



Security Tech Germany

PROFESSIONAL VIDEO SURVEILLANCE

DETECT PRECISELY: INTELLIGENT & EFFICIENT

The broad portfolio of Basic, Advanced and Special cameras offers you top-quality motion and object detection, clear colour and thermal images at night & in fog. Plus further advantages for the safe detection of people and vehicles.





◀ SECURITY SINCE 1924

Since the development of the legendary padlock "Iron Rock", ABUS has stood for security, innovation and quality. Features that still characterise the company's philosophy today and thus also pave the way for electronic security technology from ABUS.

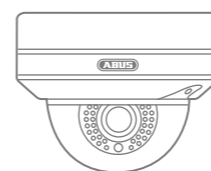
SECURITY TODAY ▶

This is also the case in video surveillance, which today is about more than just observing and documenting incidents. Rather, it is important to distinguish relevant events from disruptive influences – and this is best done automatically by an intelligent camera. Always giving optimal image results in 24/7 use, by day and night.

Efficient use of personnel and economical in storage space requirements thanks to autonomous algorithms in the camera. Accurate in evaluating and responding to incidents thanks to lightning-fast filtering of points in recordings. For this, there is the continuously improved range of ABUS IP cameras including recorder and software solutions for recording and video management.



ELECTRONIC SECURITY FROM ABUS



IP SOLUTIONS FOR COMMERCIAL PREMISES

THE B·A·S MODEL

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

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 an unrestricted overview in any environment

INTELLIGENT AND PRECISE

THE NEW ABUS IP CAMERA MODELS

MORE PROTECTION WITH LESS EFFORT

More intelligence in the camera itself. For the best image results, especially at night and at a great distance. With automatic classification/evaluation of events for the highest possible security with efficient staff deployment (precise movement alarms in any light and weather, quick search of incidents, triggering of automatic processes in unmanned operation).

CLEAR ADVANTAGES:

- Low personnel costs: Thanks to object detection/classification, the camera delivers very few, highly accurate motion alarms
- Little time required: Quick search with event filter (human/vehicle) finds relevant recordings (on the recorder (NVR)) much faster
- Considerable security: clear colour images with every detail in absolute darkness thanks to full-colour day-night function
- Top precision: reliable detection of people and vehicles in adverse conditions (night, weather, distance) by means of thermal imaging



OVERVIEW OF IP MODELS



TUBE

- Up to 8 MPx resolution (4K, 3840 x 2160 pixels)
- External IR LEDs
- Acoustic alarm output: Audio output for playing individual sound sequences in case of alarm
- 3-axes fixation: easy alignment by means of a single screw



SPHERICAL DOMES

- Up to 8 MPx resolution (4K, 3840 x 2160 pixels)
- External IR LEDs outside the lens glass
- Housing in the familiar family design



MINI DOME

- 4 MPx resolution (2560 x 1440 pixels)
- External IR LEDs outside the lens glass
- Compact camera for discreet surveillance



MINI TUBE

- Up to 8 MPx resolution (3840 x 2160 pixels)
- Modern-look housing (compact, discreet)
- External IR LEDs



DOME

- Encapsulated dome: all components covered by black trim
- For very discreet ceiling installation in combination with tinted dome and ceiling mount frame
- Acoustic alarm output: Audio output for playing individual sound sequences in case of alarm



THERMAL CAMERAS (THERMAL IMAGING)

- Thermal sensor (256 x 192 pixels): Detects and locates living beings and objects by their thermal radiation, even in the most difficult conditions, such as total darkness, in fog or undergrowth
- High-resolution optical image sensor (4 MPx, 2688 x 1520 pixels): for clear detection of people and objects located in the thermal image, for example
- Focal length (thermal/optical) up to 9.7 mm/8 mm: A person or car is detected at a distance of up to 80 m or 200 m respectively
- Thermal imaging camera and optical camera in one system (dual sensor)
- Optical fire detector: Temperature measurement and early fire detection are further areas of application

BASIC - best value for money for a wide range of basic applications

ADVANCED - for advanced requirements



SPHERICAL DOME WITH 2-WAY AUDIO & ALARM

- 8 MPx (4K) resolution (3840 x 2160 pixels)
- All-in-one alarm camera with microphone, loudspeaker and flashing light (sounder)
- For intercom, for addressing people and perpetrators incl. acoustic (loudspeaker) and visual alarms (flashing light)



FISHEYE CAMERA

- Up to 12 megapixel resolution (4000 x 3072 pixels)
- 360° all-round view (360°/180° panoramic views)
- 2 mm lens with ePTZ



TELEPHOTO- MOTORISED ZOOM

- 4 MPx resolution: 2688 x 1520 pixels @ 25 fps/2560 x 1440 pixels @ 50 fps for very smooth shots of moving objects
- 4.7-118 mm motorised zoom telephoto lens with 25x optical zoom
- Zooming via NVR, software & app
- Monitors large areas at a distance of up to 2 km and reliably identifies objects at a distance of 200 m and more



TUBE NUMBER PLATE/ANPR*

- 4 MPx resolution (2688 x 1520 pixels)
- 2.8-12 mm motorised zoom lens
- Automatic number plate recognition/ANPR* on vehicles (up to max. 70 km/h)

*) ANPR: Automatic Number Plate Recognition

FULL COLOUR DAY/NIGHT CAMERAS

- 4 MPx resolution (2688 x 1520 pixels)
- Special lens for natural colour images in the dark
- Large, extra light-sensitive image sensor (1/1.8")
- External white-light LEDs for discreet illumination

PTZ DOMES

- 4 MPx resolution (2560 x 1440 pixels)
- Up to 32 x optical motorised zoom (4.8-153 mm)
- Pan, tilt, zoom via NVR, software & app
- 360° horizontal pan, 105° vertical tilt



AUTOMATIC OBJECT RECOGNITION

AN INTELLIGENT CAMERA:

All Basic and Gecko cameras automatically recognise people and vehicles by means of intelligent software (AI algorithm) and independently differentiate these alarm events 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 (VCA: Video Content Analysis)
- 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
- 2-fold security: All events are stored on the recording device (NVR)
- Less working time and costs (e.g. security staff) due to automated monitoring

AUTOMATIC NUMBER PLATE RECOGNITION

DECISIVE: THE NUMBER PLATE

- Fully automatic recognition of vehicle number plates (ANPR: Automatic Number Plate Recognition)
- Logging the number plates of all vehicles entering the premises (up to max. 70 km/h)
- Comparison with positive/negative lists and alarm (on app, NVR, ABUS CMS) in case of authorised/unauthorised access

AUTOMATIC: ACCESS CONTROL

- An effective solution at entrances, in car parks, on construction sites, etc.
- Stand-alone operation: Camera works autonomously and directly controls barriers, roller shutters, etc
- Connected: Camera as part of a surveillance system with connection to a recorder (NVR) or PC (ABUS CMS software)



ABUS 1924



VIDEO CONTENT ANALYSIS

Optimised VCA functions with high precision in combination with object detection. These functions support the events "area monitoring" (area entry/exit detection or intrusion detection) and "line crossing" (tripwire). Thus, very specific events can be set, depending on what is to be detected/recorded and when.

APPLICATIONS SUCH AS:

- In a car park, vehicles entering the area are relevant (intrusion)
- When a barrier is opened when a vehicle is detected (tripwire)
- In a fashion store, an audio announcement* is played if a person has been waiting for a longer than normal time in a department (intrusion)

*Camera with playback function (acoustic alarm output) required (see page 19)



5 PARALLEL STREAMS

In the alternative "Surveillance" mode (without VCA), up to 5 different streams are possible simultaneously, depending on the camera model. Each stream is adjustable in resolution, format, frame rate etc. for the respective end device (NVR, notebook, smartphone). For example, the recording on the NVR is in 4K@25fps, while the app stream is in 720p@15fps depending on the use and Wi-Fi bandwidth.

EXTERNAL IR LEDs

Very clear, crisp images in the dark are provided by IR LEDs (range up to 30 m) located outside the lens glass. In the case of mini and spherical domes, this effectively avoids disturbing reflections in the glass, so-called "dome effects". Furthermore, the Tube and Mini Tube models also feature external IR LEDs for optimal night vision.



ALL SECURE

Optionally adjustable: encryption of the video data on the local microSD card. For increased protection against data espionage and manipulation, ensuring strong data protection.

THERMAL CAMERAS

PRECISION ALARM UNDER ALL CONDITIONS

Thermal or thermal imaging cameras complement optical cameras in perimeter protection, i.e. monitoring large areas to protect against unauthorised access. 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 an integrated thermal image sensor and a high-resolution optical image sensor 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 and indoors.

FUNCTION AND ADVANTAGES

- High-sensitivity thermal image sensor: All living beings, machines, vehicles or other objects emit invisible but measurable infrared radiation (IR radiation). The warmer the object, the higher its IR radiation. An image with coloured visible heat zones is generated from the different heat radiation of the various objects.
- High alarm accuracy: ABUS thermal cameras sound the alarm via AI-supported VCA analysis. Intelligent object detection precisely distinguishes people and vehicles from disturbances and minimises the number of false alarms.
- Best pictures around the clock: Thermal images provide meticulous detail in almost all light, weather and environmental conditions depending on light intensity, contrast, etc. People and vehicles are reliably classified – even when they overlap, such as a person walking in front of a car.
- Large surveillance area: The thermal image sensor provides night vision of the highest quality even at great distance, so that people or vehicles can be detected at distances of up to 80 m and 200 m respectively. Only a few thermal cameras are needed to monitor an extensive area 24/7 continuously.

RANGE OF APPLICATIONS

- 1. Excellent night vision:** The camera can "see in the dark". People or vehicles are clearly visible.
- 2. Precision for sensitive areas:** With the thermal image as the source, very exact sequences (e.g. line crossing) can be programmed. Without accidental deployment due to adverse lighting conditions, moving trees, leaves, etc
- 3. Stalwart guardian:** It "ignores" interfering influences to always provide clear images. This way, an intruder is detected even if he is hiding in the forest, fog, etc.
- 4. Farsighted perimeter protection:** Identifying hazards in advance, detecting objects far outside of the premises (up to 200 m).
- 5. Temperature measurement/early fire detection:** The camera detects any change in temperature, such as in a hazardous goods warehouse, production process or car park (e.g. e-charging stations).



You can see our Thermal models in action here.



Night shot without thermal technology



Night shot with thermal technology



COLOUR PICTURES AT NIGHT



FULL COLOUR DAY/NIGHT TECHNOLOGY



All Gecko models deliver rich, detailed colour 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. Even more "colour" in play: with the new Gecko cameras in elegant black!

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
- Better information: Thanks to max. image detail, key features for identifying offenders or vehicles are more easily recognised, e.g. hair/clothing colour, logos on jackets, paint colours
- Any reflections, as can be caused by IR LEDs, are reduced – and important features (e.g. lettering on vehicles, number plates) are thus better detected



Night shot with commercially available infrared camera



Night shot with Gecko technology

ALARM AND AUDIO FUNCTIONS

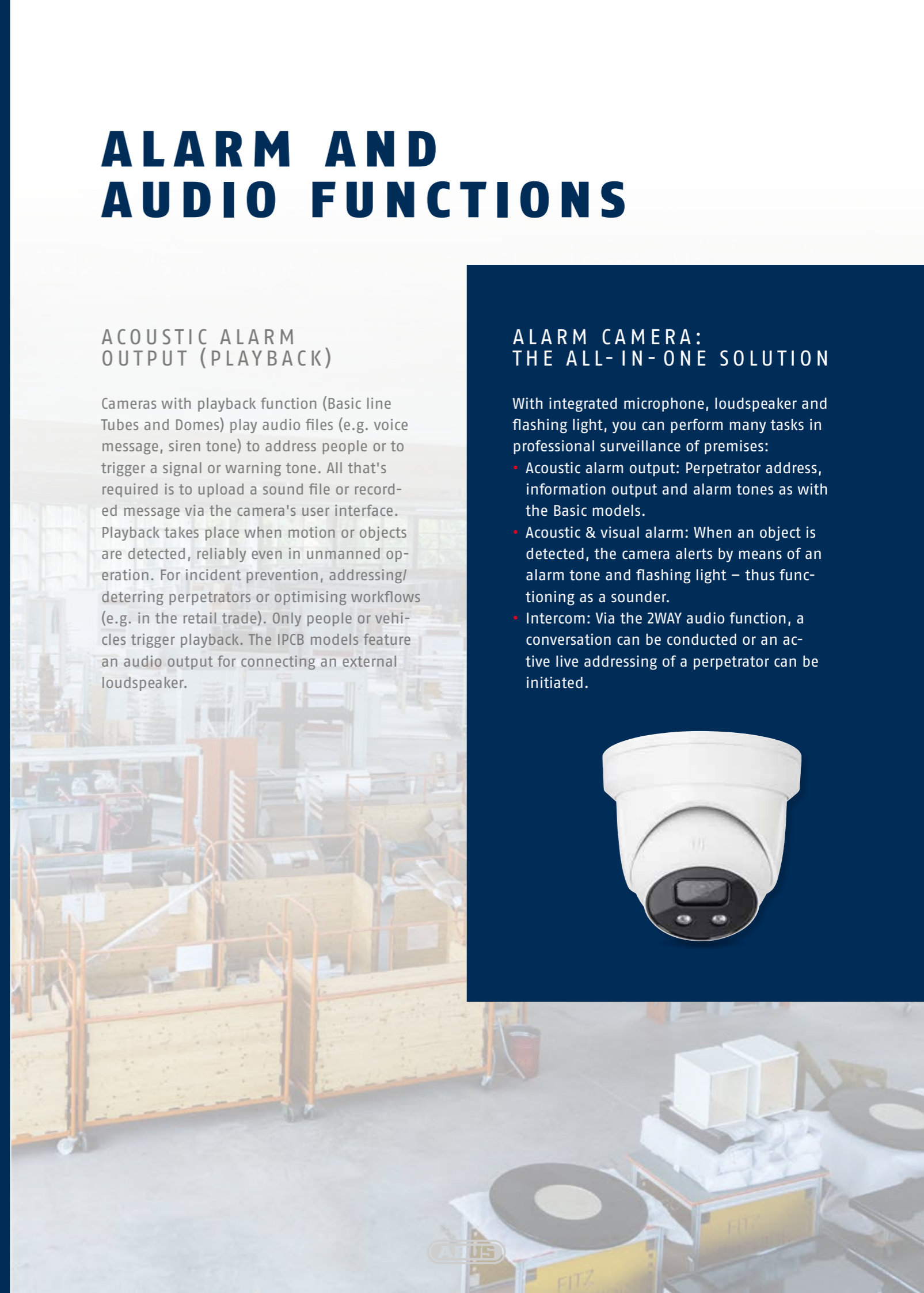
ACOUSTIC ALARM OUTPUT (PLAYBACK)

Cameras with playback function (Basic line Tubes and Domes) play audio files (e.g. voice message, siren tone) to address people or to trigger a signal or warning tone. All that's required is to upload a sound file or recorded message via the camera's user interface. Playback takes place when motion or objects are detected, reliably even in unmanned operation. For incident prevention, addressing/detering perpetrators or optimising workflows (e.g. in the retail trade). Only people or vehicles trigger playback. The IPCB models feature an audio output for connecting an external loudspeaker.

ALARM CAMERA: THE ALL-IN-ONE SOLUTION

With integrated microphone, loudspeaker and flashing light, you can perform many tasks in professional surveillance of premises:

- Acoustic alarm output: Perpetrator address, information output and alarm tones as with the Basic models.
- Acoustic & visual alarm: When an object is detected, the camera alerts by means of an alarm tone and flashing light – thus functioning as a sounder.
- Intercom: Via the 2WAY audio function, a conversation can be conducted or an active live addressing of a perpetrator can be initiated.



CASE STUDIES

EARLY FIRE DETECTION BY MEANS OF THERMAL IMAGING

In addition to perimeter protection, thermal cameras also perform their service as visual thermometers or "seeing fire detectors" (highly flexible thermal differential detectors).

This can be done indoors with a constant temperature or in defined outdoor areas with plannable temperature ranges.

Applications include monitoring a machine for overheating, a landfill site for glowing waste or a barbecue site where burning embers can flare up and spread to nearby trees. Thermal cameras detect sudden temperature changes and sound the alarm before a real fire flares up and takes hold.

Real photo: burning column of smoke



NUMBER PLATE RECOGNITION

Automatic access control

ANPR cameras open a barrier, for example, to allow authorised vehicles recognised by their number plate to pass – in stand-alone operation completely autonomously, without a PC or NVR. For optimum security as well as time and cost advantages in work processes, e.g. in car parks, on construction sites or in logistics.

ALARM CAMERA

Video surveillance in retail

If a customer is waiting in an unoccupied department, for example, the camera plays a voice message. If visitors get lost, the security staff can speak to them. If they enter a secured area (e.g. warehouse, staff entrance), the camera immediately reports it with an alarm tone and flashing light.



With standard focal length (up to 5 mm)



Shot with telephoto lens (> 50 mm)



MOTORISED ZOOM WITH TELEPHOTO LENS

Important image details from afar

Typical surveillance cameras cover a wide field of view in the vicinity. A telephoto motorised zoom camera delivers the opposite: it allows you to zoom in on distant scenes and subjects and view them with pin-sharp clarity. This provides a high level of security when monitoring large areas, entrances and drive-ways or remote terrain boundaries, for example.

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 and evaluation of the image material.

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. Or optionally a DVR for analogue HD cameras. 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.

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.

Simply test the free app in the LITE version!



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.

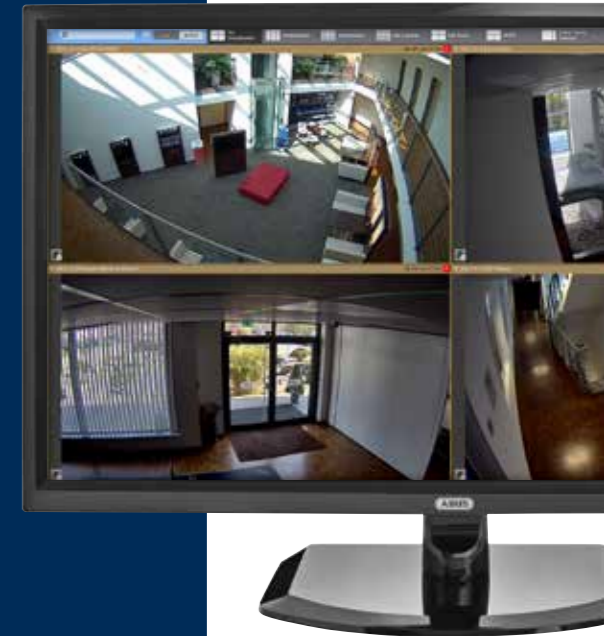
With a wide range of intelligent and customised features for projects of all sizes: from commercial and retail to banking and the public sector. For an unlimited number of cameras and servers – clearly arranged in one software. All ABUS camera models are directly integrated.

AXXON ONE:

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

AXXON INTELLECT:

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



ABUS CMS SOFTWARE: THE SURVEILLANCE CENTRE

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



ANALOGUE HD. UPGRADE FOR EXISTING SYSTEMS



Do you want to update an existing analogue system at a reasonable price? With contemporary resolution and picture quality, without completely writing off investments made in the old system (e.g. laid analogue cables)? This is what Analogue HD from ABUS does.

ANALOGUE HD CAMERAS

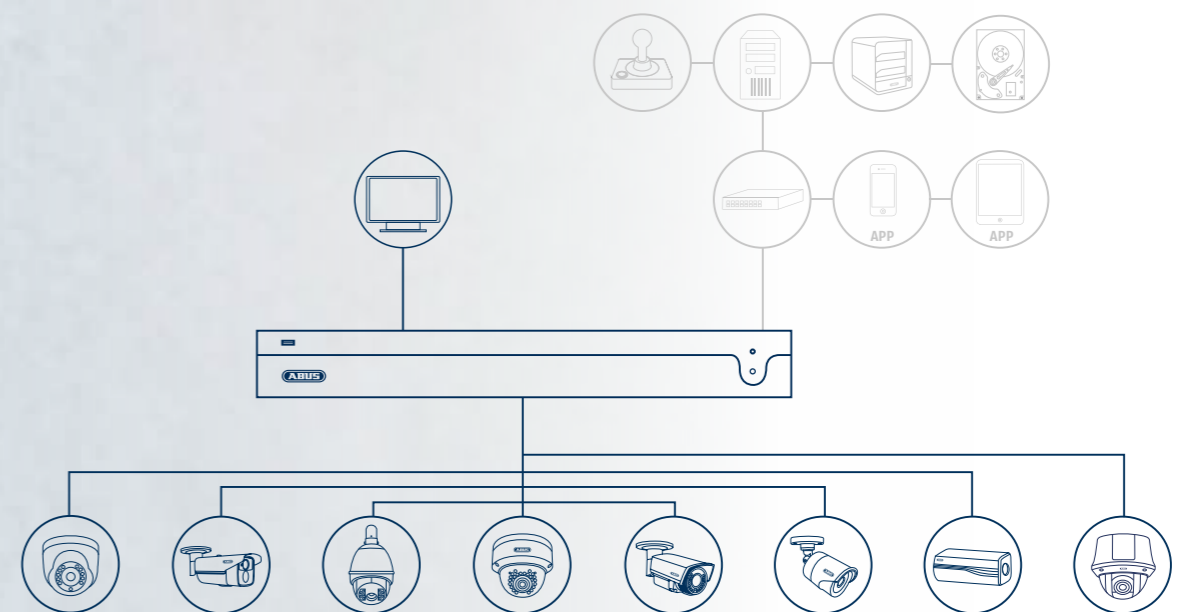
The cameras deliver high-resolution images (full HD up to 8 MPx), comparable to an IP system. They are comparatively inexpensive – and can be put into operation quickly and easily without setting up any IP infrastructure or software.

ANALOGUE EXISTING CABLES

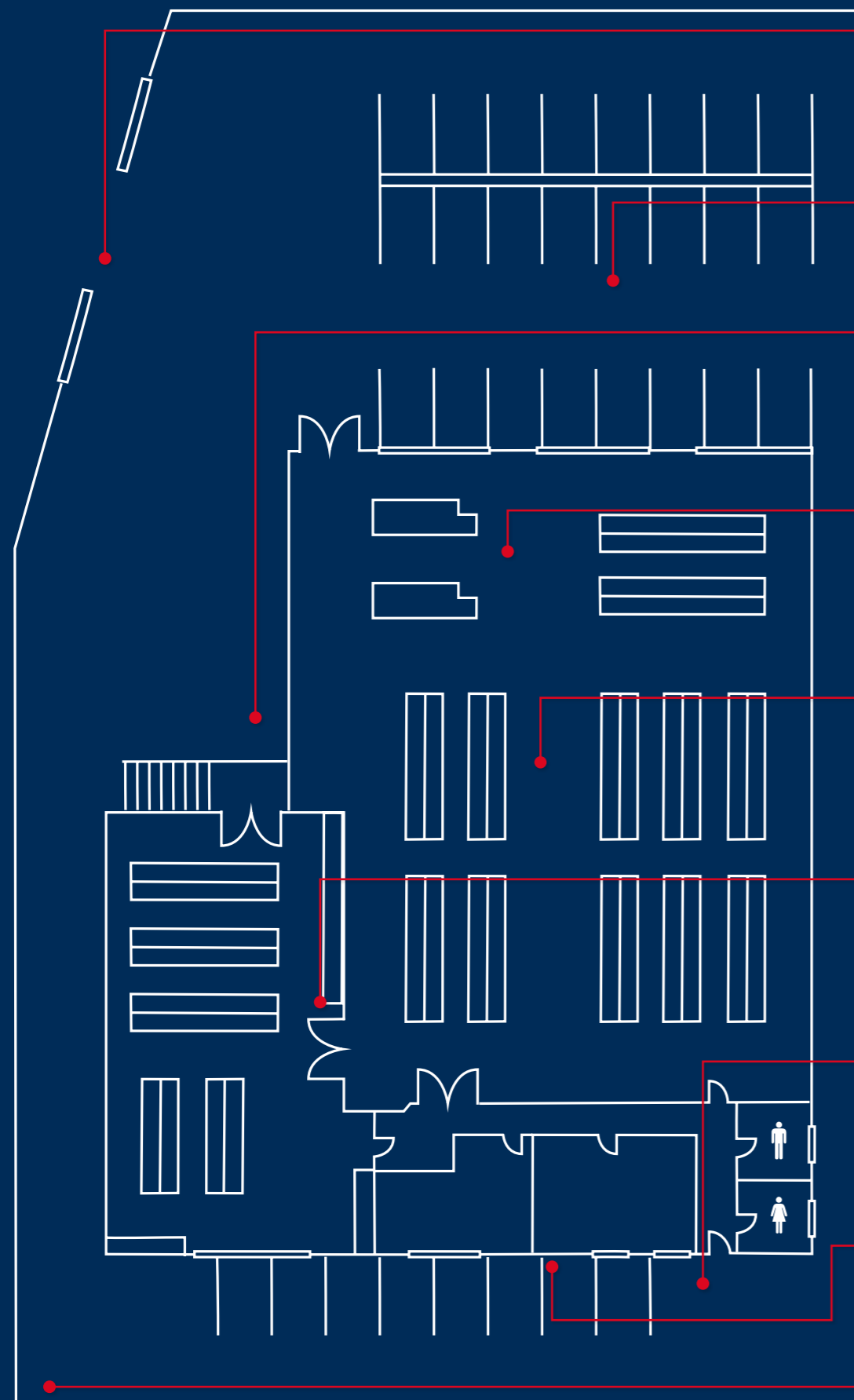
Depending on the condition and length of the cables, the video cables already laid will be used for the new system. Savings of up to 25 % in materials and installation costs are possible.

ANALOG HD RECORDERS

An analogue HD recorder (DVR) stores the video images from up to 16 cameras on a hard disk. It has modern VCA functions for quickly finding points in recordings. It can be operated on the monitor, on a PC or via the ABUS Link Station app.



SAMPLE PROJECT PLANNING



ENTRANCE

E.g. Tube number plate/ANPR 4 MPx (IPCS64531)
With number plate recognition (up to 70 km/h), also for opening barrier/gate (e.g. for delivery vehicles before shop opening)



PARKING

E.g. IP PTZ 4 MPx (IPCS84531)
The PTZ guard with 360° panning range, 25x optical zoom and 50 m IR range



DELIVERY

E.g. IP spherical dome 4 MPx WL (IPCS54511B)
Natural colour images in absolute darkness thanks to special lens, sensitive image sensor, external WL-LEDs



CHECKOUTS

E.g. IP Dome 4 MPx (IPCB74521)
Focus on important incidents through object recognition. Discreet installation of the IK10 housing in the ceiling



SALES ROOM

E.g. IP Fisheye 12 MPx (IPCS24510)
Provides an uninterrupted 360° field of view. Mounted on the ceiling, the camera monitors the entire room



STOREROOM

E.g. thermal sphere dome (IPCA54581B)
For early fire detection of hazardous substances that should not exceed a defined temperature range



STAFF ENTRANCE

E.g. IP Tube 4 MPx (IPCB64521)
High resolution, clear focus on important incidents (object detection) and vandalism-proof housing



OFFICE

E.g. 16-channel network video recorder (NVR10030)
Stream, operate and record up to 16 cameras



UPSTREAM MONITORING

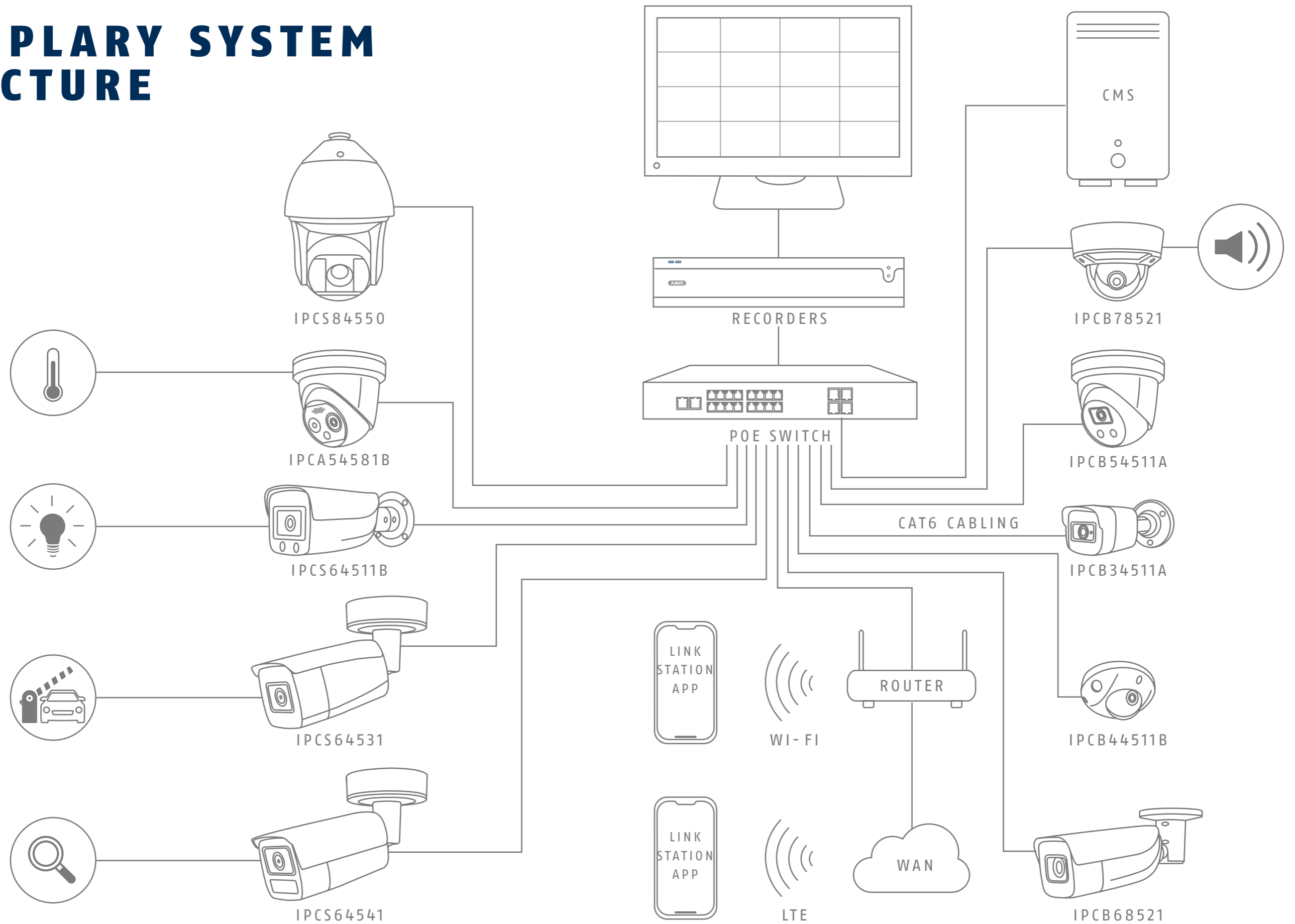
E.g. telephoto motorised zoom (IPCS64541)
Perfect watchman for zooming in on objects up to 2 km away

Exemplary representation: Surveillance of a medium-sized retail shop (approx. 500 to 750 sqm) with 7 ABUS IP cameras and NVR

The right camera for every application. Illustrated by an object with several building parts (sales, office, warehouse) as well as car park with access road.

Basic security indoors is provided by Basic cameras. Advanced cameras take on demanding tasks (perimeter protection, early fire detection). Important access points in the outdoor/entrance area and individual areas are monitored precisely with special cameras.

EXEMPLARY SYSTEM STRUCTURE



REFERENCES

GRAVEL PLANT, ELLERDONK (WESEL AM RHEIN)

Holemans Kieswerk Ellerdonk is a highly engineered industrial plant. Gravel and sand from the surrounding extraction sites are processed for the building materials industry. The gravel is mainly for the production of concrete and is a scarce raw material in times of construction boom. The processing plant can handle up to 600 tonnes of raw gravel per hour, and the entire plant stretches a good 10 km from the extraction site to the loading station, which the material covers via conveyor belts.

For example, it is important to quickly detect disruptive moments in the transport and production process in order to ensure a consistently high quality of the end product. The Ellerdonk gravel plant relies on intelligently placed ABUS IP cameras. PTZ domes with 360° all-round view have proven to be very effective, enabling flexible surveillance and providing detailed image results even at long distances.



RITZ-CARLTON, BERLIN

The luxury hotel in a central location offers its guests a high standard of security, to which a video surveillance system from ABUS makes a decisive contribution.



RIDING FACILITY, AUBENHAUSEN

30 IP cameras monitor the entire riding facility and provide app insight into the stable and each horse box. This way, the handlers always keep an eye on the health of the world-class dressage horses.



EURONICS XXL, HASSFURT

30 IP cameras secure the consumer electronics store indoors and outdoors by day and night. In addition, the cameras optimise the workflow at the service counter and delivery.



ECOFROST, PÈRUWELZ (BE)

The food manufacturer relies on ABUS cameras to keep an all-round eye on production processes with enormous temperature differences (cold store, production).



ARAL PETROL STATION, AALEN

22 ABUS IP cameras monitor the shop, the petrol pumps and all areas. They deliver high-contrast images for targeted incident detection 24/7 in any weather.



EDEKA SUPERMARKET, PULLACH

Supermarkets are repeatedly faced with theft, break-ins and robberies. ABUS video surveillance offers the right protection for this.

NETWORKED SECURITY FROM A SINGLE SOURCE

ALL SYSTEMS FROM ONE SOURCE

The whole world of electronic security technology: Video surveillance, Door intercom and intruder alarm systems as well as e-locking systems in one networked security solution. The systems can be easily integrated and operated, e.g. cameras for access verification or wireless cylinders for disarming the BAS. Optional: the addition of mechanical locking systems.

PLANNING AND PROJECT PLANNING SUPPORT

Right from the planning phase, you can count on our consulting service with professional building planning tools. If you have any questions about products, technology or for on-site project planning support, your personal contact will be on hand to help you find the optimum solution for your project.

If you have any questions about products, project planning or individual requirements, we will be happy to advise you. For this, the ABUS team of service technicians is at your side with advice and support.

Talk to us:
+49 8207 959 90-400 or
planung@abus-sc.com



OBJECT AND BUILDING SECURITY

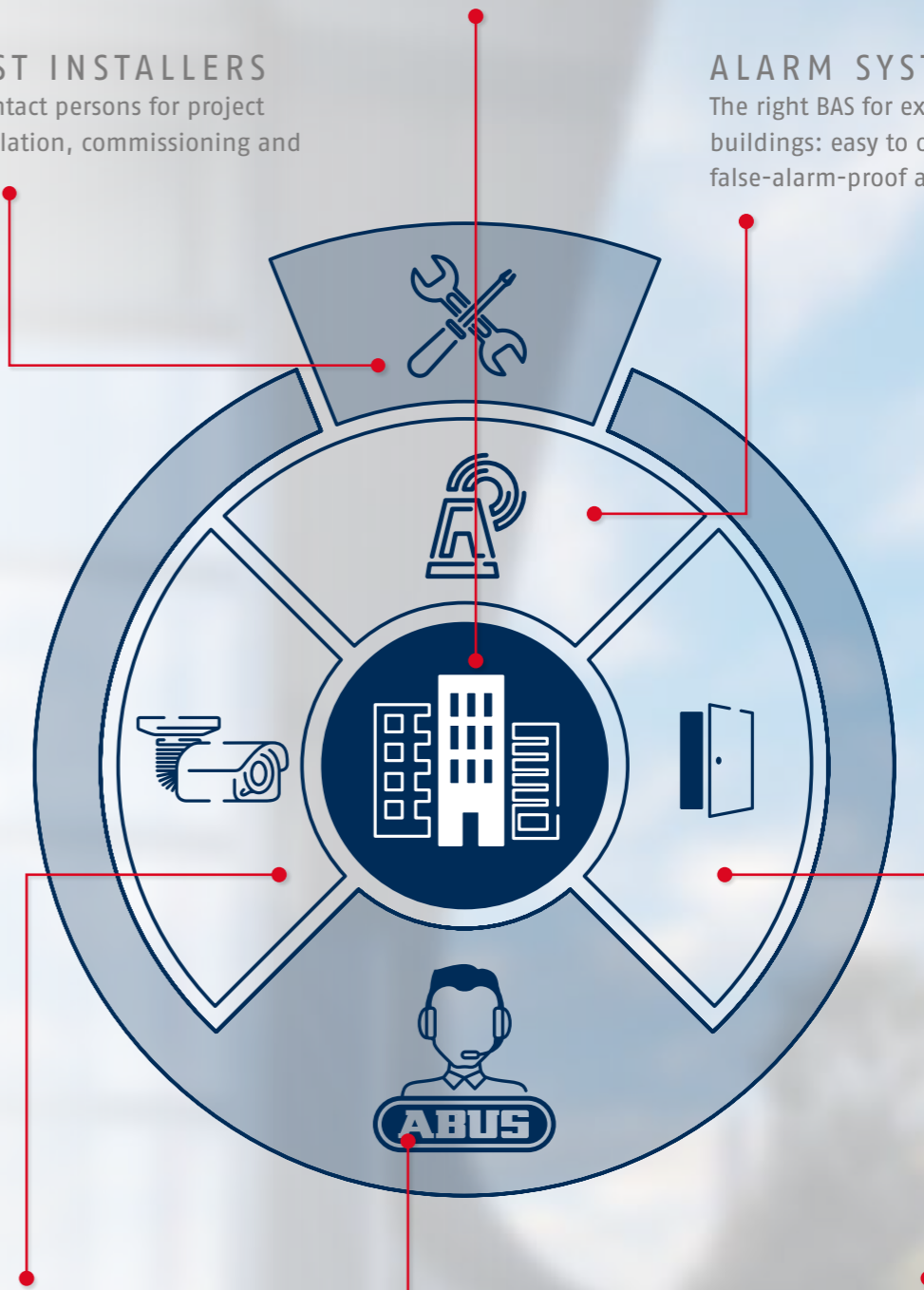
All-round protection across all trades according to the requirements of your building

SPECIALIST INSTALLERS

They are the contact persons for project planning, installation, commissioning and maintenance

ALARM SYSTEMS

The right BAS for existing and new buildings: easy to operate, certified, false-alarm-proof and quickly installed



VIDEO SURVEILLANCE

With the intelligent camera and recording systems from this brochure, which can be integrated and expanded with our door intercom system ModuVis

ACCESS CONTROL

Electronic locking systems with digital rights management and top overview as well as integration of mechanical locking systems

PLANNING SERVICE

New construction or extension of a building? Our planning department is there for you



SERVICE & SUPPORT



DIRECT CONTACT TO TECHNICAL SUPPORT

Technical queries require a quick reply. To ensure that you are always ready to respond to your customers, ABUS expert partners have a direct line to our service department. This keeps waiting times short and your customers satisfied.



TECHNICAL SUPPORT WITH TEAMVIEWER

With the TeamViewer remote desktop tool we can check the configuration of the system or software directly on your computer. After the free download and programme start, we take a look at your screen together and help you directly with support questions.



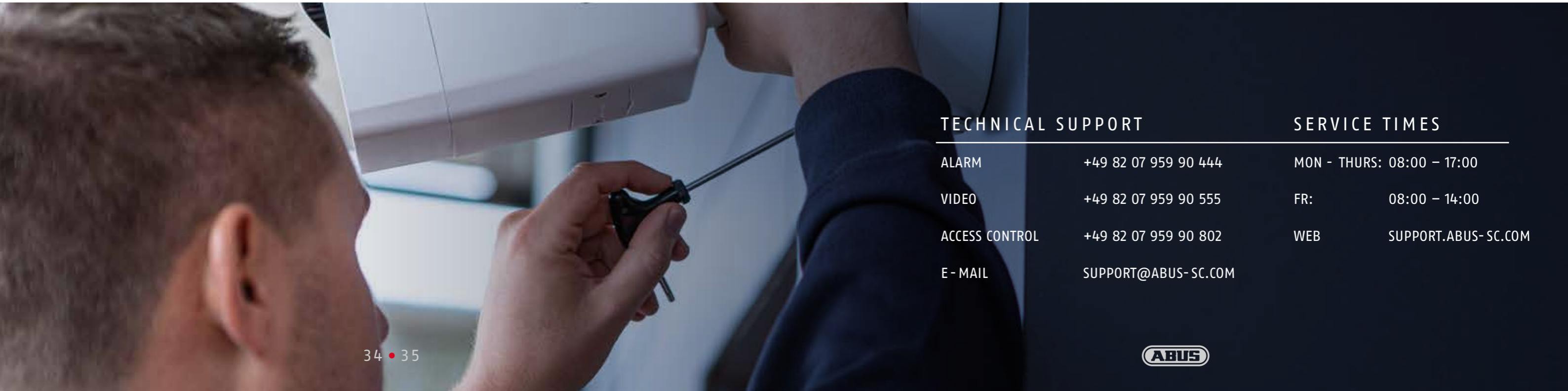
THERE FOR YOU 24/7: ONLINE SUPPORT PORTAL

We make your day-to-day work easier with valuable information in the new ASC Support Portal. At SUPPORT.ABUS-SC.COM you will find step-by-step instructions, configuration and operating aids as well as links to the current firmware and PDF manuals (e.g. for the NVRs).



IF REQUIRED ON SITE: TECHNICAL FIELD SUPPORT

For project planning, troubleshooting or for additional support during installation, upon request our ABUS experts will also come to your site directly and work with you at the customer's premises or the property.



TECHNICAL SUPPORT

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ACCESS CONTROL	+49 82 07 959 90 802
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