or replacement of an existing door intercom system. From single-family homes to apartment buildings and commercial properties. Here you will find the right intercom for every area.

## NOW NEW: THE INNOVATIVE ABUS FACEXESS® DOOR STATION

Whether ModuVis or FaceXess – up to 16 ABUS IP cameras can be integrated into both door intercom systems. In this way, the intercoms can be easily expanded or become part of a larger video system.

## ABUS MODUVIS: PROVEN & FLEXIBLE

As a classic door intercom with camera, ModuVis offers optimum security and solid intercom convenience. Thanks to the modular design principle, it can be configured for almost any intercom station and wiring (IP, 2-wire).

## INDOOR STATION & MOBILE APP

Indoor monitors are available for both systems as stationary intercom terminals. In addition, they can also be operated with a smartphone via the ABUS Link Station app.



# FACEXESS®

## A NEW LEVEL OF DOOR ACCESS

Opening the door with facial recognition: secure and convenient with FaceXess, the innovative door station from ABUS. FaceXess uses two integrated cameras to immediately detect whether the person in front of the door is authorised to enter. The door is opened without a key – with absolute reliability even in the dark. Is increased security required, for example, in a commercial building? Then several features/technologies can be combined: facial recognition, PIN code and access card. Doorbell and video door intercom functions are on board, as well as operation via app. New users can be easily and quickly taught how to use the system at the unit.



Terminal recognises persons and automatically unlocks the door



Always see who is at the door



Familiar doorbell operation for unknown persons



Never forget or lose a key



Just leave the door key at home



Intercom and door opening functions via the indoor monitor or app



High protection against tampering through anti-spoofing technology



Multiple authentication possible



## FACEXESS



Item number **TVHS30000**

Description **FaceXess Terminal**

- IP video door intercom with face recognition, unlocks the front door fully automatically, in a fraction of a second, for persons who have been authorised to enter. Optional: Access via PIN code or chip key/key card on the integrated NFC card reader.
- Access for authorised users on the 7" touch screen via face scan or PIN code entry. Unknown persons use the virtual ring button on the display.
- See who is at the door: Live image, intercom and door opening via the interior monitor or Link Station app - even while out. Top image quality and contrast thanks to 2 MPx dual camera.
- Good voice quality thanks to high-quality microphone and loudspeaker with noise cancellation (noise cancellation suppresses background noise, prevents echoes).
- Secure access, high protection against manipulation: terminal cannot be tricked with photo/video (anti-spoofing technology). Optional: 2-factor authentication combines facial recognition with PIN code/key card.
- For up to 3 residential units: up to 6 monitors can be integrated per bell unit via LAN/PoE or Wi-Fi
- Fast and secure installation: The door station requires an external power supply. The data connection is made via LAN/Wi-Fi and a data line (2 wires) to the remote switching module that controls the door actuator.
- Weatherproof terminal for outdoor use (protection class IP65)
- No keys: never again stand in front of a locked front door because you forgot your keys

<b>IR LEDs</b>	Yes
<b>Image sensor</b>	Progressive Scan CMOS
<b>Resolution live view</b>	1080p (Display), 720p (Network Stream) TVL
<b>Monitor type</b>	LCD
<b>Screen diagonal</b>	7 in
<b>Number of users</b>	>100
<b>Horizontal viewing angle</b>	75,5°
<b>Vertical angle of view</b>	41,5°
<b>Backlight compensation</b>	WDR
<b>Sabotage monitoring</b>	Yes
<b>Alarm output</b>	-
<b>Alarming</b>	App Push, ABUS CMS, Touch Monitor
<b>Audio</b>	2-Way-Audio
<b>Connections</b>	Power supply 12V DC, RS485, RJ45 Ethernet, 1 x relay, Wiegand, USB-C
<b>Relay output</b>	1, Max. 30 VDC @ 2 A / 125 VAC @ 0,5 A
<b>DC voltage supply - 24</b>	12 V
<b>Compatible with ABUS Link Station</b>	Yes
<b>Max. humidity</b>	90 %
<b>Min. operating temperature</b>	-30° C
<b>Video compression</b>	H.264
<b>Max. operating temperature</b>	60° C
<b>IP protection class</b>	65
<b>Power consumption</b>	2000 mA
<b>Dimensions (H x Ø)</b>	209 x 111 mm
<b>Scope of delivery</b>	FaceXess device • quick start Guide • safety instructions • wall mount • connection cable • 2 pin / DC jack adapter • fixing screw

# MODUVIS

From a private single-family home with one bell and monitor to a multi-family building with up to 49 bells and several monitors - ModuVis always offers the right solution.

In addition to the camera in the video module, ABUS outdoor cameras can also be displayed on the indoor monitor and the app. This makes it easy to adapt the system to new customer wishes and requirements.

In addition, all data and recordings can be stored locally in the monitor (SD card).



TVHS20000

## VIDEO MODULE

### Heart of the door intercom system

- 2 MPx Full HD camera (viewing angle horizontal: 145°, vertical: 96°)
  - Very good voice quality with noise cancellation (noise cancelling and anti-echo function)
- With 2-wire connection or optional RJ45 connection for network cable with PoE supply.



TVHS20040

## INFO MODULE

- Customisable display of street, house number or name (transparent paper enclosed, print template for download)
- Backlighting for good visibility in the dark (brightness sensor)



TVHS20020

## BELL EXTENSION

- Lighting for good visibility in the dark (brightness sensor)
- Up to 6 parties per extension, up to 8 extensions per system (max. 49 bells per system)
- Incl. PDF print template and material for name badges



TVHS20030

## CODE BUTTON MODULE

- For controlling door buzzer or motorised lock by means of 6-digit user code
- In addition to an individual code for each apartment, up to 3 additional central codes can be assigned, e.g. for the property management.



TVHS20050

## EMPTY MODULE

- Cover as placeholder for later system extensions
  - Additional module (e.g. more bells)
- Simply insert without changing the frame

# MODUVIS



Item number	TVHS20001S	TVHS20010S
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Description	IP video module for door intercom (stainless steel)	2-wire video module for door intercom (stainless steel)
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- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li>• IP video module for ModuVis door intercom system as a basic configuration of an intercom station (1 bell), expandable with additional modules to up to 49 bells</li> <li>• Central control unit of the door intercom system (mandatory for every PoE installation)</li> <li>• 2 MPx day/night camera with IR LEDs and 145° viewing angle for optimal overview in case of a ringing event; provides a brilliant, clear image quality without distortion</li> <li>• Push alerting to mobile device in case of ringing event via ABUS Link Station app</li> <li>• High-quality microphone and loudspeaker for clear sound of voices, filtering out of background noise (noise cancelling)</li> <li>• Ring button with adjustable backlight (permanent, schedule, brightness sensor) and nameplate with silicone seal</li> <li>• 2 relay outputs for up to 2 doors, for control of electric door opener or motor lock (e.g. front door + garage/gate), incl. power supply from the video module (simple wiring)</li> <li>• 4 switch inputs, e.g. for connection of up to 4 external bell buttons</li> <li>• Weatherproof with IP65, flexible mountable via mounting frame (surface-mounted / flush-mounted)</li> <li>• PoE network connection, power supply: 12 V DC &amp; PoE (802.3af)</li> </ul> | <ul style="list-style-type: none"> <li>• 2-wire video module for ModuVis door intercom system as basic configuration of an intercom station (1 bell), can be extended with further modules to up to 49 bells</li> <li>• Central control unit of the door intercom system (mandatory for every 2-wire installation)</li> <li>• 2 MPx day/night camera with IR-LEDs and 180° viewing angle for optimal overview during ringing events</li> <li>• Push alarm on mobile device via ABUS Link Station App</li> <li>• High-quality microphone and loudspeaker Very high speech quality (clear sound of voices, filtering out background noise)</li> <li>• Bell buttons with background lighting</li> <li>• Audio, video and voltage via 2-wire</li> <li>• Further relay inputs/outputs e.g. door opener (door buzzer)</li> <li>• Weatherproof IP65, can be flexibly mounted using a mounting frame(surface-mounted or flush-mounted)</li> </ul> |
|--|---|

Horizontal viewing angle	145°	180°
Lens	Fix	Fix
Resolution	2 MPx	2 MPx
Frame rate	25 fps	25 fps
IR LEDs	Yes	Yes
Video compression	Stream 1: H.264, Stream 2: H.264	Stream 1: H.264, Stream 2: H.264
Audio	Built-in microphone and speaker	Built-in microphone and speaker
Microphone	Yes	Yes
Connections	1 x RJ45, 1 x DC, 4 x alarm input, 2 x alarm output	1 x DC/Audio/Video, 4 x alarm input, 2 x alarm output
Connectible devices	TVHS20020S, TVHS20030S, TVHS20040, TVHS20340S	TVHS20020S, TVHS20030S, TVHS20040, TVHS20340S
Network access	RJ45	-
Alarm input (NO/NC)	4	4
IP protection class	65	65
Max. operating temperature	60° C	60° C
Min. operating temperature	-40° C	-40° C
Max. air humidity	0,95	0,95
Dimensions (W x H x D)	98 x 99.8 x 43.9 mm	98 x 99.8 x 43.9 mm
Scope of delivery	IP-Video module • Quickguide • Safety Instructions	2-wire video module • Quickguide • Safety Instructions



Item number	TVHS20001	TVHS20010
<b>Description</b>	<b>IP video module for door intercom</b>	<b>2-wire video module for door intercom</b>
	<ul style="list-style-type: none"> <li>• IP video module for ModuVis door intercom system as a basic configuration of an intercom station (1 bell), expandable with additional modules to up to 49 bells</li> <li>• Central control unit of the door intercom system (mandatory for every PoE installation)</li> <li>• 2 MPx day/night camera with IR LEDs and 145° viewing angle for optimal overview in case of a ringing event; provides a brilliant, clear image quality without distortion</li> <li>• Push alerting to mobile device in case of ringing event via ABUS Link Station app</li> <li>• High-quality microphone and loudspeaker for clear sound of voices, filtering out of background noise (noise cancelling)</li> <li>• Ring button with adjustable backlight (permanent, schedule, brightness sensor) and nameplate with silicone seal</li> <li>• 2 relay outputs for up to 2 doors, for control of electric door opener or motor lock (e.g. front door + garage/gate), incl. power supply from the video module (simple wiring)</li> <li>• 4 switch inputs, e.g. for connection of up to 4 external bell buttons</li> <li>• Weatherproof with IP65, flexible mountable via mounting frame (surface-mounted / flush-mounted)</li> <li>• PoE network connection, power supply: 12 V DC &amp; PoE (802.3af)</li> </ul>	<ul style="list-style-type: none"> <li>• 2-wire video module for ModuVis door intercom system as basic configuration of an intercom station (1 bell), can be extended with further modules to up to 49 bells</li> <li>• Central control unit of the door intercom system (mandatory for every 2-wire installation)</li> <li>• 2 MPx day/night camera with IR-LEDs and 180° viewing angle for optimal overview during ringing events</li> <li>• Push alarm on mobile device via ABUS Link Station App</li> <li>• High-quality microphone and loudspeaker Very high speech quality (clear sound of voices, filtering out background noise)</li> <li>• Bell buttons with background lighting</li> <li>• Audio, video and voltage via 2-wire</li> <li>• Further relay inputs/outputs e.g. door opener (door buzzer)</li> <li>• Weatherproof IP65, can be flexibly mounted using a mounting frame(surface-mounted or flush-mounted)</li> <li>• Weatherproof IP65</li> </ul>

<b>Horizontal viewing angle</b>	145°	180°
<b>Lens</b>	Fix	Fix
<b>Resolution</b>	2 MPx	2 MPx
<b>Frame rate</b>	25 fps	25 fps
<b>IR LEDs</b>	Yes	Yes
<b>Video compression</b>	Stream 1: H.264, Stream 2: H.264	Stream 1: H.264, Stream 2: H.264
<b>Audio</b>	Built-in microphone and speaker	Built-in microphone and speaker
<b>Microphone</b>	Yes	Yes
<b>Connections</b>	1 x RJ45, 1 x DC, 4 x alarm input, 2 x alarm output	1 x DC/Audio/Video, 4 x alarm input, 2 x alarm output
<b>Connectible devices</b>	TVHS20020, TVHS20030, TVHS20040, TVHS20340	TVHS20020, TVHS20030, TVHS20040, TVHS20340
<b>Network access</b>	RJ45	-
<b>Alarm input (NO/NC)</b>	4	4
<b>IP protection class</b>	65	65
<b>Max. operating temperature</b>	60° C	60° C
<b>Min. operating temperature</b>	-40° C	-40° C
<b>Max. air humidity</b>	0,95	0,95
<b>Dimensions (W x H x D)</b>	98 x 99.8 x 43.9 mm	98 x 99.8 x 43.9 mm
<b>Scope of delivery</b>	IP-Video module • Quickguide • Safety Instructions	2-wire video module • Quickguide • Safety Instructions



Item number	TVHS200205	TVHS200305	TVHS20020	TVHS20030
<b>Description</b>	<b>Bell button module (6 buttons) for door intercom (stainless steel)</b>	<b>Keypad module for door intercom (stainless steel)</b>	<b>Bell button module (6 buttons) for door intercom</b>	<b>Keypad module for door intercom</b>
	<ul style="list-style-type: none"> <li>• Bell button module for ModuVis door intercom system</li> <li>• Extends the system by 6 bell buttons with Backlighting</li> <li>• Including covers for unused bell buttons</li> <li>• Suitable for surface-mounted or flush-mounted frames</li> <li>• Up to 8 modules can be integrated into a ModuVis system</li> </ul>	<ul style="list-style-type: none"> <li>• Keypad module for ModuVis door intercom system</li> <li>• 6-digit PIN code for access control</li> <li>• Number keys with backlight</li> <li>• Suitable for surface-mounted or flush-mounted frames</li> <li>• Keyless access</li> <li>• 3 general PIN codes can be set (as general code, e.g. for janitorial service)</li> <li>• 1 separate PIN code per accommodation unit (up to 49 PIN codes in the system)</li> </ul>	<ul style="list-style-type: none"> <li>• Bell button module for ModuVis door intercom system</li> <li>• Extends the system by 6 bell buttons with Backlighting</li> <li>• Including covers for unused bell buttons</li> <li>• Suitable for surface-mounted or flush-mounted frames</li> <li>• Up to 8 modules can be integrated into a ModuVis system</li> </ul>	<ul style="list-style-type: none"> <li>• Keypad module for ModuVis door intercom system</li> <li>• 6-digit PIN code for access control</li> <li>• Number keys with backlight</li> <li>• Suitable for surface-mounted or flush-mounted frames</li> <li>• Keyless access</li> <li>• 3 general PIN codes can be set (as general code, e.g. for janitorial service)</li> <li>• 1 separate PIN code per accommodation unit (up to 49 PIN codes in the system)</li> </ul>
<b>Dimensions (W x H x D)</b>	98 x 99.8 x 33.7 mm	98 x 99.8 x 33.7 mm	98 x 99.8 x 33.7 mm	98 x 99.8 x 33.7 mm
<b>Recommended accessories</b>	Bell button module • Quickguide • Safety Instructions	Keypad module • Quickguide • Safety Instructions	Bell button module • Quickguide • Safety Instructions	Keypad module • Quickguide • Safety Instructions



Item number	TVHS20040	TVHS20050
<b>Description</b>	<b>Illuminated info module for door intercom</b>	<b>Blind cover for door intercom</b>
	<ul style="list-style-type: none"> <li>• Illuminated info module for ModuVis door intercom system</li> <li>• Ideal as a name tag or house number display</li> <li>• Suitable for surface-mounted or flush-mounted frames</li> <li>• Several modules can be integrated into one ModuVis system</li> </ul>	<ul style="list-style-type: none"> <li>• Empty module (blind cover) for ModuVis door intercom system</li> <li>• Suitable for surface-mounted or flush-mounted frames</li> </ul>
<b>Dimensions (W x H x D)</b>	98 x 99.8 x 33.7 mm	98 x 99.8 x 33.7 mm
<b>Scope of delivery</b>	Info module • Quickguide • Safety Instructions	Cover for empty module • Quickguide • Safety Instructions



Item number	TVHS20130S	TVHS20140S	TVHS20150S
<b>Description</b>	Frame for 1 module for surface mounting (stainless steel)	Frame for 2 modules for surface mounting (stainless steel)	Frame for 3 modules for surface mounting (stainless steel)
	<ul style="list-style-type: none"> <li>• Single frame for surface mounting for the ModuVis door intercom system</li> <li>• Weatherproof housing</li> </ul>	<ul style="list-style-type: none"> <li>• Double frame for surface mounting for the ModuVis door intercom system</li> <li>• Weatherproof housing</li> </ul>	<ul style="list-style-type: none"> <li>• Triple frame for surface mounting for the ModuVis door intercom system</li> <li>• Weatherproof housing</li> </ul>
<b>Dimensions (W × H × D)</b>	107 × 117 × 37 mm	107 × 219 × 37 mm	107 × 320 × 37 mm
<b>Scope of delivery</b>	Frame for 1 module surface mount • Connection cables for modules • Drill template • Quickguide • Safety Instructions	Frame for 2 modules surface mount • Connection cables for modules • Drill template • Quickguide • Safety Instructions	Frame for 3 modules surface mount • Connection cables for modules • Drill template • Quickguide • Safety Instructions



Item number	TVHS20130	TVHS20140	TVHS20150
<b>Description</b>	Frame for 1 module for surface mounting	Frame for 2 modules for surface mounting	Frame for 3 modules for surface mounting
	<ul style="list-style-type: none"> <li>• Single frame for surface mounting for the ModuVis door intercom system</li> <li>• Weather-resistant anodized aluminum housing</li> </ul>	<ul style="list-style-type: none"> <li>• Double frame for surface mounting for the ModuVis door intercom system</li> <li>• Weather-resistant anodized aluminum housing</li> </ul>	<ul style="list-style-type: none"> <li>• Triple frame for surface mounting for the ModuVis door intercom system</li> <li>• Weather-resistant anodized aluminum housing</li> </ul>
<b>Dimensions (W × H × D)</b>	107 × 117 × 37 mm	107 × 219 × 37 mm	107 × 320 × 37 mm
<b>Scope of delivery</b>	Frame for 1 module surface mount • Connection cables for modules • Drill template • Quickguide • Safety Instructions	Frame for 2 modules surface mount • Connection cables for modules • Drill template • Quickguide • Safety Instructions	Frame for 3 modules surface mount • Connection cables for modules • Drill template • Quickguide • Safety Instructions



Item number	TVHS20100S	TVHS20110S	TVHS20120S
<b>Description</b>	Frame for 1 module for flush mounting (stainless steel)	Frame for 2 modules for flush mounting (stainless steel)	Frame for 3 modules for flush mounting (stainless steel)
	<ul style="list-style-type: none"> <li>• Single frame for flush mounting for the ModuVis door intercom system</li> <li>• Weatherproof housing</li> <li>• Including matching flush-mounted box</li> </ul>	<ul style="list-style-type: none"> <li>• Double frame for flush mounting for the door intercom system ModuVis</li> <li>• Weatherproof housing</li> <li>• Including matching flush-mounted box</li> </ul>	<ul style="list-style-type: none"> <li>• Triple frame for flush mounting for the door intercom system ModuVis</li> <li>• Weatherproof housing</li> <li>• Including matching flush-mounted box</li> </ul>
<b>Dimensions (W × H × D)</b>	124 × 134 × 49 mm	124 × 236 × 49 mm	124 × 337 × 49 mm
<b>Scope of delivery</b>	Frame for 1 module flush mount • Connection cables for modules • Drill template • Quickguide • Safety Instructions	Frame for 2 modules flush mount • Connection cables for modules • Drill template • Quickguide • Safety Instructions	Frame for 3 modules flush mount • Connection cables for modules • Drill template • Quickguide • Safety Instructions



Item number	TVHS20100	TVHS20110	TVHS20120
<b>Description</b>	Frame for 1 module for flush mounting	Frame for 2 modules for flush mounting	Frame for 3 modules for flush mounting
	<ul style="list-style-type: none"> <li>• Single frame for flush mounting for the ModuVis door intercom system</li> <li>• Weatherproof housing made of anodized aluminium</li> <li>• Including matching flush-mounted box</li> </ul>	<ul style="list-style-type: none"> <li>• Double frame for flush mounting for the door intercom system ModuVis</li> <li>• Weather-resistant anodized aluminum housing</li> <li>• Including matching flush-mounted box</li> </ul>	<ul style="list-style-type: none"> <li>• Triple frame for flush mounting for the door intercom system ModuVis</li> <li>• Weather-resistant anodized aluminum housing</li> <li>• Including matching flush-mounted box</li> </ul>
<b>Dimensions (W × H × D)</b>	124 × 134 × 4 mm	124 × 236 × 4 mm	124 × 337 × 4 mm
<b>Scope of delivery</b>	Frame for 1 module flush mount • Connection cables for modules • Drill template • Quickguide • Safety Instructions	Frame for 2 modules flush mount • Connection cables for modules • Drill template • Quickguide • Safety Instructions	Frame for 3 modules flush mount • Connection cables for modules • Drill template • Quickguide • Safety Instructions



Item number	TVHS20160	TVHS20170	TVHS20180
<b>Description</b>	External housing for frame surface mounting (1 module)	External housing for frame surface mounting (2 modules)	External housing for frame surface mounting (3 modules)
	<ul style="list-style-type: none"> <li>External housing for frame surface mounting (1 module) for the ModuVis door intercom system</li> <li>Extended weather protection for outdoor installation</li> </ul>	<ul style="list-style-type: none"> <li>External housing for frame surface mounting (2 modules) for the ModuVis door intercom system</li> <li>Extended weather protection for outdoor installation</li> </ul>	<ul style="list-style-type: none"> <li>External housing for frame surface mounting (3 modules) for the ModuVis door intercom system</li> <li>Extended weather protection for outdoor installation</li> </ul>
<b>Dimensions</b>	115 x 122 x 58 mm	115 x 224 x 58 mm	115 x 325 x 58 mm
<b>Scope of delivery</b>	Outdoor shield for frame surface mount (1 module) • Quickguide • Safety Instructions	Outdoor shield for frame surface mount (2 modules) • Quickguide • Safety Instructions	Outdoor shield for frame surface mount (3 modules) • Quickguide • Safety Instructions

## INSIDE MONITORS



Item number	TVHS20200	TVHS20210	TVHS20220
<b>Description</b>	7" PoE Touch Monitor white, LAN/WiFi for door intercom	7" Touch Monitor white, 2-wire for door intercom	10" PoE Touch Monitor white, LAN/WiFi for door intercom
	<ul style="list-style-type: none"> <li>Indoor station for FaceXess/ModuVis door intercom system</li> <li>Simple operation and communication in very good voice and picture quality within the door intercom system</li> <li>Live image display of the video module or of up to 16 network cameras (IP/WLAN)</li> <li>Intercom and react (e.g. opening the door) when someone rings the bell</li> <li>Recording on internal memory (expandable with microSD card)</li> <li>Saving and displaying pictures of missed people who rang the bell</li> <li>Relay output for flat door opener</li> <li>Digital input for floor bell push button and connection for existing door bell</li> <li>PoE network connection and WLAN/WiFi</li> <li>Including wall bracket (mounting plate)</li> </ul>	<ul style="list-style-type: none"> <li>Indoor station for the ModuVis door intercom system</li> <li>Simple operation and communication in very good voice and picture quality within the door intercom system</li> <li>Live image display of the video module or of up to 16 network cameras (IP/WLAN)</li> <li>Intercom and react (e.g. opening the door) when someone rings the bell</li> <li>Recording on internal memory (expandable with MicroSD card)</li> <li>Save and display pictures of missed people who rang the bell.</li> <li>Connection for already existing door gong</li> <li>Relay output for door opener of the flat floor door</li> <li>Digital input for floor bell push button</li> <li>Including wall bracket (mounting plate)</li> </ul>	<ul style="list-style-type: none"> <li>Indoor station for FaceXess/ModuVis door intercom system</li> <li>Simple operation and communication in very good voice and picture quality within the door intercom system (up to 49 monitors)</li> <li>Live image display of the video module or of up to 16 network cameras (IP/WLAN)</li> <li>Intercom and react (e.g. opening the door) when someone rings the bell</li> <li>Recording on internal memory (expandable with microSD card)</li> <li>Saving and displaying pictures of missed people who rang the bell</li> <li>Relay output for flat door opener</li> <li>Digital input for floor bell push button and connection for existing door bell</li> <li>PoE network connection and WLAN/WiFi</li> <li>Including wall bracket (mounting plate)</li> </ul>
<b>Display</b>	7" Touchscreen Monitor	7" Touchscreen Monitor	10" Touchscreen Monitor
<b>Resolution</b>	1.024 x 600 Pixel	1.024 x 600 Pixel	1.024 x 600 Pixel
<b>Audio</b>	Built-in microphone and speaker	Built-in microphone and speaker	Built-in microphone and speaker
<b>Microphone</b>	Yes	Yes	Yes
<b>Operation</b>	Touch-Screen	Touch-Screen	Touch-Screen
<b>Connections</b>	1 x RJ45, 1 x DC, 8 x alarm input, 2 x alarm output	1 x DC/Audio/Video, 8 x alarm input, 2 x alarm output	1 x RJ45, 1 x DC, 8 x alarm input, 2 x alarm output
<b>Network access</b>	RJ45	-	RJ45
<b>PoE Standard</b>	IEEE 802.3af	-	IEEE 802.3af
<b>Alarm input (NO/NC)</b>	8	8	8
<b>Max. operating temperature</b>	55° C	55° C	55° C
<b>Min. operating temperature</b>	-10° C	-10° C	-10° C
<b>Max. air humidity</b>	90	90	90 %
<b>Compatible with ABUS Link Station</b>	Yes	Yes	Yes
<b>Dimensions (W x H x D)</b>	200 x 140 x 15 mm	200 x 140 x 15 mm	254 x 166 x 15 mm
<b>Scope of delivery</b>	7" PoE Touch Monitor LAN/WiFi • Wall mount • I/O cables • Quickguide • Safety Instructions	7" Touch Monitor 2-wire • Wall mount • I/O cables • Quickguide • Safety Instructions	10" PoE Touch Monitor LAN/WiFi • Wall mount • I/O cables • Quickguide • Safety Instructions

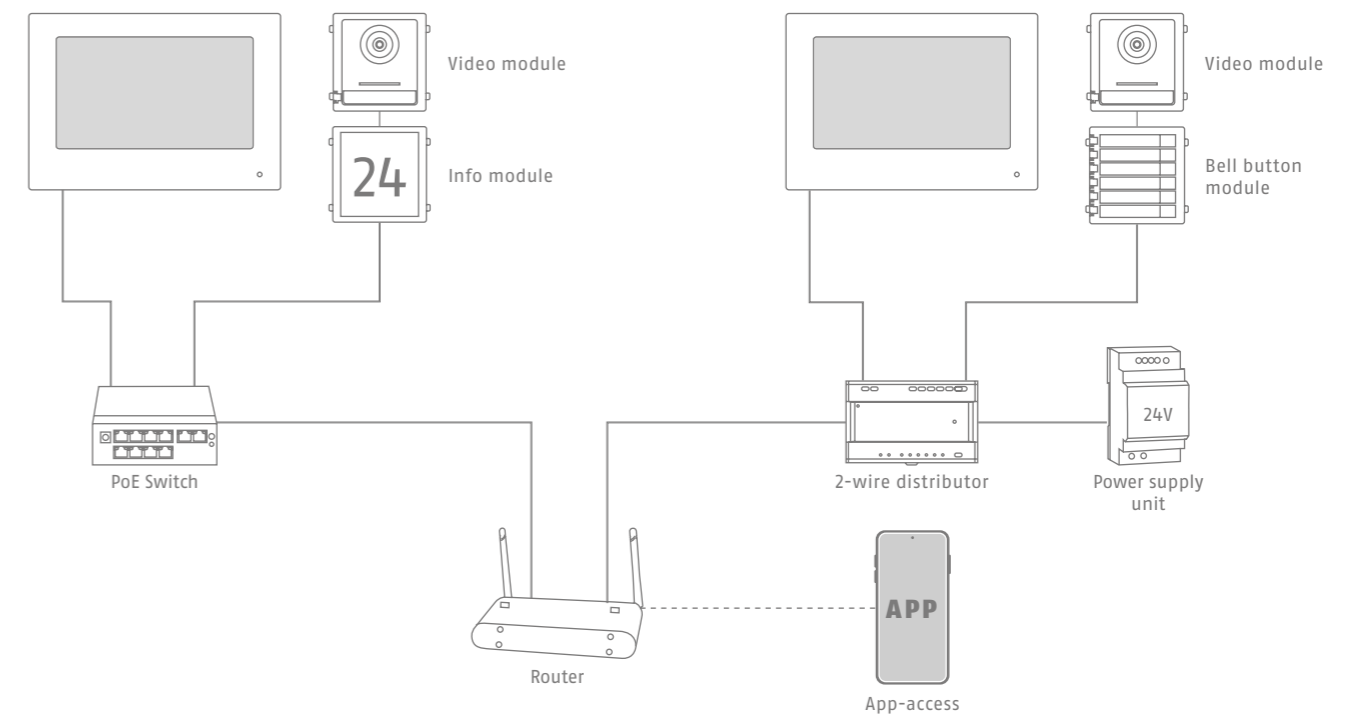
## ACCESSORIES DOOR INTERCOM SYSTEMS



Item number	TVHS20320	TVHS20340
<b>Description</b>	<b>Monitor desk mount</b> <ul style="list-style-type: none"> <li>• Table mount for the door intercom system FaceXess/ModuVis</li> <li>• Suitable for 7" indoor station (PoE &amp; 2-wire)</li> </ul>	<b>Security module</b> <ul style="list-style-type: none"> <li>• Security module for the ABUS door station</li> <li>• Manipulation protection for the door station</li> <li>• Interface for electric locks</li> </ul>
<b>Dimensions (W x H x D)</b>	122 x 64 x 86 mm	115 x 48 x 25 mm
<b>Scope of delivery</b>	Monitor Table Stand	Security module • Mounting material • 2 x Connection cable • Drilling template

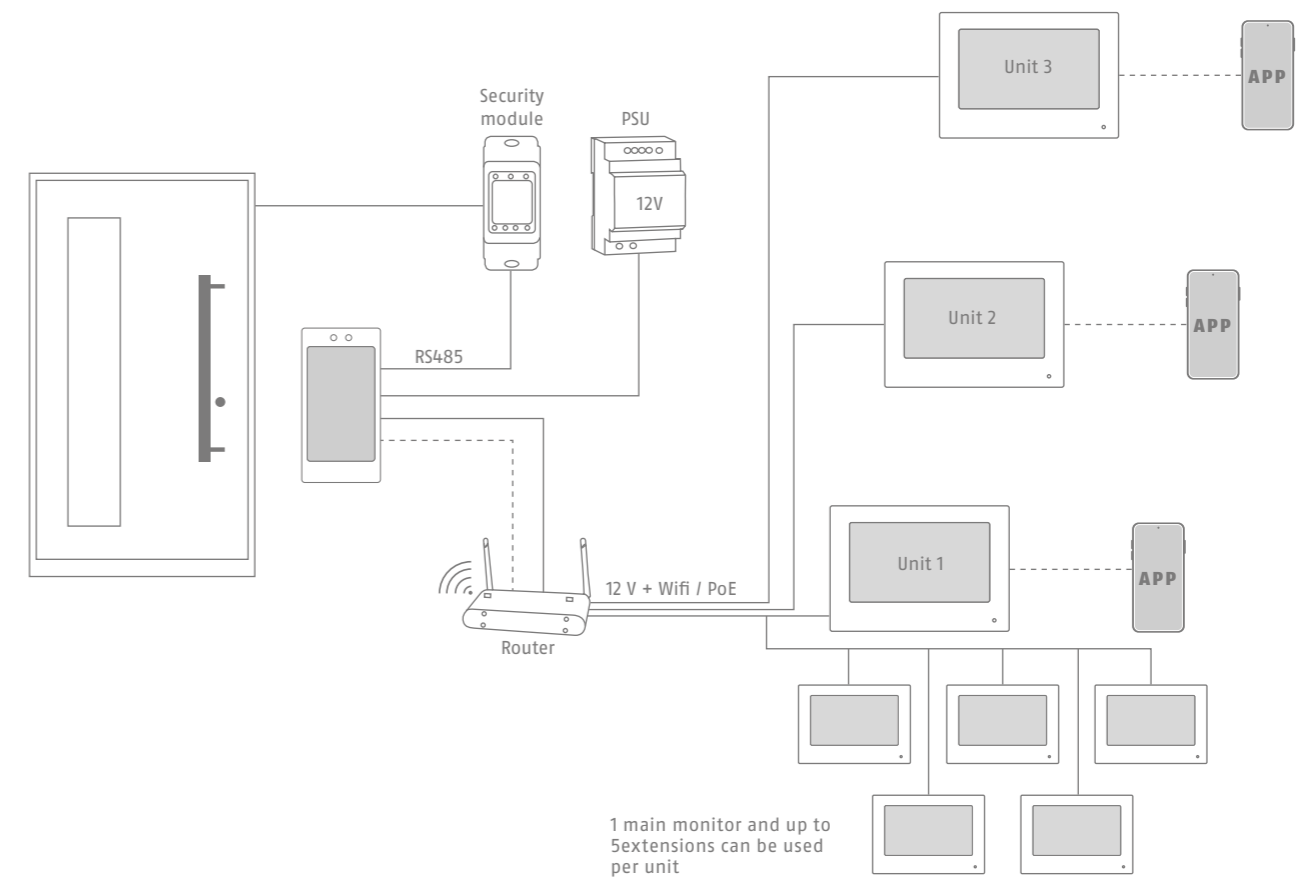
## EXEMPLARY SYSTEM STRUCTURE

Variant: mixed operation



Artikelnummer	TVHS20300	TVHS20310	TVHS30300
<b>Beschreibung</b>	<b>24V DC power supply unit for DIN Rail</b> <ul style="list-style-type: none"> <li>• 24V DC power supply unit for the ModuVis door intercom system</li> <li>• Suitable for installation with 2-wire distributor TVHS20310</li> <li>• Compatible with DIN rail TH 35/7.5 or TH 35/15</li> </ul>	<b>2-wire distributor for video module</b> <ul style="list-style-type: none"> <li>• 2-wire distributor for the ModuVis door intercom system</li> <li>• Required for installation with 2-wire video module and 2-wire indoor station</li> </ul>	<b>FaceXess installation kit</b> <ul style="list-style-type: none"> <li>• Installation kit with components for simple wiring of the FaceXess video door station</li> <li>• The components can also be used for the power supply or data connection of the PoE monitor (TVHS20200/TVHS20220)</li> </ul>
<b>Abmessungen (B x H x T)</b>	53 x 55 x 90 mm	144 x 90 x 65 mm	-
<b>Lieferumfang</b>	24 VDC power supply for top hat rail • Safety Instructions	2-Wire distributor for video module • Quickguide • Safety Instructions	12 V/4.5 A DIN rail power supply • Angled Cat.6a keystone module • 25 cm flat ribbon network cable (white) • Scotchlok UY2 single-wire connectors

## EXEMPLARY SYSTEM FACEXESS







Everything in view even without control centre software: simply via the ABUS Link Station app.

# ACCESSORIES

For optimal performance and maximum utility, ABUS IP cameras and network recorders are complemented by intuitive control centre software, mobile app and innovative video management software to create a comprehensive surveillance system.

With ABUS, you also receive all the accessories for installation and operation of the video system, such as monitors, switches, hard disks, power supply units, etc., directly from a single source. For your easy ordering and logistics, so that everything fits on site at the installation date.

# RECORDING & VIDEO MANAGEMENT

To gain maximum benefit from video surveillance, video images must be stored efficiently and evaluated effectively. In this way, the user can draw the right conclusions for targeted measures from the image material. In addition to the NVR as a surveillance centre, ABUS recording solutions offer suitable software tools for professional analysis

## RECORD AND MANAGE

Intelligent recording and evaluation of up to 64 video cameras. This is achieved with the ABUS network video recorders (NVR) with high data throughput, long-term recording and integrated VCA functions. Details on this can be found in the "Combination Outputs" chapter, **page 60**. In addition, the free ABUS CMS software is used to manage up to 256 NVRs and 1,024 video channels on a control centre PC. More on this: right here below!



## ABUS CMS SOFTWARE: THE MONITORING CENTRE

All surveillance at a glance on one PC: The free Central Monitor Station (CMS) software combines the video data from up to 1,024 cameras and 256 recorders (NVR) on up to 4 monitors. The PC becomes the control centre and is easy to operate thanks to intuitive CMS software, even with changing staff (e.g. shop detectives).



## CONTROL VIA APP

Direct access to ABUS cameras and recorders via mobile phone and tablet? Quick and easy with the ABUS Link Station app! Whether for live image display, Playback, control of PT(Z) cameras or for switching alarm outputs.

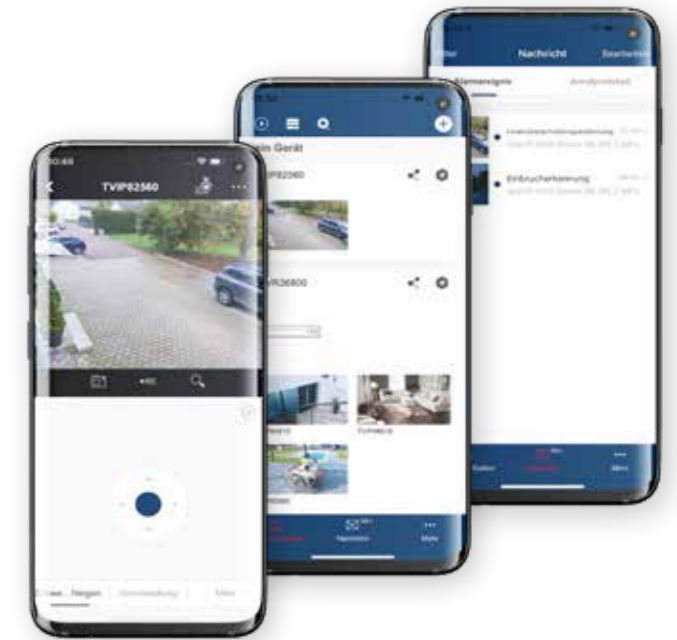
Try it out:  
the free app  
in the LITE version!



Apple iOS



Google Play



## HIGH-PERFORMANCE VMS: ABUS + AXSONSOFT

As an official distributor/integration partner of AxxonSoft, a leading global developer of VMS and PSIM platforms, ABUS offers a comprehensive solution for video management.

With a wide range of intelligent and individual functions for projects of any size: from commercial and retail to banking and the public sector.

For an unlimited number of cameras and servers - clearly arranged in one software. All ABUS camera models are directly integrated.





## AXXON ONE:

3 software packages for standard projects with features such as motion and number plate recognition, forensic search, interactive site plan, failsafe, facial recognition, etc.

## ACCESSORIES





Item number	APP12700 	APP12750 
Description	<b>ABUS Link Station Lite (Android)</b> <ul style="list-style-type: none"> <li>• Intuitive user and operator interfaces, e.g. camera arrangement via drag &amp; drop</li> <li>• Remote access to live images and recordings via mobile end devices</li> <li>• Live image display from up to 16 cameras in landscape mode</li> <li>• Push notification when someone calls</li> <li>• Save snapshots/video clips directly from the live view</li> <li>• Pinch-to-zoom function: stepless digital zooming in the camera's live image and playback modes</li> <li>• Control and configure a zoom camera (PTZ) using the touch screen</li> <li>• Control switches or relays, e.g. to open a door or operate a light switch</li> <li>• Secure connection via encrypted data transfer</li> </ul>	<b>ABUS Link Station Pro (Android)</b> <ul style="list-style-type: none"> <li>• Intuitive user and operator interfaces, e.g. camera arrangement via drag &amp; drop</li> <li>• Remote access to live images and recordings via mobile end devices</li> <li>• Live image display from up to 16 cameras in landscape mode</li> <li>• Push notification when someone calls</li> <li>• Direct saving of snapshots/video clips from the live view</li> <li>• Pinch-to-zoom function: stepless digital zooming in the camera's live image and playback modes</li> <li>• Control and configure a zoom camera (PTZ) using the touch screen</li> <li>• Control switches or relays, e.g. to open a door or operate a light switch</li> <li>• Secure connection via encrypted data transfer</li> </ul>



Item number	TVSW12000
Description	<b>ABUS IP Installer (Windows)</b> <ul style="list-style-type: none"> <li>• PC software for performing quick searches for all ABUS devices on the network</li> <li>• Quick process for making changes to the IP settings</li> <li>• Display of firmware statuses and automatic online firmware updates for all ABUS cameras and recorders</li> <li>• Straightforward download of the manual and quick guide for discovered devices</li> </ul>



Item number	APP12800 	APP12850 
Description	<b>ABUS Link Station Lite (iOS)</b> <ul style="list-style-type: none"> <li>• Intuitive user and operator interfaces, e.g. camera arrangement via drag &amp; drop</li> <li>• Remote access to live images and recordings via mobile end devices</li> <li>• Live image display from up to 16 cameras in landscape mode</li> <li>• Push notification when someone calls</li> <li>• Save snapshots/video clips directly from the live view</li> <li>• Pinch-to-zoom function: stepless digital zooming in the camera's live image and playback modes</li> <li>• Control and configure a zoom camera (PTZ) using the touch screen</li> <li>• Control switches or relays, e.g. to open a door or operate a light switch</li> <li>• Secure connection via encrypted data transfer</li> </ul>	<b>ABUS Link Station Pro (iOS)</b> <ul style="list-style-type: none"> <li>• Intuitive user and operator interfaces, e.g. camera arrangement via drag &amp; drop</li> <li>• Remote access to live images and recordings via mobile end devices</li> <li>• Live image display from up to 16 cameras in landscape mode</li> <li>• Push notification when someone calls</li> <li>• Direct saving of snapshots/video clips from the live view</li> <li>• Pinch-to-zoom function: stepless digital zooming in the camera's live image and playback modes</li> <li>• Control and configure a zoom camera (PTZ) using the touch screen</li> <li>• Control switches or relays, e.g. to open a door or operate a light switch</li> <li>• Secure connection via encrypted data transfer</li> </ul>



Item number	TVSW11001	TVSW11005
Description	<b>ABUS CMS Software (Windows)</b> <ul style="list-style-type: none"> <li>• PC software for management of up to 256 recorders and 1024 video channels</li> <li>• Live view and playback for up to 64 cameras on 4 monitors</li> <li>• Integrated time schedule management, event programming and log data evaluation</li> <li>• Graphical bar display of the camera archive with time bars for event and continuous record</li> <li>• Remote configuration for recorder programming</li> <li>• Simple data export via integrated download manager</li> <li>• Integrated alarm manager with pop-up function for immediate display and playback of suspicious events</li> <li>• Creation of snapshots directly from the live view</li> <li>• Creation and management of up to 50 users, with the option of individual configuration for each user</li> <li>• Smart search through recordings using motion detection so events can be found quickly</li> </ul>	<b>ABUS CMS Software (Mac OS)</b> <ul style="list-style-type: none"> <li>• Mac software for management of ABUS recorders</li> <li>• Live view and playback for up to 64 cameras on 4 monitors</li> <li>• Integrated time schedule management, event programming and log data evaluation</li> <li>• Graphical bar display of the camera archive with time bars for event and continuous record</li> <li>• Remote configuration for recorder programming</li> <li>• Simple data export via integrated download manager</li> <li>• Integrated alarm manager with pop-up function for immediate display and playback of suspicious events</li> <li>• Creation of snapshots directly from the live view</li> <li>• Creation and management of up to 50 users, with the option of individual configuration for each user</li> </ul>



<b>Item number</b>	<b>TVAC10101</b>
<b>Description</b>	<p><b>7" Universal test monitor</b></p> <ul style="list-style-type: none"> <li>• Universal test monitor for the maintenance and installation of IP network cameras as well as analog TVI, CVI, AHD and CVBS cameras</li> <li>• High-resolution 7" touch display with 1.280 x 800 pixels</li> <li>• Supports 4K H.264 and 4K H.265 streams</li> <li>• Compatible with third-party manufacturers over neutral protocol</li> <li>• With network tools to maintain and verify the network</li> <li>• Integrated PoE power supply with 24 W at the LAN port</li> <li>• Integrated mobile power supply for devices and integrated USB power supply for USB devices</li> <li>• Wi-Fi and Wi-Fi hotspot feature</li> <li>• With cable tester for checking network cables</li> <li>• Data backup on SD card possible (screenshots / videos / documents)</li> </ul>
<b>Dimensions (W x H x D)</b>	231 x 172 x 52 mm
<b>Scope of delivery</b>	7" Universal test monitor • Power Supply • International adapter for power supply • Cable tester No.255 • DC Cable • 3.5 mm jack adapter cable • RS-485 adapter cable • Carry bag • Large carrying strap • 2 x Small carrying strap



<b>Item number</b>	<b>TVAC71070</b>	<b>TVAC31700</b>
<b>Description</b>	<p><b>IR Illuminator, 15 W, 10°- 95° changeable lens</b></p> <ul style="list-style-type: none"> <li>• Interchangeable diffuser lens 10°, 20°, 30°, 40°, 80° &amp; 95°</li> <li>• Range up to 130 m</li> <li>• Weatherproof housing IP66</li> <li>• Variable power supply input 12-32 V DC / 24 V AC +/-10%</li> <li>• Additional bracket available for horizontal alignment TVAC31700</li> <li>• Integrated photo sensor for automatic activation and deactivation</li> <li>• Control input for remote switching</li> <li>• Self-cleaning lens coating technology</li> </ul>	<p><b>Mounting bracket for IR illuminator</b></p> <ul style="list-style-type: none"> <li>• Additional mounting bracket available for a TVAC71070 IR illuminator</li> <li>• For horizontal pivoting of the IR illuminator up to 180°</li> <li>• Stainless steel, black powder coated</li> </ul>
<b>Dimensions (W x H x D)</b>	78 x 110 x 68 mm	113 x 100 x 75 mm
<b>Scope of delivery</b>	IR-Illuminator • Set of interchangeable lenses 10° to 95° • Mounting tool for interchangeable lens • Bracket • L-Wrench • Mounting material	Mounting bracket for IR illuminator • Matériel de montage



<b>Item number</b>	<b>TVAC10001</b>	<b>TVAC10014</b>	<b>TVAC10033</b>
<b>Description</b>	<p><b>10.4" LED Monitor with BNC Input</b></p> <ul style="list-style-type: none"> <li>• High contrast 10.4" LED monitor (4:3 format)</li> <li>• Resolution: 800 x 600 pixels</li> <li>• Connections: 1 x HDMI, 1 x VGA, 1 x BNC input, 1 x BNC output, 1 x audio input</li> <li>• LED backlighting: Brilliant colour display and high contrast</li> <li>• Integrated loudspeaker</li> <li>• Compatible with VESA brackets</li> <li>• Compact dimensions: ideal for checkout areas, for example</li> </ul>	<p><b>21.5" LED Monitor with BNC Input</b></p> <ul style="list-style-type: none"> <li>• High-contrast 21" LED monitor with bright colour display (16:9 format)</li> <li>• Full HD resolution: 1.920 x 1.080 pixels</li> <li>• Connections: 1 x HDMI, 2x BNC input and output for HD-TVI, HD-CVI, AHD and CVBS</li> <li>• Plug &amp; Play with all conventional analogue technologies</li> <li>• LED backlighting: Brilliant colour display and high contrast</li> <li>• Compatible with VESA brackets</li> </ul>	<p><b>21.5" Full HD LED Monitor</b></p> <ul style="list-style-type: none"> <li>• 21.5" LED Monitor with full HD resolution: 1920 x 1080 pixels</li> <li>• Fast reaction time (5 ms) for flowing images</li> <li>• Brilliant colour display and high contrast in 16:9 format</li> <li>• Ideal for high-resolution full HD recording systems</li> <li>• Graphical on-screen display (OSD)</li> <li>• Connections: HDMI, VGA</li> <li>• Low power consumption for long-term monitoring (LED technology)</li> <li>• Compatible with VESA brackets for wall and ceiling installation</li> </ul>
<b>Dimensions (W x H x D)</b>	268 x 222 x 29 mm	490 x 359 x 147 mm	489 x 378 x 110 mm
<b>Scope of delivery</b>	10.4" LED Monitor with BNC Input • HDMI cable • Power supply unit	21.5" LED Monitor with BNC port • Power supply • Cable HDMI • Important safety information	21.5" Full HD LED Monitor • Power supply • HDMI cable • Important safety information



<b>Item number</b>	<b>TVAC10061</b>	<b>TVAC10071</b>
<b>Description</b>	<p><b>23.8" Full HD LED Monitor</b></p> <ul style="list-style-type: none"> <li>• 24" LED monitor with full HD resolution: 1920 x 1080 pixels</li> <li>• Fast reaction time (5 ms) for flowing images</li> <li>• Brilliant colour display and high contrast in 16:9 format</li> <li>• Ideal for high-resolution full HD recording systems</li> <li>• Graphical on-screen display (OSD)</li> <li>• Connections: HDMI, VGA</li> <li>• Low power consumption for long-term monitoring (LED technology)</li> <li>• Compatible with VESA brackets for wall and ceiling installation</li> </ul>	<p><b>27" 4K Ultra HD LED Monitor</b></p> <ul style="list-style-type: none"> <li>• 27" LED monitor with 4K ultra HD resolution: 3840 x 2160 pixels</li> <li>• Fast reaction time (5 ms) for flowing images</li> <li>• Brilliant colour display and high contrast in 16:9 format</li> <li>• Ideal for high-resolution 4K recording systems</li> <li>• Graphical on-screen display (OSD)</li> <li>• Connections: HDMI, DisplayPort (DP), PC audio output 3.5 mm</li> <li>• Integrated loudspeaker</li> <li>• Low power consumption for long-term monitoring (LED technology)</li> <li>• Compatible with VESA brackets for wall and ceiling installation</li> </ul>
<b>Dimensions (W x H x D)</b>	615 x 400 x 250 mm	540 x 418 x 227 mm
<b>Scope of delivery</b>	23.8" Full HD LED Monitor • Power supply • HDMI cable • Important safety information	27" Full HD LED Monitor • Power supply • HDMI cable • Important safety information



Item number	ITAC10100	ITAC10110
<b>Description</b>	<b>4-Port PoE Gigabit Switch</b>	<b>8-Port PoE Gigabit Switch</b>
	<ul style="list-style-type: none"> <li>• Connections: 4 x PoE gigabit (downstream), 2 x gigabit (uplink)</li> <li>• Supports PoE and PoE+</li> <li>• Plug &amp; Play, no configuration required</li> <li>• Robust design, easy to install anywhere</li> </ul>	<ul style="list-style-type: none"> <li>• Connections: 8 x PoE gigabit (downstream), 1 x gigabit (uplink) RJ45, 1 x gigabit (uplink) SFP</li> <li>• Supports PoE and PoE+</li> <li>• Plug &amp; Play, no configuration required</li> <li>• Robust design, easy to install anywhere</li> </ul>
<b>Max. PoE power per port</b>	30 Watt	30 Watt
<b>Total PoE budget</b>	60 Watt	120 Watt
<b>Dimensions (W x H x D)</b>	86 x 27 x 135 mm	102 x 27 x 200 mm
<b>Scope of delivery</b>	4-Port PoE Gigabit Switch • Power Supply • Mounting material	8-Port PoE Gigabit Switch • Power Supply • Mounting material



Item number	ITAC10120	ITAC10130
<b>Description</b>	<b>16-Port PoE Gigabit Switch Managed</b>	<b>24-Port PoE Gigabit Switch Managed</b>
	<ul style="list-style-type: none"> <li>• Connections: 16 x PoE gigabit (downstream), 4 x gigabit (uplink) SFP</li> <li>• Supports PoE and PoE+</li> <li>• Temperature-controlled fan</li> <li>• Supports web-based Layer 2 network management and simple PoE management</li> <li>• Supports high-speed data-forwarding, particularly suitable for large volumes of data in professional video surveillance</li> <li>• Suitable for professional installation in a 19" rack</li> </ul>	<ul style="list-style-type: none"> <li>• Connections: 24 x PoE gigabit (downstream), 4 x gigabit (uplink) SFP</li> <li>• Supports PoE and PoE+</li> <li>• Temperature-controlled fan</li> <li>• Supports web-based Layer 2 network management and simple PoE management</li> <li>• Supports high-speed data-forwarding, particularly suitable for large volumes of data in professional video surveillance</li> <li>• Suitable for professional installation in a 19" rack</li> </ul>
<b>Max. PoE power per port</b>	30 Watt	30 Watt
<b>Total PoE budget</b>	270 Watt	390 Watt
<b>Dimensions (W x H x D)</b>	320 x 45 x 442 mm	320 x 45 x 442 mm
<b>Scope of delivery</b>	16-Port PoE Gigabit Switch Managed • Power cable • Mounting material for 19" rack	24-Port PoE Gigabit Switch Managed • Power cable • Mounting material for 19" rack



Item number	ITAC10250	ITAC10260
<b>Description</b>	<b>1-Port Fiber Optical Converter</b>	<b>SFP Module Singlemode</b>
	<ul style="list-style-type: none"> <li>• Media converter: Network cable to optical fibre</li> <li>• Connections: 1 x gigabit SFP for optical fibre, 1 x gigabit RJ45 for Ethernet cable</li> <li>• Supports hot-plug and SFP modules of various power levels</li> <li>• Provides 6 kV overvoltage protection and 6 kV/8 kV EMC protection</li> </ul>	<ul style="list-style-type: none"> <li>• SFP modules for LC plugs according to SFF-8472 standard</li> <li>• Supports hot-plug</li> <li>• Supports single-mode optical fibres</li> <li>• Transmission distance of up to 20 km</li> <li>• 1310 nm FP laser</li> <li>• Complies with the IEC-60825 laser safety standard</li> </ul>
<b>Dimensions (W x H x D)</b>	82 x 103 x 25 mm	14 x 6 x 56 mm
<b>Scope of delivery</b>	1-Port Fiber Optical Converter • Power Supply • Mounting material	SFP module



Item number	ITAC10320
<b>Description</b>	<b>Powerline PoE Adapter*</b>
	<ul style="list-style-type: none"> <li>• Data transmission via available power grid</li> <li>• 2 x RJ45 (2 x PoE 802.3af or 1 x PoE 802.3at)</li> <li>• Supports PoE for direct operation of your PoE-capable network device at the Powerline Adapter</li> <li>• Fast transmission rates of up to 1000 Mbit/s according to G.hn (HomeGrid standard)</li> <li>• Supports up to 16 adapters in a network</li> <li>• Secure transmission thanks to 128 bit AES encryption</li> </ul>
<b>Dimensions (W x H x D)</b>	72 x 146 x 39 mm
<b>Scope of delivery</b>	Powerline PoE Adapter • Ethernet cable • Safety instructions

\*not available in Switzerland



Item number	ITAC10200	ITAC10210
<b>Description</b>	<b>2-Port PoE Repeater</b> <ul style="list-style-type: none"> <li>• Up to 200 m extension of a 100 Mbit/s Ethernet PoE/PoE+ cable</li> <li>• 2 x 100 Mbit/s PoE outputs for simple cascading</li> <li>• No additional power supply required</li> <li>• Supports PoE and PoE+</li> <li>• Compatible with end-span and mid-span PoE</li> <li>• Plug &amp; Play, no configuration required</li> <li>• Robust design, easy to install anywhere</li> </ul>	<b>Network Surge Protection</b> <ul style="list-style-type: none"> <li>• Protects cameras and recorders from overvoltage in the network line</li> <li>• Supports PoE and PoE+</li> <li>• Compatible with end-span and mid-span PoE</li> <li>• Fast tripping time of less than 1 ns</li> <li>• Complies with the IEC61643-21:2000 standard</li> <li>• SPD Type 3</li> </ul>
<b>Dimensions (W × H × D)</b>	82 × 25 × 103 mm	52 × 28 × 110 mm
<b>Scope of delivery</b>	2-Port PoE Repeater • Mounting material	Network Surge Protection



Item number	TVAC26030
<b>Description</b>	<b>DVR/PTZ network controller</b> <ul style="list-style-type: none"> <li>• 3D joystick with zoom in/out function</li> <li>• Direct control of a DVR/NVR possible</li> <li>• Direct access to the OSD of the dome camera possible</li> <li>• LCD display for viewing</li> <li>• RS485 interface / RJ45 interface</li> </ul>
<b>Dimensions (W × H × D)</b>	345 × 118 × 165 mm
<b>Scope of delivery</b>	DVR/NVR/PTZ Controller • 8-pin terminal connector • Power supply unit



Item number	TVAC25005	TVAC25001
<b>Description</b>	<b>PoE Injector, 60 W</b> <ul style="list-style-type: none"> <li>• For transmitting data and power to High PoE-compatible network cameras via network cable</li> <li>• For cameras of up to 60 watt power consumption</li> <li>• Transmission range of up to 100 m</li> <li>• Compatible with ABUS model IPCS83500, IPCS82530, IPCS82520, IPCS82500</li> </ul>	<b>PoE Injector, 30 W</b> <ul style="list-style-type: none"> <li>• For transmitting power and data via network cable to all PoE capable network cameras</li> <li>• Transmission range up to 100 m</li> <li>• PoE+ with 30 W output power</li> <li>• Meets IEEE 802.3af/at, IEEE 802.3 10Base-T/100Base-TX/IEEE802.3ab 1000Base-T standard</li> </ul>
<b>Dimensions (W × H × D)</b>	70 × 36 × 180 mm	60 × 64 mm
<b>Scope of delivery</b>	PoE Injector, 60W	PoE Injector • Power cable • Clamp for power cable



Item number	TVAC26010
<b>Description</b>	<b>USB Keyboard for ABUS CMS</b> <ul style="list-style-type: none"> <li>• Simple PTZ control of cameras with ABUS CMS software</li> <li>• 3-axis joystick (horizontal/vertical/rotation)</li> <li>• 15 freely configurable buttons for presets/patrols and other functions</li> <li>• 2 shortcut buttons on the control handle for taking snapshots</li> <li>• Power supply and data transmission via USB</li> <li>• Plug and play installation via USB port</li> </ul>
<b>Dimensions (W × H × D)</b>	167 × 116 × 177 mm
<b>Scope of delivery</b>	USB Keyboard for ABUS CMS/NVR



Item number	TVAC35500	TVAC35510	TVAC35520
<b>Description</b>	CCTV Performance Power Supply 2 A	CCTV Performance Power Supply 3 A	CCTV Performance Power Supply 5 A
	<ul style="list-style-type: none"> <li>• Regulated 13.8 V DC output signal</li> <li>• Electronic overload protection</li> <li>• Additional 1.0 charging current for backup battery (with holding charge)</li> <li>• LED control indicators for mains and fuse</li> <li>• Rugged metal housing</li> </ul>		
<b>Dimensions (W × H × D)</b>	338 × 281 × 86 mm	338 × 281 × 86 mm	338 × 281 × 86 mm
<b>Scope of delivery</b>	CCTV Performance Power Supply 2 A · Instruction guide · Installation material	CCTV Performance Power Supply 3 A · Instruction guide · Installation material	CCTV Performance Power Supply 5 A · Instruction guide · Installation material



Item number	TVAC35800	TVAC40890
<b>Description</b>	DC 2-Pin Adapter female	RJ45 Connector
	<ul style="list-style-type: none"> <li>• Connection of a 2 wire power supply to the round plug (DC) of the camera</li> </ul>	<ul style="list-style-type: none"> <li>• Suited for CAT-5 cable</li> </ul>
<b>Dimensions (W × H × D)</b>	35 × 14 × 13 mm	14 × 35 × 14 mm
<b>Scope of delivery</b>	DC/2 Pin Adapter	RJ45 Connector · Bend relief



Item number	TVAC35202	TVAC35001
<b>Description</b>	Mini clip built-in power supply unit 12V / 1A	Plug-in Power Supply „International“
	<ul style="list-style-type: none"> <li>• Quick installation: lever spring clamp means tool is not required</li> <li>• Quick installation in 55 mm flush sockets</li> <li>• Input voltage: 230 V AC</li> <li>• Output voltage: 12 V DC at 1.0 A</li> </ul>	<ul style="list-style-type: none"> <li>• Flexible switching power supply for international use</li> <li>• 4 different plug adapters (EU, AUS, UK, US)</li> <li>• Output voltage 12 V DC with 1.5 A</li> </ul>
<b>Dimensions (W × H × D)</b>	55 × 51 × 26 mm	43.5 × 74 × 35.5 mm
<b>Scope of delivery</b>	Mini clip built-in power supply unit	Plug-in Power Supply „International“ · 4 different plug attachments (EU, AUS, UK, US)



Item number	AU1312	AU1313	AU1500
<b>Description</b>	Warning Sticker CCTV surveillance 148 x 105 mm	Warning Sticker CCTV Surveillance 74 x 52,5 mm	Warning Sticker CCTV Surveillance (german) 90 x 90 mm
	<ul style="list-style-type: none"> <li>• Printed on both sides</li> <li>• Reflective</li> <li>• For attachment on and behind glass</li> <li>• Weatherproof</li> <li>• Notice of video surveillance is required by law in public areas</li> </ul>		
<b>Dimensions (W × Ø)</b>	148 × 105 mm	74 × 52.5 mm	90 x 90 mm
<b>Scope of delivery</b>	Warning Sticker CCTV surveillance 148 x 105mm	Warning Sticker CCTV Surveillance 74 x 52,5 mm	



Item number	TVAC41010	TVAC41020	TVAC41030	TVAC41040
<b>Description</b>	<b>1 TB 3.5" SATA HDD</b>	<b>2 TB 3.5" SATA HDD</b>	<b>3 TB 3.5" SATA HDD</b>	<b>4 TB 3.5" SATA HDD</b>
	<ul style="list-style-type: none"> <li>• Hard drive with 1 TB storage capacity and form factor 3.5"</li> <li>• Optimised for use in an ABUS recording system (NVR &amp; DVR)</li> <li>• Suitable for 24/7 recording</li> <li>• Low power consumption</li> </ul>	<ul style="list-style-type: none"> <li>• Hard drive with 2 TB storage capacity and form factor 3.5"</li> <li>• Optimised for use in an ABUS recording system (NVR &amp; DVR)</li> <li>• Suitable for 24/7 recording</li> <li>• Low power consumption</li> </ul>	<ul style="list-style-type: none"> <li>• Hard drive with 3 TB storage capacity and form factor 3.5"</li> <li>• Optimised for use in an ABUS recording system (NVR &amp; DVR)</li> <li>• Suitable for 24/7 recording</li> <li>• Low power consumption</li> </ul>	<ul style="list-style-type: none"> <li>• Hard drive with 4 TB storage capacity and form factor 3.5"</li> <li>• Optimised for use in an ABUS recording system (NVR &amp; DVR)</li> <li>• Suitable for 24/7 recording</li> <li>• Low power consumption</li> </ul>
<b>Dimensions (W × H × D)</b>	102 × 20 × 147 mm	102 × 26 × 147 mm	102 × 26 × 147 mm	102 × 26 × 147 mm
<b>Scope of delivery</b>	SATA hard drive, 1 TB	SATA hard drive, 2 TB	SATA hard drive, 3 TB	SATA hard drive, 4 TB



Item number	TVAC41100	TVAC41110	TVAC41120	TVAC41130
<b>Description</b>	<b>MicroSD card, 32 GB</b>	<b>MicroSD card, 64 GB</b>	<b>MicroSD card, 128 GB</b>	<b>MicroSD card, 256 GB</b>
	<ul style="list-style-type: none"> <li>• Ideal for storing video data during long-term continuous operation</li> <li>• High write speed of up to 100 MB/s (class 10)</li> <li>• Tested for adverse operating conditions: shock-resistant, waterproof and able to withstand extreme temperatures</li> </ul>	<ul style="list-style-type: none"> <li>• Ideal for storing video data during long-term continuous operation</li> <li>• High write speed of up to 20 MB/s (class 10)</li> <li>• Tested for adverse operating conditions: shock-resistant, waterproof and able to withstand extreme temperatures</li> </ul>	<ul style="list-style-type: none"> <li>• Ideal for storing video data during long-term continuous operation</li> <li>• High write speed of up to 100 MB/s (class 10)</li> <li>• Tested for adverse operating conditions: shock-resistant, waterproof and able to withstand extreme temperatures</li> </ul>	<ul style="list-style-type: none"> <li>• Ideal for storing video data during long-term continuous operation</li> <li>• High write speed of up to 100 MB/s (class 10)</li> <li>• Tested for adverse operating conditions: shock-resistant, waterproof and able to withstand extreme temperatures</li> </ul>
<b>Scope of delivery</b>	MicroSD Card 32GB • Adapter microSD to SD	MicroSD Card 64GB • Adapter microSD to SD	MicroSD Card 128 GB • Adapter microSD to SD	MicroSD Card 256 GB • Adapter microSD to SD



Item number	TVAC41060	TVAC41080	TVAC41090
<b>Description</b>	<b>6 TB 3.5" SATA HDD</b>	<b>8 TB 3.5" SATA HDD</b>	<b>10 TB 3.5" SATA HDD</b>
	<ul style="list-style-type: none"> <li>• Hard drive with 6 TB storage capacity and form factor 3.5"</li> <li>• Optimised for use in an ABUS recording system (NVR &amp; DVR)</li> <li>• Suitable for 24/7 recording</li> <li>• Low power consumption</li> </ul>	<ul style="list-style-type: none"> <li>• Hard drive with 8 TB storage capacity and form factor 3.5"</li> <li>• Optimised for use in an ABUS recording system (NVR &amp; DVR)</li> <li>• Suitable for 24/7 recording</li> <li>• Low power consumption</li> </ul>	<ul style="list-style-type: none"> <li>• Hard drive with 10 TB storage capacity and form factor 3.5"</li> <li>• Optimised for use in an ABUS recording system (NVR &amp; DVR)</li> <li>• Suitable for 24/7 recording</li> <li>• Low power consumption</li> </ul>
<b>Dimensions (W × H × D)</b>	102 × 26 × 147 mm	102 × 26 × 147 mm	102 × 26 × 147 mm
<b>Scope of delivery</b>	SATA hard drive, 6 TB	8 TB 3.5" SATA HDD	10 TB 3.5" SATA HDD



Item number	TVAC40801	TVAC40811	TVAC40831	TVAC40841	TVAC40851
<b>Description</b>	<b>0,5 m CAT 6A S/FTP PIMF patch cable</b>	<b>1 m CAT 6A S/FTP PIMF patch cable</b>	<b>5 m CAT 6A S/FTP PIMF patch cable</b>	<b>10 m CAT 6A S/FTP PIMF patch cable</b>	<b>20 m CAT 6A S/FTP PIMF patch cable</b>
	<ul style="list-style-type: none"> <li>• Twisted pair cable with RJ45 plug</li> <li>• Suitable for Ethernet networks up to 10 gigabits per second</li> <li>• Designed for operating frequencies up to 500 MHz</li> <li>• Cores shielded in pairs with metal foil</li> <li>• The entire cable is also provided with a braided shield</li> <li>• RoHS compliant</li> </ul>				
<b>Scope of delivery</b>	0.5 m CAT 6A S/FTP PIMF patch cable	1 m CAT 6A S/FTP PIMF patch cable	5 m CAT 6A S/FTP PIMF patch cable	10 m CAT 6A S/FTP PIMF patch cable	20 m CAT 6A S/FTP PIMF patch cable



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