ABUS

Security Tech Germany

CATALOGUE 2023

VIDEO IP

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

In our latest catalogue, we present the
2023 Video IP range from ABUS Security Center.
Detailed information for all products can be found at **abus.com**

PRODUCT DETAILS

OVERVIEW OF VIDEO IP **10**
OVERVIEW OF CAMERA ACCESSORIES **22**
IP CAMERAS **30**
MOUNTS & BRACKETS **50**
RECORDERS **60**
MODUVIS DOOR-INTERCOM **68**
ACCESSORIES **78**
ITEM NUMBER INDEX **94**
SERVICE & CONTACT **98**

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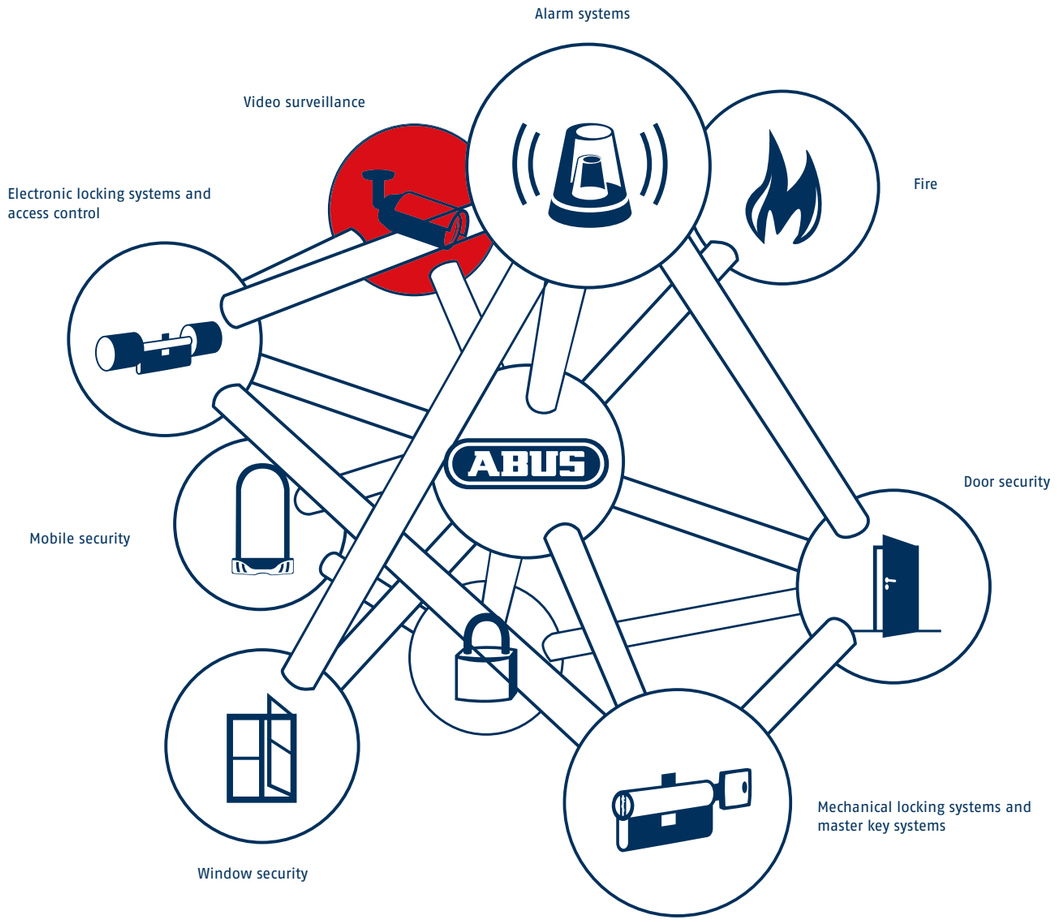


ABUS | August Bremicker Söhne
Home security, property security, mobile security

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

B·BASIC
For basic applications

- High-spec cameras offering attractive value for money
- Effective solution for basic protection
- All models can be used indoors and outdoors

from Winter 2022

A·ADVANCED
For advanced requirements

- Camera models for use in demanding environments
- Extended functional scope
- Optimised housing design for efficient installation

S·SPECIAL
For special applications

- High-performance cameras for special applications
- For solutions with specific requirements
- Special models, e.g. intelligent PTZ domes with robust mechanics for a full overview in any environment

THE B·A·S MODELL

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 images day and night and at almost any distance - with thermal image sensor if needed. With automatic classification/evaluation of events for the ideal level of security with efficient use of personnel (highly precise movement alarms, quick search of incidents, triggering of automatic processes). Additional options: Camera with extended alarm functions and other models in the black colour variant.

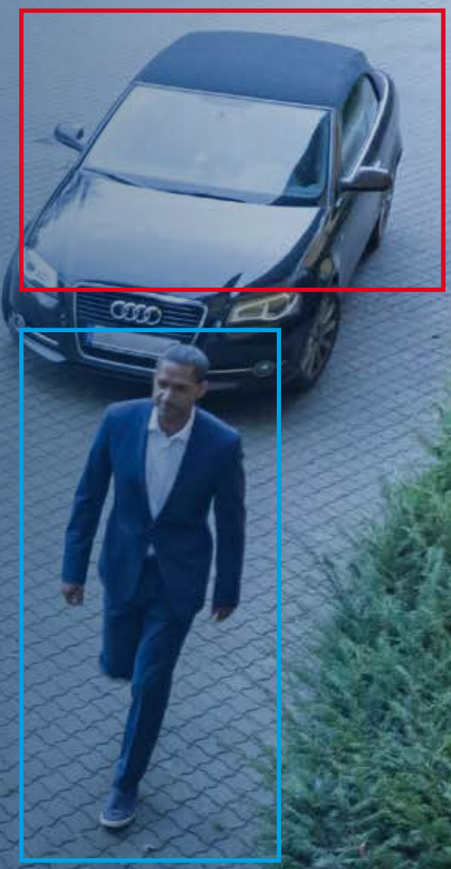
CLEAR ADVANTAGES

- Lower personnel costs: Thanks to object detection/classification, the camera delivers very few, highly accurate motion alarms
- Less time required: Thanks to quick search with event filter (human, vehicle), relevant recordings (on the NVR) are found much faster
- More safety: clear colour images with every detail, even at night and in absolute darkness, thanks to full-colour day/night function
- Total night vision: precise detection of intruders at long distances, even in fog, difficult terrain, etc. thanks to thermal camera

AUTOMATIC OBJECT RECOGNITION

AI IN THE CAMERA

All Basic and Gecko cameras automatically recognise people and vehicles by means of intelligent software (AI algorithm) and autonomously differentiate them from interfering influences (clouds, light, shadows, trees/leaves, birds, etc.).



MANY ADVANTAGES

- Higher level of security, more application possibilities and programmable scenarios (in conjunction with VCA events)
- False alarms are significantly reduced (very high real alarm precision), the number of push messages for motion alarms (VCA event) is minimised
- Storage space and write accesses on the SD card are reduced as only relevant scenes are saved
- Quick search and easy finding of incidents/events in the central recording (NVR, CMS), as it is possible to filter directly by person or vehicle
- 2x security: All events are stored on the recording device (NVR) (no recordings are lost if an incident is investigated without a person/vehicle)
- Less working time and costs (e.g. security staff) due to automated monitoring
- The all-in-one alarm camera with 2WAY audio: Intercom, address perpetrators and sound the alarm (warning tone, speech, flashing light). Set up precise VCA scenarios for alarms or for more efficient operations (e.g. goods receiving, sales room)
- NEW NOW: Thermal cameras for extremely precise detection of people and vehicles (object detection with high alarm accuracy) - at up to 150 m, at night and in fog as well as other disturbing influences

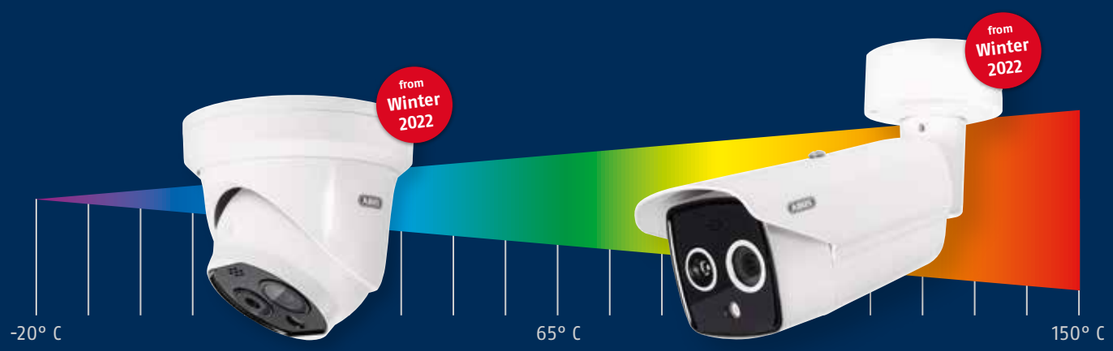
DISCOVER NOW: THE NEW DREAM TEAM

FOR EFFECTIVE 24/7 PROTECTION!

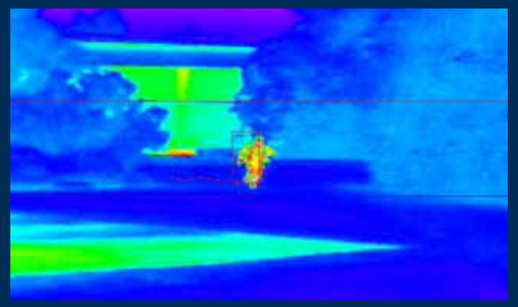
In this updated edition of our catalogue, we are pleased to present exciting new products again. All camera lines have been strengthened: Basic, Advanced and Special. In addition to updating the product range, our new camera solutions for monitoring large areas during the day and especially at night stand out. In addition, new colour variants are available.

BEST PICTURES EVEN AT NIGHT AND IN FOG

The special solution for 24/7 protection of company premises, large areas and sensitive areas: the new ABUS dual thermal cameras with thermal image sensor plus optical image sensor. For reliable detection (human, vehicle) under the most adverse conditions. **Details of the thermal cameras can be found on page 33.**



Night shot without thermal technology



Night shot with thermal technology

FARSIGHTED WATCHMAN

Ultra-large surveillance area and max. image detail at long distance. Thanks to telephoto lens with up to 118 mm focal length, 25x optical zoom and IR LEDs with up to 200 m range. **Details of the telephoto motorised zoom camera can be found on page 48.**

Shot without telephoto lens

Shot with telephoto lens

BLACK AS THE NIGHT

All cats grey at night? Not when using a Gecko camera. Both these Special models and the affordable Mini Domes from the Basic Line are now available in elegant matt black. For façades and rooms where only black really brings colour into play. **All details on the Black Line models can be found on page 35.**

VIDEO IP OVERVIEW

IPCB44611A + **TVAC32420X**

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

Example mount: Mini Dome Wall Mount, black

IP CAMERA

IPC	B	4	4	6	1	1	A
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 Mini Dome 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

TVAC	32	4	0	0	X
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 Mini Dome 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

OVERVIEW IP CAMERAS

ADVANCED

ADVANCED

	IPCA54581B	IPCA64581D
	Thermal Dome Bi-Spectral 4MPx (3.6 / 4.3 mm)	**Thermal Tube Bi-Spectral 4MPx (9.7 / 8 mm)**
Image sensor (Thermal)	Vanadium Oxid Uncooled Focal Plane Arrays	Vanadium Oxid Uncooled Focal Plane Arrays
Focal length (Thermal)	3,6 mm	9,7 mm
Horizontal angle of view (Thermal)	50°	18°
Temperature measurement	21 measuring rules (10 measuring points, 10 measuring ranges, 1 measuring line)	21 measuring rules (10 measuring points, 10 measuring ranges, 1 measuring line)
Video Content Analysis (VCA)	Thermal: 8 VCA rules (instrusion, tripwire, range input, range output), object classification person/vehicle	Thermal: 8 VCA rules (instrusion, tripwire, range input, range output), object classification person/vehicle
Temperature measurement range (1 x 1 m / 0,2 x 0,2 m)	58 meters / 12 meters	160 meters / 32 meters
VCA range (human / vehicle)	28 meters / 76 meters	80 meters / 200 meters
Resolution (Thermal)	256 x 192	256 x 192
Image sensor	1/2.7" Progressive Scan CMOS	1/2.7" Progressive Scan CMOS
Horizontal angle of view	84°	39,5°
Lens	Fix	Fix
Focal length	4,3 mm	8 mm
ICR day/night function	✓	✓
Minimum illumination (color)	0,01 lx	0,01 lx
IR range (up to)	15 m	30 m
Backlight compensation	WDR, BLC	WDR, BLC
Image enhancement	WDR, BLC, 3D DNR	WDR, BLC, 3D DNR
Video compression	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
Storage medium	microSD card (32 GB preinstalled, max. 256 GB)	microSD card (32 GB preinstalled, max. 256 GB)
Audio	2-way audio	2-way audio
Alarm input (NO/NC)	1	2
Alarmausgang	1	2
IK protection class	-	-
IP protection class	66	67
Compatible with Secvest	✗	✗
Compatible with Secoris	✗	✗
Compatible with wAppLoxx	✗	✗
Compatible with wAppLoxx Pro	✗	✗
Compatible with ABUS Link Station	✓	✓
PoE Standard	IEEE 802,3af	IEEE 802,3af

BASIC

BASIC

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

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

	IPCB74521	IPCB78521
	IP Dome 4 MPx (2.8–12 mm)	**IP Dome 8 MPx (2.8 - 12mm)**
Resolution	4 MPx	8 MPx
Image sensor	1/2.7" Progressive Scan CMOS	1/1.8" Progressive Scan CMOS
Horizontal angle of view	30 – 108°	45 – 108°
Motorzoom	Motor-Zoom	Motor-Zoom
Focal length	2,8 – 12,0 mm	2,8 – 12,0 mm
Aperture at minimum illumination (color)	F1,4	F1,4
ICR day/night function	✓	✓
Minimum illumination (color)	0.003 lx	0.003 lx
Minimum illumination (IR)	0 lx	0 lx
IR range (up to)	40 m	40 m
Backlight compensation	WDR, BLC, HLC	WDR, BLC, HLC
Image enhancement	WDR, BLC, HLC, 3D DNR, Vertical Display	WDR, BLC, HLC, 3D DNR, Vertical Display
Video Content Analysis (VCA)	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
Functions	Scene Change Detection, Region of Interest	Scene Change Detection, Region of Interest
Video compression	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
Storage medium	microSD card, 256 GB (opt.)	microSD card, 256 GB (opt.)
Audio	2-way audio	2-way audio
Alarm input (NO/NC)	1	1
Alarm output	1	1
IK protection class	10	10
IP protection class	67	67
Compatible with Secoris	✓	✓
Compatible with Secvest	✓	✓
Compatible with wAppLoxx	✓	✓
Compatible with wAppLoxx Pro	✓	✓
Compatible with ABUS Link Station	✓	✓
PoE Standard	IEEE 802.3af	IEEE 802.3af

BASIC

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white	IPCB34511A	IPCB34511B	IPCB38511A	IPCB38511B
black	IPCB34611A			
	IP Mini Tube 4 MPx (2.8 mm)	IP Mini Tube 4 MPx (4mm)	IP Mini Tube 8 MPx (4K, 2.8 mm)	IP Mini Tube 8 MPx (4K, 4mm)
Resolution	4 MPx	4 MPx	8 MPx	8 MPx
Image sensor	1/2.7" Progressive Scan CMOS	1/2.7" Progressive Scan CMOS	1/1.8" Progressive Scan CMOS	1/1.8" Progressive Scan CMOS
Horizontal angle of view	103°	83°	102°	78°
Lens	Fix	Fix	Fix	Fix
Focal length	2,8 mm	4 mm	2,8 mm	4 mm
Aperture at minimum illumination (color)	F1,4	F1,4	F1,4	F1,4
ICR day/night function	✓	✓	✓	✓
Minimum illumination (color)	0.003 lx	0.003 lx	0.003 lx	0.003 lx
Minimum illumination (IR)	0 lx	0 lx	0 lx	0 lx
IR range (up to)	30 m	30 m	30 m	30 m
Backlight compensation	WDR, BLC, HLC	WDR, BLC, HLC	WDR, BLC, HLC	WDR, BLC, HLC
Image enhancement	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
Video Content Analysis (VCA)	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
Functions	Scene Change Detection, Region of Interest	Scene Change Detection, Region of Interest	Scene Change Detection, Region of Interest	Scene Change Detection, Region of Interest
Video compression	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
Storage medium	microSD card, 256 GB (opt.)	microSD card, 256 GB (opt.)	microSD card, 256 GB (opt.)	microSD card, 256 GB (opt.)
Audio	-	-	-	-
Alarm input (NO/NC)	-	-	-	-
Alarm output	-	-	-	-
IK protection class	-	-	-	-
IP protection class	67	67	67	67
Compatible with Secoris	✓	✓	✓	✓
Compatible with Secvest	✓	✓	✓	✓
Compatible with wAppLoxx	✓	✓	✓	✓
Compatible with wAppLoxx Pro	✓	✓	✓	✓
Compatible with ABUS Link Station	✓	✓	✓	✓
PoE Standard	IEEE 802.3af	IEEE 802.3af	IEEE 802.3af	IEEE 802.3af

BASIC

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white	IPCB64521	IPCB68521
black	IPCB64621	IPCB68621
	IP Tube 4 MPx (2.8–12 mm)	IP Tube 8 MPx (2.8 - 12mm)
Resolution	4 MPx	8 MPx
Image sensor	1/2.7" Progressive Scan CMOS	1/1.8" Progressive Scan CMOS
Horizontal angle of view	30 – 108°	46 – 108°
Lens	Motor-Zoom	Motor-Zoom
Focal length	2,8 – 12,0 mm	2,8 – 12,0 mm
Aperture at minimum illumination (color)	F1,4	F1,4
ICR day/night function	✓	✓
Minimum illumination (color)	0.003 lx	0.003 lx
Minimum illumination (IR)	0 lx	0 lx
IR range (up to)	60 m	60 m
Backlight compensation	WDR, BLC, HLC	WDR, BLC, HLC
Image enhancement	WDR, BLC, HLC, 3D DNR, Vertical Display	WDR, BLC, HLC, 3D DNR, Vertical Display
Video Content Analysis (VCA)	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
Functions	Scene Change Detection, Region of Interest	Scene Change Detection, Region of Interest
Video compression	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
Storage medium	microSD card, 256 GB (opt.)	microSD card, 256 GB (opt.)
Audio	2-way audio	2-way audio
Alarm input (NO/NC)	1	1
Alarm output	1	1
IK protection class	10	10
IP protection class	67	67
Compatible with Secoris	✓	✓
Compatible with Secvest	✓	✓
Compatible with wAppLoxx	✓	✓
Compatible with wAppLoxx Pro	✓	✓
Compatible with ABUS Link Station	✓	✓
PoE Standard	IEEE 802.3at	IEEE 802.3at

white	IPCS54511A	IPCS54511B	IPCS34511A	IPCS34511B
black	IPCS54611A		IPCS34611A	
	IP Ball Dome 4 MPx (2.8 mm, WL)	IP Ball Dome 4 MPx (4 mm, WL)	IP Mini Tube 4 MPx (2.8 mm, WL)	IP Mini Tube 4 MPx (4 mm, WL)
Resolution	4 MP	4 MP	4 MP	4 MP
Image sensor	1/1.8" Progressive Scan CMOS	1/1.8" Progressive Scan CMOS	1/1.8" Progressive Scan CMOS	1/1.8" Progressive Scan CMOS
Horizontal angle of view	108°	95°	108°	95°
Lens	Fix	Fix	Fix	Fix
Focal length	2,8 mm	4 mm	2,8 mm	4 mm
Aperture at minimum illumination (color)	F1.0	F1.0	F1.0	F1.0
ICR day/night function	✗	✗	✗	✗
Minimum illumination (color)	0.0005 lx	0.0005 lx	0.0005 lx	0.0005 lx
White light LEDs (up to)	30 m	30 m	30 m	30 m
Backlight compensation	WDR, BLC, HLC	WDR, BLC, HLC	WDR, BLC, HLC	WDR, BLC, HLC
Image enhancement	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)
Video Content Analysis (VCA)	Tripwire Detection, Intrusion Detection, Region Entrance, Region Exit	Tripwire Detection, Intrusion Detection, Region Entrance, Region Exit	Tripwire Detection, Intrusion Detection, Region Entrance, Region Exit	Tripwire Detection, Intrusion Detection, Region Entrance, Region Exit
Functions	Scene Change Detection, Region of Interest	Scene Change Detection, Region of Interest	Scene Change Detection, Region of Interest	Scene Change Detection, Region of Interest
Video compression	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
Storage medium	microSD card, 256 GB (opt.)	microSD card, 256 GB (opt.)	microSD card, 256 GB (opt.)	microSD card, 256 GB (opt.)
Audio	Microphone	Microphone	Microphone	Microphone
Alarm input (NO/NC)	-	-	-	-
Alarmausgang	-	-	-	-
IK protection class	-	-	-	-
IP protection class	67	67	67	67
Compatible with Secoris	✓	✓	✓	✓
Compatible with Secvest	✓	✓	✓	✓
Compatible with wAppLoxx	✓	✓	✓	✓
Compatible with wAppLoxx Pro	✓	✓	✓	✓
Compatible with ABUS Link Station	✓	✓	✓	✓
PoE Standard	IEEE 802.3af	IEEE 802.3af	IEEE 802.3af	IEEE 802.3af

white	IPCS64511A	IPCS64511B	IPCS58571A
black	IPCS64611A		
	IP Tube 4 MPx (2.8 mm, WL)	IP Tube 4 MPx (4 mm, WL)	IP Ball Dome 8 MPx (2.8 mm) with 2-WAY Audio & Alarm
Resolution	4 MP	4 MP	8 MP
Image sensor	1/1.8" Progressive Scan CMOS	1/1.8" Progressive Scan CMOS	1/1,8" Progressive Scan CMOS
Horizontal angle of view	108°	95°	110
Lens	Fix	Fix	Fix
Focal length	2,8 mm	4 mm	2,8 mm
Aperture at minimum illumination (color)	F1.0	F1.0	F1.6
ICR day/night function	✗	✗	✓
Minimum illumination (color)	0.0005 lx	0.0005 lx	0.003 lx
Minimum illumination (IR)	-	-	0 lx
IR range (up to)	-	-	30 m
White light LEDs (up to)	50 m	50 m	-
Backlight compensation	WDR, BLC, HLC	WDR, BLC, HLC	WDR, BLC, HLC
Image enhancement	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)
Video Content Analysis (VCA)	Tripwire Detection, Intrusion Detection, Region Entrance, Region Exit	Tripwire Detection, Intrusion Detection, Region Entrance, Region Exit	Tripwire Detection, Intrusion Detection, Region Entrance, Region Exit
Functions	Scene Change Detection, Region of Interest	Scene Change Detection, Region of Interest	Scene Change Detection, Region of Interest
Video compression	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)
Storage medium	microSD card, 256 GB (opt.)	microSD card, 256 GB (opt.)	microSD card, 256 GB (opt.)
Audio	-	-	-
Alarm input (NO/NC)	-	-	1
Alarmausgang	-	-	1
IK protection class	-	-	-
IP protection class	67	67	67
Compatible with Secvest	✓	✓	✓
Compatible with wAppLoxx	✓	✓	✓
Compatible with wAppLoxx Pro	✓	✓	✓
Compatible with ABUS Link Station	✓	✓	✓
Compatible with Secoris	✓	✓	✓
PoE Standard	IEEE 802.3af	IEEE 802.3af	IEEE 802.3af

SPECIAL

from Winter 2022

SPECIAL

from Winter 2022

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	IPCS24510	IPCS64531	IPCS64541
	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)
Resolution	12 MPx	4 MPx	4 MPx
Image sensor	1/1.7" Progressive Scan CMOS	1/1.8" Progressive Scan CMOS	1/1.8" Progressive Scan CMOS
Horizontal angle of view	180°	42 – 114	2,8 – 56
Lens	Fix	Motor-Zoom, Autofokus	Motor-Zoom, Autofokus
Focal length	1,29 mm	2,8 – 12,0 mm	4,8 – 118,0 mm
Aperture at minimum illumination (color)	1,2	F1.2 – F2.5	F1.6 – F3.8
ICR day/night function	✓	✓	✓
Minimum illumination (color)	0.015 lx	0.0005 lx	0.01 lx
Minimum illumination (IR)	0 lx	0 lx	0 lx
IR range (up to)	15 m	50 m	200 m
Backlight compensation	DWDR	WDR, BLC, HLC	WDR, BLC, HLC
Image enhancement	DWDR, BLC, HLC, 3D-DNR	WDR, BLC, HLC, 3D DNR, EIS Electr. Image Stabilizer	WDR, BLC, HLC, 3D DNR, EIS Electr. Image Stabilizer
Video Content Analysis (VCA)	Tripwire, Intrusion Detection, Region Enter, 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)
Functions	Heat map, object direction analysis	ANPR - Automatic Number Plate Recognition (Europe, max. 70 km/h)	Tele-Motorzoom 4,7 - 118 mm
Video compression	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
Storage medium	microSD (128 GB)	microSD card, 256 GB (opt.)	microSD card, 256 GB (opt.)
Audio	✓	2-way audio	2-way audio
Alarm input (NO/NC)	-	2	2
Alarmausgang	-	2	2
IK protection class	10	10	10
IP protection class	67	67	67
Compatible with Secoris	✗	✗	✗
Compatible with Secvest	✗	✗	✗
Compatible with wAppLoxx	✗	✗	✗
Compatible with wAppLoxx Pro	-	✗	✗
Compatible with ABUS Link Station	✗	✓	✓
PoE Standard	IEEE 802.3at	IEEE 802.3at	IEEE 802.3at

SPECIAL

SPECIAL

SPECIAL

	IPCS84511	IPCS84531	IPCS84550
	IP Mini PTZ 4 MPx (4x)	IP PTZ 4 MPx (25x)	IP PTZ 4 MPx (32x)
Resolution	4 MPx	4 MPx	4 MPx
Image sensor	1/2.8" Progressive Scan CMOS	1/2.8" Progressive Scan CMOS	1/2.8" Progressive Scan CMOS
Horizontal angle of view	31,6 – 96,7°	2,5 – 53°	2,0 – 54,3°
Lens	Motor-Zoom	Motor-Zoom, Autofocus	Motor-Zoom, Autofocus
Focal length	2,8 – 12,0 mm	4,8 – 120 mm	4,8 – 153 mm
Aperture at minimum illumination (color)	F1.6 – F2.7	F1.6 – F3.5	F1.2 – F4.4
ICR day/night function	✓	✓	✓
Minimum illumination (color)	0.005 lx	0.005 lx	0.005 lx
Minimum illumination (IR)	0 lx	0 lx	0 lx
IR range (up to)	20 m	50 m	150 m
Backlight compensation	WDR	WDR	WDR
Image enhancement	-	-	-
Video Content Analysis (VCA)	Tripwire, Intrusion Detection, Region Enter, Region Exit	Tripwire, Intrusion Detection, Region Enter, Region Exit	Tripwire, Intrusion Detection, Region Enter, Region Exit
Functions	-	Smart Tracking	Smart Tracking
Video compression	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
Storage medium	microSD card, 256 GB (option)	microSD card, 256 GB (option)	microSD card, 256 GB (option)
Audio	2-way audio	2-way audio	2-Way Audio
Alarm input (NO/NC)	-	2	2
Alarm output	-	2	1
IK protection class	10	10	-
IP protection class	66	66	66
Compatible with Secoris	✓	✓	✓
Compatible with Secvest	✓	✓	✓
Compatible with wAppLoxx	✓	✓	✓
Compatible with wAppLoxx Pro	✓	✓	✓
Compatible with ABUS Link Station	✓	✓	✓
PoE Standard	IEEE 802.3af	IEEE 802.3at	IEEE 802.3bt

OVERVIEW OF CAMERA ACCESSORIES

Mini Dome (white)
IPCB44511A
IPCB44511B
IPCB44561A

TVAC32400
Junction Box

TVAC32420
Wall Mount

TVAC32410
Junction Box for Wall Mount

Ball Dome (white)
IPCB54511A
IPCB54511B
IPCB58511A
IPCB58511B
IPCS58571A
IPCS54511A
IPCS54511B

TVAC32500
Junction Box

TVAC32520
Wall Mount

TVAC32020
Junction Box for Wall Mount

TVAC32520
Wall Mount

TVAC32000
Pole Mount

TVAC32520
Wall Mount

TVAC32010
Corner Mount

Mini Dome (black)
IPCB44611A
IPCB44611B

TVAC32400X
Junction Box (black)

TVAC32420X
Wall Mount (black)

TVAC32410X
Junction Box for Wall Mount (black)

Ball Dome (black)
IPCB54611B
IPCB58611A
IPCS54611A

TVAC32500X
Junction Box (black)

TVAC32520X
Wall Mount (black)

TVAC32020X
Junction Box for Wall Mount (black)

TVAC32520X
Wall Mount (black)

TVAC32000X
Pole Mount (black)

Dome
IPCB74521
IPCB78521

TVAC32700
Junction Box

TVAC32730
Flush Mount

TVAC32720
Wall Mount

TVAC32020
Junction Box for Wall Mount

TVAC32720
Wall Mount

TVAC32000
Pole Mount

TVAC32720
Wall Mount

TVAC32010
Corner Mount

Mini Tube
IPCB34511A
IPCB34511B
IPCB38511A
IPCB38511B

TVAC32300
Junction Box small

TVAC32600
Junction Box big

Mini Tube (schwarz)
IPCB34611A
IPCS34611A

TVAC32600X
Junction Box (black)

TVAC32600X
Junction Box (black)

TVAC32000X
Pole Mount (black)

Tube (white)
IPCB64521
IPCB68521
IPCS64511A
IPCS64511B

TVAC32600
Junction Box

TVAC32600
Junction Box

TVAC32000
Pole Mount

TVAC32600
Junction Box

TVAC32010
Corner Mount

Tube (black)
IPCB68621
IPCB64621
IPCS64611A

TVAC32600X
Junction Box (black)

TVAC32600X
Junction Box (black)

TVAC32000X
Pole Mount (black)

Midi (Mini) Tube
IPCS34511A
IPCS34511B

TVAC32600
Junction Box

Tube
IPCS62131

Number Plate Recognition

TVAC31382
Pole Mount

Hemispheric
IPCS24510

TVAC31280
Junction Box

TVAC31290
Junction Box
with Ceiling Bracket

Mini PTZ
IPCS84511

TVAC31215
Wall Mount

TVAC31285
Ceiling Mount

PTZ
IPCS84531

TVAC31275
Ceiling Mount Frame

TVAC31245
Junction Box

TVAC31205
Wall Mount

TVAC31205
Wall Mount

TVAC31235
Corner Mount

PTZ
IPCS84550

TVAC31201
Long Wall Mount

TVAC31221
Pole Mount
incl. Long Wall Mount

TVAC31231
Corner Mount
incl. Long Wall Mount

TVAC31241
Junction Box
incl. Long Wall Mount

TVAC31250
Ceiling Mount
5,7 cm

TVAC31260
Ceiling Mount
20 cm

TVAC31270
Ceiling Mount
50 cm

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 message 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, service staff 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 safety: 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). As well as in night and fog and 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
- Optimal 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)
- Extra chic and suitable for special façades or room designs: further Black Line models in classic anthracite black

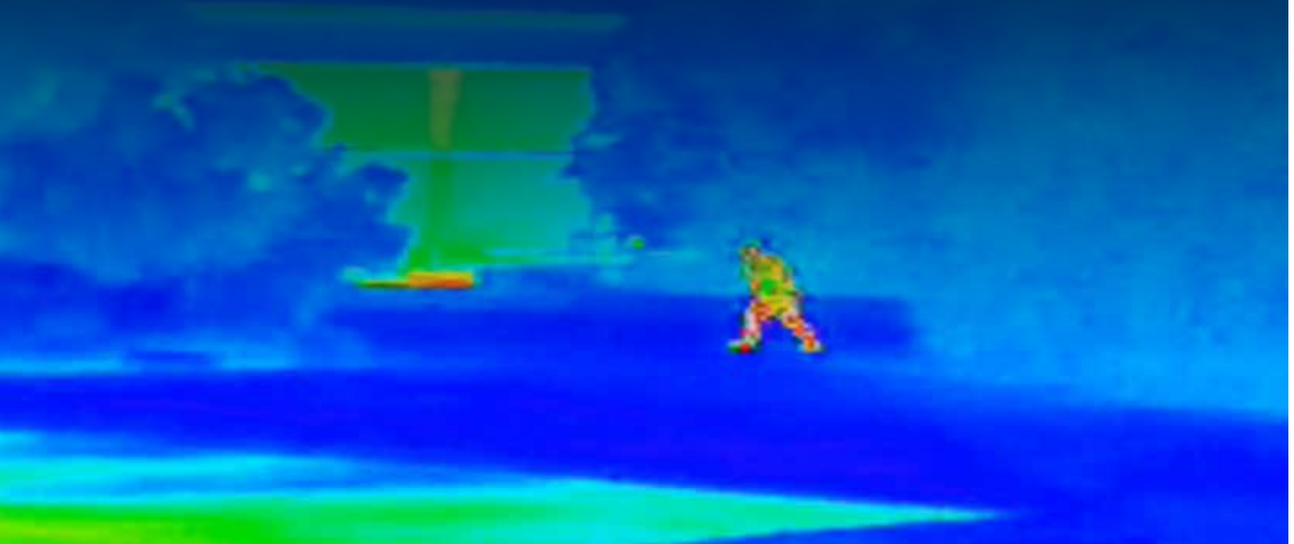
THERMAL CAMERAS WITH HEAT IMAGE SENSOR

HIGH-PRECISION ALARM UNDER THE MOST ADVERSE CONDITIONS

Thermal imaging cameras complement optical cameras in perimeter protection, i.e. the protection of areas from intruders. ABUS thermal security cameras are equipped with state-of-the-art technologies especially for outdoor use. Thanks to dual-sensor (bi-spectral technology), they have a thermal image sensor and additional optical image sensor with high resolution to provide the best image in every situation. In addition, the cameras can perform tasks such as temperature measurement or early fire detection in designated areas as well as indoors.

FUNCTION AND ADVANTAGES

- High-sensitivity thermal image sensor: All objects (including living beings) emit invisible infrared radiation. The warmer the object, the higher its IR radiation. A thermal image with visible heat zones is generated from the radiation differences of the objects.
- High alarm accuracy: ABUS thermal cameras sound the alarm via precise, AI-supported VCA analysis. Intelligent object detection distinguishes people and vehicles from other influences and minimises the false alarms triggered, for example, by the camera shaking, leaves in the wind, etc.
- Best pictures around the clock: Thermal images provide clear details in almost all light, weather and environmental conditions such as light intensity, contrast, shadows, fog, etc. People and vehicles are reliably classified - even when they overlap, such as a person in front of a car, hidden by bushes or in a group.
- Large monitoring area: Humans and vehicles can be detected from a distance of up to 80 m or 200 m. Thus, a few thermal cameras are sufficient to monitor a wide area.
- Temperature measurement and early fire detection: Thermal cameras see heat and thus fluctuations in the maximum or average temperature in their field of view. Like optical thermal differential detectors, they detect unwanted heat development (e.g. in a hazardous goods warehouse, production process, at an e-filling station in a multi-storey car park), pockets of embers (e.g. at a landfill site) and other signs of an incipient fire.



Item number	IPCA54581B	IPCA64581D
Description	**Thermal Dome Bi-Spectral 4MPx (3.6 / 4.3 mm)**	**Thermal Tube Bi-Spectral 4MPx (9.7 / 8 mm)**
	• Thermal camera with bi-spectral technology: Thermal imaging camera and optical camera in one system thanks to thermal and optical image sensor (dual sensor) • Resolution thermal: 256 x 192 pixels to detect the natural heat radiation emitted by all objects and living creatures and localise specific heat sources • 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	• Thermal camera with bi-spectral technology: Thermal imaging camera and optical camera in one system thanks to thermal and optical image sensor (dual sensor) • Resolution thermal: 256 x 192 pixels to detect the natural heat radiation emitted by all objects and living creatures and localise specific heat sources • 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
Image sensor (Thermal)	Vanadium Oxid Uncooled Focal Plane Arrays	Vanadium Oxid Uncooled Focal Plane Arrays
Resolution (Thermal)	256 x 192	256 x 192
Resolution modes (Thermal)	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
Focal length (Thermal)	3,6 mm	9,7 mm
Horizontal angle of view (Thermal)	50°	18°
Vertical angle of view (Thermal)	37°	13,5°
Pixel pitch	12 µm	12 µm
Spectral range	8 – 14 µm	8 – 14 µm
NETD	< 40 mK (25°C, F1,1)	< 40 mK (25°C, F1,1)
Min. focus distance (Thermal)	0,4 m	3,5 m
Temperature measurement	21 measuring rules (10 measuring points, 10 measuring ranges, 1 measuring line)	21 measuring rules (10 measuring points, 10 measuring ranges, 1 measuring line)
Temperature measuring range	8 – 14° C	8 – 14° C
Temperature accuracy	-20 – 150° C	-20 – 150° C
Temperature measurement range (1 x 1 m / 0,2 x 0,2 m)	58 meters / 12 meters	160 meters / 32 meters
VCA range (human / vehicle)	28 meters / 76 meters	80 meters / 200 meters
Image sensor	1/2.7" Progressive Scan CMOS	1/2.7" Progressive Scan CMOS
Resolution modes	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
Lens	Fix	Fix
Focal length	4,3 mm	8 mm
Minimum illumination (color)	0,01 lx	0,01 lx
Horizontal angle	84°	39,5°
Minimum illumination (IR)	0 lx	0 lx
IR range (up to)	15 m	30 m
Video Content Analysis (VCA)	Thermal: 8 VCA rules (instrusion, tripwire, range input, range output), object classification person/vehicle	Thermal: 8 VCA rules (instrusion, tripwire, range input, range output), object classification person/vehicle
Alarming	Flash, speaker, alarm output, e-mail, FTP	Flash, speaker, alarm output, e-mail, FTP
Audio	2-way audio	2-way audio
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 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
Storage medium	microSD card (32 GB preinstalled, max. 256 GB)	microSD card (32 GB preinstalled, max. 256 GB)
DC voltage supply	12 (+/-25 %) V	12 (+/-25 %) V
Power consumption	550 mA	700 mA
PoE Standard	IEEE 802,3af	IEEE 802,3af
IP protection class	66	67
Min. operating temperature	-40° C	-40° C
Max. operating temperature	65° C	65° C
Compatible with ABUS Link Station	Yes	Yes
Max. resolution @ frame rate	2688 x 1520 @ 25 fps	2688 x 1520 @ 25 fps
Dimensions (W × H × D)	139 × 128 × 139 mm	106 × 107 × 321 mm
Scope of delivery	Thermal Dome Bi-spectral • Quickstart manual • Safety Information	Thermal Tube Bi-spectral • Quickstart manual • Safety Information

IP CAMERAS BASIC

Item number	IPCB44511A	IPCB44511B	IPCB44561A
Description	**IP Mini Dome 4 MPx (2.8 mm)**	**IP Mini Dome 4 MPx (4mm)**	**IP Mini Dome Wi-Fi 4 MPx (2.8mm)**
	• 4 Mpx resolution: 2,688 x 1,520 @ 25 fps • 2.8 mm fixed lens (103° angle of view) • 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.)	• 4 Mpx resolution: 2,688 x 1,520 @ 25 fps • 4 mm fixed lens (83° angle of view) • 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.)	• 4 Mpx resolution: 2,688 x 1,520 @ 25 fps • 2.8 mm fixed lens (103° angle of view) • 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.)
Resolution modes	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
Image sensor	1/2.7" Progressive Scan CMOS	1/2.7" Progressive Scan CMOS	1/2.7" Progressive Scan CMOS
Lens	Fix	Fix	Fix
Focal length	2,8 mm	4 mm	2,8 mm
Horizontal angle of view	103°	83°	103°
Optical zoom	-	-	-
Minimum illumination (color)	0.003 lx	0.003 lx	0.003 lx
Minimum illumination (IR)	0 lx	0 lx	0 lx
IR range (up to)	20 m	20 m	20 m
Video compression	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
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	Object recognition (human & vehicle) at Tripwire Detection, Intrusion Detection, Region Entrance, Region Exit
Image enhancement	WDR, BLC, HLC, 3D DNR, Vertical Display	WDR, BLC, HLC, 3D DNR, Vertical Display	WDR, BLC, HLC, 3D DNR, Vertical Display
Encryption	HTTPS, TLS 1.1/1.2	HTTPS, TLS 1.1/1.2	HTTPS, TLS 1.1/1.2
Alarming	E-Mail, NAS, FTP	E-Mail, NAS, FTP	E-Mail, NAS, FTP, Sound
Audio	Microphone	Microphone	1 x Microphone, 1 x Audio out
Connections	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
Storage medium	microSD card, 256 GB (opt.)	microSD card, 256 GB (opt.)	microSD card, 256 GB (opt.)
DC voltage supply	12 (+/-25 %) V	12 (+/-25 %) V	12 (+/-25 %) V
AC voltage supply	-	-	-
Power consumption	650 mA	650 mA	650 mA
PoE Standard	IEEE 802.3af	IEEE 802.3af	IEEE 802.3af
IP protection class	67	67	67
IK protection class	8	8	8
Min. operating temperature	-25° C	-25° C	-25° C
Max. operating temperature	60° C	60° C	60° C
Compatible with Secoris	Yes	Yes	Yes
Compatible with Secvest	Yes	Yes	Yes
Compatible with wAppLoxx	Yes	Yes	Yes
Compatible with wAppLoxx Pro	Yes	Yes	Yes
Compatible with ABUS Link Station	Yes	Yes	Yes
Max. resolution @ frame rate	2688 x 1520 @ 30 fps	2688 x 1520 @ 30 fps	2688 x 1520 @ 30 fps
Dimensions (W × H × D)	109 × 58 × 109 mm	109 × 58 × 109 mm	109 × 58 × 109 mm
Scope of delivery	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	IPCB44611A	IPCB44611B
Description	**IP Mini Dome 4 MPx Black (2.8mm)**	**IP Mini Dome 4 MPx Black (4mm)**
	• 4 Mpx resolution: 2,688 x 1,520 @ 25 fps • 2.8 mm fixed lens (103° angle of view) • Ultra low-light performance for excellent image results in poorly lit environments • Object recognition (human & vehicle): Motion detection with fully automatic differentiation between people/vehicles and disturbances (branches, light, etc.) • 120 dB WDR function to compensate for image contrasts, strong backlighting etc. • Vandalism- and weatherproof housing (IK08 & IP66); colour: black • IR LEDs for very clear night vision (up to 20 m range), without coupling effect thanks to externally located LEDs (no disturbing reflections)	• 4 Mpx resolution: 2,688 x 1,520 @ 25 fps • 4 mm fixed lens (83° angle of view) • Ultra low-light performance for excellent image results in poorly lit environments • Object recognition (human & vehicle): Motion detection with fully automatic differentiation between people/vehicles and disturbances (branches, light, etc.) • 120 dB WDR function to compensate for image contrasts, strong backlighting etc. • Vandalism- and weatherproof housing (IK08 & IP66); colour: black • IR LEDs for very clear night vision (up to 20 m range), without coupling effect thanks to externally located LEDs (no disturbing reflections)
Resolution modes	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
Image sensor	1/2.7" Progressive Scan CMOS	1/2.7" Progressive Scan CMOS
Lens	Fix	Fix
Focal length	2,8 mm	4 mm
Horizontal angle of view	103°	83°
Optical zoom	-	-
Minimum illumination (color)	0.003 lx	0.003 lx
Minimum illumination (IR)	0 lx	0 lx
IR range (up to)	20 m	20 m
Video compression	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
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	WDR, BLC, HLC, 3D DNR, Vertical Display
Encryption	HTTPS, TLS 1.1/1.2	HTTPS, TLS 1.1/1.2
Alarming	E-Mail, NAS, FTP	E-Mail, NAS, FTP
Audio	Microphone	Microphone
Connections	1 x RJ45, 1 x DC	1 x RJ45, 1 x DC
Storage medium	microSD card, 256 GB (opt.)	microSD card, 256 GB (opt.)
DC voltage supply	12 (+/-25 %) V	12 (+/-25 %) V
AC voltage supply	-	-
Power consumption	650 mA	650 mA
PoE Standard	IEEE 802.3af	IEEE 802.3af
IP protection class	67	67
IK protection class	8	8
Min. operating temperature	-25° C	-25° C
Max. operating temperature	60° C	60° C
Compatible with Secoris	Yes	Yes
Compatible with Secvest	Yes	Yes
Compatible with wAppLoxx	Yes	Yes
Compatible with wAppLoxx Pro	Yes	Yes
Compatible with ABUS Link Station	Yes	Yes
Max. resolution @ frame rate	2688 x 1520 @ 30 fps	2688 x 1520 @ 30 fps
Dimensions (W × H × D)	109 × 58 × 109 mm	109 × 58 × 109 mm
Scope of delivery	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	IPCB54511A	IPCB54511B	IPCB58511A
Description	**IP Ball Dome 4 MPx (2.8mm)**	**IP Ball Dome 4 MPx (4mm)**	**IP Ball Dome 8 MPx (2.8mm)**
	• 4 Mpx resolution: 2,688 x 1,520 @ 25 fps • 2.8 mm fixed lens (103° angle of view) • Ultra low-light performance for excellent image results in poorly lit environments • Object recognition (human & vehicle): Motion detection with fully automatic differentiation between people/vehicles and disturbances (branches, light, etc.) • 120 dB WDR function to compensate for image contrasts, strong backlighting etc. • Weatherproof housing (IP67)	• 4 Mpx resolution: 2,688 x 1,520 @ 25 fps • 4 mm fixed lens (83° angle of view) • Ultra low-light performance for excellent image results in poorly lit environments • Object recognition (human & vehicle): Motion detection with fully automatic differentiation between people/vehicles and disturbances (branches, light, etc.) • 120 dB WDR function to compensate for image contrasts, strong backlighting etc. • Weatherproof housing (IP67)	• 8 MPx (4K) resolution: 3.840 x 2,160 @ 20 fps for ultra-high resolution surveillance images • 2.8 mm fixed lens (102° angle of view) • 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.) • Weatherproof housing (IP67)
Resolution modes	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
Image sensor	1/2.7" Progressive Scan CMOS	1/2.7" Progressive Scan CMOS	1/1,8" Progressive Scan CMOS
Lens	Fix	Fix	Fix
Focal length	2,8 mm	4 mm	2,8 mm
Horizontal angle of view	103°	95°	110°
Optical zoom	-	-	-
Minimum illumination (color)	0.003 lx	0.003 lx	0.003 lx
Minimum illumination (IR)	0 lx	0 lx	0 lx
IR range (up to)	30 m	30 m	30 m
Video compression	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
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	Object recognition (human & vehicle) at Tripwire Detection, Intrusion Detection, Region Entrance, Region Exit
Image enhancement	WDR, BLC, HLC, 3D DNR, Vertical Display	WDR, BLC, HLC, 3D DNR, Vertical Display	WDR, BLC, HLC, 3D DNR, Vertical Display
Encryption	HTTPS, TLS 1.1/1.2	HTTPS, TLS 1.1/1.2	HTTPS, TLS 1.1/1.2
Alarming	E-Mail, NAS, FTP	E-Mail, NAS, FTP	E-Mail, NAS, FTP
Audio	-	-	-
Connections	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)
Storage medium	microSD card, 256 GB (opt.)	microSD card, 256 GB (opt.)	microSD card, 256 GB (opt.)
DC voltage supply	12 (+/-25 %) V	12 (+/-25 %) V	12 (+/-25 %) V
AC voltage supply	-	-	-
Power consumption	600 mA	600 mA	600 mA
PoE Standard	IEEE 802.3af	IEEE 802.3af	IEEE 802.3af
IP protection class	67	67	67
IK protection class	-	-	-
Min. operating temperature	-25° C	-25° C	-25° C
Max. operating temperature	60° C	60° C	60° C
Compatible with Secoris	Yes	Yes	Yes
Compatible with Secvest	Yes	Yes	Yes
Compatible with wAppLoxx	Yes	Yes	Yes
Compatible with wAppLoxx Pro	Yes	Yes	Yes
Compatible with ABUS Link Station	Yes	Yes	Yes
Max. resolution @ frame rate	2688 x 1520 @ 30 fps	2688 x 1520 @ 30 fps	3840 x 2160 @ 20 fps
Dimensions (W × H × D)	139 × 128 × 139 mm	139 × 128 × 139 mm	139 × 128 × 139 mm
Scope of delivery	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
Description	**IP Ball Dome 8 MPx (4mm)**	**IP Ball Dome 4 MPx Black (4mm)**	**IP Ball Dome 8 MPx Black (2.8mm)**
	• 8 MPx (4K) resolution: 3.840 x 2,160 @ 20 fps for ultra-high resolution surveillance images • 4 mm fixed lens (82° angle of view) • 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.) • Weatherproof housing (IP67)	• 4 Mpx resolution: 2,688 x 1,520 @ 25 fps • 4 mm fixed lens (83° angle of view) • Ultra low-light performance for excellent image results in poorly lit environments • Object recognition (human & vehicle): Motion detection with fully automatic differentiation between people/vehicles and disturbances (branches, light, etc.) • 120 dB WDR function to compensate for image contrasts, strong backlighting etc. • Weatherproof housing (IP67); colour: black	• 8 MPx (4K) resolution: 3.840 x 2,160 @ 20 fps for ultra-high resolution surveillance images • 2.8 mm fixed lens (102° angle of view) • 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.) • Weatherproof housing (IP67), colour: black
Resolution modes	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 @ 25 fps
Image sensor	1/1,8" Progressive Scan CMOS	1/2.7" Progressive Scan CMOS	1/1,8" Progressive Scan CMOS
Lens	Fix	Fix	Fix
Focal length	4 mm	4 mm	2,8 mm
Horizontal angle of view	87°	83°	110°
Optical zoom	-	-	-
Minimum illumination (color)	0.003 lx	0.003 lx	0.003 lx
Minimum illumination (IR)	0 lx	0 lx	0 lx
IR range (up to)	30 m	30 m	30 m
Video compression	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
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	Object recognition (human & vehicle) at Tripwire Detection, Intrusion Detection, Region Entrance, Region Exit
Image enhancement	WDR, BLC, HLC, 3D DNR, Vertical Display	WDR, BLC, HLC, 3D DNR, Vertical Display	WDR, BLC, HLC, 3D DNR, Vertical Display
Encryption	HTTPS, TLS 1.1/1.2	HTTPS, TLS 1.1/1.2	HTTPS, TLS 1.1/1.2
Alarming	E-Mail, NAS, FTP	E-Mail, NAS, FTP	E-Mail, NAS, FTP
Audio	-	-	-
Connections	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)
Storage medium	microSD card, 256 GB (opt.)	microSD card, 256 GB (opt.)	microSD card, 256 GB (opt.)
DC voltage supply	12 (+/-25 %) V	12 (+/-25 %) V	12 (+/-25 %) V
AC voltage supply	-	-	-
Power consumption	600 mA	600 mA	600 mA
PoE Standard	IEEE 802.3af	IEEE 802.3af	IEEE 802.3af
IP protection class	67	67	67
IK protection class	-	-	-
Min. operating temperature	-25° C	-25° C	-25° C
Max. operating temperature	60° C	60° C	60° C
Compatible with Secoris	Yes	Yes	Yes
Compatible with Secvest	Yes	Yes	Yes
Compatible with wAppLoxx	Yes	Yes	Yes
Compatible with wAppLoxx Pro	Yes	Yes	Yes
Compatible with ABUS Link Station	Yes	Yes	Yes
Max. resolution @ frame rate	3840 x 2160 @ 20 fps	2688 x 1520 @ 30 fps	3840 x 2160 @ 20 fps
Dimensions (W × H × D)	139 × 128 × 139 mm	139 × 128 × 139 mm	139 × 128 × 139 mm
Scope of delivery	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

BASIC

Item number	IPCB74521	IPCB78521
Description	**IP Dome 4 MPx (2.8–12 mm)**	**IP Dome 8 MPx (2.8 - 12mm)**
	• 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 • 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), in discreet look with black covered components in the dome • IR LEDs for very clear night vision (up to 40 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 • 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), in discreet look with black covered components in the dome • IR LEDs for very clear night vision (up to 40 m range)
Resolution modes	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
Image sensor	1/2.7" Progressive Scan CMOS	1/1.8" Progressive Scan CMOS
Motorzoom	Motor-Zoom	Motor-Zoom
Focal length	2,8 – 12,0 mm	2,8 – 12,0 mm
Horizontal angle of view	30 – 108°	45 – 108°
Optical zoom	4,2 x	4,2 x
Minimum illumination (color)	0.003 lx	0.003 lx
Minimum illumination (IR)	0 lx	0 lx
IR range (up to)	40 m	40 m
Video compression	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
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	WDR, BLC, HLC, 3D DNR, Vertical Display
Encryption	HTTPS, TLS 1.1/1.2	HTTPS, TLS 1.1/1.2
Alarming	E-Mail, NAS, FTP, Sound	E-Mail, NAS, FTP, Sound
Audio	2-way audio	2-way audio
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
Storage medium	microSD card, 256 GB (opt.)	microSD card, 256 GB (opt.)
DC voltage supply	12 (+/-25 %) V	12 (+/-25 %) V
AC voltage supply	-	-
Power consumption	1100 mA	1100 mA
PoE Standard	IEEE 802.3af	IEEE 802.3af
IP protection class	67	67
IK protection class	10	10
Min. operating temperature	-25° C	-25° C
Max. operating temperature	60° C	60° C
Compatible with Secoris	Yes	Yes
Compatible with Secvest	Yes	Yes
Compatible with wAppLoxx	Yes	Yes
Compatible with wAppLoxx Pro	Yes	Yes
Compatible with ABUS Link Station	Yes	Yes
Max. resolution @ frame rate	2688 x 1520 @ 30 fps	3840 x 2160 @ 20 fps
Dimensions (W × H × D)	154 × 112 × 154 mm	154 × 112 × 154 mm
Scope of delivery	IP Dome 4 MPx (2.8 - 12 mm) • Quickstart manual • Safety Instructions	IP Dome 8 MPx (2.8 - 12 mm) • Quickstart manual • Safety Instructions

BASIC

BASIC

Item number	IPCB34511A	IPCB34511B	IPCB34611A
Description	**IP Mini Tube 4 MPx (2.8 mm)**	**IP Mini Tube 4 MPx (4mm)**	**IP Mini Tube 4 MPx Black (2.8 mm)**
	• 4 Mpx resolution: 2,688 x 1,520 @ 25 fps • 2.8 mm fixed lens (103° angle of view) • Ultra low-light performance for excellent image results in poorly lit environments • Object recognition (human & vehicle): Motion detection with fully automatic differentiation between people/vehicles and disturbances (branches, light, etc.) • 120 dB WDR function to compensate for image contrasts, strong backlighting etc.	• 4 Mpx resolution: 2,688 x 1,520 @ 25 fps • 4 mm fixed lens (83° angle of view) • Ultra low-light performance for excellent image results in poorly lit environments • Object recognition (human & vehicle): Motion detection with fully automatic differentiation between people/vehicles and disturbances (branches, light, etc.) • 120 dB WDR function to compensate for image contrasts, strong backlighting etc.	• 4 Mpx resolution: 2,688 x 1,520 @ 25 fps • 2.8 mm fixed lens (103° angle of view) • Ultra low-light performance for excellent image results in poorly lit environments • Object recognition (human & vehicle): Motion detection with fully automatic differentiation between people/vehicles and disturbances (branches, light, etc.) • 120 dB WDR function to compensate for image contrasts, strong backlighting etc. • Weatherproof housing (IP67); colour: black
Resolution modes	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)
Image sensor	1/2.7" Progressive Scan CMOS	1/2.7" Progressive Scan CMOS	1/2.7" Progressive Scan CMOS
Lens	Fix	Fix	Fix
Focal length	2,8 mm	4 mm	2,8 mm
Horizontal angle of view	103°	83°	103
Optical zoom	-	-	-
Minimum illumination (color)	0.003 lx	0.003 lx	0.003 lx
Minimum illumination (IR)	0 lx	0 lx	0 lx
IR range (up to)	30 m	30 m	30 m
Video compression	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)
Video Content Analysis (VCA)	Tripwire Detection, Intrusion Detection, Region Entrance, Region Exit	Tripwire Detection, Intrusion Detection, Region Entrance, Region Exit	Objet Classification Personne/Véhicule
Image enhancement	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)
Encryption	HTTPS, TLS 1.1/1.2	HTTPS, TLS 1.1/1.2	HTTPS, TLS 1.1/1.2
Alarming	E-Mail, NAS, FTP	E-Mail, NAS, FTP	E-Mail, App Push, FTP, CMS
Audio	-	-	-
Connections	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)
Storage medium	microSD card, 256 GB (opt.)	microSD card, 256 GB (opt.)	microSD card, 256 GB (opt.)
DC voltage supply	12 (+/-25 %) V	12 (+/-25 %) V	12 (+/-25 %) V
AC voltage supply	-	-	-
Power consumption	600 mA	600 mA	600 mA
PoE Standard	IEEE 802.3af	IEEE 802.3af	IEEE 802.3af
IP protection class	67	67	67
IK protection class	-	-	-
Min. operating temperature	-25° C	-25° C	-25° C
Max. operating temperature	60° C	60° C	60° C
Compatible with Secoris	Yes	Yes	Yes
Compatible with Secvest	Yes	Yes	Yes
Compatible with wAppLoxx	Yes	Yes	Yes
Compatible with wAppLoxx Pro	Yes	Yes	Yes
Compatible with ABUS Link Station	Yes	Yes	Yes
Max. resolution @ frame rate	2688 x 1520 @ 30 fps	2688 x 1520 @ 30 fps	2688 x 1520 @ 30 fps
Dimensions (W × H × D)	70 × 69 × 170 mm	70 × 69 × 170 mm	70 × 69 × 170 mm
Scope of delivery	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

BASIC

Item number	IPCB38511A	IPCB38511B
Description	**IP Mini Tube 8 MPx (4K, 2.8 mm)**	**IP Mini Tube 8 MPx (4K, 4mm)**
	• 8 MPx (4K) resolution: 3,840 x 2,160 @ 20 fps for brilliant surveillance images • 2.8 mm fixed lens (102° angle of view) • Ultra low-light performance for excellent image results in poorly lit environments • Object recognition (human & vehicle): Motion detection with fully automatic differentiation between people/ vehicles and disturbances (branches, light, etc.) • 120 dB WDR function to compensate for image contrasts, strong backlighting etc. • Weatherproof housing (IP67) • IR LEDs for very clear night vision (up to 30 m range) • Supports H.264, H.265, MJPEG (incl. Dynamic GOP) • MicroSD card slot for internal data storage • 12 V DC & PoE (802.3af)	• 8 MPx (4K) resolution: 3,840 x 2,160 @ 20 fps for brilliant surveillance images • 4 mm fixed lens (78° angle of view) • Ultra low-light performance for excellent image results in poorly lit environments • Object recognition (human & vehicle): Motion detection with fully automatic differentiation between people/ vehicles and disturbances (branches, light, etc.) • 120 dB WDR function to compensate for image contrasts, strong backlighting etc. • Weatherproof housing (IP67) • IR LEDs for very clear night vision (up to 30 m range) • Supports H.264, H.265, MJPEG (incl. Dynamic GOP) • MicroSD card slot for internal data storage • 12 V DC & PoE (802.3af)
Resolution modes	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
Image sensor	1/1.8" Progressive Scan CMOS	1/1.8" Progressive Scan CMOS
Lens	Fix	Fix
Focal length	2,8 mm	4 mm
Horizontal angle of view	102°	78°
Optical zoom	-	-
Minimum illumination (color)	0.003 lx	0.003 lx
Minimum illumination (IR)	0 lx	0 lx
IR range (up to)	30 m	30 m
Video compression	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
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	WDR, BLC, HLC, 3D DNR, Vertical Display
Encryption	HTTPS, TLS 1.1/1.2	HTTPS, TLS 1.1/1.2
Alarming	E-Mail, NAS, FTP	E-Mail, NAS, FTP
Audio	-	-
Connections	1 x RJ45, 1 x DC (Cable length 280 mm)	1 x RJ45, 1 x DC (Cable length 280 mm)
Storage medium	microSD card, 256 GB (opt.)	microSD card, 256 GB (opt.)
DC voltage supply	12 (+/-25 %) V	12 (+/-25 %) V
AC voltage supply	-	-
Power consumption	600 mA	600 mA
PoE Standard	IEEE 802.3af	IEEE 802.3af
IP protection class	67	67
IK protection class	-	-
Min. operating temperature	-25° C	-25° C
Max. operating temperature	60° C	60° C
Compatible with Secoris	Yes	Yes
Compatible with Secvest	Yes	Yes
Compatible with wAppLoxx	Yes	Yes
Compatible with wAppLoxx Pro	Yes	Yes
Compatible with ABUS Link Station	Yes	Yes
Max. resolution @ frame rate	3840 x 2160 @ 20 fps	3840 x 2160 @ 20 fps
Dimensions (W × H × D)	70 × 69 × 170 mm	70 × 69 × 170 mm
Scope of delivery	IP Mini Tube 8 MPx (2.8 mm) • Quickstart manual • Safety Instructions	IP Mini Tube 8 MPx (4 mm) • Quickstart manual • Safety Instructions

BASIC

Item number	IPCB64521	IPCB68521
Description	**IP Tube 4 MPx (2.8–12 mm)**	**IP Tube 8 MPx (2.8 - 12mm)**
	• 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)
Resolution modes	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
Image sensor	1/2.7" Progressive Scan CMOS	1/1.8" Progressive Scan CMOS
Lens	Motor-Zoom	Motor-Zoom
Focal length	2,8 – 12,0 mm	2,8 – 12,0 mm
Horizontal angle of view	30 – 108°	46 – 108°
Optical zoom	4,2 x	4,2 x
Minimum illumination (color)	0.003 lx	0.003 lx
Minimum illumination (IR)	0 lx	0 lx
IR range (up to)	60 m	60 m
Video compression	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
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	WDR, BLC, HLC, 3D DNR, Vertical Display
Encryption	HTTPS, TLS 1.1/1.2	HTTPS, TLS 1.1/1.2
Alarming	E-Mail, NAS, FTP, Sound	E-Mail, NAS, FTP, Sound
Audio	2-way audio	2-way audio
Connections	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)
Storage medium	microSD card, 256 GB (opt.)	microSD card, 256 GB (opt.)
DC voltage supply	12 (+/-25 %) V	12 (+/-25 %) V
AC voltage supply	-	-
Power consumption	1350 mA	1350 mA
PoE Standard	IEEE 802.3at	IEEE 802.3at
IP protection class	67	67
IK protection class	10	10
Min. operating temperature	-25° C	-25° C
Max. operating temperature	60° C	60° C
Compatible with Secoris	Yes	Yes
Compatible with Secvest	Yes	Yes
Compatible with wAppLoxx	Yes	Yes
Compatible with wAppLoxx Pro	Yes	Yes
Compatible with ABUS Link Station	Yes	Yes
Max. resolution @ frame rate	2688 x 1520 @ 30 fps	3840 x 2160 @ 20 fps
Dimensions (W × H × D)	105 × 105 × 298 mm	105 × 105 × 298 mm
Scope of delivery	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	IPCB64621	IPCB68621
Description	**IP Tube 4 MPx Black (2.8 - 12mm)**	**IP Tube 8 MPx Black (2.8 - 12mm)**
	• 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
Resolution modes	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
Image sensor	1/2.7" Progressive Scan CMOS	1/1.8" Progressive Scan CMOS
Lens	Motor-Zoom	Motor-Zoom
Focal length	2,8 – 12,0 mm	2,8 – 12,0 mm
Horizontal angle of view	30 – 108°	46 – 108°
Optical zoom	4,2 x	4,2 x
Minimum illumination (color)	0.003 lx	0.003 lx
Minimum illumination (IR)	0 lx	0 lx
IR range (up to)	60 m	60 m
Video compression	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
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	WDR, BLC, HLC, 3D DNR, Vertical Display
Encryption	HTTPS, TLS 1.1/1.2	HTTPS, TLS 1.1/1.2
Alarming	E-Mail, NAS, FTP, Sound	E-Mail, NAS, FTP, Sound
Audio	2-way audio	2-way audio
Connections	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
Storage medium	microSD card, 256 GB (opt.)	microSD card, 256 GB (opt.)
DC voltage supply	12 (+/-25 %) V	12 (+/-25 %) V
AC voltage supply	-	-
Power consumption	1350 mA	1350 mA
PoE Standard	IEEE 802.3at	IEEE 802.3at
IP protection class	67	67
IK protection class	10	10
Min. operating temperature	-25° C	-25° C
Max. operating temperature	60° C	60° C
Compatible with Secoris	Yes	Yes
Compatible with Secvest	Yes	Yes
Compatible with wAppLoxx	Yes	Yes
Compatible with wAppLoxx Pro	Yes	Yes
Compatible with ABUS Link Station	Yes	Yes
Max. resolution @ frame rate	2688 x 1520 @ 30 fps	3840 x 2160 @ 20 fps
Dimensions (W × H × D)	105 × 105 × 298 mm	105 × 105 × 298 mm
Scope of delivery	IP Tube 4 MPx (2.8 - 12 mm) • Quickstart manual • Safety Instructions	IP Tube 8 MPx (2.8 - 12 mm) • Quickstart manual • Safety Instructions

GECKO

COLOUR PICTURES AT NIGHT

FULL COLOUR DAY/NIGHT TECHNOLOGY

All Gecko models* deliver rich, detailed colour images (instead of IR B/W images) when used at night. Even in near absolute darkness (indoors, without outdoor lighting/moonlight) - thanks to the special lens with large, extra light-sensitive image sensor (1/1.8") and automatic readjustment of exposure time. Discreet white light LEDs (up to 50 m) switch on automatically when needed - for minimum light use. Particularly suitable for indoor and entrance areas or enclosed areas.

HIGHLIGHTS & ADVANTAGES

- More effective surveillance: natural images in live view and recording, just as the human eye is used to. The user interprets the image more easily, tires less and recognises incidents better than with the black/white image
- Better clarity: Thanks to maximum image detail, key features for identifying offenders or vehicles are more easily recognised, e.g. hair/clothing colours, logos on jackets, paint colours
- Any reflections, as can be caused by IR LEDs, are reduced - and important features (e.g. lettering on the vehicle, number plate) are thus better detected.

*The Gecko turns night into day: The helmethead gecko is the only vertebrate species that has been found to see in colour in the dark. Our Gecko cameras follow this example from nature.

Night shot with commercially available infrared camera

Night shot with Gecko technology

IP- CAMERAS SPECIAL

Item number	IPCS54511B GECKO	IPCS54511A GECKO	IPCS54611A GECKO
Description	**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)**
	• 4 Mpx resolution: 2,688 x 1,520 @ 25 fps • 4 mm fixed-focus lens (95° field of view) • 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 • 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)	• 4 Mpx resolution: 2,688 x 1,520 @ 25 fps • 2.8 mm fixed-focus lens (108° field of view) • 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 • 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)	• 4 Mpx resolution: 2,688 x 1,520 @ 25 fps • 4 mm fixed lens (108° angle of view) • 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 • 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)
Resolution modes	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)
Image sensor	1/1.8" Progressive Scan CMOS	1/1.8" Progressive Scan CMOS	1/1.8" Progressive Scan CMOS
Lens	Fix	Fix	Fix
Focal length	4 mm	2,8 mm	2,8 mm
Horizontal angle of view	95°	108°	108
Optical zoom	-	-	-
Minimum illumination (color)	0.0005 lx	0.0005 lx	0.0005 lx
White light LEDs (up to)	30 m	30 m	30 m
Video compression	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)
Video Content Analysis (VCA)	Tripwire Detection, Intrusion Detection, Region Entrance, Region Exit	Tripwire Detection, Intrusion Detection, Region Entrance, Region Exit	Tripwire Detection, Intrusion Detection, Region Entrance, Region Exit
Image enhancement	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)
Encryption	HTTPS, TLS 1.1/1.2	HTTPS, TLS 1.1/1.2	HTTPS, TLS 1.1/1.2
Alarming	E-Mail, NAS, FTP	E-Mail, NAS, FTP	E-Mail, App Push, FTP, CMS
Audio	Microphone	Microphone	Microphone
Connections	1 x RJ45, 1 x DC	1 x RJ45, 1 x DC	1 x RJ45, 1 x DC
Storage medium	microSD card, 256 GB (opt.)	microSD card, 256 GB (opt.)	microSD card, 256 GB (opt.)
DC voltage supply	12 (+/-25 %) V	12 (+/-25 %) V	12 (+/-25 %) V
AC voltage supply	-	-	-
Power consumption	600 mA	600 mA	600 mA
PoE Standard	IEEE 802.3af	IEEE 802.3af	IEEE 802.3af
IP protection class	67	67	67
IK protection class	-	-	-
Min. operating temperature	-25° C	-25° C	-25° C
Max. operating temperature	60° C	60° C	60° C
Compatible with Secoris	Yes	Yes	Yes
Compatible with Secvest	Yes	Yes	Yes
Compatible with wAppLoxx	Yes	Yes	Yes
Compatible with wAppLoxx Pro	Yes	Yes	Yes
Compatible with ABUS Link Station	Yes	Yes	Yes
Max. resolution @ frame rate	2688 x 1520 @ 30 fps	2688 x 1520 @ 30 fps	2688 x 1520 @ 30 fps
Dimensions (W × H × D)	139 × 128 × 139 mm	139 × 128 × 139 mm	139 × 128 × 139 mm
Scope of delivery	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	IPCS34511A GECKO	IPCS34511B GECKO	IPCS34611A GECKO
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)**
	• 4 Mpx resolution: 2,688 x 1,520 @ 25 fps • 2.8 mm fixed-focus lens (108° field of view) • 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 • 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)	• 4 Mpx resolution: 2,688 x 1,520 @ 25 fps • 4 mm fixed-focus lens (95° field of view) • 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 • 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)	• 4 MPx resolution (2,688 x 1,520 @ 25 fps) for crisp surveillance images • 2.8 mm fixed lens for longer distances (108° angle of view) • 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 • 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)
Resolution modes	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)
Image sensor	1/1.8" Progressive Scan CMOS	1/1.8" Progressive Scan CMOS	1/1.8" Progressive Scan CMOS
Lens	Fix	Fix	Fix
Focal length	2,8 mm	4 mm	2,8 mm
Horizontal angle of view	108°	95°	108
Optical zoom	-	-	-
Minimum illumination (color)	0.0005 lx	0.0005 lx	0.0005 lx
White light LEDs (up to)	30 m	30 m	30 m
Video compression	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)
Video Content Analysis (VCA)	Tripwire Detection, Intrusion Detection, Region Entrance, Region Exit	Tripwire Detection, Intrusion Detection, Region Entrance, Region Exit	Tripwire Detection, Intrusion Detection, Region Entrance, Region Exit
Image enhancement	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)
Encryption	HTTPS, TLS 1.1/1.2	HTTPS, TLS 1.1/1.2	HTTPS, TLS 1.1/1.2
Alarming	E-Mail, NAS, FTP	E-Mail, NAS, FTP	E-Mail, App Push, FTP, CMS
Audio	Microphone	Microphone	Microphone
Connections	1 x RJ45, 1 x DC	1 x RJ45, 1 x DC	1 x RJ45, 1 x DC
Storage medium	microSD card, 256 GB (opt.)	microSD card, 256 GB (opt.)	microSD card, 256 GB (opt.)
DC voltage supply	12 (+/-25 %) V	12 (+/-25 %) V	12 (+/-25 %) V
AC voltage supply	-	-	-
Power consumption	600 mA	600 mA	600 mA
PoE Standard	IEEE 802.3af	IEEE 802.3af	IEEE 802.3af
IP protection class	67	67	67
IK protection class	-	-	-
Min. operating temperature	-25° C	-25° C	-25° C
Max. operating temperature	60° C	60° C	60° C
Compatible with Secoris	Yes	Yes	Yes
Compatible with Secvest	Yes	Yes	Yes
Compatible with wAppLoxx	Yes	Yes	Yes
Compatible with wAppLoxx Pro	Yes	Yes	Yes
Compatible with ABUS Link Station	Yes	Yes	Yes
Max. resolution @ frame rate	2688 x 1520 @ 30 fps	2688 x 1520 @ 30 fps	2688 x 1520 @ 30 fps
Dimensions (W × H × D)	85 × 85 × 223 mm	85 × 85 × 223 mm	85 × 85 × 223 mm
Scope of delivery	IP Midi Tube 4 MPx (2.8 mm) • Quickstart manual • Sicherheitshinweise	IP Mini Tube 4 MPx (4 mm) • Quickstart manual • Sicherheitshinweise	IP Midi Tube 4 MPx Black (2.8 mm, WL) • Quickstart manual • Safety Information

Item number	IPCS64511A	IPCS64511B	IPCS64611A
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)**
	• 4 Mpx resolution: 2,688 x 1,520 @ 25 fps • 2.8 mm fixed-focus lens (108° field of view) • 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 • 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)	• 4 Mpx resolution: 2,688 x 1,520 @ 25 fps • 4 mm fixed-focus lens (95° field of view) • 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 • 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)	• 4 Mpx resolution: 2,688 x 1,520 @ 25 fps • 2.8 mm fixed lens (108° angle of view) • 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 • 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)
Resolution modes	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)
Image sensor	1/1.8" Progressive Scan CMOS	1/1.8" Progressive Scan CMOS	1/1.8" Progressive Scan CMOS
Lens	Fix	Fix	Fix
Focal length	2,8 mm	4 mm	2,8 mm
Horizontal angle of view	108°	95°	108
Optical zoom	-	-	-
Minimum illumination (color)	0.0005 lx	0.0005 lx	0.0005 lx
White light LEDs (up to)	50 m	50 m	50 m
Video compression	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)
Video Content Analysis (VCA)	Tripwire Detection, Intrusion Detection, Region Entrance, Region Exit	Tripwire Detection, Intrusion Detection, Region Entrance, Region Exit	Tripwire Detection, Intrusion Detection, Region Entrance, Region Exit
Image enhancement	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)
Encryption	HTTPS, TLS 1.1/1.2	HTTPS, TLS 1.1/1.2	HTTPS, TLS 1.1/1.2
Alarming	E-Mail, NAS, FTP	E-Mail, NAS, FTP	E-Mail, App Push, FTP, CMS
Audio	-	-	-
Connections	1 x RJ45, 1 x DC	1 x RJ45, 1 x DC	1 x RJ45, 1 x DC
Storage medium	microSD card, 256 GB (opt.)	microSD card, 256 GB (opt.)	microSD card, 256 GB (opt.)
DC voltage supply	12 (+/-25 %) V	12 (+/-25 %) V	12 (+/-25 %) V
AC voltage supply	-	-	-
Power consumption	600 mA	600 mA	600 mA
PoE Standard	IEEE 802.3af	IEEE 802.3af	IEEE 802.3af
IP protection class	67	67	67
IK protection class	-	-	-
Min. operating temperature	-25° C	-25° C	-25° C
Max. operating temperature	60° C	60° C	60° C
Compatible with Secoris	Yes	Yes	Yes
Compatible with Secvest	Yes	Yes	Yes
Compatible with wAppLoxx	Yes	Yes	Yes
Compatible with wAppLoxx Pro	Yes	Yes	Yes
Compatible with ABUS Link Station	Yes	Yes	Yes
Max. resolution @ frame rate	2688 x 1520 @ 30 fps	2688 x 1520 @ 30 fps	2688 x 1520 @ 30 fps
Dimensions (W × H × D)	105 × 105 × 282 mm	105 × 105 × 282 mm	105 × 105 × 282 mm
Scope of delivery	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

Item number	IPCS58571A	IPCS24510	IPCS64531
Description	**IP Ball Dome 8 MPx (2.8 mm) with 2-WAY Audio & Alarm**	**IP Fisheye 12 MPx**	**IP Tube 4 MPx (2.8-12 mm, licence plate/ANPR)**
	• 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)	• 360°/180° panoramic views with up to 12 MPx resolution • Freely configurable patrols (panning/tilting)	• 4 Mpx resolution: 2.688 × 1,520 @ 25 fps for accurate surveillance images and number plate recognition
Resolution modes	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)	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
Image sensor	1/1,8" Progressive Scan CMOS	1/1.7" Progressive Scan CMOS	1/1.8" Progressive Scan CMOS
Lens	Fix	Fix	Motor-Zoom, Autofokus
Focal length	2,8 mm	1,29 mm	2,8 – 12,0 mm
Horizontal angle of view	110	180°	42 – 114
Optical zoom	-	-	4,2 x
Digital zoom	Yes	ePTZ	Yes
Pan/tilt area	-	360°/80° (ePTZ)	-
Minimum illumination (color)	0.003 lx	0.015 lx	0.0005 lx
Minimum illumination (IR)	0 lx	0 lx	0 lx
IR range (up to)	30 m	15 m	50 m
Video compression	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
Video Content Analysis (VCA)	Tripwire Detection, Intrusion Detection, Region Entrance, Region Exit	Tripwire, Intrusion Detection, Region Enter, Region Exit	ANPR - Automatic Number Plate Recognition (Europe, max. 70 km/h, single/double line plates)
Image enhancement	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
Encryption	HTTPS, TLS 1.1/1.2	HTTPS	HTTPS
Alarming	E-Mail, App Push, FTP, CMS	Yes	E-Mail, App Push, FTP, CMS
Audio	-	Yes	2-way audio
Connections	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)	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
Storage medium	microSD card, 256 GB (opt.)	microSD (128 GB)	microSD card, 256 GB (opt.)
DC voltage supply	12 (+/-25 %) V	12 (+/-20 %) V	12 (+/-20 %) V
Power consumption	800 mA	1000 mA	1400 mA
PoE Standard	IEEE 802.3af	IEEE 802.3at	IEEE 802.3at
IP protection class	67	67	67
IK protection class	-	10	10
Min. operating temperature	-25° C	-40° C	-30° C
Other features	Object Classification Person/Vehicle	Heat Map, Intersection analysis	Black/White List (max. 10000 number plates)
Max. operating temperature	60° C	60° C	60° C
Compatible with Secoris	Yes	No	No
Compatible with Secvest	Yes	No	No
Compatible with wAppLoxx	Yes	No	No
Compatible with wAppLoxx Pro	Yes	-	No
Compatible with ABUS Link Station	Yes	No	Yes
Max. resolution @ frame rate	3840 x 2160 @ 30 fps	4000 x 3072 @ 20 fps	2688 x 1520 @ 25/30 fps
Dimensions (W × H × D)	139 × 128 × 139 mm	164 × 44 × 164 mm	140 × 140 × 350 mm
Scope of delivery	IP Dome 8 MPx (2.8 mm) • Quickstart manual • Safety Information	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

Item number	IPCS64541	IPCS84511
Description	**IP Tube 4 MPX Telephoto Motorised Zoom (4.7-118 mm)**	**IP Mini PTZ 4 MPx (4x)**
	• 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 • 4.7-118 mm motorised zoom telephoto lens: 25x optical zoom (2.8°-56° viewing angle, zoom via app, NVR, ABUS CMS) for monitoring large areas at a distance of up to 2 km and max. flexibility in the choice of installation location • Ultra low-light performance for excellent image results in poorly lit environments • 140 dB WDR function to effectively compensate for image contrasts, strong backlighting etc.	• 4 Mpx resolution: 2.560 x 1.440 @ 25 fps • 4x optical zoom, 16x digital zoom • Ultra low-light performance for excellent results in low light • 120 dB WDR function to compensate for image contrasts • Pan-tilt camera with infrared night vision function • Weatherproof housing (IP66), shock resistance level (IK10) • IR LEDs (up to 20-m range) • Supports H.264, H.265, MJPEG (incl. dynamic GOP) • MicroSD card slot for internal data storage • 12 V DC & PoE (802.3af)
Resolution modes	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: 2.560 x 1.440 @ 25 fps, Stream 2: 704 x 576 @ 25 fps, Stream 3: 1.920 x 1.080 @ 25 fps
Image sensor	1/1.8" Progressive Scan CMOS	1/2.8" Progressive Scan CMOS
Lens	Motor-Zoom, Autofokus	Motor-Zoom
Focal length	4,8 – 118,0 mm	2,8 – 12,0 mm
Horizontal angle of view	2,8 – 56	31,6 – 96,7°
Optical zoom	25 x	4x
Digital zoom	Yes	16 x
Pan/tilt area	-	355° / 0° – 90°
Minimum illumination (color)	0.01 lx	0.005 lx
Minimum illumination (IR)	0 lx	0 lx
IR range (up to)	200 m	20 m
Video compression	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, Dynamic GOP, Stream 2: H.264, H.265, MJPEG, Stream 3: H.264, H.265, MJPEG
Video Content Analysis (VCA)	Object Detection Human & Vehicle for Tripwire Detection, Intrusion Detection, Region Entrance, Region Exit or Face Recognition (2D)	Tripwire, Intrusion Detection, Region Enter, Region Exit
Image enhancement	WDR, BLC, HLC, 3D DNR, EIS Electr. Image Stabilizer	-
Encryption	HTTPS	HTTPS, TLS 1.2
Alarming	E-Mail, App Push, FTP, CMS	E-Mail, NAS, FTP
Audio	2-way audio	2-way audio
Connections	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	Audio input / Audio output
Storage medium	microSD card, 256 GB (opt.)	microSD card, 256 GB (option)
DC voltage supply	12 (+/-20 %) V	12 (+/-10 %) V
AC voltage supply	-	-
Power consumption	1400 mA	800 mA
PoE Standard	IEEE 802.3at	IEEE 802.3af
IP protection class	67	66
IK protection class	10	10
Min. operating temperature	-30° C	-20° C
Max. operating temperature	60° C	60° C
Other features	-	-
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	2688 x 1520 @ 25/30 fps, 2560 x 1440 @ 50/60 fps	2560 x 1440 @ 30 fps
Dimensions (W × H × D)	140 × 140 × 350 mm	131 × 102 × 131 mm
Scope of delivery	IP Tube (4 Mpx, 4,8 - 118 mm) • Junction box • Quickstart manual • Safety Information	IP Mini PTZ 4 MPx (4x) • Quickstart manual • Safety Information

Item number	IPCS84531	IPCS84550
Description	**IP PTZ 4 MPx (25x)**	**IP PTZ 4 MPx (32x)**
	• 4 MPx Resolution: 2.560 x 1.440 @ 25 fps • 25x autofocus zoom lens (4.8-120 mm) • Ultra low-light performance for excellent low-light environments • 120 dB WDR function to compensate for image contrasts • 8 programmable tours with up to 32 preset positions each • Weather protected housing (IP66) • IR LEDs (range up to 50m) • Supports H.264, H.265, MJPEG (including dynamic GOP) • microSD card slot for internal data storage • 12 V DC & PoE+ (802.3at)	• 4 MPx Resolution: 2.560 x 1.440 @ 25 fps • 32x motor zoom lens (4.8-153 mm) • Ultra low-light performance for excellent low-light environments • 120 dB WDR function to compensate for image contrasts • Electronic Image Stabilizer (EIS) • Weather protected housing (IP66) • IR LEDs (range up to 150m) • Supports H.264, H.265, MJPEG (including dynamic GOP) • microSD card slot for internal data storage • 24V AC & PoE (802.3bt)
Resolution modes	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 / 1.920 x 1.080 @ 50 fps, Stream 2: 704 x 576 @ 25 fps, Stream 3: 1.920 x 1.080 @ 25 fps
Image sensor	1/2.8" Progressive Scan CMOS	1/2.8" Progressive Scan CMOS
Lens	Motor-Zoom, Autofocus	Motor-Zoom, Autofocus
Focal length	4,8 – 120 mm	4,8 – 153 mm
Horizontal angle of view	2,5 – 53°	2,0 – 54,3°
Optical zoom	25x	32 x
Minimum illumination (color)	0.005 lx	0.005 lx
Minimum illumination (IR)	0 lx	0 lx
IR range (up to)	50 m	150 m
Video compression	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
Video Content Analysis (VCA)	Tripwire, Intrusion Detection, Region Enter, Region Exit	Tripwire, Intrusion Detection, Region Enter, Region Exit
Image enhancement	-	-
Encryption	HTTPS, TLS 1.2	HTTPS
Alarming	E-Mail, NAS, FTP	E-Mail, NAS, FTP, Relay
Audio	2-way audio	2-Way Audio
Connections	1 x DC, 1 x RJ45, 2 x Alarm input, 2 x Alarm output, 1 x Audio input, 1 x Audio output	-
Storage medium	microSD card, 256 GB (option)	microSD card, 256 GB (option)
DC voltage supply	12 (+/-10 %) V	-
AC voltage supply	-	24 (+/-10 %) V
Power consumption	1500 mA	-
PoE Standard	IEEE 802.3at	IEEE 802.3bt
IP protection class	66	66
IK protection class	10	-
Min. operating temperature	-30° C	-30° C
Max. operating temperature	60° C	60° C
Compatible with Secoris	Yes	Yes
Compatible with Secvest	Yes	Yes
Compatible with wAppLoxx	Yes	Yes
Compatible with wAppLoxx Pro	Yes	Yes
Compatible with ABUS Link Station	Yes	Yes
Max. resolution @ frame rate	2560 x 1440 @ 30 fps	2560 x 1440 @ 25 fps
Other features	-	Smart Tracking
Dimensions (W × H × D)	169 × 161 × 169 mm	330 × 185 mm
Scope of delivery	IP Midi PTZ 4 MPx (25x) • Quickstart manual • Safety Information	IP PTZ 4 MPx (32x) • Quick guide

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.

Item number	TVAC32300	TVAC32400	TVAC32410
Description	**Junction Box Mini Tube**	**Junction Box Mini Dome**	**Junction Box for Wall Mount Mini Dome**
	• Compatible with IPCB34511A, IPCB34511B, IPCB38511A, IPCB38511B • For a protected and concealed wiring indoors and outdoors • Robust aluminum construction • Colour: white	• Compatible with IPCB44511A, IPCB44511B, IPCB44561A • For a protected and concealed wiring indoors and outdoors • Robust aluminum construction • Colour: white	• Can only be used in combination with TVAC32420 • For protecting wiring both indoors and outdoors • Sturdy aluminium construction • Colour: white
Dimensions (W × H × D)	100 × 45 × 100 mm	120 × 40 × 120 mm	180 × 120 mm
Scope of delivery	Junction box	Junction box	Junction box

Item number	TVAC32420	TVAC32500	TVAC32520
Description	**Wall Mount Mini Dome**	**Junction Box Ball Dome**	**Wall Mount Ball Dome**
	• Compatible with IPCB44511A, IPCB44511B, IPCB44561A • Internal cabling is possible • Sturdy aluminium construction for indoors and outdoors • Colour: white	• Compatible with IPCB54511A, IPCB54511B, IPCB58511A, IPCB58511B • For a protected and concealed wiring indoors and outdoors • Robust aluminum construction • Colour: white	• Compatible with IPCB54511A, IPCB54511B, IPCB58511A, IPCB58511B • Internal cabling is possible • Sturdy aluminium construction for indoors and outdoors • Colour: white
Dimensions (W × H × D)	120 × 120 mm	137 × 42 × 120 mm	184 × 120 mm
Scope of delivery	Wall Mount Bracket	Junction box	520 x Wall Mount Bracket

Item number	TVAC32600	TVAC32700	TVAC32720
Description	**Junction Box Tube**	**Junction Box Dome**	**Wall Mount Dome**
	• Compatible with IPCB64521, IPCB68521, IPCB34511A/B, IPCB38511A/B, IPCS34511A/B, IPCS64511A/B • For a protected and concealed wiring indoors and outdoors • Robust aluminum construction • Colour: white	• Compatible with IPCB74521, IPCB78521 • For a protected and concealed wiring indoors and outdoors • Robust aluminum construction • Colour: white	• Compatible with IPCB74521, IPCB78521 • Internal cabling is possible • Sturdy aluminium construction for indoors and outdoors • Colour: white
Dimensions (W × H × D)	137 × 53 × 120 mm	155 × 40 × 155 mm	184 × 155 mm
Scope of delivery	Junction box	Junction box	Wall Mount Bracket

Item number	TVAC32730	TVAC32000	TVAC32010
Description	**Flush Mount Dome**	**Pole Mount**	**Corner Mount**
	• Compatible with IPCB74521, IPCB78521 • Ceiling mount frame for use indoors and outdoors • Provides cover and protection when mounting on ceilings • Cover made of white plastic • Installation kit including mounting accessories	• Mount for easy attachment to masts and pipes • Ideal for masts with a diameter of 67–127 mm • Colour: white	• For mounting on outside corners and inaccessible places • Color: white
Dimensions (W × H × D)	245 × 87 × 245 mm	250 × 127 mm	250 × 126 mm
Scope of delivery	Ceiling Mount Frame	Pole mount	Corner mount

Item number	TVAC32020
Description	**Junction Box for Wall Mount**
	• Can only be used in combination with TVAC32520 or TVAC32720 • Compatible with TVAC32000, TVAC32010 • For protecting wiring both indoors and outdoors • Sturdy aluminium construction • Internal cable routing possible • Colour: white
Dimensions (H × Ø)	243 × 123 mm
Scope of delivery	Junction box

Item number	TVAC32400X	TVAC32410X	TVAC32420X
Description	**Junction Box for Mini Dome Black**	**Junction Box for Wall Mount Mini Dome Black**	**Wall Mount for Mini Dome Black**
	• Compatible with IPCB44611A, IPCB44611B • For a protected and concealed wiring indoors and outdoors • Robust aluminum construction • Colour: Black	• Can only be used in combination with TVAC32420X • For protecting wiring both indoors and outdoors • Sturdy aluminium construction • Colour: Black	• Compatible with IPCB44611A, IPCB44611B • Internal cabling is possible • Sturdy aluminium construction for indoors and outdoors • Colour: Black
Dimensions (W × H × D)	120 × 40 × 120 mm	180 × 120 mm	120 × 120 mm
Scope of delivery	Junction box	Junction box	Wall Mount Bracket

Item number	TVAC32500X	TVAC32520X	TVAC32600X
Description	**Junction Box for Ball Dome Black**	**Wall Mount for Ball Dome Black**	**Junction Box for Tube Black**
	• Compatible with IPCB54611B, IPCB58611A • For a protected and concealed wiring indoors and outdoors • Robust aluminum construction • Colour: Black	• Compatible with IPCB54611B, IPCB58611A • Internal cabling is possible • Sturdy aluminium construction for indoors and outdoors • Colour: Black	• Compatible with IPCB64621, IPCB68621 • For a protected and concealed wiring indoors and outdoors • Robust aluminum construction • Colour: Black
Dimensions (W × H × D)	137 × 42 × 120 mm	184 × 120 mm	137 × 53 × 120 mm
Scope of delivery	Junction box	Wall Mount Bracket	Junction box

Item number	TVAC32000X	TVAC32020X
Description	**Pole Mount Black**	**Junction Box for Wall Mount Black**
	• Mount for easy attachment to masts and pipes • Ideal for masts with a diameter of 67–127 mm • Colour: Black	• Can only be used in combination with TVAC32520X • Compatible with TVAC32000X • For protecting wiring both indoors and outdoors • Sturdy aluminium construction • Internal cable routing possible • Colour: Black
Dimensions (H × Ø)	250 × 127 mm	243 × 123 mm
Scope of delivery	Pole mount	Junction box

Item number	TVAC31215	TVAC31285	TVAC31205
Description	**Wall Mount for IPCS84510**	**Ceiling Mount for IPCS84510**	**Wall Mount for IPCS84530**
	• Compatible with IPCS84510 • Internal cabling is possible • Color: white	• Compatible with IPCS84510, IPCS84511 • Internal cabling is possible • Sturdy aluminium construction for indoors and outdoors • Color: white	• Compatible with IPCS84530, IPCS84531 • Internal cabling is possible • Sturdy aluminium construction for indoors and outdoors • Color: white
Dimensions (W × H × D)	126 × 80 × 224 mm	120 × 650 × 120 mm	86 × 158 × 315 mm
Scope of delivery	Wall mount	Ceiling Mount	Wall Mount

Item number	TVAC31245	TVAC31235	TVAC31275
Description	**Installation box for IPCS84530**	**Corner Mount**	**Ceiling Mount frame for IPCS84530**
	• Internal cabling is possible • Sturdy aluminium construction for indoors and outdoors • Color: white	• Can only be used in combination with TVAC31205 • Compatible with TVAC31245 • Color: white	• Compatible with IPCS84530, IPCS84531 • Provides cover and protection when mounting on ceilings • Color: white
Dimensions (H × Ø)	40 × 158 mm	126 x 105 x 250 mm	85 x 233 mm
Scope of delivery	Junction box	Corner mount	Ceiling mount frame

Item number	TVAC31201	TVAC31221
Description	**Long Wall Mount for PTZ Dome Cameras**	**Pole Mount incl. Long Wall Mount for PTZ Dome Cameras**
	• Compatible with IPCS84550, HDCC82501 • Simple installation of ABUS PTZ dome cameras • Length of mount (projection): 310 mm • For wall mounting	• Compatible with IPCS84550, HDCC82501 • Simple installation of ABUS PTZ dome cameras • For mounting on poles and pipes • For poles with a diameter of 67 – 127 mm • Long wall mount (310 mm) included with delivery
Dimensions (W × H × D)	97 × 182 × 310 mm	117 × 194 × 46 mm
Scope of delivery	Long Wall Mount for Speed Dome • Installation material	Pole Mount incl. Long Wall Mount for Speed Dome • Wall mount • Installation material

Item number	TVAC31231	TVAC31241
Description	**Corner Mount incl. Long Wall Mount for PTZ Dome Cameras**	**Junction Box incl. Long Wall Mount for PTZ Dome Cameras**
	• Compatible with IPCS84550, HDCC82501 • Simple installation of ABUS PTZ dome cameras • For mounting in corners and inaccessible places • Size: 179 × 194 mm, opening angle: 90° • Wall mount (310 mm) included with delivery	• Compatible with IPCS84550, HDCC82501 • Simple installation of ABUS PTZ dome cameras • Camera power supply can be installed on the mount for protection from weather • Length of mount (projection): 310 mm • For wall mounting
Dimensions (W × H × D)	119 × 106 × 194 mm	210 × 310 × 400 mm
Scope of delivery	Corner Mount incl. Long Wall Mount for Speed Dome • Wall mount • Installation material	Junction box • Wall mount • Installation material

Item number	TVAC31250	TVAC31260	TVAC31270
Description	**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**
	• Ceiling bracket for IPCS84550, HDCC82501 • Internal cable routing possible • Sturdy aluminium construction for indoors and outdoors • Load-bearing capacity: 10 kg • Colour: white		
Dimensions (W × H × D)	116.5 × 57 × 116.5 mm	200 × 116.5 mm	500 × 116.5 mm
Scope of delivery	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	TVAC31280	TVAC31290
Description	**Installation Box for Hemispheric Camera**	**Installation Box with 23/46 cm Ceiling Bracket for Hemispheric Camera**
	• Compatible with IPCS24510 • For protecting wiring both indoors and outdoors • Sturdy aluminium construction • Load-bearing capacity: 4.5 kg • Colour: white • 1 opening with 2.5 cm diameter for cabling	• Compatible with IPCS24510 • For protecting wiring both indoors and outdoors • Sturdy aluminium construction • Internal cable routing possible • Load-bearing capacity: 4.5 kg • Colour: white • 1 opening with 2.5 cm diameter for cabling
Dimensions (H × Ø)	45 × 165 mm	460 × 165 mm
Scope of delivery	Installation Box for Hemispheric Camera	Installation Box With 23/46 cm Ceiling Bracket for Hemispheric Camera

Item number	TVAC32780	TVAC32785
Description	**Tinted bubble for IPCB74521, IPCB78521**	**Transparent bubble for IPCB74521, IPCB78521**
	• Polycarbonate dome • Compatible with IPCB74521, IPCB78521 • The camera's angle of view remains hidden	
Dimensions (W × H × D)	110 × 64 × 110 mm	110 × 64 × 110 mm
Scope of delivery	Domebubble	Domebubble

Item number	TVAC32120	TVAC32130
Description	**Camera Mount 160 mm**	**Camera Mount 300 mm**
	• Elegant aluminium holder, universally usable for mounting technical devices • 360° ball head with quick-release fastener for easy attachment and optimal alignment of devices • 1/4" stand screw (male) for units with 1/4" screw base (female) • Versatile use, e.g. as a table stand, ceiling mount, etc. • 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 • Internal cable routing possible (weather protection) • Length of stand tube: 160/300 mm (for ceiling mounting: distance from the ceiling) • Load-bearing capacity: 3 kg	
Dimensions (W × H × D)	110 × 125 × 110 mm	110 × 300 × 110 mm
Scope of delivery	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)

Item number	NVR10010
Description	**5-Channel Network Video Recorder (NVR)**
	• Live view and recording of up to 5 IP cameras @ 8 MPx (4K) • High-performance network data throughput with up to 316 MBit/s (60 MBit/s in / 256 MBit/s out) • Easy operation locally on the device, via web browser, ABUS CMS software or app • Local monitor output supports up to 8 MPx (4K) resolution • Manual or controlled recording according to time plan, motion detection, alarm input or VCA • Supports H.264 and H.265 (incl. dynamic GOP) • Recording on up to 2 SATA hard drives
Total network throughput (input/output)	316MBit/s (60 MBits/256 MBits)
Total frame rate (PAL)	125 fps
Storage medium	2 x S-ATA HDD (up to 16 TB per HDD)
Recording modes	Manual, time schedule, motion detection, alarm input, VCA
Storage	1 x USB 2.0, 1 x USB 3.0
Search modes	Event, date and time, Smart Search, VCA
Alarming	Acoustic warning signal, on screen display signal, email, CMS, Alarm output
Monitor outputs	1 x VGA, 1 x HDMI
Resolution HDMI output	4K(3840x2160)/60Hz, 4K(3840x2160)/30Hz, 1920x1080/60Hz, 1600x1200/60Hz, 1280x1024/60 Hz, 1024x768/60 Hz
Resolution VGA output	1920x1080p/60Hz, 1280x1024/60Hz, 1280x720/60Hz, 1024x768/60Hz
Views	1 / 4 / 6 / 8 / 9
Control	USB mouse
Network access	1 x RJ45 10/100 /1000 Mbps
Network functions	Live view, playback, data export, settings
Simultaneous network access	128 camera connections
PoE Standard	-
Software	ABUS CMS software, integrated web server
Mobile access	ABUS Link Station Lite / Pro (Apple iOS & Android)
Audio	Line in: 1 x cinch (2.0 V s-s, 1000 Ω) – only for network transmission, Audio Out: 1 x cinch (600 Ω)
Relay output	1 (max. load: 12 V DC/1 A)
Alarm inputs (NO/NC)	4
DC voltage supply	12 V
AC voltage supply	-
Compatible with ABUS Link Station	Yes
Recording resolution @ frame rate per camera	12 MPx, 8 MPx, 6 MPx, 5 MPx, 4 MPx, 3 MPx, 2 MPx, 1080p, 720p, VGA @ 25 fps
Recording duration at 6MPx @ 8Mbit/s	60 hours/TB
Recording duration at 1080p @ 2Mbit/s	238 hours/TB
Certifications	-
Dimensions (W × H × D)	380 × 50 × 315 mm
Scope of delivery	Embedded NVR • USB wireless mouse • 2 x S-ATA cable • Power supply • Quickstart manual • Installation materials

Item number	NVR10020	NVR10020P
Description	**8-Channel Network Video Recorder (NVR)**	**8-Channel PoE Network Video Recorder (NVR)**
	• Live view and recording of up to 8 IP cameras @ 8 MPx (4K) • High-performance network data throughput with up to 336 MBit/s (80 MBit/s in / 256 MBit/s out) • Easy operation locally on the device, via web browser, ABUS CMS software or app • Local monitor output supports up to 8 MPx (4K) resolution • Manual or controlled recording according to time plan, motion detection, alarm input or VCA • Supports H.264 and H.265 (incl. dynamic GOP) • Recording on up to 2 SATA hard drives	• Live view and recording of up to 8 IP cameras @ 8 MPx (4K) • High-performance network data throughput with up to 336 MBit/s (80 MBit/s in / 256 MBit/s out) • Integrated PoE switch (max. 120 W) for power supply and fast operation of IP cameras • Easy operation locally on the device, via web browser, ABUS CMS software or app • Local monitor output supports up to 8 MPx (4K) resolution • Manual or controlled recording according to time plan, motion detection, alarm input or VCA • Supports H.264 and H.265 (incl. dynamic GOP) • Recording on up to 2 SATA hard drives
Total network throughput (input/output)	336 MBit/s (80 MBits/256 MBits)	336 MBit/s (80 MBits/256 MBits)
Total frame rate (PAL)	200 fps	200 fps
Storage medium	2 x S-ATA HDD (up to 16 TB per HDD)	2 x S-ATA HDD (up to 16 TB per HDD)
Recording modes	Manual, time schedule, motion detection, alarm input, VCA	Manual, time schedule, motion detection, alarm input, VCA
Storage	1 x USB 2.0, 1 x USB 3.0	1 x USB 2.0, 1 x USB 3.0
Search modes	Event, date and time, Smart Search, VCA	Event, date and time, Smart Search, VCA
Alarming	Acoustic warning signal, on screen display signal, email, CMS, Alarm output	Acoustic warning signal, on screen display signal, email, CMS, Alarm output
Monitor outputs	1 x VGA, 1 x HDMI	1 x VGA, 1 x HDMI
Resolution HDMI output	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
Resolution VGA output	1920x1080p/60Hz, 1280x1024/60Hz, 1280x720/60Hz, 1024x768/60Hz	1920x1080p/60Hz, 1280x1024/60Hz, 1280x720/60Hz, 1024x768/60Hz
Views	1 / 4 / 6 / 8 / 9	1 / 4 / 6 / 8 / 9
Control	USB mouse	USB mouse
Network access	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
Network functions	Live view, playback, data export, settings	Live view, playback, data export, settings
Simultaneous network access	128 camera connections	128 camera connections
PoE Standard	-	IEEE 802.3 af/at (max. 120 W)
Software	ABUS CMS software, integrated web server	ABUS CMS software, integrated web server
Mobile access	ABUS Link Station Lite / Pro (Apple iOS & Android)	iDVR Plus / iDVR Plus HD (Apple iOS & Android)
Audio	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)
Relay output	1 (max. load: 12 V DC/1 A)	1 (max. load: 12 V DC/1 A)
Alarm inputs (NO/NC)	4	4
DC voltage supply	12 V	12 V
AC voltage supply	-	-
Compatible with ABUS Link Station	Yes	Yes
Recording duration at 6MPx @ 8Mbit/s	37 hours/TB	37 hours/TB
Recording duration at 1080p @ 2Mbit/s	149 hours/TB	149 hours/TB
Recording resolution @ frame rate per camera	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
Certifications	-	-
Dimensions (W × H × D)	380 × 50 × 315 mm	380 × 50 × 315 mm
Scope of delivery	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
Description	**16-Channel Network Video Recorder (NVR)**	**16-Channel PoE Network Video Recorder (NVR)**
	• Live view and recording of up to 16 IP cameras @ 8 MPx (4K) • High-performance network data throughput with up to 416 MBit/s (160 MBit/s in / 256 MBit/s out) • Easy operation locally on the device, via web browser, ABUS CMS software or app • Local monitor output supports up to 8 MPx (4K) resolution • Manual or controlled recording according to time plan, motion detection, alarm input or VCA • Supports H.264 and H.265 (incl. dynamic GOP) • Recording on up to 4 SATA hard drives	• Live view and recording of up to 16 IP cameras @ 8 MPx (4K) • High-performance network data throughput with up to 416 MBit/s (160 MBit/s in / 256 MBit/s out) • Integrated PoE switch (max. 200 W) for power supply and fast operation of IP cameras • Easy operation locally on the device, via web browser, ABUS CMS software or app • Local monitor output supports up to 8 MPx (4K) resolution • Manual or controlled recording according to time plan, motion detection, alarm input or VCA • Supports H.264 and H.265 (incl. dynamic GOP) • Recording on up to 4 SATA hard drives
Total network throughput (input/output)	416 MBit/s (160 MBits/256 MBits)	416 MBit/s (160 MBits/256 MBits)
Total frame rate (PAL)	400 fps	400 fps
Storage medium	4 x S-ATA HDD (up to 16 TB per HDD)	4 x S-ATA HDD (up to 16 TB per HDD)
Recording modes	Manual, time schedule, motion detection, alarm input, VCA	Manual, time schedule, motion detection, alarm input, VCA
Storage	2 x USB 2.0, 1 x USB 3.0	2 x USB 2.0, 1 x USB 3.0
Search modes	Event, date and time, Smart Search, VCA	Event, date and time, Smart Search, VCA
Alarming	Acoustic warning signal, on screen display signal, email, CMS, Alarm output	Acoustic warning signal, on screen display signal, email, CMS, Alarm output
Monitor outputs	1 x VGA, 1 x HDMI	1 x VGA, 1 x HDMI
Resolution HDMI output	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
Resolution VGA output	1920x1080p/60Hz, 1280x1024/60Hz, 1280x720/60Hz, 1024x768/60Hz	1920x1080p/60Hz, 1280x1024/60Hz, 1280x720/60Hz, 1024x768/60Hz
Views	1 / 4 / 6 / 8 / 9 / 16	1 / 4 / 6 / 8 / 9 / 16
Control	USB mouse	USB mouse
Network access	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
Network functions	Live view, playback, data export, settings	Live view, playback, data export, settings
Simultaneous network access	128 camera connections	128 camera connections
PoE Standard	-	IEEE 802.3 af/at (max. 200 W)
Software	ABUS CMS software, integrated web server	ABUS CMS software, integrated web server
Mobile access	ABUS Link Station Lite / Pro (Apple iOS & Android)	ABUS Link Station Lite / Pro (Apple iOS & Android)
Audio	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)
Relay output	4 (Max. load: 12 V DC/1 A)	4 (Max. load: 12 V DC/1 A)
Alarm inputs (NO/NC)	16	16
DC voltage supply	-	-
AC voltage supply	100 – 240 V	100 – 240 V
Compatible with ABUS Link Station	Yes	Yes
Certifications	-	-
Recording resolution @ frame rate per camera	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
Recording duration at 1080p @ 2Mbit/s	74 hours/TB	74 hours/TB
Recording duration at 6MPx @ 8Mbit/s	18 hours/TB	18 hours/TB
Dimensions (W × H × D)	450 × 95 × 440 mm	450 × 95 × 440 mm
Scope of delivery	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
Description	**32-Channel Network Video Recorder (NVR)**	**64-Channel Network Video Recorder (NVR)**
	• Live view and recording of up to 32 IP cameras @ 8 MPx (4K) • High-performance network data throughput with up to 576 MBit/s (320 MBit/s in / 256 MBit/s out) • Easy operation locally on the device, via web browser, ABUS CMS software or app • Local monitor output supports up to 8 MPx (4K) resolution • Manual or controlled recording according to time plan, motion detection, alarm input or VCA • Supports H.264 and H.265 (incl. dynamic GOP) • Recording on up to 8 SATA hard drives • Redundant data recording via RAID (Level: 0, 1, 5, 10)	• Live view and recording of up to 64 IP cameras @ 8 MPx (4K) • High-performance network data throughput with up to 576 MBit/s (320 MBit/s in / 256 MBit/s out) • Easy operation locally on the device, via web browser, ABUS CMS software or app • Local monitor output supports up to 8 MPx (4K) resolution • Manual or controlled recording according to time plan, motion detection, alarm input or VCA • Supports H.264 and H.265 (incl. dynamic GOP) • Recording on up to 8 SATA hard drives • Redundant data recording via RAID (Level: 0, 1, 5, 10)
Total network throughput (input/output)	576 MBit/s (320 MBits/256 MBits) / (Raid: 200 MBits/130 MBits)	576 MBit/s (320 MBits/256 MBits) / (Raid: 200 MBits/130 MBits)
Total frame rate (PAL)	800 fps	1600 fps
Storage medium	8 x S-ATA HDD (up to 16 TB per HDD)	8 x S-ATA HDD (up to 16 TB per HDD)
Recording modes	Manual, time schedule, motion detection, alarm input, VCA	Manual, time schedule, motion detection, alarm input, VCA
Storage	2 x USB 2.0, 1 x USB 3.0	2 x USB 2.0, 1 x USB 3.0
Search modes	Event, date and time, Smart Search, VCA	Event, date and time, Smart Search, VCA
Alarming	Acoustic warning signal, on screen display signal, email, CMS, Alarm output	Acoustic warning signal, on screen display signal, email, CMS, Alarm output
Monitor outputs	2 x VGA, 2 x HDMI	2 x VGA, 2 x HDMI
Resolution HDMI output	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
Resolution VGA output	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
Views	1 / 4 / 6 / 8 / 9 / 16 / 25 / 36	1 / 4 / 6 / 8 / 9 / 16 / 25 / 36
Control	USB mouse	USB mouse
Network access	2 x RJ45 10/100 /1000 Mbps	2 x RJ45 10/100/1000 Mbps
Network functions	Live view, playback, data export, settings	Live view, playback, data export, settings
Simultaneous network access	128 camera connections	128 camera connections
PoE Standard	-	-
Software	ABUS CMS software, integrated web server	ABUS CMS software, integrated web server
Mobile access	ABUS Link Station Lite / Pro (Apple iOS & Android)	ABUS Link Station Lite / Pro (Apple iOS & Android)
Audio	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)
Relay output	4 (Max. load: 12 V DC/1 A)	4 (Max. load: 12 V DC/1 A)
Alarm inputs (NO/NC)	16	16
DC voltage supply	-	-
AC voltage supply	100 – 240 V	100 – 240 V
Compatible with ABUS Link Station	Yes	Yes
Certifications	-	-
Recording duration at 1080p @ 2Mbit/s	37 hours/TB	37 hours/TB
Recording duration at 6MPx @ 8Mbit/s	9 hours/TB	9 hours/TB
Recording resolution @ frame rate per camera	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
Dimensions (W × H × D)	450 × 95 × 440 mm	450 × 95 × 440 mm
Scope of delivery	Embedded NVR • USB wireless mouse • 8 x S-ATA cable • Quickstart manual	Embedded NVR • USB wireless mouse • 8 x S-ATA cable • Quickstart manual

Item number	IPCV10000
Description	**ABUS IP Camera Viewer (1-channel)***
	• Live image display of 2 MPx network cameras on one monitor • Display expandable up to 4 cameras (IPCV10010) • Practical solution for numerous customer needs • Ideal for sales rooms, for example as a confrontation monitor • Comfortable solution for private end customers, e.g. more security at the front door • Low installation costs • Network integration via LAN or WiFi • Monitor connection via HDMI • Silent operation • Without the use of an additional PC or recorder
Resolution modes	1920 x 1080
Network access	RJ45
Wi-Fi network access	2,4 GHz & 5 GHz WLAN IEEE 802.11 b/g/n/ac
Connections	1 x HDMI, 1 x RJ45, 1 x Micro-USB Typ B
Max. operating temperature	50° C
Min. operating temperature	0° C
DC voltage supply	5 V
Power consumption	2500 mA
Resolution	2 MP
Dimensions (W × H × D)	75 × 110 × 35 mm
Scope of delivery	ABUS IP Camera Viewer (1-channel)

*not available in Switzerland

Item number	IPCV10010	IPCV10020
Description	**ABUS Quad View Add-on for ABUS IP Camera Viewer**	**ABUS Overlay Add-on for ABUS IP Camera Viewer**
	• Extension from 1 to 4 channels for the ABUS IP Camera Viewer (1-channel) IPCV10000 • Software extension via activation code • No further installation or infrastructure needed	• Software extension to display logo and text • Video stream optimization for the POS and adaptation to the corporate design • Integration of customized data for targeted customer information • Software extension using activation code • No further installation or infrastructure necessary
Dimensions (W × H × D)	115 × 2 × 160 mm	115 × 2 × 160 mm
Scope of delivery	License	Licence

Item number	TVAC35100
Description	**Micro-USB power supply 3 A**
	• Plug-in power supply with micro USB output • Recommended for powering the ABUS IP Camera Viewer IPCV10000 • Suitable for a variety of devices • Powerful with 3.1 A suitable for every application • 1.1 m charging cable for sufficient freedom of movement • With 100 - 240 V AC input voltage can also be used abroad
Dimensions (W × H × D)	48 × 28 × 89 mm
Scope of delivery	USB power supply 3 A

MODUVIS DOOR-INTERCOM

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

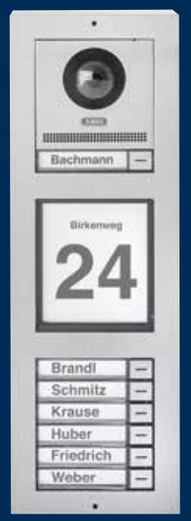
In addition to the camera in the video module, ABUS outdoor cameras can also be displayed on the indoor monitor and the app. This makes it easy to adapt the system to new customer wishes and requirements.
In addition, all data and recordings can be stored locally in the monitor (SD card).

TVHS20000

VIDEO MODULE

Heart of the door intercom system

- 2 MPx Full HD camera (viewing angle: horizontal: 180°, 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 DOOR-INTERCOM

Item number	TVHS20000S	TVHS20010S
Description	**IP video module for door intercom (stainless steel)**	**2-wire video module for door intercom (stainless steel)**
	• IP 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 • Central control unit of the door intercom system (mandatory for every PoE installation) • 2 MPx day/night camera with IR-LEDs and 180° viewing angle for optimal overview during ringing events (no continuous monitoring) • Push alarm on mobile device via ABUS Link Station App • High-quality microphone and loudspeaker for very high speech quality (clear sound of voices, filtering out background noise) • Bell button with backlighting • PoE network connection • Further relay inputs/outputs e.g. for door opener (door buzzer) • 2 doors can be controlled (e.g. for garden gate) • Weatherproof IP65, can be flexibly mounted using a mounting frame(surface-mounted or flush-mounted)	• 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 • Central control unit of the door intercom system (mandatory for every 2-wire installation) • 2 MPx day/night camera with IR-LEDs and 180° viewing angle for optimal overview during ringing events • Push alarm on mobile device via ABUS Link Station App • High-quality microphone and loudspeaker Very high speech quality (clear sound of voices, filtering out background noise) • Bell buttons with background lighting • Audio, video and voltage via 2-wire • Further relay inputs/outputs e.g. door opener (door buzzer) • Weatherproof IP65, can be flexibly mounted using a mounting frame(surface-mounted or flush-mounted)
Display	2-Way Audio	2-Way Audio
Lens	Fix	Fix
Resolution	2 MPx	2 MPx
Frame rate	-	-
IR LEDs	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
Compatible with ABUS Link Station	-	-
Dimensions (W × H × D)	98 × 99.8 × 43.9 mm	98 × 99.8 × 43.9 mm
Scope of delivery	IP-Video module • Quickguide • Safety Instructions	2-wire video module • Quickguide • Safety Instructions

Item number	TVHS20000	TVHS20010
Description	**IP video module for door intercom**	**2-wire video module for door intercom**
	• IP 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 • Central control unit of the door intercom system (mandatory for every PoE installation) • 2 MPx day/night camera with IR-LEDs and 180° viewing angle for optimal overview during ringing events (no continuous monitoring) • Push alarm on mobile device via ABUS Link Station App • High-quality microphone and loudspeaker for very high speech quality (clear sound of voices, filtering out background noise) • Bell button with backlighting • PoE network connection • Further relay inputs/outputs e.g. for door opener (door buzzer) • 2 doors can be controlled (e.g. for garden gate) • Weatherproof IP65, can be flexibly mounted using a mounting frame(surface-mounted or flush-mounted)	• 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 • Central control unit of the door intercom system (mandatory for every 2-wire installation) • 2 MPx day/night camera with IR-LEDs and 180° viewing angle for optimal overview during ringing events • Push alarm on mobile device via ABUS Link Station App • High-quality microphone and loudspeaker Very high speech quality (clear sound of voices, filtering out background noise) • Bell buttons with background lighting • Audio, video and voltage via 2-wire • Further relay inputs/outputs e.g. door opener (door buzzer) • Weatherproof IP65, can be flexibly mounted using a mounting frame(surface-mounted or flush-mounted) • Weatherproof IP65
Display	2-Way Audio	2-Way Audio
Lens	Fix	Fix
Resolution	2 MPx	2 MPx
Frame rate	-	-
IR LEDs	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	TVHS20020, TVHS20030, TVHS20040, TVHS20340	TVHS20020, TVHS20030, TVHS20040, TVHS20340
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
Compatible with ABUS Link Station	-	-
Dimensions (W × H × D)	98 × 99.8 × 43.9 mm	98 × 99.8 × 43.9 mm
Scope of delivery	IP-Video module • Quickguide • Safety Instructions	2-wire video module • Quickguide • Safety Instructions

Item number	TVHS20020	TVHS20030	TVHS20020S	TVHS20030S
Description	**Bell button module (6 buttons) for door intercom**	**Keypad module for door intercom**	**Bell button module (6 buttons) for door intercom (stainless steel)**	**Keypad module for door intercom (stainless steel)**
	• Bell button module for ModuVis door intercom system • Extends the system by 6 bell buttons with Backlighting • Including covers for unused bell buttons • Suitable for surface-mounted or flush-mounted frames • Up to 8 modules can be integrated into a ModuVis system	• Keypad module for ModuVis door intercom system • 6-digit PIN code for access control • Number keys with backlight • Suitable for surface-mounted or flush-mounted frames • Keyless access • 3 general PIN codes can be set (as general code, e.g. for janitorial service) • 1 separate PIN code per accommodation unit (up to 49 PIN codes in the system)	• Bell button module for ModuVis door intercom system • Extends the system by 6 bell buttons withBacklighting • Including covers for unused bell buttons • Suitable for surface-mounted or flush-mounted frames • Up to 8 modules can be integrated into a ModuVis system	• Keypad module for ModuVis door intercom system • 6-digit PIN code for access control • Number keys with backlight • Suitable for surface-mounted or flush-mounted frames • Keyless access • 3 general PIN codes can be set (as general code, e.g. for janitorial service) • 1 separate PIN code per accommodation unit (up to 49 PIN codes in the system)
Dimensions (W × H × D)	98 × 99.8 × 33.7 mm	98 × 99.8 × 33.7 mm	98 × 99.8 × 33.7 mm	98 × 99.8 × 33.7 mm
Recommended accessories	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
Description	**Illuminated info module for door intercom**	**Blind cover for door intercom**
	• Illuminated info module for ModuVis door intercom system • Ideal as a name tag or house number display • Suitable for surface-mounted or flush-mounted frames • Several modules can be integrated into one ModuVis system	• Empty module (blind cover) for ModuVis door intercom system • Suitable for surface-mounted or flush-mounted frames
Dimensions (W × H × D)	98 × 99.8 × 33.7 mm	98 × 99.8 × 33.7 mm
Scope of delivery	Info module • Quickguide • Safety Instructions	Cover for empty module • Quickguide • Safety Instructions

Item number	TVHS20200	TVHS20210	TVHS20220
Description	**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**
	• Indoor station for the ModuVis door intercom system • Simple operation and communication in very good voice and picture quality within the door intercom system • Live image display of the video module or of up to 16 network cameras (IP/WLAN) • Intercom and react (e.g. opening the door) when someone rings the bell • Recording on internal memory (expandable with microSD card) • Saving and displaying pictures of missed people who rang the bell • Relay output for flat door opener • Digital input for floor bell push button and connection for existing door bell • PoE network connection and WLAN/WiFi • Including wall bracket (mounting plate)	• Indoor station for the ModuVis door intercom system • Simple operation and communication in very good voice and picture quality within the door intercom system • Live image display of the video module or of up to 16 network cameras (IP/WLAN) • Intercom and react (e.g. opening the door) when someone rings the bell • Recording on internal memory (expandable with MicroSD card) • Save and display pictures of missed people who rang the bell. • Connection for already existing door gong • Relay output for door opener of the flat floor door • Digital input for floor bell push button • Including wall bracket (mounting plate)	• Indoor station for the ModuVis door intercom system • Simple operation and communication in very good voice and picture quality within the door intercom system (up to 49 monitors) • Live image display of the video module or of up to 16 network cameras (IP/WLAN) • Intercom and react (e.g. opening the door) when someone rings the bell • Recording on internal memory (expandable with microSD card) • Saving and displaying pictures of missed people who rang the bell • Relay output for flat door opener • Digital input for floor bell push button and connection for existing door bell • PoE network connection and WLAN/WiFi • Including wall bracket (mounting plate)
Display	7" Touchscreen Monitor	7" Touchscreen Monitor	10" Touchscreen Monitor
Resolution	1.024 x 600 Pixel	1.024 x 600 Pixel	1.024 x 600 Pixel
Audio	Built-in microphone and speaker	Built-in microphone and speaker	Built-in microphone and speaker
Microphone	Yes	Yes	Yes
Operation	Touch-Screen	Touch-Screen	Touch-Screen
Connections	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
Network access	RJ45	-	RJ45
PoE Standard	IEEE 802.3af	-	IEEE 802.3af
Alarm input (NO/NC)	8	8	8
Max. operating temperature	55° C	55° C	55° C
Min. operating temperature	-10° C	-10° C	-10° C
Max. air humidity	90	90	90 %
Compatible with ABUS Link Station	Yes	Yes	Yes
Dimensions (W × H × D)	200 × 140 × 15 mm	200 × 140 × 15 mm	254 × 166 × 15 mm
Scope of delivery	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

Item number	TVHS20130S	TVHS20140S	TVHS20150S
Description	**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)**
	• Single frame for surface mounting for the ModuVis door intercom system • Weatherproof housing	• Double frame for surface mountingf or the ModuVis door intercom system • Weatherproof housing	• Triple frame for surface mounting for the ModuVis door intercom system • Weatherproof housing
Dimensions (W × H × D)	107 × 117 × 37 mm	107 × 219 × 37 mm	107 × 320 × 37 mm
Scope of delivery	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
Description	**Frame for 1 module for surface mounting**	**Frame for 2 modules for surface mounting**	**Frame for 3 modules for surface mounting**
	• Single frame for surface mounting for the ModuVis door intercom system • Weather-resistant anodized aluminum housing	• Double frame for surface mounting for the ModuVis door intercom system • Weather-resistant anodized aluminum housing	• Triple frame for surface mounting for the ModuVis door intercom system • Weather-resistant anodized aluminum housing
Dimensions (W × H × D)	107 × 117 × 37 mm	107 × 219 × 37 mm	107 × 320 × 37 mm
Scope of delivery	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
Description	**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)**
	• Single frame for flush mounting for the ModuVis door intercom system • Weatherproof housing • Including matching flush-mounted box	• Double frame for flush mounting for the door intercom system ModuVis • Weatherproof housing • Including matching flush-mounted box	• Triple frame for flush mounting for the door intercom system ModuVis • Weatherproof housing • Including matching flush-mounted box
Dimensions (W × H × D)	124 × 134 × 49 mm	124 × 236 × 49 mm	124 × 337 × 49 mm
Scope of delivery	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
Description	**Frame for 1 module for flush mounting**	**Frame for 2 modules for flush mounting**	**Frame for 3 modules for flush mounting**
	• Single frame for flush mounting for the ModuVis door intercom system • Weatherproof housing made ofanodised aluminium • Including matching flush-mounted box	• Double frame for flush mounting for the door intercom system ModuVis • Weather-resistant anodized aluminum housing • Including matching flush-mounted box	• Triple frame for flush mounting for the door intercom system ModuVis • Weather-resistant anodized aluminum housing • Including matching flush-mounted box
Dimensions (W × H × D)	124 × 134 × 4 mm	124 × 236 × 4 mm	124 × 337 × 4 mm
Scope of delivery	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

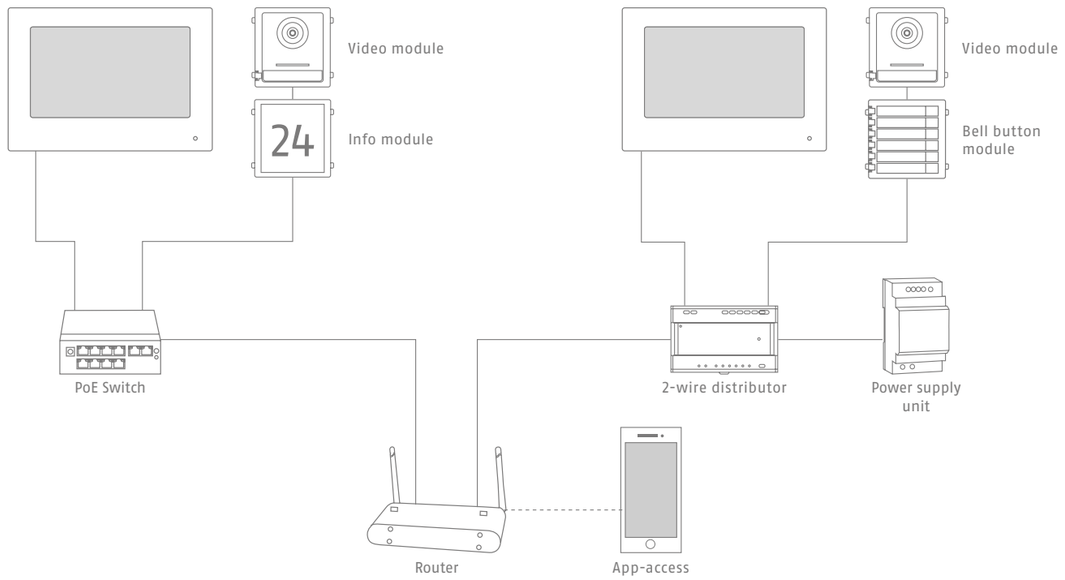
Item number	TVHS20160	TVHS20170	TVHS20180
Description	**External housing for frame surface mounting (1 module)**	**External housing for frame surface mounting (2 modules)**	**External housing for frame surface mounting (3 modules)**
	• External housing for frame surface mounting (1 module) for the ModuVis door intercom system • Extended weather protection for outdoor installation	• External housing for frame surface mounting (2 modules) for the ModuVis door intercom system • Extended weather protection for outdoor installation	• External housing for frame surface mounting (3 modules) for the ModuVis door intercom system • Extended weather protection for outdoor installation
Dimensions	115 x 122 x 58 mm	115 x 224 x 58 mm	115 x 325 x 58 mm
Scope of delivery	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

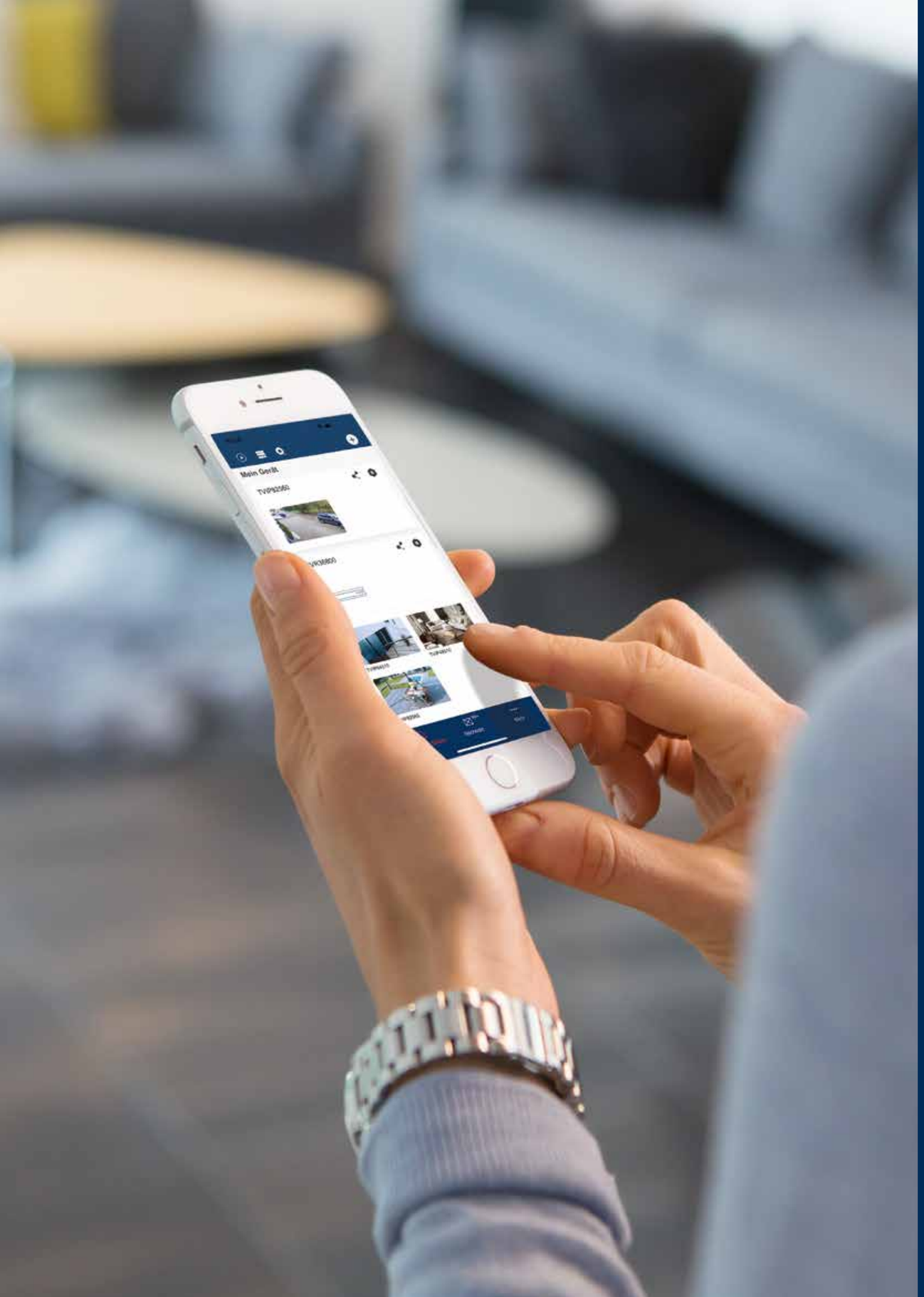
Item number	TVHS20300	TVHS20310
Description	**24V DC power supply unit for DIN Rail**	**2-wire distributor for video module**
	• 24V DC power supply unit for the ModuVis door intercom system • Suitable for installation with 2-wire distributor TVHS20310 • Compatible with DIN rail TH 35/7.5 or TH 35/15	• 2-wire distributor for the ModuVis door intercom system • Required for installation with 2-wire video moduleand 2-wire indoor station
Dimensions (W × H × D)	53 × 55 × 90 mm	144 × 90 × 65 mm
Scope of delivery	24 VDC power supply for top hat rail • Safety Instructions	2-Wire distributor for video module • Quickguide • Safety Instructions

Item number	TVHS20320	TVHS20340
Description	**Monitor desk mount**	**Security module**
	• Table mount for the door intercom system ModuVis • Suitable for 7" indoor station (PoE & 2-wire)	• Security module for the ABUS door station • Manipulation protection for the door station • Interface for electric locks
Dimensions (W × H × D)	122 × 64 × 86 mm	115 × 48 × 25 mm
Scope of delivery	Monitor Table Stand	Security module • Mounting material • 2 x Connection cable • Drilling template

EXEMPLARY SYSTEM STRUCTURE

Variant: mixed operation





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).

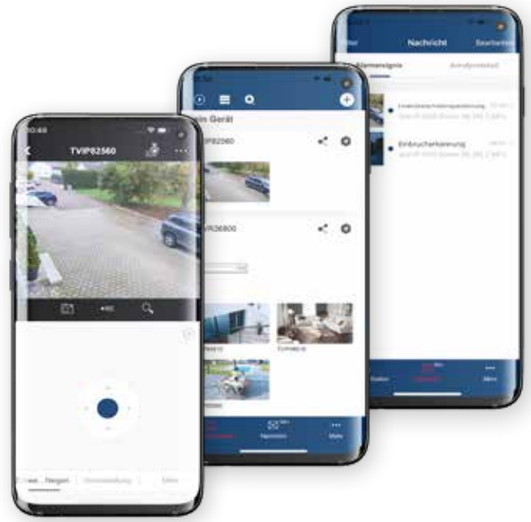
CONTROL VIA APP

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 + AXXONSOFT

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.

AXXON INTELLECT:

The open, freely programmable platform for the specific configuration of large-scale projects.

ACCESSORIES

Item number	APP12700	APP12750
Description	**ABUS Link Station Lite (Android)**	**ABUS Link Station Pro (Android)**
	• Intuitive user and operator interfaces, e.g. camera arrangement via drag & drop • Remote access to live images and recordings via mobile end devices • Live image display from up to 16 cameras in landscape mode • Push notification when someone calls • Save snapshots/video clips directly from the live view • Pinch-to-zoom function: stepless digital zooming in the camera's live image and playback modes • Control and configure a zoom camera (PTZ) using the touch screen • Control switches or relays, e.g. to open a door or operate a light switch • Secure connection via encrypted data transfer	• Intuitive user and operator interfaces, e.g. camera arrangement via drag & drop • Remote access to live images and recordings via mobile end devices • Live image display from up to 16 cameras in landscape mode • Push notification when someone calls • Direct saving of snapshots/video clips from the live view • Pinch-to-zoom function: stepless digital zooming in the camera's live image and playback modes • Control and configure a zoom camera (PTZ) using the touch screen • Control switches or relays, e.g. to open a door or operate a light switch • Secure connection via encrypted data transfer

Item number	APP12800	APP12850
Description	**ABUS Link Station Lite (iOS)**	**ABUS Link Station Pro (iOS)**
	• Intuitive user and operator interfaces, e.g. camera arrangement via drag & drop • Remote access to live images and recordings via mobile end devices • Live image display from up to 16 cameras in landscape mode • Push notification when someone calls • Save snapshots/video clips directly from the live view • Pinch-to-zoom function: stepless digital zooming in the camera's live image and playback modes • Control and configure a zoom camera (PTZ) using the touch screen • Control switches or relays, e.g. to open a door or operate a light switch • Secure connection via encrypted data transfer	• Intuitive user and operator interfaces, e.g. camera arrangement via drag & drop • Remote access to live images and recordings via mobile end devices • Live image display from up to 16 cameras in landscape mode • Push notification when someone calls • Direct saving of snapshots/video clips from the live view • Pinch-to-zoom function: stepless digital zooming in the camera's live image and playback modes • Control and configure a zoom camera (PTZ) using the touch screen • Control switches or relays, e.g. to open a door or operate a light switch • Secure connection via encrypted data transfer

Item number	TVSW12000
Description	**ABUS IP Installer (Windows)**
	• PC software for performing quick searches for all ABUS devices on the network • Quick process for making changes to the IP settings • Display of firmware statuses and automatic online firmware updates for all ABUS cameras and recorders • Straightforward download of the manual and quick guide for discovered devices

Item number	TVSW11001	TVSW11005
Description	**ABUS CMS Software (Windows)**	**ABUS CMS Software (Mac OS)**
	• PC software for management of up to 256 recorders and 1024 video channels • Live view and playback for up to 64 cameras on 4 monitors • Integrated time schedule management, event programming and log data evaluation • Graphical bar display of the camera archive with time bars for event and continuous record • Remote configuration for recorder programming • Simple data export via integrated download manager • Integrated alarm manager with pop-up function for immediate display and playback of suspicious events • Creation of snapshots directly from the live view • Creation and management of up to 50 users, with the option of individual configuration for each user • Smart search through recordings using motion detection so events can be found quickly	• Mac software for management of ABUS recorders • Live view and playback for up to 64 cameras on 4 monitors • Integrated time schedule management, event programming and log data evaluation • Graphical bar display of the camera archive with time bars for event and continuous record • Remote configuration for recorder programming • Simple data export via integrated download manager • Integrated alarm manager with pop-up function for immediate display and playback of suspicious events • Creation of snapshots directly from the live view • Creation and management of up to 50 users, with the option of individual configuration for each user

Item number	TVAC10101
Description	**7“ Universal test monitor**
	• Universal test monitor for the maintenance and installation of IP network cameras as well as analog TVI, CVI, AHD and CVBS cameras • High-resolution 7 „touch display with 1.280 x 800 pixels • Supports 4K H.264 and 4K H.265 streams • Compatible with third-party manufacturers over neutral protocol • With network tools to maintain and verify the network • Integrated PoE power supply with 24 W at the LAN port • Integrated mobile power supply for devices and integrated USB power supply for USB devices • Wi-Fi and Wi-Fi hotspot feature • With cable tester for checking network cables • Data backup on SD card possible (screenshots / videos / documents)
Dimensions (W × H × D)	231 × 172 × 52 mm
Scope of delivery	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

Item number	TVAC71070	TVAC31700
Description	**IR Illuminator, 15 W, 10°- 95° changeable lens**	**Mounting bracket for IR illuminator**
	• Interchangeable diffuser lens 10°, 20°, 30°, 40°, 80° & 95° • Range up to 130 m • Weatherproof housing IP66 • Variable power supply input 12–32 V DC / 24 V AC +/-10% • Additional bracket available for horizontal alignment TVAC31700 • Integrated photo sensor for automatic activation and deactivation • Control input for remote switching • Self-cleaning lens coating technology	• Additional mounting bracket available for a TVAC71070 IR Illuminator • For horizontal pivoting of the IR illuminator up to 180° • Stainless steel, black powder coated
Dimensions (W × H × D)	78 × 110 × 68 mm	113 x 100 x 75 mm
Scope of delivery	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

Item number	TVAC10001	TVAC10014	TVAC10033
Description	**10.4“ LED Monitor with BNC Input**	**21.5“ LED Monitor with BNC Input**	**21.5“ Full HD LED Monitor**
	• High contrast 10.4“ LED monitor (4:3 format) • Resolution: 800 x 600 pixels • Connections: 1 x HDMI, 1 x VGA, 1 x BNC input, 1 x BNC output,1 x audio input • LED backlighting: Brilliant colour display and high contrast • Integrated loudspeaker • Compatible with VESA brackets • Compact dimensions: ideal for checkout areas, for example	• High-contrast 21“ LED monitor with bright colour display (16:9 format) • Full HD resolution: 1.920 x 1.080 pixels • Connections: 1 x HDMI, 2x BNC input and output for HD-TVI, HD-CVI, AHD and CVBS • Plug & Play with all conventional analogue technologies • LED backlighting: Brilliant colour display and high contrast • Compatible with VESA brackets	• 21.5“ LED Monitor with full HD resolution: 1920 x 1080 pixels • Fast reaction time (5 ms) for flowing images • Brilliant colour display and high contrast in 16:9 format • Ideal for high-resolution full HD recording systems • Graphical on-screen display (OSD) • Connections: HDMI, VGA • Low power consumption for long-term monitoring (LED technology) • Compatible with VESA brackets for wall and ceiling installation
Dimensions (W × H × D)	268 × 222 × 29 mm	490 × 359 × 147 mm	489 × 378 × 110 mm
Scope of delivery	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

Item number	TVAC10061	TVAC10071
Description	**23.8“ Full HD LED Monitor**	**27“ 4K Ultra HD LED Monitor**
	• 24“ LED monitor with full HD resolution: 1920 x 1080 pixels • Fast reaction time (5 ms) for flowing images • Brilliant colour display and high contrast in 16:9 format • Ideal for high-resolution full HD recording systems • Graphical on-screen display (OSD) • Connections: HDMI, VGA • Low power consumption for long-term monitoring (LED technology) • Compatible with VESA brackets for wall and ceiling installation	• 27“ LED monitor with 4K ultra HD resolution: 3840 x 2160 pixels • Fast reaction time (5 ms) for flowing images • Brilliant colour display and high contrast in 16:9 format • Ideal for high-resolution 4K recording systems • Graphical on-screen display (OSD) • Connections: HDMI, DisplayPort (DP), PC audio output 3.5 mm • Integrated loudspeaker • Low power consumption for long-term monitoring (LED technology) • Compatible with VESA brackets for wall and ceiling installation
Dimensions (W × H × D)	615 × 400 × 250 mm	540 × 418 × 227 mm
Scope of delivery	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
Description	**4-Port PoE Gigabit Switch**	**8-Port PoE Gigabit Switch**
	• Connections: 4 x PoE gigabit (downstream), 2 x gigabit (uplink) • Supports PoE and PoE+ • Plug & Play, no configuration required • Robust design, easy to install anywhere	• Connections: 8 x PoE gigabit (downstream), 1 x gigabit (uplink) RJ45, 1 x gigabit (uplink) SFP • Supports PoE and PoE+ • Plug & Play, no configuration required • Robust design, easy to install anywhere
Max. PoE power per port	30 Watt	30 Watt
Total PoE budget	60 Watt	120 Watt
Dimensions (W × H × D)	86 × 27 × 135 mm	102 × 27 × 200 mm
Scope of delivery	4-Port PoE Gigabit Switch • Power Supply • Mounting material	8-Port PoE Gigabit Switch • Power Supply • Mounting material

Item number	ITAC10120	ITAC10130
Description	**16-Port PoE Gigabit Switch Managed**	**24-Port PoE Gigabit Switch Managed**
	• Connections: 16 x PoE gigabit (downstream), 4 x gigabit (uplink) SFP • Supports PoE and PoE+ • Temperature-controlled fan • Supports web-based Layer 2 network management and simple PoE management • Supports high-speed data-forwarding, particularly suitable for large volumes of data in professional video surveillance • Suitable for professional installation in a 19″ rack	• Connections: 24 x PoE gigabit (downstream), 4 x gigabit (uplink) SFP • Supports PoE and PoE+ • Temperature-controlled fan • Supports web-based Layer 2 network management and simple PoE management • Supports high-speed data-forwarding, particularly suitable for large volumes of data in professional video surveillance • Suitable for professional installation in a 19″ rack
Max. PoE power per port	30 Watt	30 Watt
Total PoE budget	270 Watt	390 Watt
Dimensions (W × H × D)	320 × 45 × 442 mm	320 × 45 × 442 mm
Scope of delivery	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	TVAC23000
Description	**1-Port Fiber Optical Converter**	**SFP Module Singlemode**	**Interface converter (RS232/RS485/RS422 -> TCP/IP)**
	• Media converter: Network cable to optical fibre • Connections: 1 x gigabit SFP for optical fibre, 1 x gigabit RJ45 for Ethernet cable • Supports hot-plug and SFP modules of various power levels • Provides 6 kV overvoltage protection and 6 kV/8 kV EMC protection	• SFP modules for LC plugs according to SFF-8472 standard • Supports hot-plug • Supports single-mode optical fibres • Transmission distance of up to 20 km • 1310 nm FP laser • Complies with the IEC-60825 laser safety standard	• Universal data converter makes your serial terminal network-ready • Supports the most common serial interfaces RS232, RS422 and RS485 • Supports data baud rade 1200 to 115200 bps • Supports auto MDI / MDIX • Supports three operation modes TCP Server, TCP Client and UDP Mode
Dimensions (W × H × D)	82 × 103 × 25 mm	14 × 6 × 56 mm	67 × 110 × 27 mm
Scope of delivery	1-Port Fiber Optical Converter • Power Supply • Mounting material	SFP module	Interface converter (RS232/RS485/RS422 -> TCP/IP) • Power Supply • Mounting material

Item number	ITAC10320
Description	**Powerline PoE Adapter***
	• Data transmission via available power grid • 2 x RJ45 (2 x PoE 802.3af or 1 x PoE 802.3at) • Supports PoE for direct operation of your PoE-capable network device at the Powerline Adapter • Fast transmission rates of up to 1000 Mbit/s according to G.hn (HomeGrid standard) • Supports up to 16 adapters in a network • Secure transmission thanks to 128 bit AES encryption
Dimensions (W × H × D)	72 × 146 × 39 mm
Scope of delivery	Powerline PoE Adapter • Ethernet cable • Safety instructions

*not available in Switzerland

Item number	ITAC10200	ITAC10210
Description	**2-Port PoE Repeater**	**Network Surge Protection**
	• Up to 200 m extension of a 100 Mbit/s Ethernet PoE/PoE+ cable • 2 x 100 Mbit/s PoE outputs for simple cascading • No additional power supply required • Supports PoE and PoE+ • Compatible with end-span and mid-span PoE • Plug & Play, no configuration required • Robust design, easy to install anywhere	• Protects cameras and recorders from overvoltage in the network line • Supports PoE and PoE+ • Compatible with end-span and mid-span PoE • Fast tripping time of less than 1 ns • Complies with the IEC61643-21:2000 standard • SPD Type 3
Dimensions (W × H × D)	82 × 25 × 103 mm	52 × 28 × 110 mm
Scope of delivery	2-Port PoE Repeater • Mounting material	Network Surge Protection

Item number	TVAC25005	TVAC25001
Description	**PoE Injector, 60 W**	**PoE Injector, 30 W**
	• For transmitting data and power to High PoE-compatible network cameras via network cable • For cameras of up to 60 watt power consumption • Transmission range of up to 100 m • Compatible with ABUS model IPCS83500, IPCS82530, IPCS82520, IPCS82500	• For transmitting power and data via network cable to all PoE capable network cameras • Transmission range up to 100 m • PoE+ with 30 W output power • Meets IEEE 802.3af/at, IEEE 802.3 10Base-T/100Base-TX/ IEEE802.3ab 1000Base-T standard
Dimensions (W × H × D)	70 × 36 × 180 mm	60 × 64 mm
Scope of delivery	PoE Injector, 60W	PoE Injector • Power cable • Clamp for power cable

Item number	TVAC26030
Description	**DVR/PTZ network controller**
	• 3D joystick with zoom in/out function • Direct control of a DVR/NVR possible • Direct access to the OSD of the dome camera possible • LCD display for viewing • RS485 interface / RJ45 interface
Dimensions (W × H × D)	345 × 118 × 165 mm
Scope of delivery	DVR/NVR/PTZ Controller • 8-pin terminal connector • Power supply unit

Item number	TVAC26010
Description	**USB Keyboard for ABUS CMS**
	• Simple PTZ control of cameras with ABUS CMS software • 3-axis joystick (horizontal/vertical/rotation) • 15 freely configurable buttons for presets/patrols and other functions • 2 shortcut buttons on the control handle for taking snapshots • Power supply and data transmission via USB • Plug and play installation via USB port
Dimensions (W × H × D)	167 × 116 × 177 mm
Scope of delivery	USB Keyboard for ABUS CMS/NVR

Item number	TVAC35500	TVAC35510	TVAC35520
Description	**CCTV Performance Power Supply 2 A**	**CCTV Performance Power Supply 3 A**	**CCTV Performance Power Supply 5 A**
	• Regulated 13.8 V DC output signal • Electronic overload protection • Additional 1.0 charging current for backup battery (with holding charge) • LED control indicators for mains and fuse • Rugged metal housing		
Dimensions (W × H × D)	338 × 281 × 86 mm	338 × 281 × 86 mm	338 × 281 × 86 mm
Scope of delivery	CCTV Performance Power Supply 2 A • Instruction guide • Installation material	CCTV Performance Power Supply 3 A • Installation manual • Installation material	CCTV Performance Power Supply 5 A • Installation manual • Installation material

Item number	TVAC35202	TVAC35001
Description	**Mini clip built-in power supply unit 12V / 1A**	**Plug-in Power Supply „International“**
	• Quick installation: lever spring clamp means tool is not required • Quick installation in 55 mm flush sockets • Input voltage: 230 V AC • Output voltage: 12 V DC at 1.0 A	• Flexible switching power supply for international use • 4 different plug adapters (EU, AUS, UK, US) • Output voltage 12 V DC with 1.5 A
Dimensions (W × H × D)	55 × 51 × 26 mm	43.5 × 74 × 35.5 mm
Scope of delivery	Mini clip built-in power supply unit	Plug-in Power Supply „International“ • 4 different plug attachments (EU, AUS, UK, US)

Item number	TVAC35800	TVAC40890
Description	**DC 2-Pin Adapter female**	**RJ45 Connector**
	• Connection of a 2 wire power supply to the round plug (DC) of the camera	• Suited for CAT-5 cable
Dimensions (W × H × D)	35 × 14 × 13 mm	14 x 35 x 14 mm
Scope of delivery	DC/2 Pin Adapter	RJ45 Connector • Bend relief

Item number	AU1312	AU1313	AU1500
Description	**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**
	• Printed on both sides • Reflective • For attachment on and behind glass • Weatherproof • Notice of video surveillance is required by law in public areas		
Dimensions (W × Ø)	148 × 105 mm	74 × 52.5 mm	90 x 90 mm
Scope of delivery	Warning Sticker CCTV surveillance 148 x 105mm	Warning Sticker CCTV Surveillance 74 x 52,5 mm	

Item number	TVAC41010	TVAC41020	TVAC41030	TVAC41040
Description	**1 TB 3.5" SATA HDD**	**2 TB 3.5" SATA HDD**	**3 TB 3.5" SATA HDD**	**4 TB 3.5" SATA HDD**
	• Hard drive with 1 TB storage capacity and form factor 3.5" • Optimised for use in an ABUS recording system (NVR & DVR) • Suitable for 24/7 recording • Low power consumption	• Hard drive with 2 TB storage capacity and form factor 3.5" • Optimised for use in an ABUS recording system (NVR & DVR) • Suitable for 24/7 recording • Low power consumption	• Hard drive with 3 TB storage capacity and form factor 3.5" • Optimised for use in an ABUS recording system (NVR & DVR) • Suitable for 24/7 recording • Low power consumption	• Hard drive with 4 TB storage capacity and form factor 3.5" • Optimised for use in an ABUS recording system (NVR & DVR) • Suitable for 24/7 recording • Low power consumption
Dimensions (W × H × D)	102 × 20 × 147 mm	102 × 26 × 147 mm	102 × 26 × 147 mm	102 × 26 × 147 mm
Scope of delivery	SATA hard drive, 1 TB	SATA hard drive, 2 TB	SATA hard drive, 3 TB	SATA hard drive, 4 TB

Item number	TVAC41060	TVAC41080	TVAC41090
Description	**6 TB 3.5" SATA HDD**	**8 TB 3.5" SATA HDD**	**10 TB 3.5" SATA HDD**
	• Hard drive with 6 TB storage capacity and form factor 3.5" • Optimised for use in an ABUS recording system (NVR & DVR) • Suitable for 24/7 recording • Low power consumption	• Hard drive with 8 TB storage capacity and form factor 3.5" • Optimised for use in an ABUS recording system (NVR & DVR) • Suitable for 24/7 recording • Low power consumption	• Hard drive with 10 TB storage capacity and form factor 3.5" • Optimised for use in an ABUS recording system (NVR & DVR) • Suitable for 24/7 recording • Low power consumption
Dimensions (W × H × D)	102 × 26 × 147 mm	102 × 26 × 147 mm	102 × 26 × 147 mm
Scope of delivery	SATA hard drive, 6 TB	8 TB 3.5" SATA HDD	10 TB 3.5" SATA HDD

Item number	TVAC41100	TVAC41110	TVAC41120	TVAC41130
Description	**MicroSD card, 32 GB**	**MicroSD card, 64 GB**	**MicroSD card, 128 GB**	**MicroSD card, 256 GB**
	• Ideal for storing video data during long-term continuous operation • High write speed of up to 100 MB/s (class 10) • Tested for adverse operating conditions: shock-resistant, waterproof and able to withstand extreme temperatures	• Ideal for storing video data during long-term continuous operation • High write speed of up to 20 MB/s (class 10) • Tested for adverse operating conditions: shock-resistant, waterproof and able to withstand extreme temperatures	• Ideal for storing video data during long-term continuous operation • High write speed of up to 100 MB/s (class 10) • Tested for adverse operating conditions: shock-resistant, waterproof and able to withstand extreme temperatures	
Scope of delivery	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	TVAC40801	TVAC40811	TVAC40831	TVAC40841	TVAC40851
Description	**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**
	• Twisted pair cable with RJ45 plug • Suitable for Ethernet networks up to 10 gigabits per second • Designed for operating frequencies up to 500 MHz • Cores shielded in pairs with metal foil • The entire cable is also provided with a braided shield • RoHS compliant				
Scope of delivery	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

ITEM NUMBER INDEX

APP12700	ABUS Link Station Lite (Android)	**82**
APP12750	ABUS Link Station Pro (Android)	**82**
APP12800	ABUS Link Station Lite (iOS)	**82**
APP12850	ABUS Link Station Pro (iOS)	**82**
AU1420	Warning Sticker CCTV surveillance with ABUS Logo, (german) 148X105mm	**91**
AU1421	Warning Sticker CCTV Surveillance with ABUS Logo, (german) 74x52,5mm	**91**
AU1500	Warning Sticker CCTV Surveillance (german) 90 x 90 mm	**91**
IPCA54581B	Thermal Dome Bi-Spectral 4MPx (3.6 / 4.3 mm)	**33**
IPCA64581D	Thermal Tube Bi-Spectral 4MPx (9.7 / 8 mm)	**33**
IPCB34511A	IP Mini Tube 4 MPx (2.8 mm)	**39**
IPCB34511B	IP Mini Tube 4 MPx (4mm)	**39**
IPCB34611A	IP Mini Tube 4 MPx Black (2.8 mm)	**39**
IPCB38511A	IP Mini Tube 8 MPx (4K, 2.8 mm)	**40**
IPCB38511B	IP Mini Tube 8 MPx (4K, 4mm)	**40**
IPCB44511A	IP Mini Dome 4 MPx (2.8 mm)	**34**
IPCB44511B	IP Mini Dome 4 MPx (4mm)	**34**
IPCB44561A	IP Mini Dome Wi-Fi 4 MPx (2.8mm)	**34**
IPCB44611A	IP Mini Dome 4 MPx Black (2.8mm)	**35**
IPCB44611B	IP Mini Dome 4 MPx Black (4mm)	**35**
IPCB54511A	IP Ball Dome 4 MPx (2.8mm)	**36**
IPCB54511B	IP Ball Dome 4 MPx (4mm)	**36**
IPCB54611B	IP Ball Dome 4 MPx Black (4mm)	**37**
IPCB58511A	IP Ball Dome 8 MPx (2.8mm)	**36**
IPCB58511B	IP Ball Dome 8 MPx (4mm)	**37**
IPCB58611A	IP Ball Dome 8 MPx Black (2.8mm)	**37**
IPCB64521	IP Tube 4 MPx (2.8–12 mm)	**41**
IPCB64621	IP Tube 4 MPx Black (2.8 - 12mm)	**42**
IPCB68521	IP Tube 8 MPx (2.8 - 12mm)	**41**
IPCB68621	IP Tube 8 MPx Black (2.8 - 12mm)	**42**
IPCB74521	IP Dome 4 MPx (2.8–12 mm)	**38**
IPCB78521	IP Dome 8 MPx (2.8 - 12mm)	**38**
IPCS24510	IP Fisheye 12 MPx	**47**
IPCS34511A	IP Mini Tube 4 MPx (2.8 mm, WL)	**45**
IPCS34511B	IP Mini Tube 4 MPx (4 mm, WL)	**45**
IPCS34611A	IP Mini Tube 4 MPx Black (2.8 mm, WL)	**45**
IPCS54511A	IP Ball Dome 4 MPx (2.8 mm, WL)	**44**
IPCS54511B	IP Ball Dome 4 MPx (4 mm, WL)	**44**
IPCS54611A	IP Ball Dome Black 4 MPx 2.8 mm, WL)	**44**
IPCS58571A	IP Ball Dome 8 MPx (2.8 mm) with 2-WAY Audio & Alarm	**47**
IPCS64511A	IP Tube 4 MPx (2.8 mm, WL)	**46**
IPCS64511B	IP Tube 4 MPx (4 mm, WL)	**46**
IPCS64531	IP Tube 4 MPx (2.8-12 mm, licence plate/ANPR)	**47**
IPCS64541	IP Tube 4 MPX Telephoto Motorised Zoom (4.7-118 mm)	**48**
IPCS64611A	IP Tube 4 MPx Black (2.8 mm, WL)	**46**
IPCS84511	IP Mini PTZ 4 MPx (4x)	**48**
IPCS84531	IP PTZ 4 MPx (25x)	**49**
IPCS84550	IP PTZ 4 MPx (32x)	**49**
IPCV10000	ABUS IP Camera Viewer (1-channel)	**66**
IPCV10010	ABUS Quad View Add-on for ABUS IP Camera Viewer	**67**
IPCV10020	ABUS Overlay Add-on for ABUS IP Camera Viewer	**67**
ITAC10100	4-Port PoE Gigabit Switch	**86**
ITAC10110	8-Port PoE Gigabit Switch	**86**
ITAC10120	16-Port PoE Gigabit Switch Managed	**86**
ITAC10130	24-Port PoE Gigabit Switch Managed	**86**
ITAC10200	2-Port PoE Repeater	**88**
ITAC10210	Network Surge Protection	**88**
ITAC10250	1-Port Fiber Optical Converter	**87**
ITAC10260	SFP Module Singlemode	**87**
ITAC10320	Powerline PoE Adapter	**87**
NVR10010	5-Channel Network Video Recorder (NVR)	**62**
NVR10020	8-Channel Network Video Recorder (NVR)	**63**
NVR10020P	8-Channel PoE Network Video Recorder (NVR)	**63**
NVR10030	16-Channel Network Video Recorder (NVR)	**64**
NVR10030P	16-Channel PoE Network Video Recorder (NVR)	**64**
NVR10040	32-Channel Network Video Recorder (NVR)	**65**
NVR10050	64-Channel Network Video Recorder (NVR)	**65**
TVAC10001	10.4" LED Monitor with BNC Input	**85**
TVAC10014	21.5" LED Monitor with BNC Input	**85**
TVAC10033	21.5" Full HD LED Monitor	**85**
TVAC10061	23.8" Full HD LED Monitor	**85**
TVAC10071	27" 4K Ultra HD LED Monitor	**85**
TVAC10101	7" Universal test monitor	**84**
TVAC23000	Interface converter (RS232/RS485/RS422 -> TCP/IP)	**87**
TVAC25001	PoE Injector, 30 W	**88**
TVAC25005	PoE Injector, 60 W	**88**
TVAC26010	USB Keyboard for ABUS CMS	**89**
TVAC26030	DVR/PTZ network controller	**89**
TVAC31201	Long Wall Mount for PTZ Dome Cameras	**57**
TVAC31205	Wall Mount for IPCS84530	**56**
TVAC31215	Wall Mount for IPCS84510	**56**
TVAC31221	Pole Mount incl. Long Wall Mount for PTZ Dome Cameras	**57**
TVAC31231	Corner Mount incl. Long Wall Mount for PTZ Dome Cameras	**57**
TVAC31235	Corner Mount	**56**
TVAC31241	Junction Box incl. Long Wall Mount for PTZ Dome Cameras	**57**
TVAC31245	Installation box for IPCS84530	**56**
TVAC31250	5.7 cm Ceiling Mount for PTZ Dome Cameras	**58**
TVAC31260	20 cm Ceiling Mount for PTZ Dome Cameras	**58**
TVAC31270	50 cm Ceiling Mount for PTZ Dome Cameras	**58**
TVAC31275	Ceiling mount frame for IPCS84530	**56**
TVAC31280	Installation Box for Hemispheric Camera	**58**
TVAC31285	Ceiling Mount for IPCS84510	**56**
TVAC31290	Installation Box with 23/46 cm Ceiling Bracket for Hemispheric Camera	**58**
TVAC31700	Mounting bracket for IR illuminator	**84**
TVAC32000	Pole Mount	**53**
TVAC32000X	Pole Mount Black	**55**
TVAC32010	Corner Mount	**53**
TVAC32020	Junction Box for Wall Mount	**54**
TVAC32020X	Junction Box for Wall Mount Black	**55**
TVAC32120	Camera Mount 160 mm	**59**
TVAC32130	Camera Mount 300 mm	**59**
TVAC32300	Junction Box Mini Tube	**52**
TVAC32400	Junction Box Mini Dome	**52**
TVAC32400X	Junction Box Mini Dome Black	**55**
TVAC32410	Junction Box for Wall Mount Mini Dome	**52**
TVAC32410X	Junction Box for Wall Mount Mini Dome Black	**55**
TVAC32420	Wall Mount Mini Dome	**53**
TVAC32420X	Wall Mount Mini Dome Black	**55**
TVAC32500	Junction Box Ball Dome	**53**
TVAC32500X	Junction Box Ball Dome Black	**54**
TVAC32520	Wall Mount Ball Dome	**53**
TVAC32520X	Wall Mount Ball Dome Black	**54**
TVAC32600	Junction Box Tube	**52**
TVAC32600X	Junction Box Tube Black	**54**
TVAC32700	Junction Box Dome	**52**
TVAC32720	Wall Mount Dome	**52**
TVAC32730	Flush Mount Dome	**53**
TVAC32780	Tinted bubble for IPCB74521, IPCB78521	**59**
TVAC32785	Transparent bubble for IPCB74521, IPCB78521	**59**
TVAC35001	Plug-in Power Supply "International"	**90**
TVAC35100	Micro-USB power supply 3 A	**67**
TVAC35202	Mini clip built-in power supply unit 12V / 1A	**90**
TVAC35500	CCTV Performance Power Supply 2 A	**90**
TVAC35510	CCTV Performance Power Supply 3 A	**90**
TVAC35520	CCTV Performance Power Supply 5 A	**90**
TVAC35800	DC 2-Pin Adapter female	**91**
TVAC40801	0,5 m CAT 6A S/FTP PIMF patch cable	**93**
TVAC40811	1 m CAT 6A S/FTP PIMF patch cable	**93**
TVAC40831	5 m CAT 6A S/FTP PIMF patch cable	**93**
TVAC40841	10 m CAT 6A S/FTP PIMF patch cable	**93**
TVAC40851	20 m CAT 6A S/FTP PIMF patch cable	**93**
TVAC40890	RJ45 Connector	**91**
TVAC41010	1 TB 3.5" SATA HDD	**92**
TVAC41020	2 TB 3.5" SATA HDD	**92**
TVAC41030	3 TB 3.5" SATA HDD	**92**
TVAC41040	4 TB 3.5" SATA HDD	**92**
TVAC41060	6 TB 3.5" SATA HDD	**92**
TVAC41080	8 TB 3.5" SATA HDD	**92**
TVAC41090	10 TB 3.5" SATA HDD	**92**
TVAC41100	MicroSD card, 32 GB	**93**
TVAC41110	MicroSD card, 64 GB	**93**
TVAC41120	MicroSD card, 128 GB	**93**
TVAC41130	MicroSD card, 256 GB	**93**
TVAC71070	IR Illuminator, 15 W, 10°- 95° changeable lens	**84**
TVHS20000	IP video module for door intercom	**71**
TVHS20000S	IP video module for door intercom (stainless steel)	**70**
TVHS20010	2-wire video module for door intercom	**71**
TVHS20010S	2-wire video module for door intercom (stainless steel)	**70**
TVHS20020	Bell button module (6 buttons) for door intercom	**72**
TVHS20020S	Bell button module (6 buttons) for door intercom (stainless steel)	**72**
TVHS20030	Keypad module for door intercom	**72**
TVHS20030S	Keypad module for door intercom (stainless steel)	**72**
TVHS20040	Illuminated info module for door intercom	**72**
TVHS20050	Blind cover for door intercom	**72**
TVHS20100	Frame for 1 module for flush mounting	**75**
TVHS20100S	Frame for 1 module for flush mounting (stainless steel)	**74**
TVHS20110	Frame for 2 modules for flush mounting	**75**
TVHS20110S	Frame for 2 modules for flush mounting (stainless steel)	**74**
TVHS20120	Frame for 3 modules for flush mounting	**75**
TVHS20120S	Frame for 3 modules for flush mounting (stainless steel)	**74**
TVHS20130	Frame for 1 module for surface mounting	**75**
TVHS20130S	Frame for 1 module for surface mounting (stainless steel)	**74**
TVHS20140	Frame for 2 modules for surface mounting	**75**
TVHS20140S	Frame for 2 modules for surface mounting (stainless steel)	**74**
TVHS20150	Frame for 3 modules for surface mounting	**75**
TVHS20150S	Frame for 3 modules for surface mounting (stainless steel)	**74**
TVHS20160	External housing for frame surface mounting (1 module)	**76**
TVHS20170	External housing for frame surface mounting (2 modules)	**76**
TVHS20180	External housing for frame surface mounting (3 modules)	**76**
TVHS20200	7" PoE Touch Monitor white, LAN/WiFi for door intercom	**73**
TVHS20210	7" Touch Monitor white, 2-wire for door intercom	**73**
TVHS20220	10" PoE Touch Monitor white, LAN/WiFi for door intercom	**73**
TVHS20300	24V DC power supply unit for DIN Rail	**76**
TVHS20310	2-wire distributor for video module	**76**
TVHS20320	Monitor desk mount	**77**
TVHS20340	Security module	**77**
TVSW11001	ABUS CMS Software (Windows)	**83**
TVSW11005	ABUS CMS Software (Mac OS)	**83**
TVSW12000	ABUS IP Installer (Windows)	**83**

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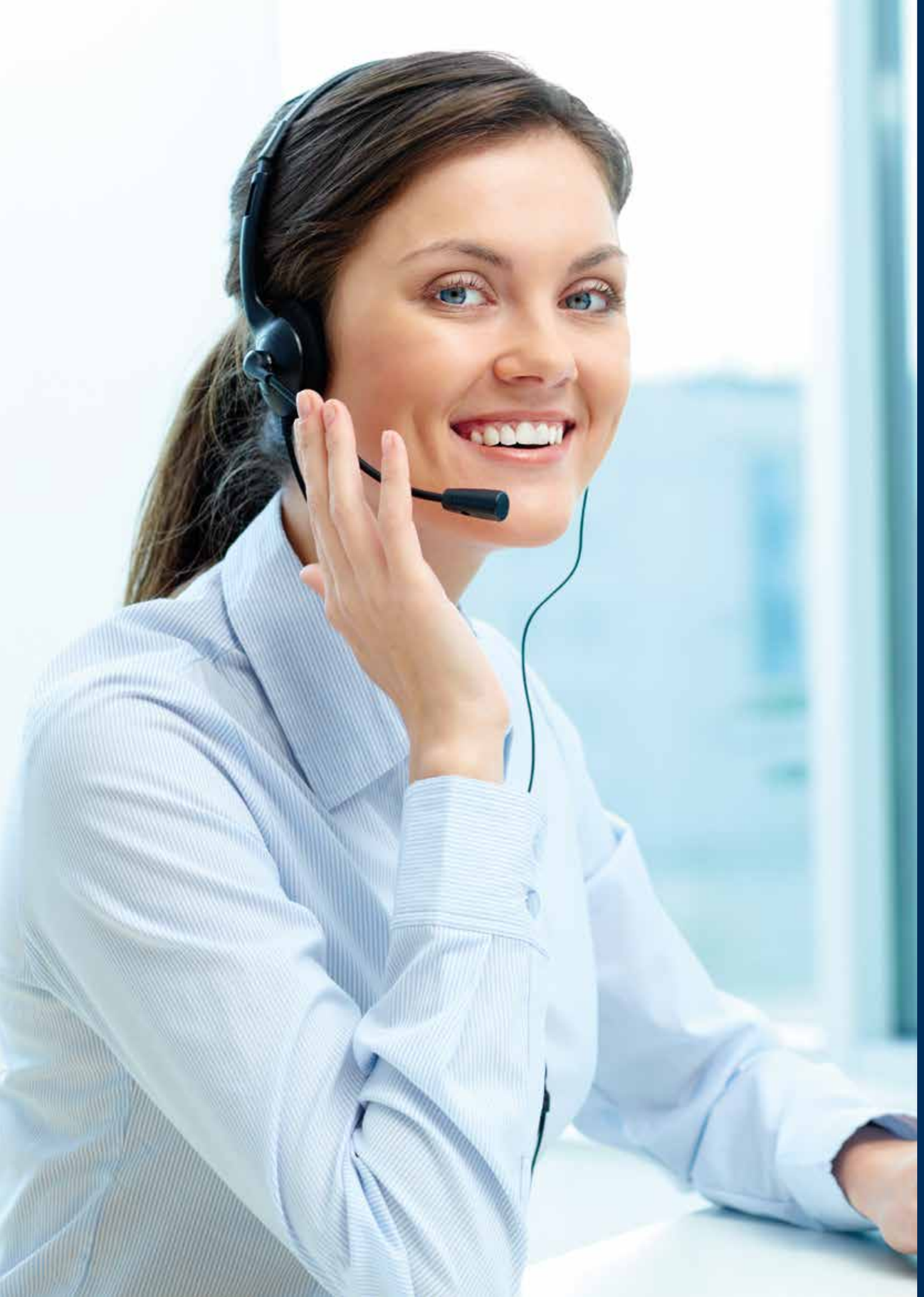

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