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09 / 2026

ABUS
Security Tech Germany

360° indoor surveillance camera

EYSEO

User manual SVIP20000 / SVIP20000U



abus.com

Thank you for choosing a product from ABUS Security Center (hereinafter 'ABUS'). ABUS security systems play an important role in safeguarding your property. Please read through the entire user manual before putting the product into operation and observe all usage and safety instructions.

About this manual

This manual contains all the essential information on how to use the product described. The information in this manual has been compiled to the best of our knowledge and is regularly reviewed and updated. Please keep the manual for the duration of the product's service life and ensure that you always have the correct manual for the product to hand.

The latest version of the manual is available at any time at the following web address:
www.abus.com/product/SVIP20000
www.abus.com/product/SVIP20000U

Please observe the information and instructions in this manual. ABUS accepts no liability for damage resulting from incorrect assembly, commissioning or other misuse. Responsibility for the use of the product lies with the purchaser or customer and the end user.

Third-party trade marks and intellectual property rights are the property of their respective owners and are acknowledged.

Customer Service / Customer Support

The support team is available to provide further assistance:
Email:support@abus-sc.com
Tel: +49 8207 959 90-0

Conformity

ABUS Security Center hereby declares that the SVIP20000 and SVIP20000U cameras comply with the RED Directive 2014/53/EU. The devices also meet the requirements of the following EU Directives: the EMC Directive 2014/30/EU, the LVD Directive 2014/35/EU and the RoHS Directive 2011/65/EU. The full text of the EU Declaration of Conformity is available at the following web addresses:

www.abus.com/product/SVIP20000
www.abus.com/product/SVIP20000U

Data protection

Data storage is subject to country-specific data protection regulations.
The commissioning of surveillance systems may be prohibited or regulated by law in certain countries. Before commissioning the system, the operator must ensure that the surveillance complies with the legal framework.

Under the GDPR, the operator, as the data controller, is responsible for ensuring the product is used in compliance with the law.

Warning notice within the meaning of Section 201 of the German Criminal Code (StGB)

Anyone who, without authorisation, records another person's private conversation on an audio recording medium and uses such a recording or makes it available to a third party may be punished by imprisonment or a fine!
Similarly, anyone who, without authorisation, eavesdrops using a listening device on another person's private conversation not intended for their ears, or who publicly discloses the verbatim or essential content of another person's private conversation that has been recorded or eavesdropped upon, may be punished.

Warranty

ABUS products are designed and manufactured with the utmost care and tested in accordance with applicable regulations.
The warranty covers only defects attributable to material or manufacturing faults at the time of sale. If a material or manufacturing fault is proven to exist, the device will be repaired or replaced at the discretion of the warranty provider.
In such cases, the warranty expires at the end of the original warranty period of 2 years. Any further claims are expressly excluded.
ABUS accepts no liability for defects or damage caused by external influences (e.g. transport, physical impact, incorrect operation), improper use, normal wear and tear, or failure to follow these instructions.
Should you discover a fault with the appliance that was already present at the time of sale, please contact your seller directly within the first two years.
When making a warranty claim, the product in question must be accompanied by the original proof of purchase showing the date of purchase and a brief written description of the fault.

Disclaimer

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This user manual has been compiled with the utmost care. Should you nevertheless notice any omissions or inaccuracies, please inform us in writing at the address given above.
ABUS Security Center GmbH accepts no liability whatsoever for technical or typographical errors and reserves the right to make changes to the product and the user manuals at any time without prior notice.
ABUS Security Center is not liable or responsible for any direct or indirect consequential damages arising in connection with the equipment, performance or use of this product. No warranty is given regarding the content of this document.
The purchaser acknowledges that, given current technological standards, it is not possible to create a software programme that is entirely free of errors. ABUS Security Center therefore guarantees neither the uninterrupted or error-free operation of the products nor the rectification of all errors. ABUS Security Centre expressly does not guarantee that all ABUS Security Centre products will function correctly on all customer systems or in conjunction with integrations, solutions, applications and/or programmes, nor that integrations, solutions, applications and/or programmes will function correctly with subsequent versions of ABUS Security Centre products and systems.

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Table of Contents

1. General 9
   - 1.1. Introduction 9
   - 1.2. Intended Use 9
   - 1.3. Target audiences 9
   - 1.4. Notes in this manual 10
2. Product description 11
   - 2.1. Function 11
   - 2.2. Contents of the package 11
   - 2.3. Technical Specifications 12
   - 2.4. Hardware description 14
   - 2.5. Reset camera 14
3. Product-specific information 16
   - 3.1. General information 16
   - 3.2. Installation Notes 16
   - 3.3. Notes on object recognition 17
   - 3.4. System requirements 19
4. Set-up via the EYSEO app 20
   - 4.1. Download the app & create a user account 20
   - 4.2. Camera set-up 22
     - 4.2.1. Option I: Set-up via QR code scan (cloud) 22
     - 4.2.2. Option II: Set-up via the camera's Wi-Fi hotspot 25
     - 4.2.3. Option III: Set-up via the network 27
5. EYSEO App Overview 30
   - 5.1. 'Home' menu item 30
   - 5.2. 'Applications' navigation menu item 36
   - 5.3. 'Messages' navigation menu item 38
   - 5.4. 'Settings' navigation menu item 40
6. EYSEO camera settings (in the app) 43
   - 6.1. Open camera settings 43
   - 6.2. Camera settings in detail 43
7. Web interface 50
   - 7.1. Web interface: First access 50
     - 7.1.1. Checking the IP address via smartphone 50
     - 7.1.2. Changing the language of the web interface 51
     - 7.1.3. Logging in to the web interface 51
   - 7.2. Live 52
     - 7.2.1. Description of the web interface (live view) 52
     - 7.2.2. Live (live view) 52
     - 7.2.3. Main Stream SubStream 52

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7.2.4. PT settings (pan/tilt) 53
7.2.5. Timestamp 54
7.2.6. Live view toolbar (Live functions) 54
7.3. Playback 55
7.3.1. Description of playback 55
7.3.2. Description of the Playback Toolbar 55
7.3.3. Playback search modes 55
7.4. Configuration 57
7.4.1. General settings 57
7.4.2. Storage 59
7.4.3. Alarm 60
7.4.4. Event 62
7.4.5. Network 68
7.4.6. System 73
8. Disposal 76
9. Open Source Licence Information 76
10. FAQ 77
11. Glossary 78

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1. General

1.1. Introduction

Thank you for choosing the EYSE0 360° indoor camera.

The EYSE0 360° Indoor Camera is a network-enabled indoor camera designed for observing and monitoring areas within enclosed buildings. When used in conjunction with the EYSE0 app, it allows you to access camera footage and manage the available product settings and functions. Set-up and operation are conveniently carried out via mobile devices or a web browser.

The EYSE0 product range was developed with a focus on simple commissioning, intuitive operation and a high degree of flexibility. The product is designed for everyday use in a domestic setting and can be set up in just a few steps.

This user manual will guide you through the installation, set-up, configuration and use of your EYSE0 360° indoor camera. Please read the manual carefully and keep it for future reference.

1.2. Intended use of the

The EYSE0 360° indoor camera is intended for the capture, transmission and recording of video and audio data indoors. The product is designed for the visual monitoring and observation of areas within enclosed buildings. It is operated via the dedicated EYSE0 app and the functions and interfaces provided by the manufacturer.

The product is designed exclusively for use in dry indoor environments. Installation, operation and use must only be carried out in accordance with the instructions in this user manual.

The operator is responsible for complying with the regulations governing video surveillance, data protection and the protection of personal rights applicable at the place of use.

Any other use or use beyond the intended scope is considered improper. This applies in particular to operation outside the specified operating conditions, as well as to alterations, conversions or technical modifications to the product.

Intended use also includes compliance with all instructions, safety information and installation guidelines set out in this user manual. Improper use, repair work or modifications not expressly authorised by ABUS, as well as improper servicing, may lead to malfunctions and result in the loss of liability, warranty and separately agreed guarantee claims.

1.3. Target audiences



This user manual is intended for operators and users of the EYSE0 360° indoor camera. It contains information on the installation, commissioning, configuration, operation and maintenance of the product.

No specialist knowledge is required to use the product. You must, however, have read and understood this user manual.

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1.4. Notes in this manual

Warnings and safety instructions

Warnings indicate risks to life and limb. Warnings are categorised according to the severity of the risk and use one of the following signal words:

Symbol	Signal word	Meaning
	DANGER!	Indicates an immediate danger which, if not avoided, will result in death or serious injury.
	WARNING!	Indicates a potential hazard which, if not avoided, may result in death or serious injury.
	CAUTION!	Indicates a potential hazard which, if not avoided, may result in minor or moderate injury.

Failure to follow the instructions in this manual may result in damage to the product, the building or malfunctions:

Symbol	Signal word	Meaning
	NOTE	Indicates a potential risk of damage to the product or the building.
	INFO	Provides additional important or useful information.

In the case of specific hazards or instructions, a specific symbol is used instead of the general warning symbol:

	DANGER!	Risk of electric shock
	NOTE	Damage to the product due to electrostatic discharge

The notices mentioned may also be incorporated into the running text if the subsequent step involves a risk.

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2. Product description

2.1. Function

The EYSE0 360° indoor camera enables the display of live images and the monitoring of indoor areas via the EYSE0 app. When motion is detected, the camera can send a push notification with a preview image to the connected smartphone. The two-way audio function allows audio signals to be transmitted and voice communication to be used via the app, provided the function is activated. The camera can be placed on a surface or mounted on the ceiling.

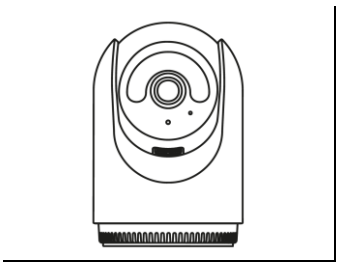
The camera supports object recognition features. Depending on the configuration, it can recognise people, vehicles and pets, detect when lines are crossed, and track recognised individuals within the field of view. Recognition accuracy depends on environmental conditions and the selected settings.

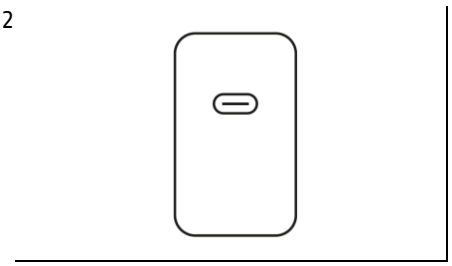
The camera supports integration with compatible Amazon Alexa and Google Assistant systems. Depending on the configuration, privacy mode can be controlled via voice command, or live images can be displayed on compatible smart home devices.

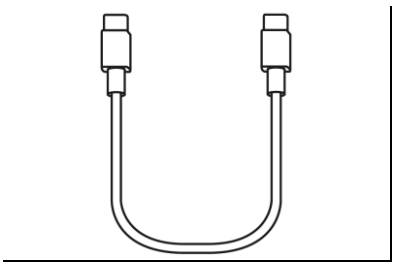
For recording in low ambient light, the camera features infrared LEDs to display black-and-white images. When motion is detected, depending on the selected setting, white light LEDs can be activated to support colour recording.

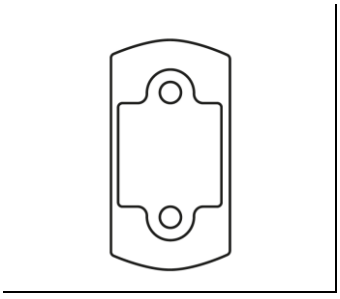
Video recordings can be stored locally on a suitable microSD card with a capacity of up to 1 TB. The EYSE0 app for iOS and Android allows you to access the camera, manage access rights, activate Do Not Disturb mode and receive push notifications with a preview image. The availability of individual features may depend on the network connection, device configuration and app version.

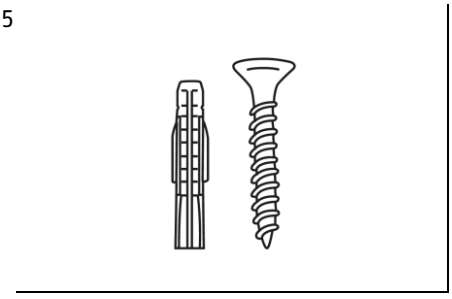
2.2. Contents of the pack

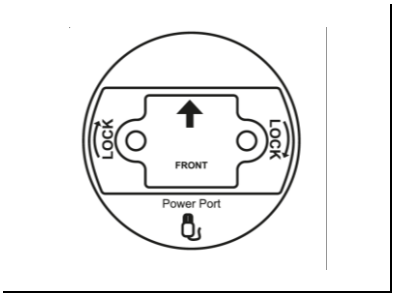
1 

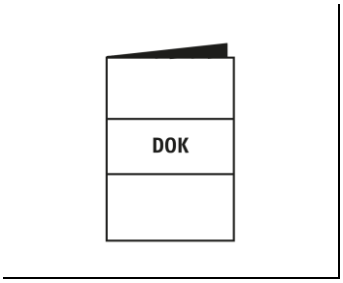
2 

3 

4 

5 

6 

7 

1 360° indoor surveillance camera
2 Power supply (SVIP20000 only)
3 USB-A to USB-C connection cable
4 Mounting plate
5 Mounting hardware
6 Drilling template
7 Quick Guide & Safety Instructions

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2.3. Technical Specifications

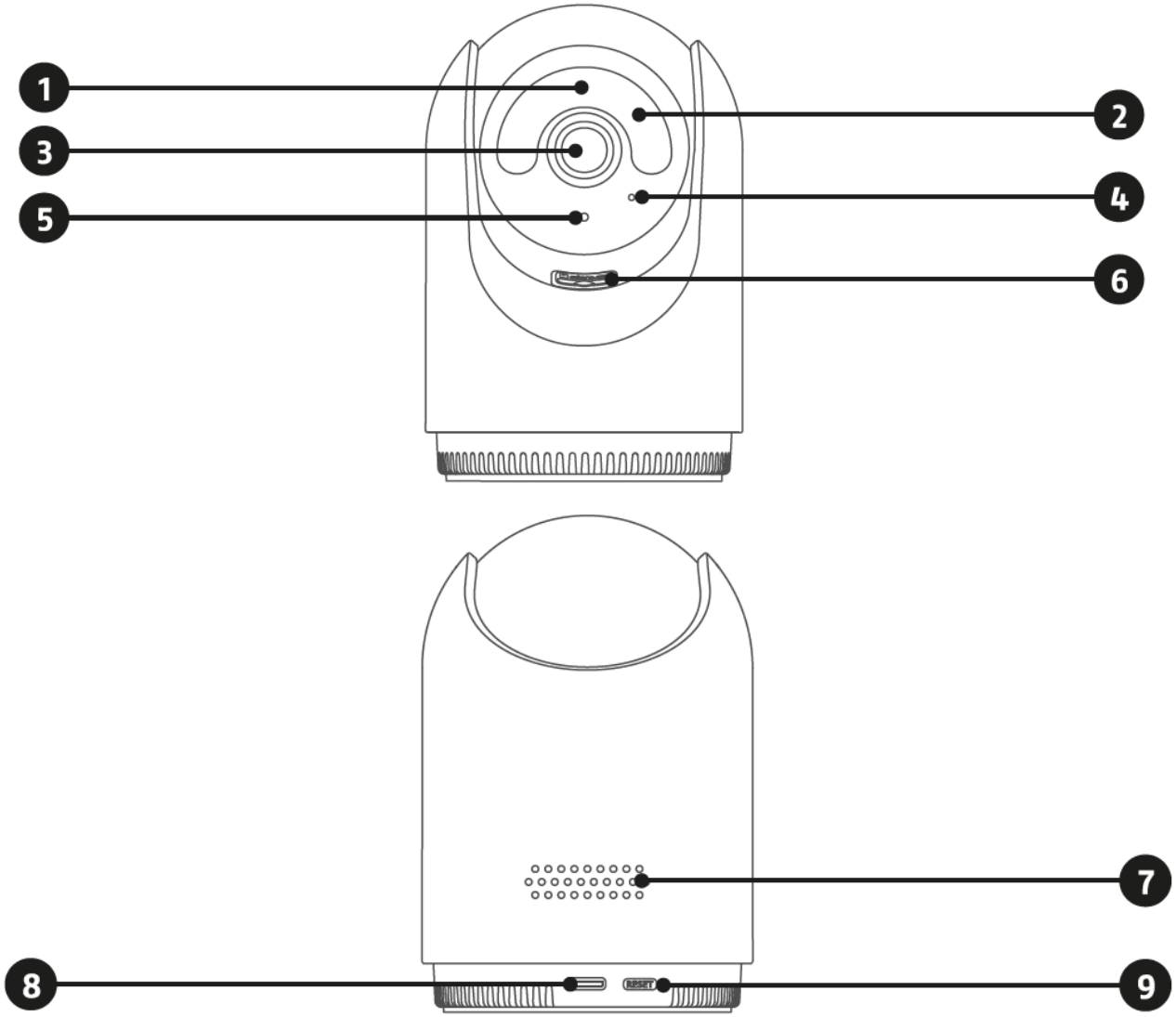
Dimensions (D x H)	74 x 114.5 mm
Number of users	5
Number of presets	3
Number of streams	2
Number of simultaneous connections	5
Item weight	0.5 kg
Built-in audio	Microphone, speakers
Audio bitrate	8,000, 16,000 kbps
Audio compression	G.711A, G.711U
Audio output	1 x built-in speaker
Audio input	1 x built-in microphone
Resolution	3K (2880 x 1620 pixels)
Resolution modes	MainStream: 2880 x 1620 SubStream: 1280 x 720, 640 x 480, 640 x 360
Recording modes	Motion, VCA, duration, sound
Interface type	USB-C
Motion detection	Intrusion, Line Crossing, Entering a Region, Exit region
Image sensor	1/2.7" CMOS
Image settings	Automatic mode / Colour mode
Pixels (effective)	2880 (H) x 1620 (V) px
Frame rate	20
Aperture	F2.0
Width	74 mm
Focal length	2.8 mm
Digital zoom	Yes
Electronic shutter	1/5 to 1/20,000 s
Backlight compensation	DWDR, HLC, BLC
Housing material	Plastic
Horizontal field of view	110°
Camera type	Dome
Speaker	1 x built-in, 1 W
Power consumption	7.2 W
Material	Plastic
Max. resolution @ frame rate	2880 x 1620 @ 20 frames per second
Max. operating temperature	45 °C
Max. relative humidity	90 %
Min. operating temperature	-10 °C
Minimum illumination (colour)	0.001 lx
Mobile access	Yes
Compliance	2014/53/EU (RED) Radio Equipment Directive 2014/30/EU (EMC) Electromagnetic Compatibility Directive 2011/65/EU (RoHS) RoHS Directive / Restriction of Hazardous Substances Directive EN 300 328 V2.2.2 Radio – 2.4 GHz Wi-Fi / Bluetooth EN 301 893 V2.1.1 Radio – 5 GHz Wi-Fi / RLAN EN 300 440 V2.2.1 Radio – Short Range Devices (SRD) EN 301 489-1 V2.2.3 EMC – General requirements for radio equipment EN 301 489-17 V3.3.1 EMC – Specific requirements for Wi-Fi/Bluetooth EN 301 489-3 V2.3.2 EMC – Specific requirements for short-range devices (SRD) EN IEC 62368-1:2024+A11:2024 Product safety for audio/video, IT and communications equipment

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EN 62311:2020 EMF / Protection of persons against electromagnetic fields
EN 50665:2017 EMF / Assessment of exposure to electromagnetic fields
EN 55032:2015+A1:2020 EMC – Radiated emissions from multimedia equipment
EN IEC 61000-3-2:2019+A2:2024 EMC – Harmonic currents
EN 61000-3-3:2013+A2:2021+AC:2022-01 EMC – Voltage fluctuations and flicker
EN 55035:2017+A11:2020 EMC – Immunity of multimedia equipment

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2.4. Description of the hardware



1 White light LEDs
2 IR LEDs
3 Lens
4 Microphone
5 Status LED
6 microSD card slot
7 Speaker
8 USB-C port 5V DC; 1.5 A
9 Reset button

2.5. Reset camera

If you wish to reset your camera to its factory settings, please press the reset button on the lower rear of the camera, directly next to the power supply port. Press and hold this button for 5 seconds to carry out the process. After a further 15 seconds, the status LED will change from blue to red. After a further 20 seconds, the camera will be ready to be reconnected to your app.

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2.6. Description of the status LED

The status LED on the front of the camera can indicate the following states:

LED	LED status	Device status
	Solid red	Device is starting up
	Flashing red	Waiting for Wi-Fi connection
	Blue steady	Wi-Fi connected
	Flashing blue	App operation
	Red/blue flashing	Network disconnected
	Purple steady light	Firmware update in progress
	LED off	No power supply / Restarting after reset

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3. Product-specific notes

3.1. General notes



CAUTION

Risk of electric shock!
The camera must be disconnected from the mains supply during installation.



INFO

Installation location
The camera is designed for indoor use. The camera is not suitable for outdoor use.

Place the camera near a socket to ensure a power supply
Furthermore, a sufficient Wi-Fi signal strength is required at this location. The camera is designed for table-top and ceiling mounting.

Do not place the camera in the immediate vicinity of radiators, stoves, other heat sources or in direct sunlight. Only operate the device in locations where the temperature falls within the permissible ambient temperature range of -10 °C to 45 °C.

Note on the use of IR LEDs
An IR LED (infrared light-emitting diode) is not a laser, but a light-emitting diode that emits infrared light. Lasers, on the other hand, produce a coherent (synchronised in time, phase and frequency) directional beam of light, whilst an IR LED has a broader light distribution. However, at close range between an IR LED and an object, the IR radiation can still reach high intensities and thus act in a similar way to a laser. You should therefore avoid pointing the camera directly at the eye from a short distance for any prolonged period.

3.2. Installation instructions

When installing the camera, ensure that it is within optimal range of the Wi-Fi access point or router with an internet connection. The camera can only be accessed if there is a sufficient Wi-Fi signal to the router.

For installations in larger premises, a Wi-Fi repeater is recommended to optimise the range. Please note that structural conditions may affect the signal transmission.



INFO

Compatibility

You can obtain information about compatible Wi-Fi repeaters from your network provider or your router's manufacturer. ABUS Security Center GmbH & Co. KG does not make any recommendations regarding Wi-Fi repeaters.

Please follow the Wi-Fi repeater's installation instructions carefully. Ideally, it should be positioned between the router and the camera.

microSD card (not included)

The optional microSD card should be inserted before installation and before powering the camera, as the microSD card slot is located on the swivelling camera head.

INSTALLATION LOCATION

The camera is not suitable for outdoor use. To access the camera, you will need a router with internet access. Position the camera so that its field of view is not obstructed by other objects. At night, the camera emits white light or IR light, which is directly reflected by nearby objects. This impairs both image quality and object detection performance. The camera should not be pointed directly at a light source. A bracket is supplied for ceiling mounting, and the camera image can be mirrored accordingly.

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3.3. Notes on object detection

The camera's detection range for intelligent object detection depends on the selected object. If the object is outside this range, it may still be 'seen' by the camera and displayed on the live feed, but it will not trigger a recording.

Intelligent object detection operates reliably within the ranges specified below; outside these specified ranges, motion detection may occur but is not guaranteed.

To achieve optimum object detection performance, certain conditions must be observed during installation and with regard to the camera's field of view:

- The camera should be installed at a height of between 2.5 and 3 metres.
- The height of the object within the selected frame must be between 1/16 and 1/2 of the image height. If objects
  appear too large or too small in the image, they may not be detected correctly.
- Please note that there is a certain area below the camera that is not monitored.
- Reflective surfaces within the field of view can interfere with object recognition.
- Ensure that no objects in the immediate vicinity of the camera are included in the field of view.
- If objects are not within the camera's field of view but are within the beam angle of the IR or white light LEDs, this may adversely affect the video image. Objects will appear with reduced contrast and may therefore not be recognised. You should therefore ensure there is sufficient clear space around the camera.
- Do not use object detection in areas with a correspondingly high number or frequency of objects (people, vehicles). This will result in a high number of alarms.
- Please note that structures resembling people, animals or vehicles (e.g. images of people) may also trigger the camera's alarm (e.g. an abandoned advertising banner featuring people).

Object detection only works reliably, both day and night, if the objects contrast sharply with the background.

INFO

Detection ranges

People: max. 10 metres (person approx. 180 cm tall)

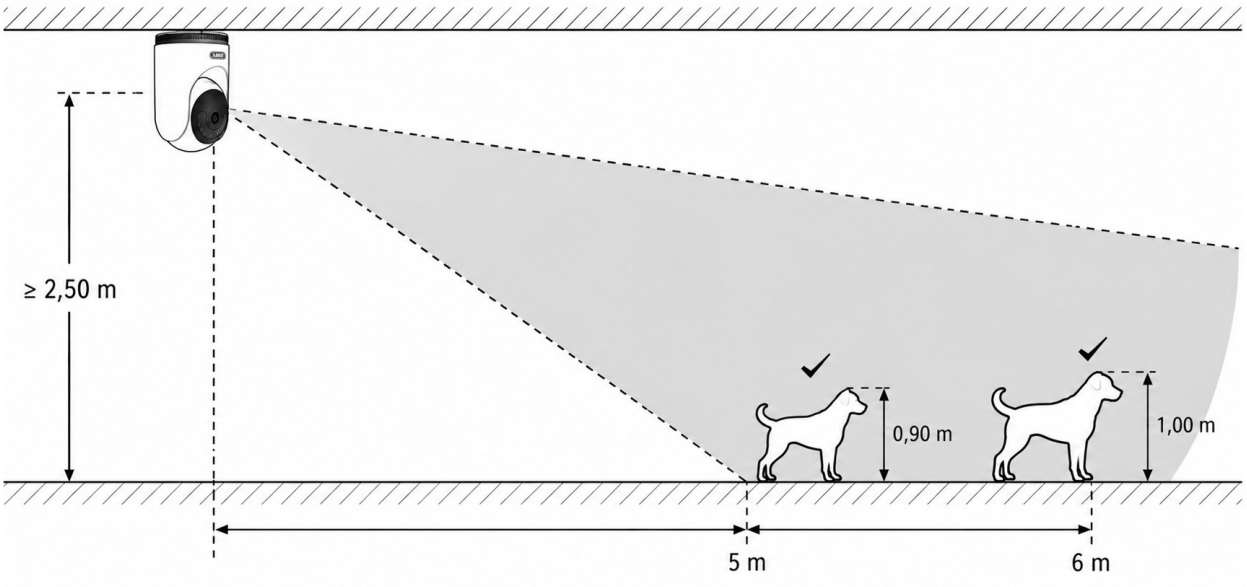
Pets: max. 6 metres

Vehicles: max. 20 metres

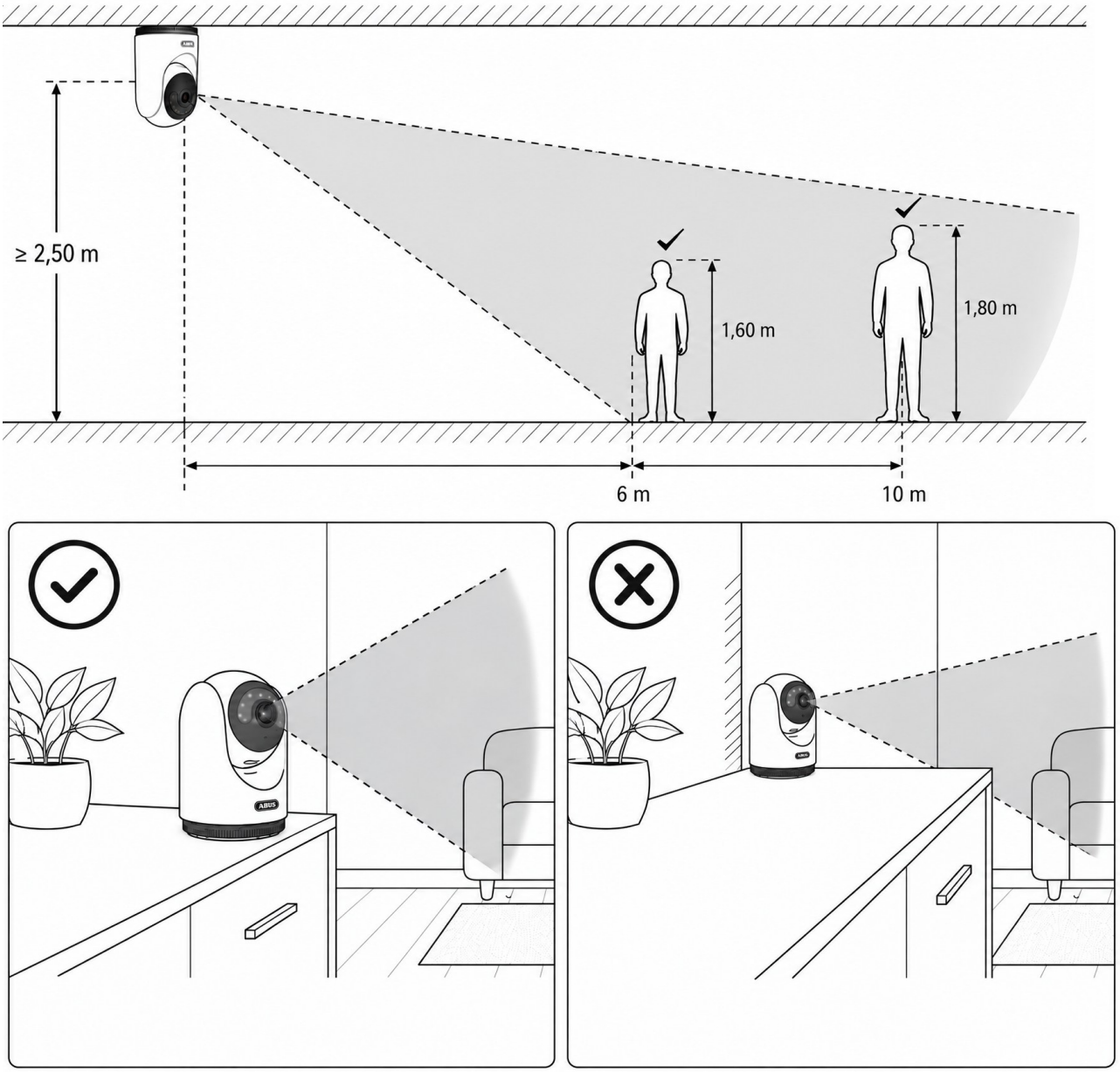
Object recognition

The camera is generally also designed for tabletop placement. However, object detection can only function reliably if the object types described are visible in their entirety within the video frame. When placed on a table, the view may be obstructed by objects under certain circumstances.

The reliability of object detection depends on local factors. False alarms **may** occur in some situations.



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The camera's field of view must be aligned as shown above to ensure that intelligent object detection works smoothly. Installing the camera at a steep angle to the floor or with a restricted field of view due to tables, walls or furniture will result in some objects being detected too late or not at all. The reason for this is that the field of view is insufficient to identify the object more precisely.

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3.4. System requirements

Please note the following points to ensure straightforward commissioning:

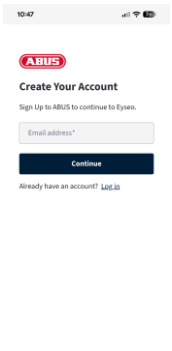
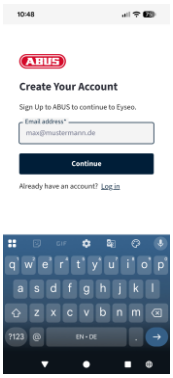
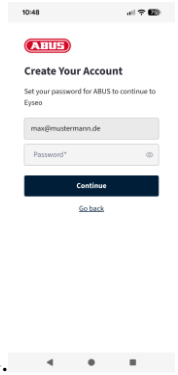
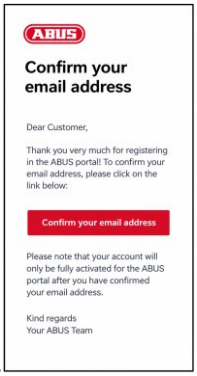
- A 2.4 or 5 GHz Wi-Fi network with a password and encryption (Wi-Fi 4/5/6, WPA-2).
- Smartphone running the Android (version 11 or later) or iOS operating system (version 22 or later).
- The mobile device's location service must be enabled for network integration (required to search for nearby devices; no geographical location data is used)
- App permissions required: Notifications, nearby devices (Android) or local network (iOS), camera, microphone, location
- Network integration of the SVIP20000/SVIP20000U cameras can only be carried out in conjunction with the Eyseo app (Android, iOS), as these cameras only have a Wi-Fi interface.
- When entering the Wi-Fi password, only the following special characters are permitted:

%	(	)	-	.	:	=
^	_	{	}	~	!	#
$	"	*	|	;	[	]
+	@	~	?	/	\	

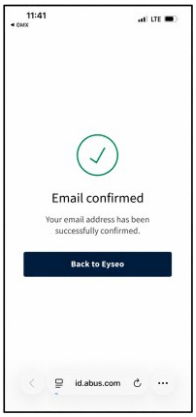
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4. Setting up via the EYSEO app

4.1. Download the app & create a user account

1. Download the app from the app store	Please start by downloading the ABUS 'EYSEO' app from the Google Play Store or the Apple App Store onto your smartphone or tablet.  1.  **Android/iOS** EYSEO App
2. Create an ABUS user account	Once the EYSEO app has been installed, you will need to create an ABUS user account, unless you already have one from previous installations. This is done via a one-off registration. When you launch the app after downloading it successfully, a window will appear prompting you to log in. Please enter your email address in the field provided (Fig. 2). You will then be asked to set a password. Please follow the guidelines for creating a secure password (Fig. 3).  2.  3.
3. Confirm your email address	You will now be prompted in the app to confirm your email address (Fig. 4). Please now go to your email inbox and confirm your email address by clicking on the red button (Fig. 5).  4.  5.
	6. You will now receive confirmation that your email address has been successfully

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	confirmed. Your ABUS user account has now been created (Fig. 6) and you can now log in. 6. 

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4.2. Camera set-up

When setting up your EYSEO camera, you can choose between two different set-up options:

Method I: Set-up via QR code scan

- This is the method recommended by ABUS and is the simplest option. The camera is linked to the user's cloud account.

  Camera status: The camera is in its factory settings, has not yet been set up and is not connected to a Wi-Fi network.

Option II: Manual addition via the camera's Wi-Fi hotspot

- This method can be used if a QR code is not available. The camera is linked to the user's cloud account.

  Camera status: The camera is in its factory settings, has not yet been set up and is not connected to a Wi-Fi network.

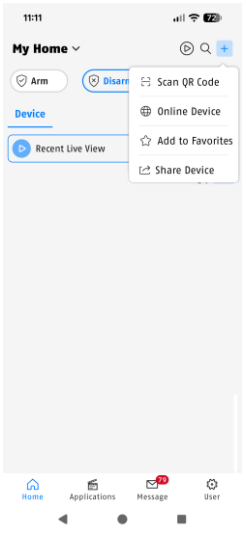
Option III: Manual addition via a network connection

- This method can be used if the camera has already been set up and successfully connected to a Wi-Fi network, but has been deleted from the camera list in the app. The camera is linked to the user's cloud account.

  Camera operating status: The camera is set up, already has a login password and is connected to a Wi-Fi network.

Both options are covered in this guide and are described step by step.

4.2.1. Option I: Set-up via QR code scan (Cloud)

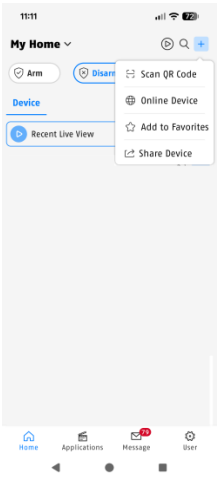
1. Launch the app and open the selection menu	Launch the EYSEO app and log in (see 4.1). As a first step, please tap the '+' icon in the top right-hand corner of the screen. A menu will open (Fig. 1).  1. **To set up the device, location services must be enabled on your smartphone. Also ensure that your smartphone and the camera are connected to the internet. An active internet connection is required for setup and to check for firmware updates. Check regularly to see if a new firmware version is available to receive functional improvements and security updates. You can find the current firmware version and available updates under 'Camera settings' > 'About the device' > 'Check for system updates'.**

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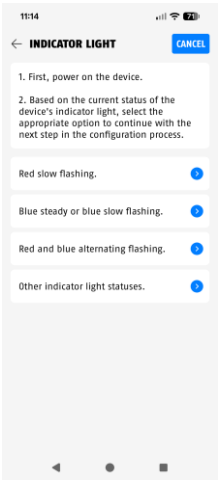
2. Scan the QR code, configure Wi-Fi and integrate the camera

Please select 'Scan QR code' (Fig. 2) to start the set-up
. A window will open (Fig. 3).

Now scan the QR code located at the bottom of the back of the camera. You will then be redirected to the 'Control LED' screen in the app (Fig. 4).

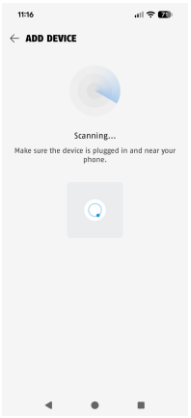
2. 

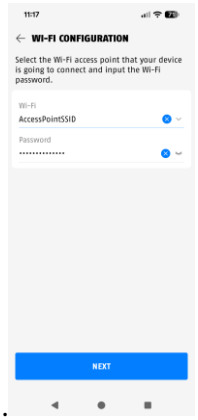
3. 

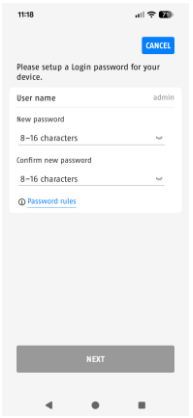
4. 

Now follow the instructions displayed on the screen and select the current status of the camera's status LED (see also 2.6). If the camera has not yet been set up, the LED will flash red slowly.

Device discovery is activated (Fig. 5). To set up the camera, position the camera and your smartphone/tablet so that the status LEDs are visible.

5. 

6. 

7. 

You will now be redirected to the Wi-Fi configuration screen (Fig. 6). Please enter the name of your Wi-Fi network (SSID) and the corresponding Wi-Fi password.

Note regarding the Android and iOS operating systems:

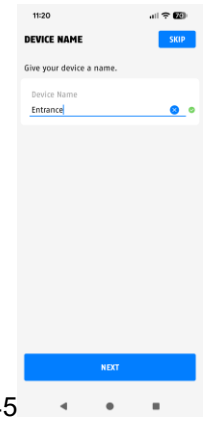
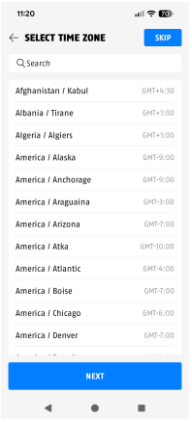
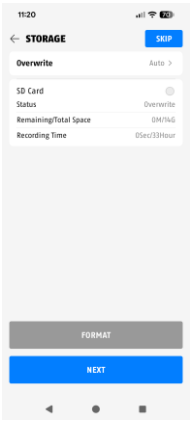
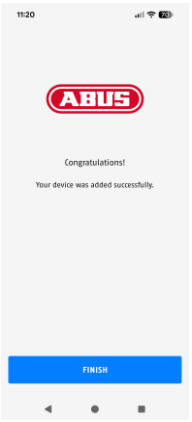
- On Android, you can search for Wi-Fi networks.
- On iOS, apps are not permitted to scan for Wi-Fi networks. The Wi-Fi details must be entered manually.

In the next step, you will be prompted to set a login password for your camera (Fig. 7). Please ensure you follow the 'password rules'.

Your Wi-Fi connection will now be established. The connection between the Wi-Fi network and the camera should be established within 120 seconds at the latest. Your camera has been successfully added.

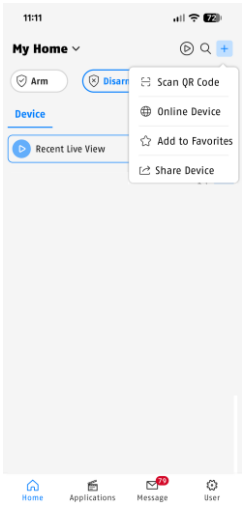
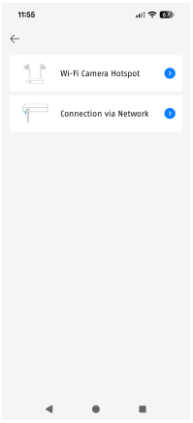
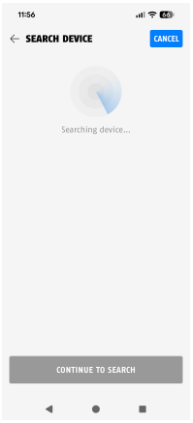
If you wish to save your QR code for future use, you can do so by clicking the 'Save QR Code' button.

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	Notes: In the 'Scan QR Code' menu, you will find a 'Local connection' option. If you tick this box, the camera will not be linked to your cloud account. This will only establish a direct P2P/relay connection between the app and the camera. Features such as device sharing will then not be supported.
3. Set device name and set the time zone	Now give your camera a name, such as 'Entrance area' and then tap the 'Next' button (Fig. 8). **The name can also be assigned and/or changed at a later date.** Next, find your desired time zone, select it and then press the 'Next' button (Fig. 9).  8.5,45  9.
4. Define storage criteria	Finally, you have the option to format your microSD card and set storage criteria (Fig. 10). **Formatting can also be .** The device has been added (Fig. 11).  10.  11.

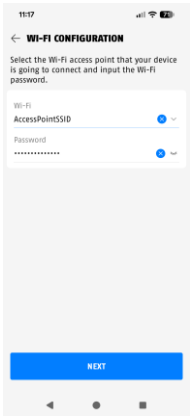
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4.2.2. Option II: Setting up via the camera's Wi-Fi hotspot

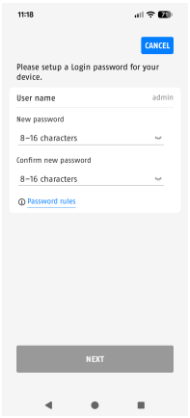
1. Launch the app and open the selection menu	Launch the EYSEO app and log in (see 4.1). As a first step, please tap the '+' icon in the top right-hand corner of the screen. A selection menu will open (Fig. 1)  1. **Location services must be enabled on your smartphone for setup. Also ensure that your smartphone and the camera are connected to the internet. An active internet connection is required for setup and to check for firmware updates. Check regularly to see if a new firmware version is available to receive functional improvements and security updates. You can find the current firmware version and available updates under 'Camera settings' → 'About the device' → 'Check for system updates'.**
2. Select 'Wi-Fi Camera Hotspot'	You will be presented with a choice between 'Wi-Fi Camera Hotspot' and 'Connect via network' (Fig. 2). Please select 'Wi-Fi Camera Hotspot'. Now follow the instructions on your display and continue a red flashing LED indicator. Then press the 'Next' button. The device search will be activated (Fig. 3) and the available camera(s) will be displayed. Please now select the camera you wish to connect. You will now be redirected to the Wi-Fi configuration.  2.  3.

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3. Configure Wi-Fi and connect the camera



4.



5.

You will now be redirected to the Wi-Fi configuration screen (Fig. 4). Please enter the name of your Wi-Fi network (SSID) and the corresponding Wi-Fi password.

Note regarding the Android and iOS operating systems:

- On Android, a search function for Wi-Fi networks is available.
- On iOS, apps are not permitted to scan for Wi-Fi networks. The Wi-Fi details must be entered manually.

In the next step, you will be prompted to set a login password for your camera (Fig. 7). Please ensure you follow the 'password rules'.

The Wi-Fi connection is established. The connection between the Wi-Fi network and the camera should be complete within 120 seconds at the latest. Once setup is complete, the camera will be added to the app.

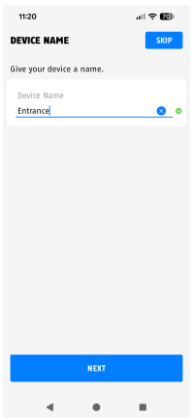
If you wish to save your QR code for future use, you can do so by tapping the 'Save QR code' button.

4. Set the device name and set the time zone

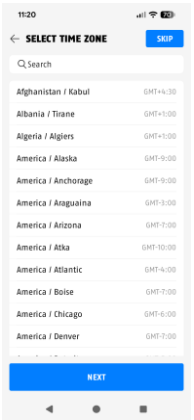
Now give your camera a name, such as 'Entrance area' and then tap the 'Next' button (Fig. 6).

The name can also be assigned and/or changed at a later date.

Now find your desired time zone, select it and then press the 'Next' button (Fig. 7).

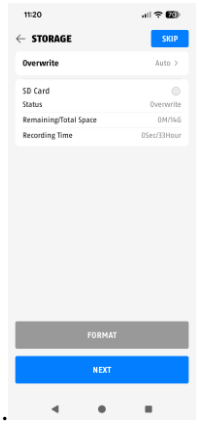
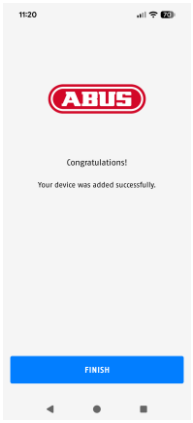


6.

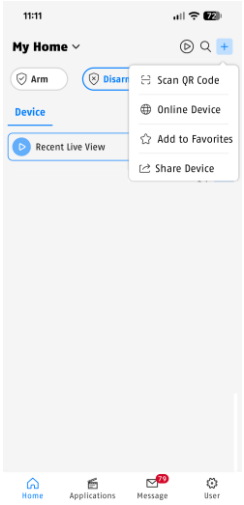


7.

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5. Define storage criteria	Finally, you have the option to format your microSD card and set storage criteria (Fig. 8). **Formatting can also be set up and/or changed at a later date.** The device has been added (Fig. 9).  8.  9.

4.2.3. Option III: Commissioning via the network

1. Launch the app and open the selection menu	Launch the EYSE0 app and log in (see 4.1). To begin, please tap the '+' icon in the top right-hand corner of the screen. A drop-down menu will appear (Fig. 1)  1. **To get started, location services must be enabled on your smartphone. Also ensure that your smartphone and the camera are connected to the internet. An active internet connection is required for setup and to check for firmware updates. Check regularly to see if a new firmware version is available to receive functional improvements and security updates. You can find the current firmware version and available updates under 'Camera settings' → 'About the device' → 'Check for system updates'.**
2. Select 'Connect via network'	You will be presented with a choice between the camera's Wi-Fi hotspot and a network connection (Fig. 2). Please select 'Network connection'. Now follow the instructions on your screen and continue the LED indicator turns blue. Then press the

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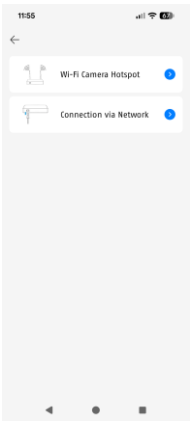
<table>
<tr><td></td><td>‘Next’ button.

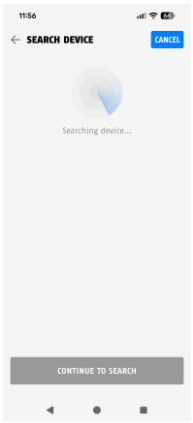
The device search will start (Fig. 3) and the available camera will be displayed. Please now select the camera you wish to connect.

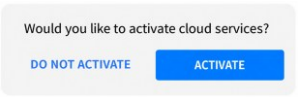
A prompt will appear asking whether you wish to enable the cloud services (Fig. 4). Enabling this links the camera to your cloud account and allows you to share camera access with other Eyseo users, with customisable access rights.

If you do not activate the cloud services, only a direct P2P/relay connection between the app and the camera will be established. Device sharing will then not be supported.

You will then be redirected to enter your login password.

2. 

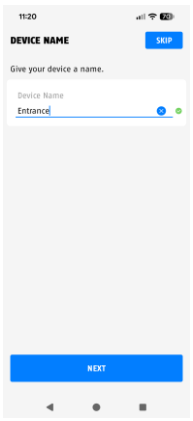
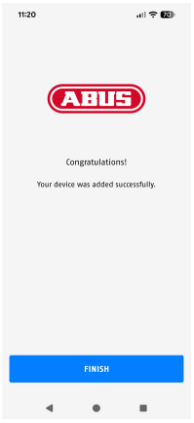
3. 

4. 
</td></tr>
<tr><td>3. Enter the login password</td><td>5. 

In the next step, you will be prompted to enter the login password for your camera (Fig. 5).</td></tr>
<tr><td>4. Set the device name</td><td>Now give your camera a name, such as ‘Entrance area’ and then press the ‘Next’ button (Fig. 6).

ⓘ The name can also be assigned and/or changed at a later date.</td></tr>
</table>

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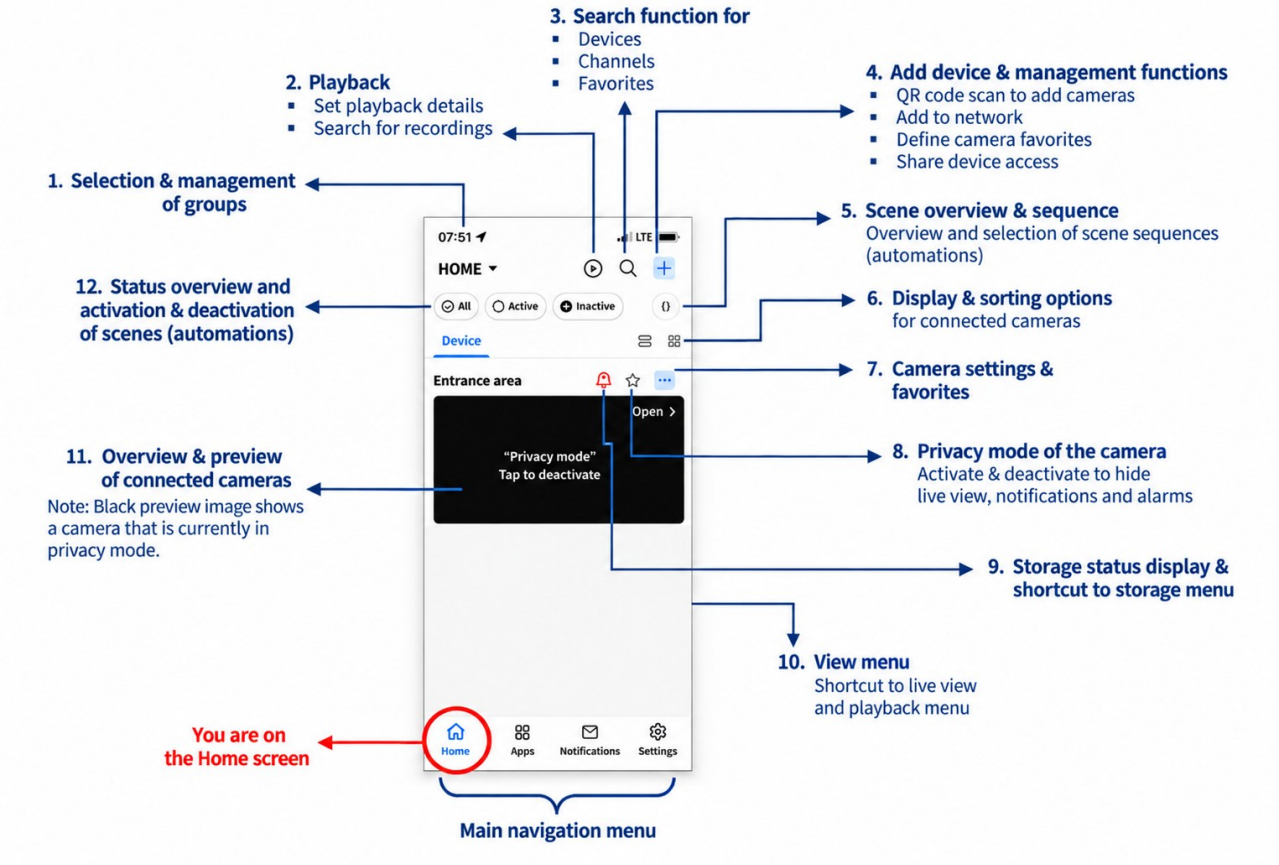
	6.  7.  Now tap 'Finish' (Fig. 7). Once set up successfully, the camera will be added to the app.

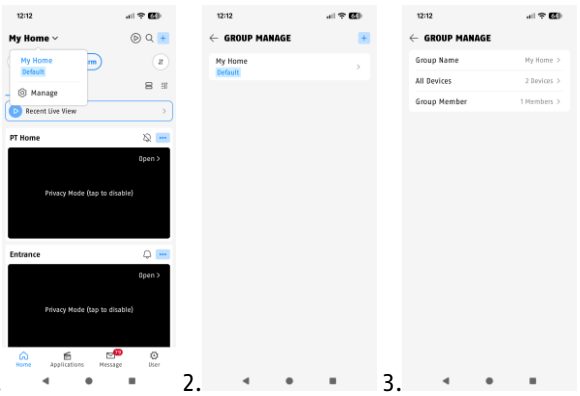
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5. EYSEO App Overview

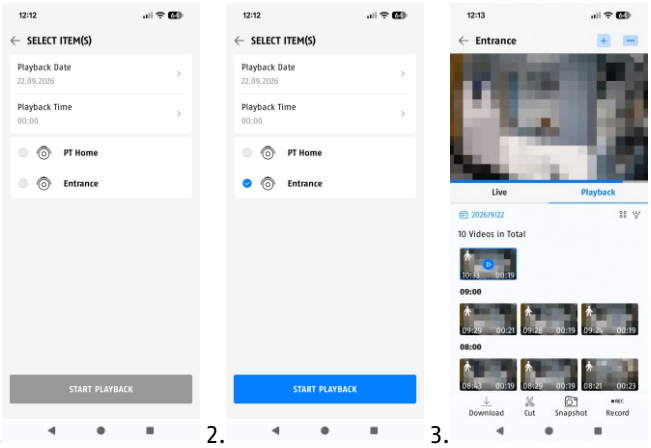
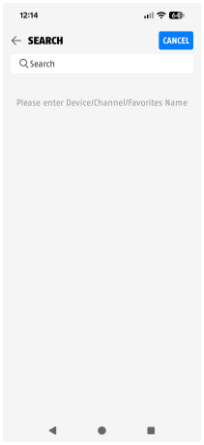
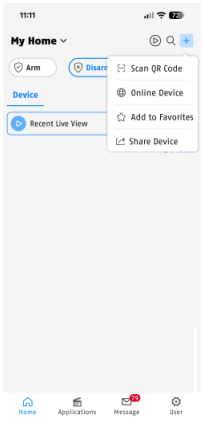
The following illustration shows the home screen of your iOS app. The various settings are described in more detail below. Please note that the screenshots and icons shown are taken from the iOS app. There may be slight differences from the Android app in terms of labelling, layout or functionality. This is described in the relevant sections or indicated with the note (iOS only) or (Android only).

5.1. 'Home' navigation menu item

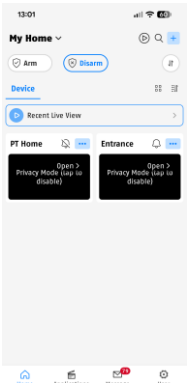
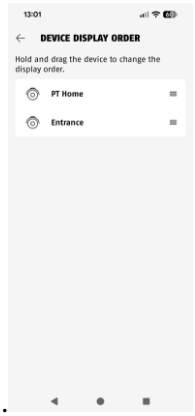
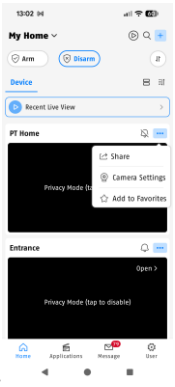
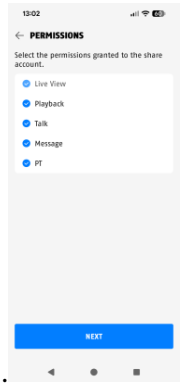
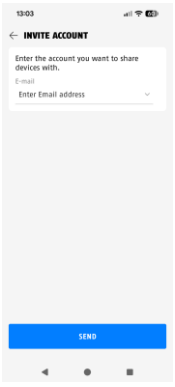
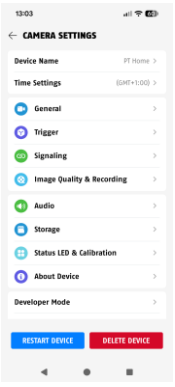


1. Selection & Management of groups	This function allows you to select a group, create a new group or manage existing groups. In the 'Management' settings menu (Fig. 1) for group management, all groups can be managed individually (group name / devices / users) and a new group can be created using the 'Plus' icon (Fig. 2 + Fig. 3).  1. 2. 3.
2. Playback	Here you can set playback details such as the date and time (Fig. 1), as well as search for recordings by selecting the relevant camera (Fig. 2) and play back the

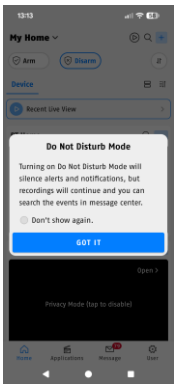
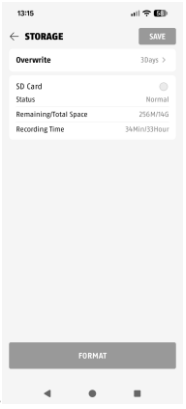
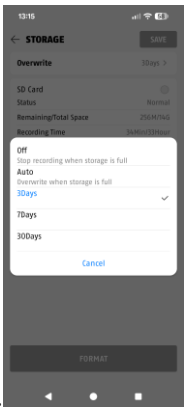
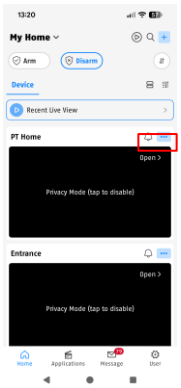
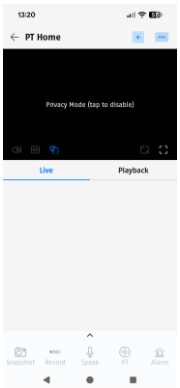
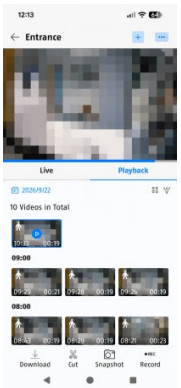
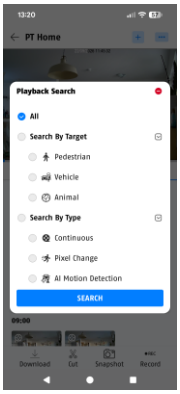
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	corresponding recordings (Fig. 3).  1. 2. 3.
3. Search function	Here you can search for devices, channels and favourites.  1.
4. Set-up & management functions	Using this function (Fig. 1), you can scan a camera's QR code to pair it, add a network device, customise your camera favourites or share access to one of your devices.  1.
5. Overview & Order of scenes	Here you can manage the order of scenes (automations) on the home screen by pressing and holding any tile for approximately 1 second and then dragging it to the desired position.

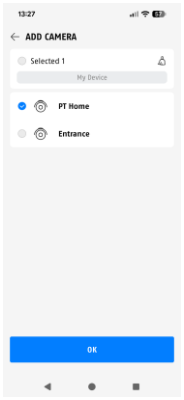
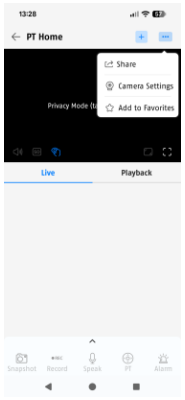
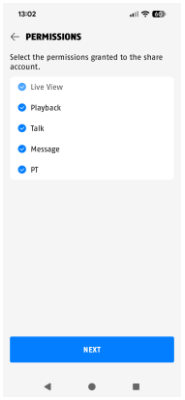
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6. Display & Sorting functions	This function allows you to change the preview/overview of your connected cameras on the home screen. You can decide whether the camera image should be displayed across the full width or whether the view should be scaled down (see Fig. 1 below), so that two views can be displayed side by side. You can also change the order of the integrated cameras as you wish (Fig. 2). To do this, press and hold the selected camera and then drag it to the desired position. **Note: the illustration shows only one integrated camera.**  1.  2.
7.Camera settings & Favourites	This function allows you to assign permissions (Fig. 1 + Fig. 2 + Fig. 3), edit camera settings (Fig. 4) and set favourites.  1.  2.  3.  4. **The camera settings are covered in a separate section (5.1.1).**
8. Do Not Disturb mode of the camera	Here you can enable or disable Do Not Disturb mode (Fig. 1) for the camera. When enabled, notifications (push notifications) will no longer be displayed on your smartphone. However, recordings will continue and can be viewed in the Messages menu. **If notification schedules are enabled, Do Not Disturb mode is deactivated accordingly at the start of the schedule, but will be reactivated at the end of the schedule.**

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	1. 
9. Memory status display & Shortcut to the storage menu	Here you can see the status of your storage medium at a glance (the previous illustration shows that no microSD card is inserted). You also have the option here to format your inserted microSD card (Fig. 1) and to define rules regarding how long recordings should be retained or how the camera should behave when the microSD card is full (Fig. 2). 1.  2. 
10. View menu	By selecting the 'Open' button in the camera image, you will be taken to the view menu for the selected camera (Fig. 1). There, you can access your camera 'live' and in real time (Fig. 2) or switch to the 'Playback' section (Fig. 3) 1.  2.  3.  4.  In **the 'Live' section (Fig. 2)**, tapping the image once gives you the option to enable or disable the sound (speaker icon), change the image resolution (HD icon), switch to privacy mode (eye icon) and to full-screen mode (square icons). Furthermore, the following functions are available in the bottom menu of the view : ▪ **Single image:** Take a single image of the current live view and save it to your smartphone

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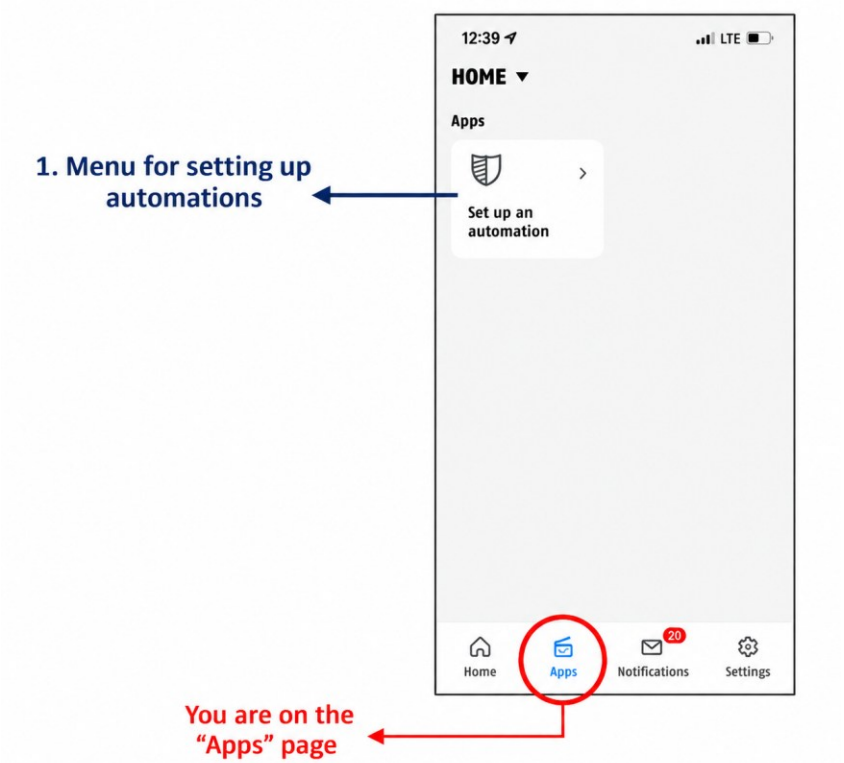
	▪ **Record:** Start recording ▪ **Talk:** Activate the two-way audio function ▪ **Position:** 360° control of the camera's field of view (joystick functionality) ▪ **Alarm:** Activate the siren ▪ **Light:** Switch the white light LEDs on and off ▪ **Panorama:** The camera automatically moves the pan-tilt head and creates a 360° image of the room. By tapping a selected spot on the generated 360° image, the camera moves to that position and displays it in Live View. ▪ **Lullaby:** Plays a short melody through the camera's speaker ▪ **Mirror:** Mirror the image In **the 'Playback' section** (Fig. 3), you can set a start and end time as well as the type of detection (event types). To do this, click on the date selector and the funnel icon. The results will now be filtered according to the time period and event detection type you have specified (Fig. 4). By tapping the image once, you can enable or disable the sound (speaker icon), play the video (arrow icon), increase the playback speed (x1 icon) and switch to full-screen mode (square icons). The following functions are also available in the menu at the bottom of the screen: ▪ **Download**: Download the recordings to your smartphone ▪ **Editing:** In the editing menu, you can edit a recorded video to extract the key moments. The edited clip must not exceed 5 minutes in length ▪ **Still image:** This button captures a still image of the moment currently displayed in the playback window and saves it to your smartphone. ▪ **Capture**: This button takes a screenshot of the currently displayed frame in the playback window and saves it to the app or your smartphone The '+' in the top right-hand corner is used to select and add existing cameras (Fig. 5). Using the three dots in the top right-hand corner (Fig. 6), you can grant permissions via the 'Share' option (Fig. 7), go directly to the camera settings and set favourites. 5.  6.  7. 
11. Overview & preview of registered cameras	All available cameras are displayed on the home screen of your app.

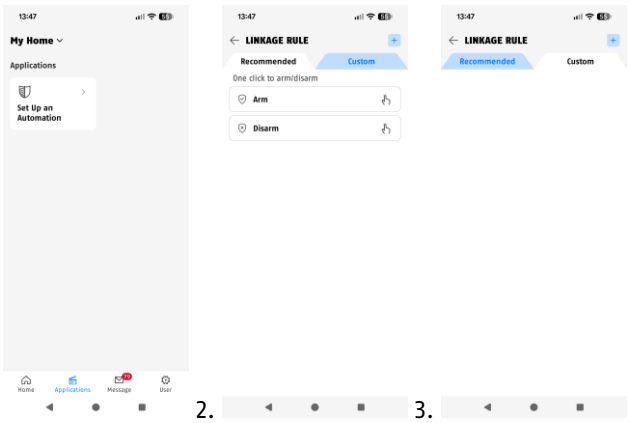
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12. Status overview and activation & deactivation of scenes	Activating and deactivating the configured scenes (automations).

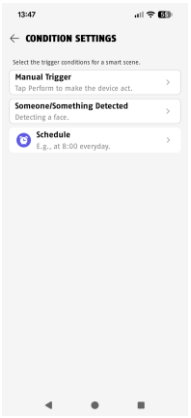
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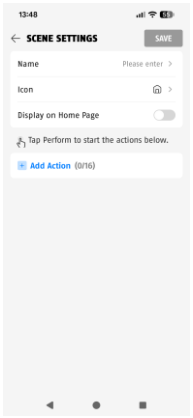
5.2. ‘Applications’ navigation menu item

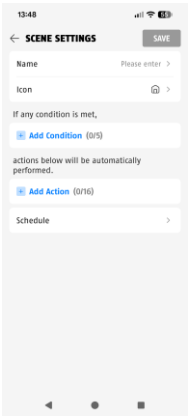


1. Menu for setting up automations	 1. 2. 3. Select the ‘Applications’ section from the menu at the bottom of your home screen to set up an automation (Fig. 1). To enable or disable one of the predefined standard automations, please select the ‘Standard’ tab to access the relevant configuration menu (Fig. 2). To set up a custom automation, please select the ‘Custom’ tab (Fig. 3) and then the ‘+’ icon in the top right-hand corner of the screen. You will be redirected to the ‘Condition Settings’ (Fig. 4). Here, you can choose the conditions under which the automation should be executed: ▪ **Manual trigger (Fig. 5)**: Triggered by the user ▪ **Person/object detected (Fig. 6)**: Triggered by an event

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4. 

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If you have opted for **manual activation** via a button (Fig. 5), you must now select a name for the automation, an icon of your choice and the action to be performed. To do this, select the desired camera and the desired automation under 'Add action'. You can now confirm your selection using the save button in the top right-hand corner.

If you have opted for an automation **triggered by event detection** (person/object detected) (Fig. 6), you must also name the automation and select an icon of your choice.

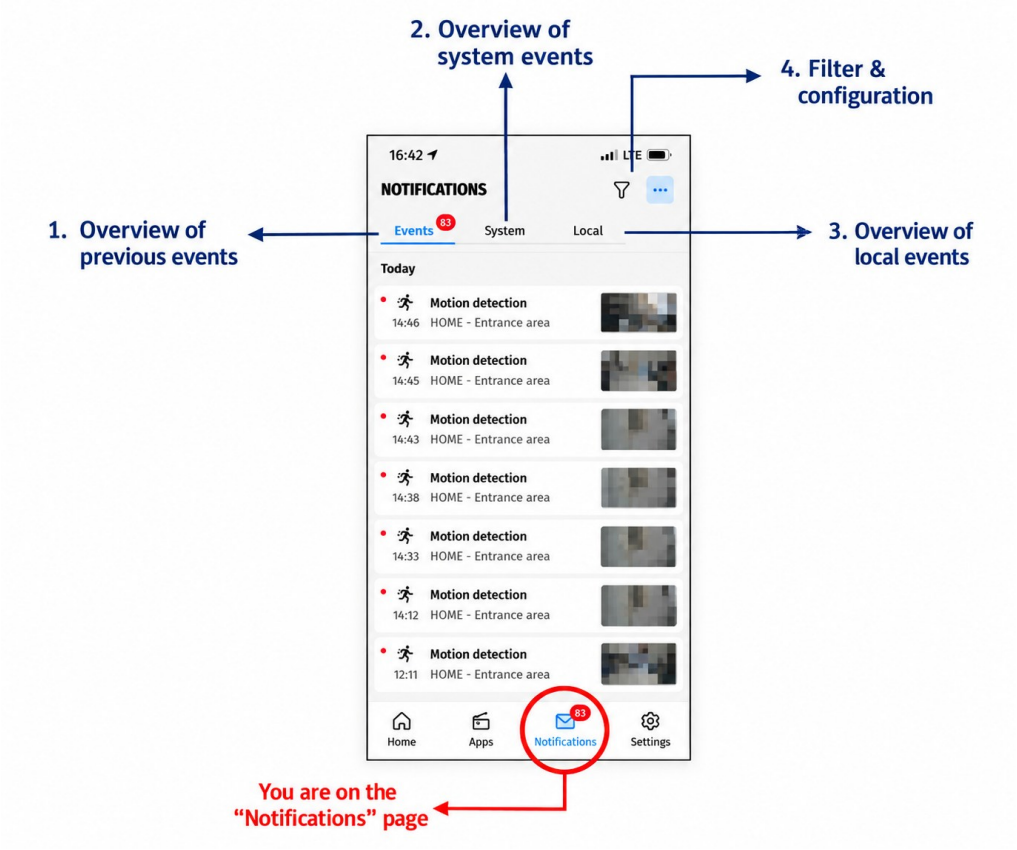
Next, please add a condition. To do this, first select your device and then the event detection that is to trigger the automation. Now, under 'Add action', specify the action to be carried out if the event detection is triggered. You can now set a schedule for when the automation should be active.

Note: The schedule settings are covered in a separate section.

Note: Automations are linked to your user account. They will also appear when you log in to an Eyseo app on another device.

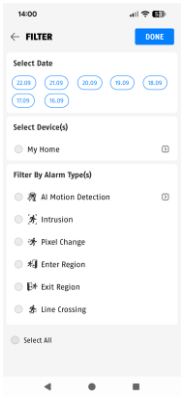
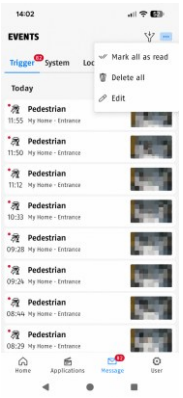
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5.3. Navigation menu item 'Messages'



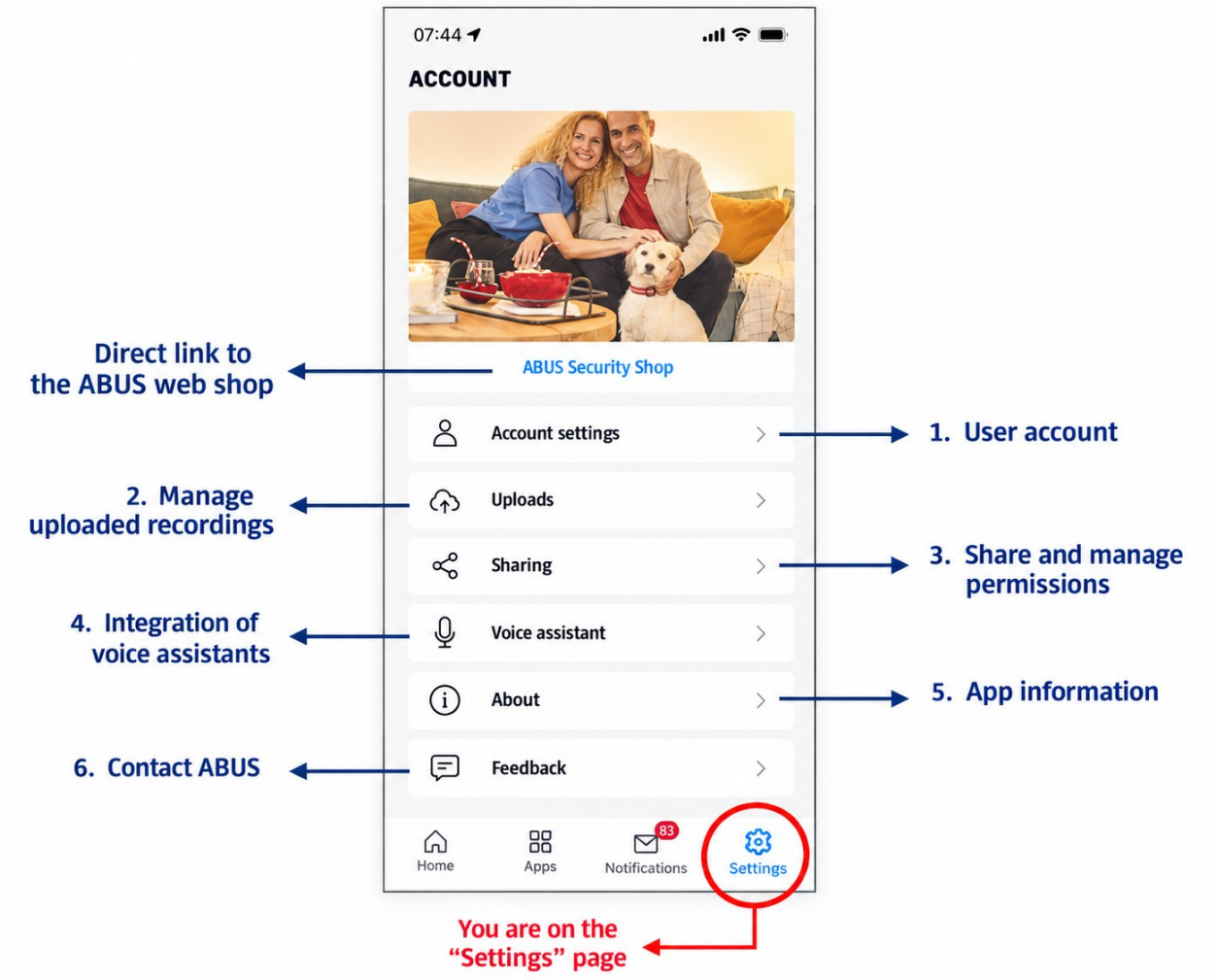
1. Overview of existing events	Overview of all events.
2. Overview of system events	Display of events relating to the sub-system and to devices belonging to other Eyseo users.
3. Overview of local events	When the camera is connected locally via P2P, all camera-related events are displayed here.
4. Filters & Configuration	The funnel icon in the top right-hand corner of the screen allows you to filter the recorded events according to specific criteria such as date, device and alarm types (Fig. 1). Using the three dots, you can mark your events as read, delete them or edit them selectively (Fig. 2).

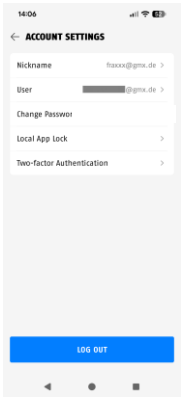
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	1.  2. 

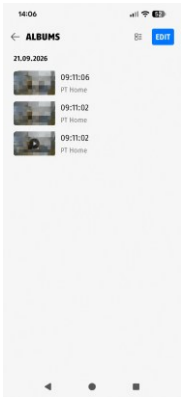
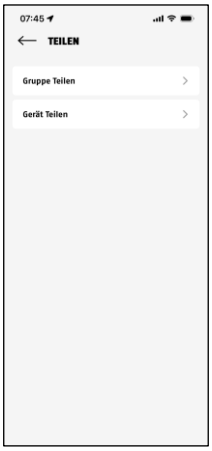
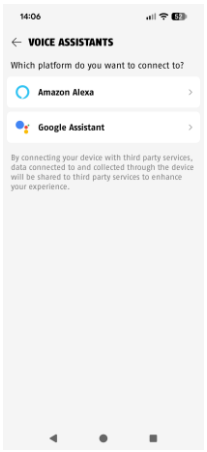
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5.4. ‘Settings’ menu item

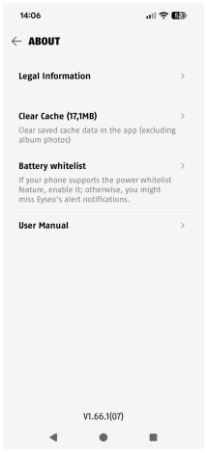


1. User account	You can change your name and password in **‘Account settings’** (Fig. 1) In the **‘Local App Lock’** section, you can also set a PIN and enable biometric authentication, provided your mobile phone supports this feature. To do this, simply toggle the relevant switch. **Two-factor authentication** can also be set up and enabled for logging into the Eyseo app. This links the account to a device 1. 

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2. Managing downloaded recordings	**The 'Recordings'** menu item displays all recordings (single images, videos) created in the app. You can delete these, download them to your device or share them with someone by tapping 'Edit' in the top-left corner. 1. 
3. Sharing and managing Permissions	Using **'Share',** you can manage entire groups of devices or individual devices and share them with other app users. **Note: Invited app users must also have an active account in the EYSEO app.** 1. 
4. Integration of voice assistants	In the 'Voice Assistant' section, you can enable Alexa or Google Assistant. 1. 

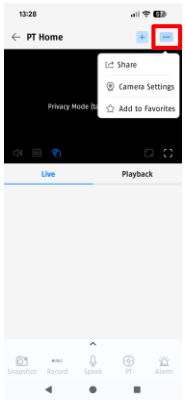
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5. App information	In Fig. 1 below, you will find all legal notices, such as the terms of use, privacy policy and open-source information. You can also clear all cache data here (alarm images/thumbnails). 1. 
6. Contact ABUS	You can contact ABUS via this section (Fig. 1). Please describe your enquiry in as much detail as possible. If necessary, include images (e.g. screenshots) as well as app and device logs with your enquiry. This information can help us analyse and process your enquiry more efficiently. 1. 

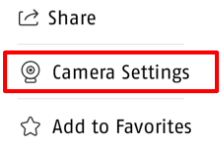
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6. EYSEO camera settings (in the app)

6.1. Open camera settings



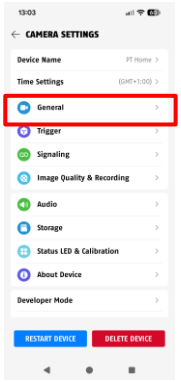
- There are several ways to open the camera settings on your EYSEO.
- Either directly from the home screen or from the camera's live view.
  1. In the top right-hand corner, there is a small blue button with three dots.
  2. As soon as you tap this button, a drop-down menu will open
  3. Select the 'Camera settings' option



6.2. Camera settings in detail

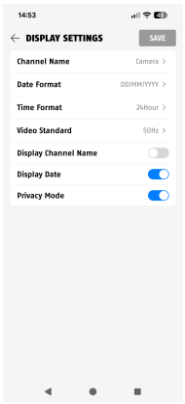
The following table describes the available 'Camera settings' in the EYSEO app.

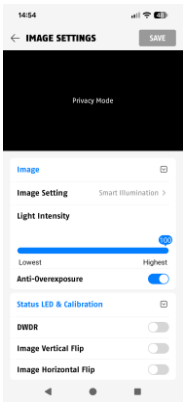
1. General

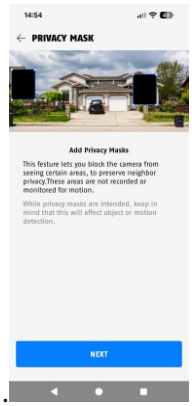


The **'General'** offer configuration options in the following areas:

- 1.1 'Display Settings' (Fig. 1)
- 1.2 'Image Settings' (Fig. 2)
- 1.3 'Privacy Mask' (Fig. 3)

1. 

2. 

3. 

1.1 'Display settings'

In the "Display settings" (Fig. 1), you can configure the basic settings for your camera. These range from the name (channel name = camera name) and time/date to the video standard, where you can select the desired frame rate between 50 Hz (PAL) and 60 Hz (NTSC).

Please select 50 Hz as the video standard for use in Europe.

If you want the channel name to appear in the live view, please enable this function. The same applies to 'Show Date'. This setting determines whether the date should be displayed in the live view and in the recording. Finally, you can enable or disable privacy mode via this menu. When enabled, all image and audio transmission is stopped – the camera lens retracts into the bottom of the housing.

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1.2 'Image Settings'
In the 'Image Settings', you can choose between 3 image settings:
Full-colour mode, Day/Night mode and Intelligent Lighting.

- **Full-colour mode:** The camera provides a colour image both day and night. The white light LEDs are activated to provide additional illumination at night
- **Day/Night mode:** The camera provides a colour image during the day and a black-and-white image at night. The IR LEDs are activated to provide support at night
- **Smart Lighting:** The camera provides a colour image during the day. At night, it initially provides a black-and-white image and, when an event is triggered (e.g. a person is detected), a colour image

ⓘ **The determination of whether it is day or night is based on the image brightness.**

The **'Light Intensity'** section controls the brightness setting of the white light LEDs and IR LEDs. Please enable **'Anti-overexposure'** so that the exposure adjusts in the event of strong sunlight to prevent overexposure effects.
Use the blue **'More settings'** drop-down menu to access the following parameters

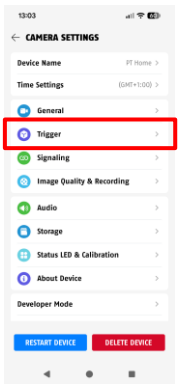
- **DWDR:** improves the image quality in situations with significant differences in brightness
  e.g. caused by backlighting, by balancing out bright and dark areas
- **Vertical image flip:** rotates the image vertically
- **Horizontal image flip:** rotates the image horizontally

1.3 'Privacy Mask'
This function allows you to deliberately exclude predefined areas from the camera image (e.g. a neighbour's house, a bus stop, etc.). To do this, please activate the 'Privacy mask' slider and press the '+' button. A red triangle will now appear, which you can adjust with your fingers (move, enlarge, reduce). From now on, this selected area will only be displayed as a black box.

The maximum of 4 privacy zones are linked to Preset 1 (default position 1). If the camera moves out of Preset 1, the masks are hidden. When the camera returns to Preset 1, the privacy zones are displayed again. For this to work, Preset 1 must be saved.

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2. Trigger



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In the trigger settings, you specify when and under what conditions the camera triggers an event. The following presets are available here (Fig. 1):

Target detection:

- **AI motion detection:** Intelligent object detection enables the targeted detection and tracking of defined objects such as people, pets or vehicles.

Behaviour Analysis:

- **Intrusion:** Define surveillance zones within the camera image. As soon as objects remain within the zone for a specified period, the event is triggered.
- **Entering a region:** Define a monitoring area within the camera image. The event is triggered immediately as soon as a selected object enters this area.
- **Exit region:** Define a monitoring area within the camera image. The event is triggered immediately as soon as a selected object leaves the defined

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area.

- **Line crossing:** Line crossing detection monitors defined areas and triggers an event when detected objects cross a specified line. Up to four customisable lines can be created in the live image for this purpose.

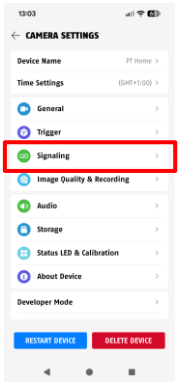
Normal event:

- **Pixel change:** This motion detection responds to changes in the image and detects movement based on changes in pixels. Unlike intelligent object detection, it does not distinguish between people, vehicles or other objects.

- **Noise detection:** Noise detection monitors ambient noise via the built-in microphone. If a specified threshold is exceeded, the camera can trigger an event.

Note: A detailed description of all configuration options can be found in the 'Event Settings' section of the web interface.

3. Signalling



In this section, you configure the behaviour of alerts (= the camera's response in the event of an incident). Only the behaviour is set here; the setting for when the alert should be triggered is configured beforehand under 'Triggers'.

- 3.1 'Flashing light'
- 3.2 'Siren'
- 3.2 'Notification'

3.1 'Flashing light'

The camera's **"flashing light"** can be activated as a deterrent in the event of an incident. You can configure the duration of the light (5–180 sec), the time interval until the flashing light is activated again (the light will not flash during this time, even if an incident occurs), and a schedule for the activity.

3.2 'Siren'

In **the 'Siren'** section, you can set the siren parameters. In addition to actually activating the siren (**'Activate'**), you can switch between two siren types (**'Siren type'**). The **'Siren level'** specifies the volume of the siren (1 = minimum, 10 = maximum). You can set the **'Siren Duration'** following detection from 5 to 180 seconds. The **'Time Interval'**
(1–300 sec.) describes the pause time until the siren is activated again following an event. A **'schedule'** can also be created and configured for the siren's operation. If a schedule is defined, the siren will only be active within that timeframe.

3.3 'Notification'

Under **'Notification'**, you can not only specify whether you wish to be notified in the event of an incident, but also what specifically you wish to be notified about. The following detection types are available:

- Motion detection
- Noise detection
- People/vehicles
- Line crossing
- Intrusion

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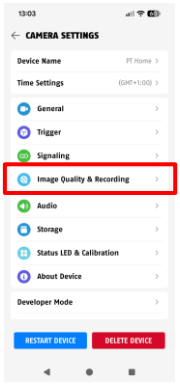
<table>
<tr><td></td><td>

- Entering a region
- Leaving a region
-

Please select the options you wish to be notified about by ticking the relevant boxes. You can also set a **'Time interval (min.)'** between push notifications here. You can also configure a custom **'Notification schedule'** for notifications.

</td></tr>
<tr><td>

4. Encoding & Recording



</td><td>

The image quality and recording settings consist of two individually configurable sections:

- Encoding
- Recording

In the 'Encoding' section, you define the **MainStream** and **SubStream** settings. The **MainStream** provides high image quality and resolution for detailed image display. The SubStream is a data-reduced video stream designed to ensure smooth live transmission when network bandwidth is limited.

In the 'MainStream' and 'SubStream' menus, you will find the following configuration options:

- **Resolution:** The resolution determines how many pixels an image has. A higher resolution ensures sharper images and greater detail, but also requires more storage space
- **Frame rate:** The frame rate (FPS) indicates how many frames per second are transmitted or recorded. A higher frame rate ensures smoother motion, but increases the amount of data
- **Encoding format:** The encoding format (e.g. H.264 or H.265) determines how the video is compressed. Modern formats such as H.265 offer better compression and save data whilst maintaining the same quality
- **Encoding mode:**
  - CBR = Constant Bitrate:
    With CBR, the data rate remains constant regardless of the complexity of the image. This ensures a stable network load, but can consume an unnecessary amount of storage for simple scenes or reduce quality in complex scenes
  - VBR = Variable Bitrate:
    With VBR, the data rate adapts to the image content. When there is little movement, a lower data rate is used; when there is a lot of movement, a higher one is used. This ensures that bandwidth and storage are used efficiently.
- **Video quality:** Definition of video quality across 6 different quality levels, ranging from 'Lowest' to 'Highest'
- **Configuration mode:** Choose here between 'Predefined' and 'Custom'
- **Bitrate:** The bitrate determines the amount of data in your videos. Higher values result in better picture quality, but also increase the storage requirements and network load
- **I-frame interval:** The I-frame interval determines how often a complete frame is transmitted. Shorter intervals improve image quality during movement, but increase the transmission bandwidth and storage

</td></tr>
</table>

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<table>
<tr><td></td><td>requirements

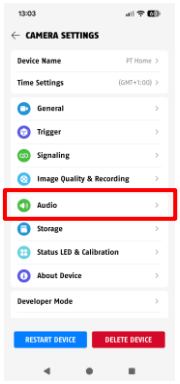
▪ Audio: Audio transmission and storage can be enabled or disabled separately for the first and
2nd video stream. For data protection reasons, it is recommended that this be disabled (factory setting).

In the 'Recording' section, you can configure recording and scheduling settings. Once you have used the stream mode to specify which video stream is to be used for recording, you can activate the recording function by moving the slider.

The same applies to the 'Pre-recording' selection field. Here, the camera buffers the video for a few seconds to capture relevant footage prior to the event occurring. The entire stored event video thus shows the event unfolding from the very beginning. The pre-recording duration is (depending on the camera's current storage status) only up to a few seconds.

In the 'Schedule' section, you can set recording schedules. The recording schedule can be configured globally for normal recording (continuous recording) and for all recording types relating to motion-triggered events.

ⓘ The schedule for noise detection is configured directly in the settings for noise detection. Each detection also always has an individual schedule.</td></tr>
<tr><td>5. Audio settings


</td><td>In the audio settings, you can configure the following parameters

▪ Audio encoding
▪ Input/output volume
▪ Sampling rate

In the audio encoding section, you define the audio standard that determines how voice recordings are processed and transmitted by the camera. Please select 'G.711A' if you wish to oper ly in Europe, and 'G.711U' if you wish to operate your camera in Japan or North America.

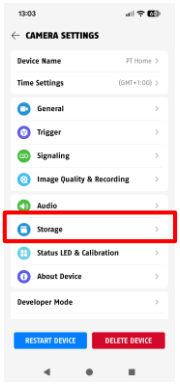
In the audio settings, you can set the camera's input and output volume. This can be adjusted in steps from 0 to 10 (0 = mute, 10 = maximum volume).

The sampling rate determines the quality of the audio transmission. Here you can choose between 8000 kHz (less data, lower sound quality) and 16000 kHz (more data, better sound quality).</td></tr>
<tr><td>6. Storage</td><td>In the storage settings, you can define how the camera should respond if the SD card is full. You can choose whether the storage on a full card should be overwritten or whether recording should stop.

You also have the option to select how long the data should be retained or whether your recordings should be automatically deleted after
3, 7 or 30 days.

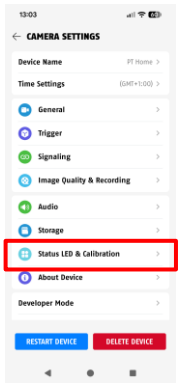
Formatting the SD card: Formatting resets the memory card and deletes all data stored on it.</td></tr>
</table>

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We recommend inserting the SD card before commissioning the device and before connecting the power supply.

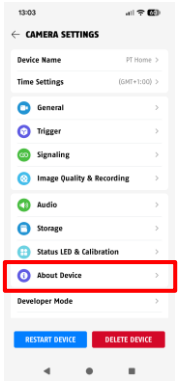
7. Status LED & Calibration



In this section, you can enable or disable your camera's **status LED** by moving the slider as required.

It is occasionally advisable to calibrate your camera's pan-tilt head. You can do this via the **'Automatic Calibration'** menu option.

8. Device Information

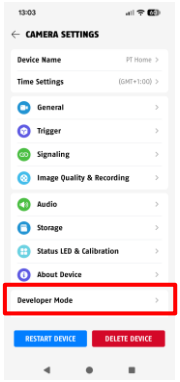


In the Device Information section, you will find the following details:

- **Device ID:** For this camera type, this ID is always 000000
- **Model number:** The model number of the product
- **Hardware version:** Indicates the physical version of the camera
- **Software version:** Indicates which firmware version is installed on the camera
- **IP address:** The camera's network address. This is required to access the camera on the local network (via a web browser)
- **MAC address:** The camera's hardware identifier for identification on the network
- **P2P ID:** The device's ID on the P2P server
- **Cloud ID:** Identifier for connecting to the EYSEO cloud service

In the device information section, you also have the option to check whether your system's firmware requires an update.

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9. Developer Mode & Support information  	When **Developer Mode** is enabled, the device log (system events and error messages from the device) is saved. In the event of a fault, this information provides valuable assistance with analysis, diagnosis and subsequent troubleshooting.

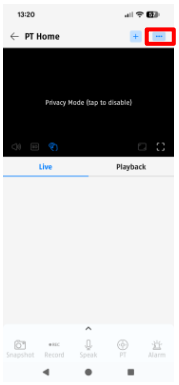
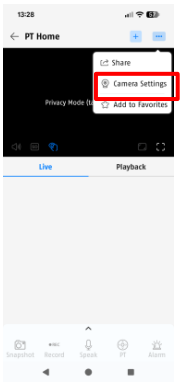
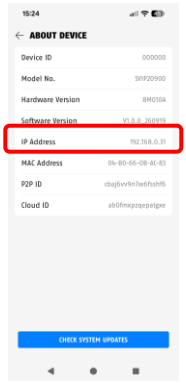
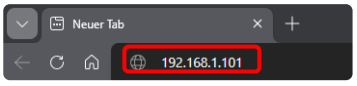
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10. Wi-Fi configuration	In **the 'Wi-Fi configuration'** section, you can select an alternative Wi-Fi network. Simply tap the arrow icon in the 'Wi-Fi' section to view all available Wi-Fi networks. Select your preferred network here and then enter the corresponding password. Use the slider to specify whether an **'Automatic IP (DHCP)'** should be assigned. If this function is enabled, the device will automatically receive its network settings from the router. Manual entry of the IP address and network parameters is therefore not required.

7. Web interface

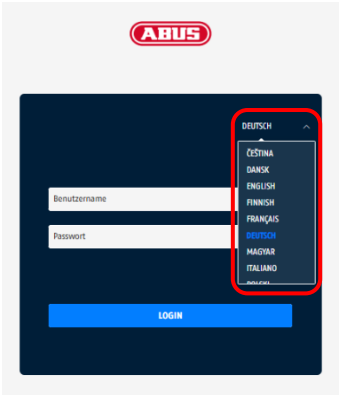
7.1. Web interface: First access

7.1.1. Checking the IP address via smartphone

1. Open Camera Settings Open	Open the camera settings (Fig. 1). There you can IP address of your camera. Now open the 'Camera settings' (Fig. 2). 1.  2. 
2. Read the IP address	Open device information and read the IP address (Fig. 3). 3. 
3. Enter the IP address into browser	Enter the camera's IP address into your chosen browser (Fig. 4). 4. 

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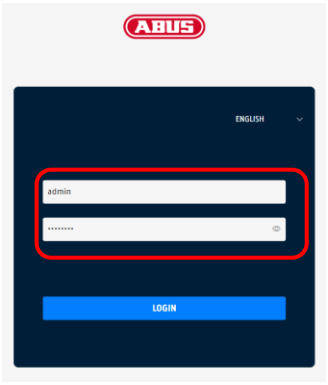
7.1.2. Change the language of the web interface



- You can customise the language of the web interface on the login screen.
  To do this, open the drop-down menu in the top right-hand corner of the login screen and select the desired language.

- If you are already logged in, please log out first to access this login screen.
  You can find out how to log out in the description of the web interface (point 4)

7.1.3. Logging in to the web interface

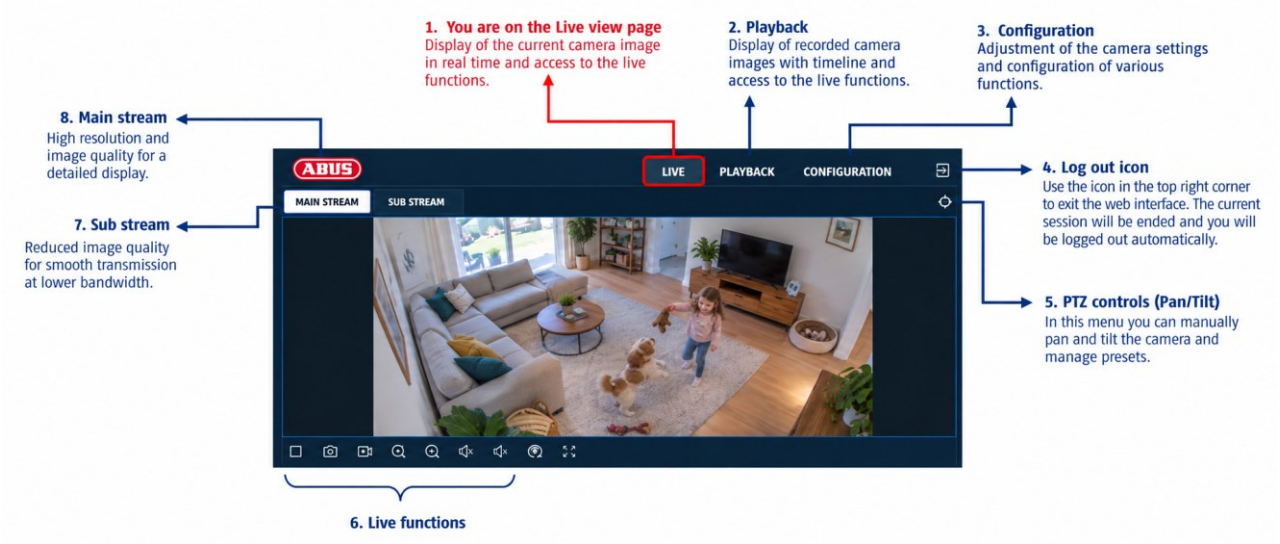


- Once the correct IP address has been entered and the page has loaded, a login screen will appear.

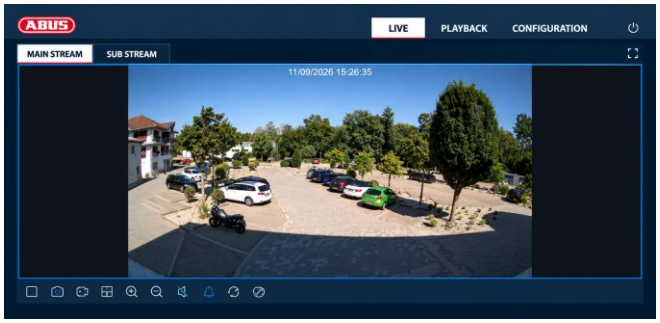
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7.2. Live

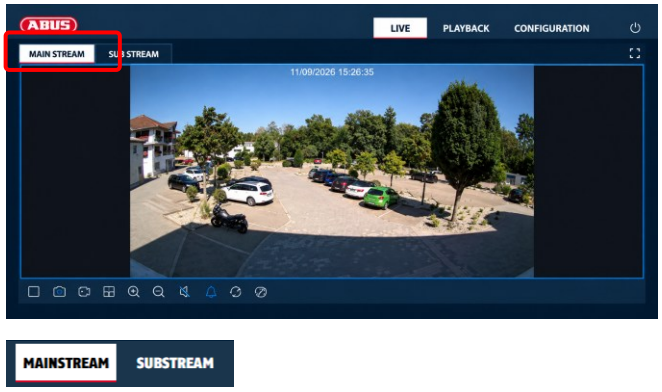
7.2.1. Description of the web interface (Live view)



7.2.2. Live (live view)

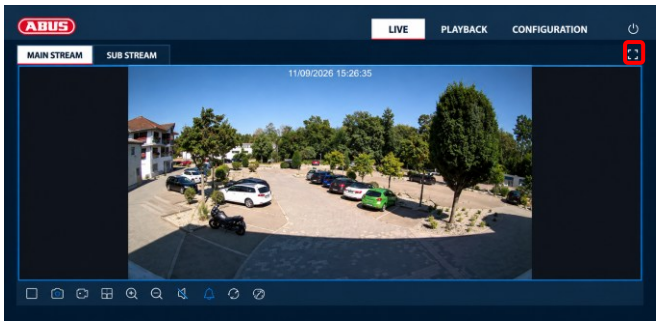
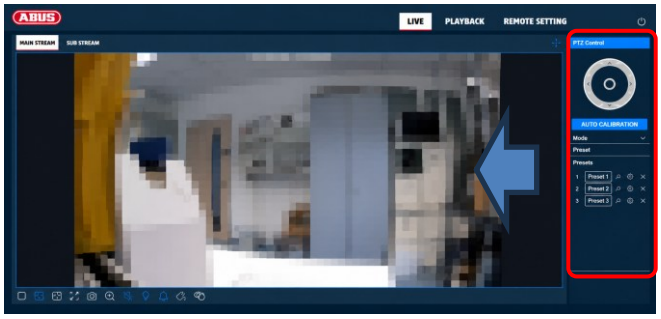
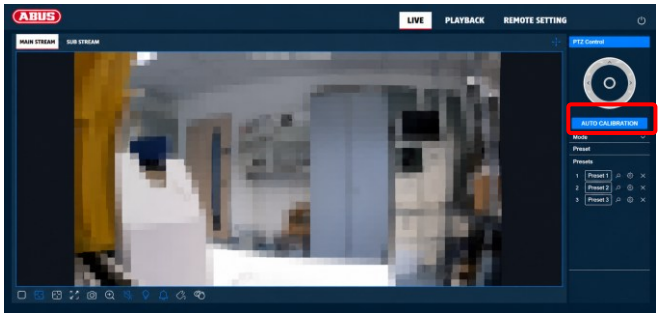
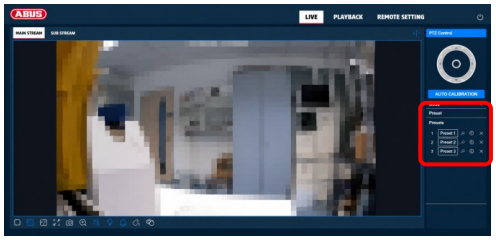
	Under the 'Live' section, the current camera image is displayed in real time (live view) and serves as the central interface for monitoring and operating the camera. From here, you can switch between **'MainStream'** and **'SubStream'**, access PT settings (pan/tilt) and use other camera functions. The exact setting options are described in detail in the following sections.

7.2.3. Main Stream SubStream

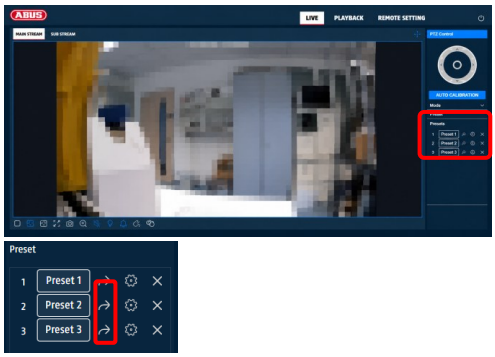
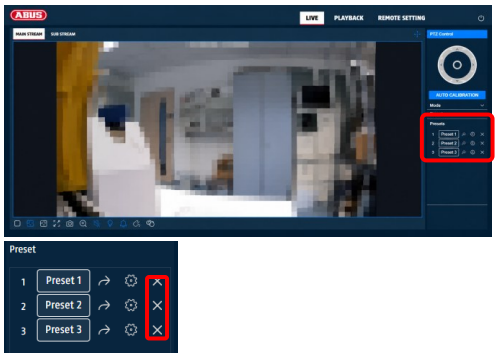
 	Choose between **'MainStream'** and **'SubStream'** for the camera's live view: ▪ **MainStream:** High image quality and resolution for a detailed display ▪ **SubStream:** Reduced image quality for a smoother stream when bandwidth is limited The settings for **'MainStream'** and **'SubStream'** can be customised individually in the camera settings. This allows image quality and data usage to be optimally tailored to the specific application.

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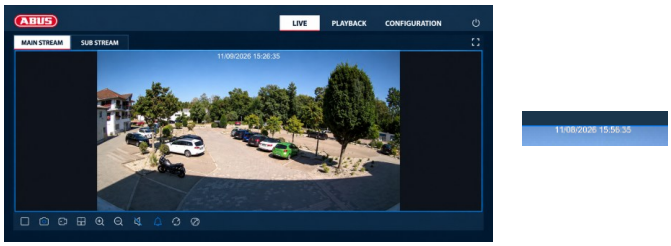
7.2.4. PT settings (pan/tilt)

	▪ Click the PT icon in the top right-hand corner of the live view to open the PT settings (Pan/Tilt). ▪ **Cannot be opened in privacy mode**
	▪ In this menu, you can manually pan and tilt the camera to select the desired frame.
	▪ **Automatic calibration:** The **'Automatic calibration'** button allows you to recalibrate the camera. To do this, click on the blue button. The camera will then automatically carry out a calibration process.
	▪ **Saving preset positions:** The camera supports up to three preset positions. First, move the camera to the desired position and then click on the cog icon next to the relevant preset. The current camera position will be saved.

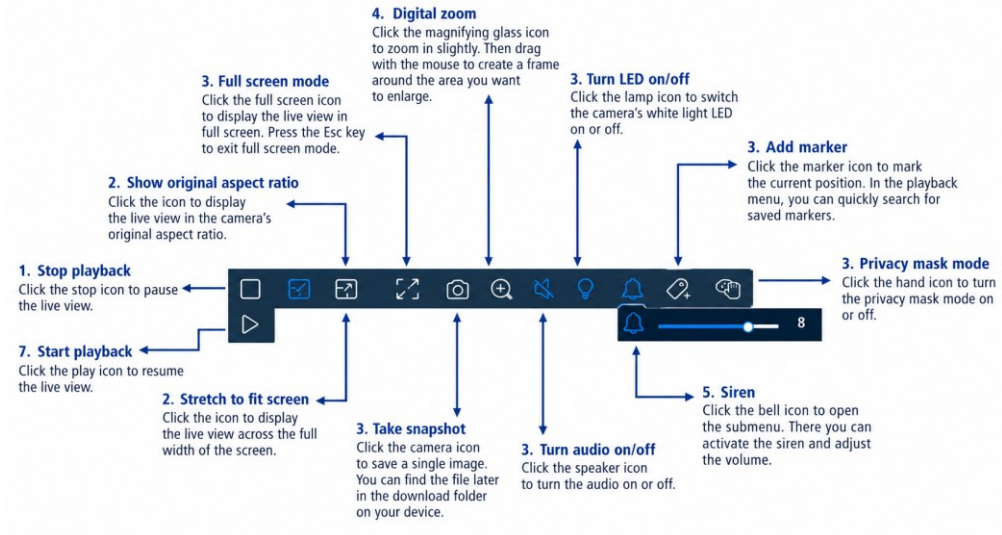
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<table>
<tr>
<td>
</td>
<td>▪ Moving to a preset position: You can access a saved preset position using the arrow icon. Once clicked, the camera will automatically move to the saved position.</td>
</tr>
<tr>
<td>
</td>
<td>▪ Deleting a preset position: You can delete a saved preset position at any time using the X icon</td>
</tr>
</table>

7.2.5. Timestamp

<table>
<tr>
<td>
</td>
<td>▪ Date / Time: The timestamp displays the current date and time here. This depends on the time zone setting. The position can be changed as required in the General Settings under the Display Settings sub-item.</td>
</tr>
</table>

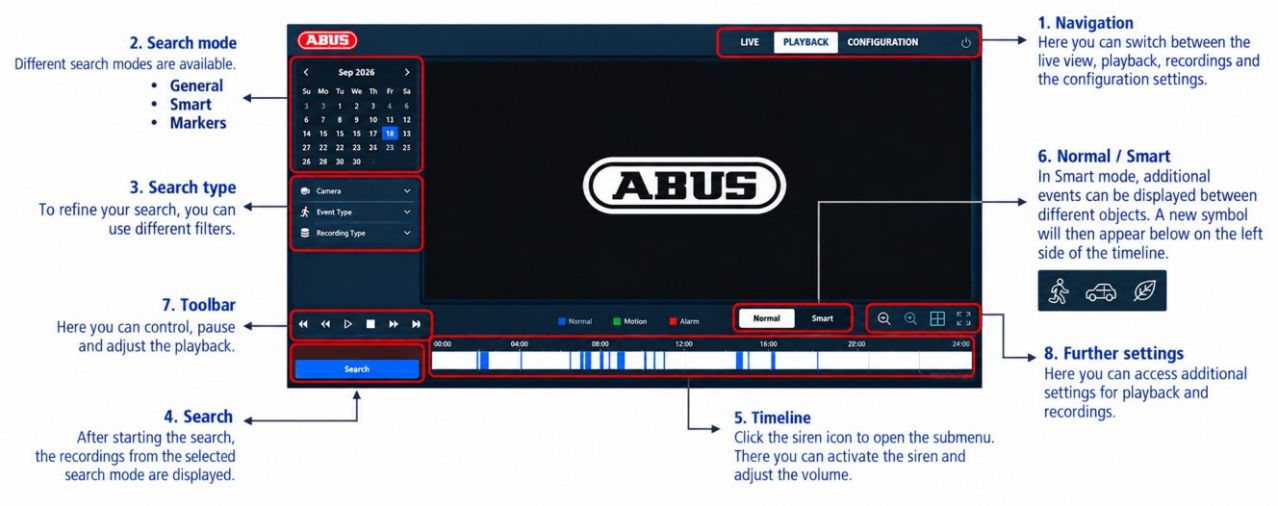
7.2.6. Live View toolbar (Live functions)



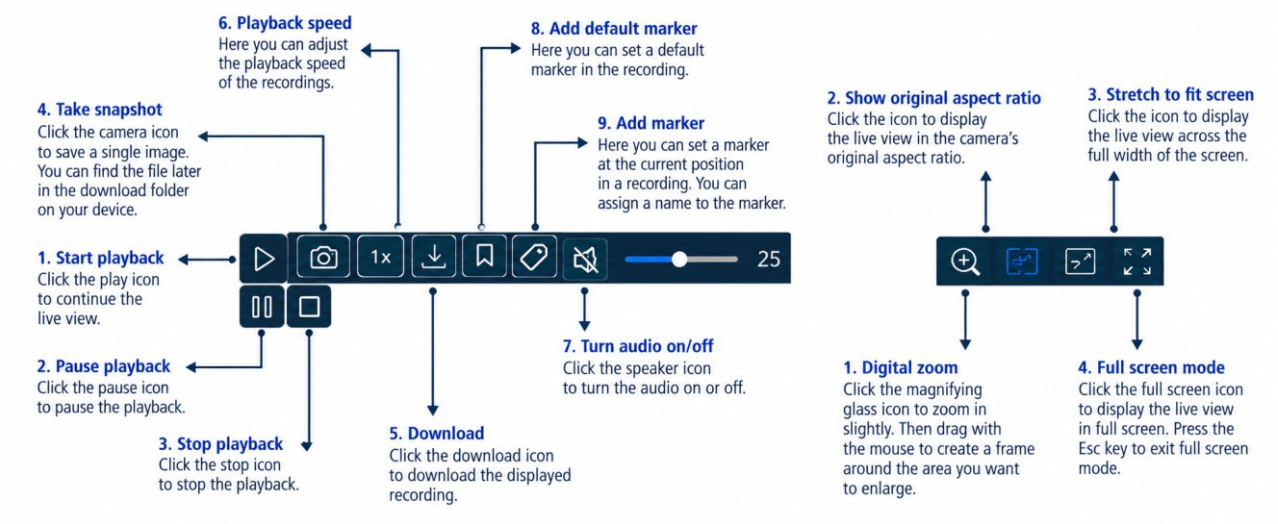
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7.3. Playback

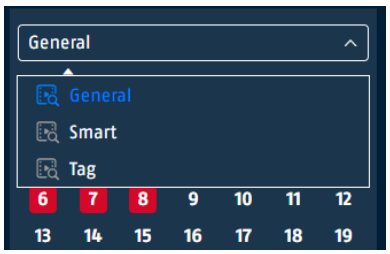
7.3.1. Description of playback



7.3.2. Description of the Playback Toolbar



7.3.3. Playback search modes



You can switch between the following modes

- **General:** General playback over bottom playback bar
- **Smart:** Mark an area an filter for movments inside the picture (it checks for pixel changes – no object search)
- **Tag:** Search for previously saved tags (timestamps to jump to)

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7.3.3.1. General



- You can select the desired date in **the calendar**
- Calendar days with existing entries are **highlighted in red**.
- Optionally, you can further narrow down the search using the available filters.
  Search: Clicking the Search button starts the search using the previously specified criteria.
- **Timeline:** Once the search is complete, recordings are displayed in blue and green as vertical bars

Colour codes on the timeline:

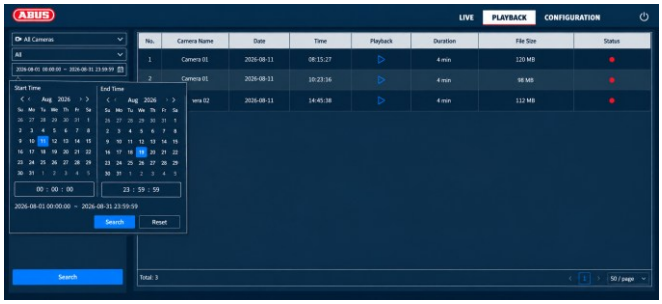
- **Normal:** NORMAL SMART
  = Recordings triggered by events
  = Continuous recording
- **Smart:** NORMAL SMART
  Additional filter options are available
  = All recordings matching the filter
  = All other recordings

7.3.3.2. Smart



- This is a special search mode. Here, specific areas can be selected in the search mask.
  The search is limited to the areas marked in red.
  During the search, all recordings in which no event occurred in the area marked in red are filtered out.
- All other setting options have already been covered in 6.3.3.1 General.

7.3.3.3. Tags



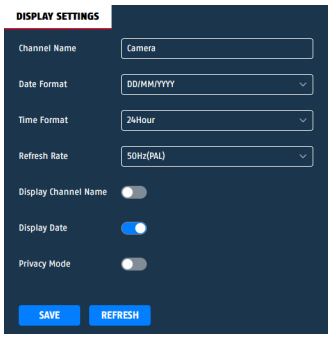
- Here, you can search for previously set markers in videos and recordings.
  These markers can be set in recordings or during live view.
- Here in the calendar, the days on which recordings contain markers are already highlighted with a red line
- As soon as you press 'Search', all recordings containing the markers and matching the other filter criteria will appear.

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7.4. Configuration

7.4.1. General settings

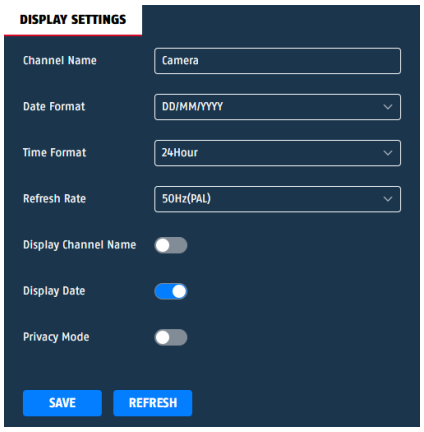
7.4.1.1. Display settings



Here you can customise the display of the camera image. Specify which information is to be shown in the live view and how the image should be displayed.

- **Position of the date in the live view:** Can be dragged to any position using the mouse.
- **Privacy mode:** As soon as privacy mode is activated, the camera moves its lens vertically downwards and deactivates the live view.

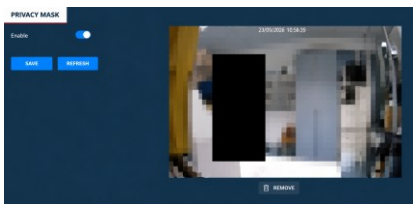
7.4.1.2. Image settings



- **Image mode:** Determines how the camera operates under different lighting conditions. In **Full Colour mode**, the image remains in colour at all times. **Day/Night mode** automatically switches between colour and night vision. **Intelligent Lighting** uses additional lighting to ensure colour images are maintained for as long as possible, even in the dark.
- **IR-CUT Mode:** Determines when to switch between colour and night vision. Choose between permanent **Day**, **Night**, automatic **Image** or time-controlled **Schedule mode**.
- **IR-CUT sensitivity:** Determines how sensitive the camera is to changes in ambient brightness. Higher values result in a faster switch between day and night modes.
- **IR LED control:** Determines how the infrared lighting operates. In **Manual mode**, the lighting is set to a fixed level. **Smart IR** automatically adjusts the brightness and reduces overexposure. Selecting **'Off'** deactivates the infrared LEDs.
- **IR Intensity:** Setting for the brightness of the IR lighting.
- **Overexposure protection:** Reduces overly bright areas of the image and improves the visibility of details in the presence of strong light sources.

Recommendation: The default settings are ideal for most applications. Use Day/Night mode and Smart IR to automatically achieve good image quality both day and night.

7.4.1.3. Privacy Zones



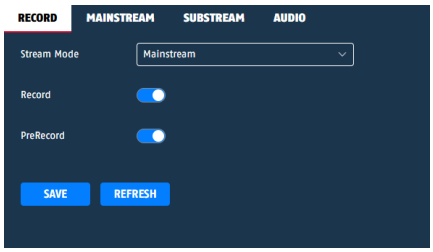
These help to mask areas that should not be recorded, such as public footpaths, neighbouring properties or other areas relevant to data protection. Activate the function and draw the desired privacy zones directly onto the live view. Up to four areas can be defined and can be adjusted or deleted at any time.

The maximum of 4 privacy zones are linked to Preset 1 (Preset Position 1). If the camera moves away from Preset 1, the masks are hidden. When the camera returns to Preset 1, the privacy zones are displayed again.

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7.4.1.4. Video parameters

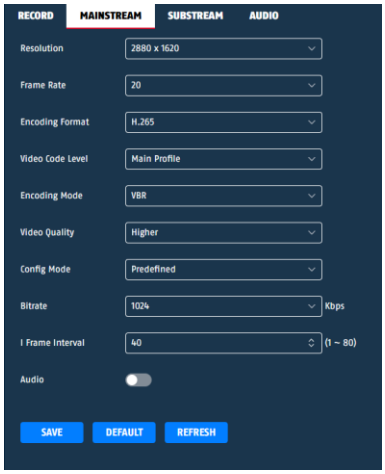
Recording



- **Stream mode:** Specifies which video stream is used for recording. The MainStream offers the highest image quality and is recommended for recordings.
- **Recording:** Enables or disables video recording of the selected stream. When this function is enabled, video data is saved in accordance with the other recording settings.
- **Pre-recording:** Records footage a few seconds before a detected event. This ensures that important moments are not only recorded from the moment motion is detected.

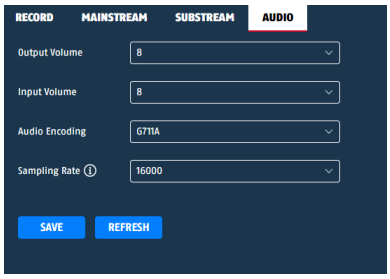
Enable pre-recording to better understand the entire sequence of events in the event of an alarm. This makes it easier to review the recordings later.

MainStream / SubStream



- Resolution: Determines image sharpness. Higher values provide more detail but require more storage space and bandwidth.
- Frame rate (FPS): Specifies how many frames are displayed per second. Higher values ensure smoother motion.
- Encoding format (H.265): Compresses videos efficiently and saves storage space whilst maintaining the same image quality.
- Video quality: Controls the image quality. Higher quality produces a better picture but increases storage requirements.
- Bitrate: Affects the amount of data in the video. A higher bitrate improves image quality but requires more storage space and network bandwidth.
- I-frame interval: A technical setting for video compression. The default setting is optimal for most applications.
- Audio: Enables or disables audio recording.

Audio settings



- **Output volume:** Determines how loud the audio signals are played back. Increase the value if the playback is too quiet.
- **Input volume:** Determines the sensitivity of the microphone. A higher value can pick up quiet sounds better, but also increases the amount of background noise picked up.
- **Audio encoding:** Defines the format in which audio data is stored and transmitted. The default setting offers a good balance between sound quality and storage requirements.
- **Sampling rate:** Determines the precision with which sound is recorded. Higher values can improve sound quality but require more storage space.

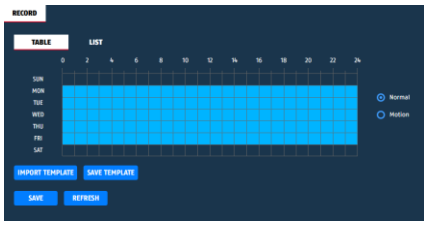
The default settings are ideal for most applications. Only adjust the volume if speech or ambient noise is recorded too quietly or too loudly

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7.4.2. Storage

7.4.2.1. Schedule

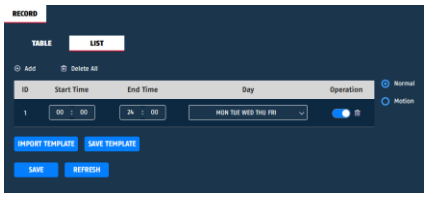
Table



- **Recording schedule:** Set when the camera should record. Select the desired time periods directly on the weekly schedule by clicking or dragging with the mouse.
- **Normal:** The camera records continuously during the selected time periods.
- **Motion:** The camera only records when motion or another event is detected.
- **Templates:** Recording schedules can be saved as templates and imported again later. Imported templates can be customised before use. Templates that are no longer required can be deleted using the bin icon.

24/7 and 24/5 templates are already available

List



- **Recording schedule (list view):** Set recording times clearly in list form. For each entry, you can define the start time, end time, days of the week and the type of recording.
- **Add:** Creates a new schedule entry.
- **Delete all:** Removes all existing schedule entries at once.
- **Enable/Disable:** The toggle switch in each row allows individual schedule entries to be quickly enabled or disabled without having to delete them.
- **Normal:** The camera records continuously throughout the specified time period.
- **Motion:** The camera only records when motion or another event is detected.
- **Templates:** Recording schedules can be saved as templates, imported again later and adjusted as required. Templates that are no longer needed can be deleted via the import menu using the bin icon.

24/7 and 24/5. Templates are already available

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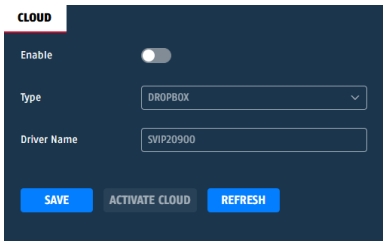
7.4.2.2. Storage



- **Storage:** Here you can view the status of the SD card in use, the available storage space and the estimated recording duration.
- **Overwrite:** Determines how the camera reacts when the memory is full:
- **Off:** Recording stops as soon as the SD card is full.
- **Auto:** The oldest recordings are automatically deleted to make room for new recordings (rolling storage).
- **3 days / 7 days / 30 days:** The camera stores recordings for the selected period and automatically deletes older recordings.
- **Format storage:** Deletes all data on the SD card and reformats the storage.
- **Refresh:** Refreshes the storage status display

Use Auto mode so that the camera can continue recording at all times and the most recent recordings are always available.

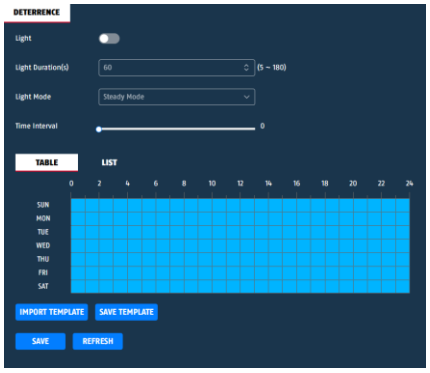
7.4.2.3. Cloud



- **Enable:** Here you can optionally set up storage of individual images via a private cloud file storage service such as Dropbox. This can be enabled if desired but is not essential for operation.
- **Cloud Enable:** To activate this function, you must log in to the cloud service via your browser. The storage folder for the image data will then be created.
  It is not possible to overwrite or automatically delete the image data.

7.4.3. Alarm

7.4.3.1. Deterrence / Flashing light



- **Activate white LED:** Activates the white light in response to a detected event.
- **Light duration:** Specifies how long the white light remains on after being triggered.
- **Light mode:** Choose between a steady light or a flashing light.
- **Time interval:** Sets a pause duration. During this pause, the camera will not activate the flashing light, even if a new event has already been triggered.
- **Schedule:** The white light can be linked to a schedule and will then only be active during the specified time periods.

The creation and management of schedules are described in Section 6.4.2.1 Schedule.

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7.4.3.2. Siren



- **Siren:** Activates an audible warning in response to a detected event.
- **Siren type:** Choose between the preset alarm tones **Alarm 1**, **Alarm 2** and **Alarm 3;** alternatively, you can import your own audio files as custom siren tones.
- **Custom siren:** Assign a name to the siren tone, select the desired audio file using the button with the three dots, and import it into the camera. (Supported audio formats: *.WAV, *.PCM, maximum size 256 kB, sampling rate 8000 / 16000 Hz).
- **Siren volume:** Sets the volume of the siren.
- **Siren duration:** Determines how long the siren remains active after it is triggered.
- **Time interval:** Determines the time delay between the detected event and the siren being activated.
- **Schedule:** The siren can be linked to a schedule and is then only active during the specified time periods. The creation and management of schedules are described in Section **6.4.2.1 Schedule**.

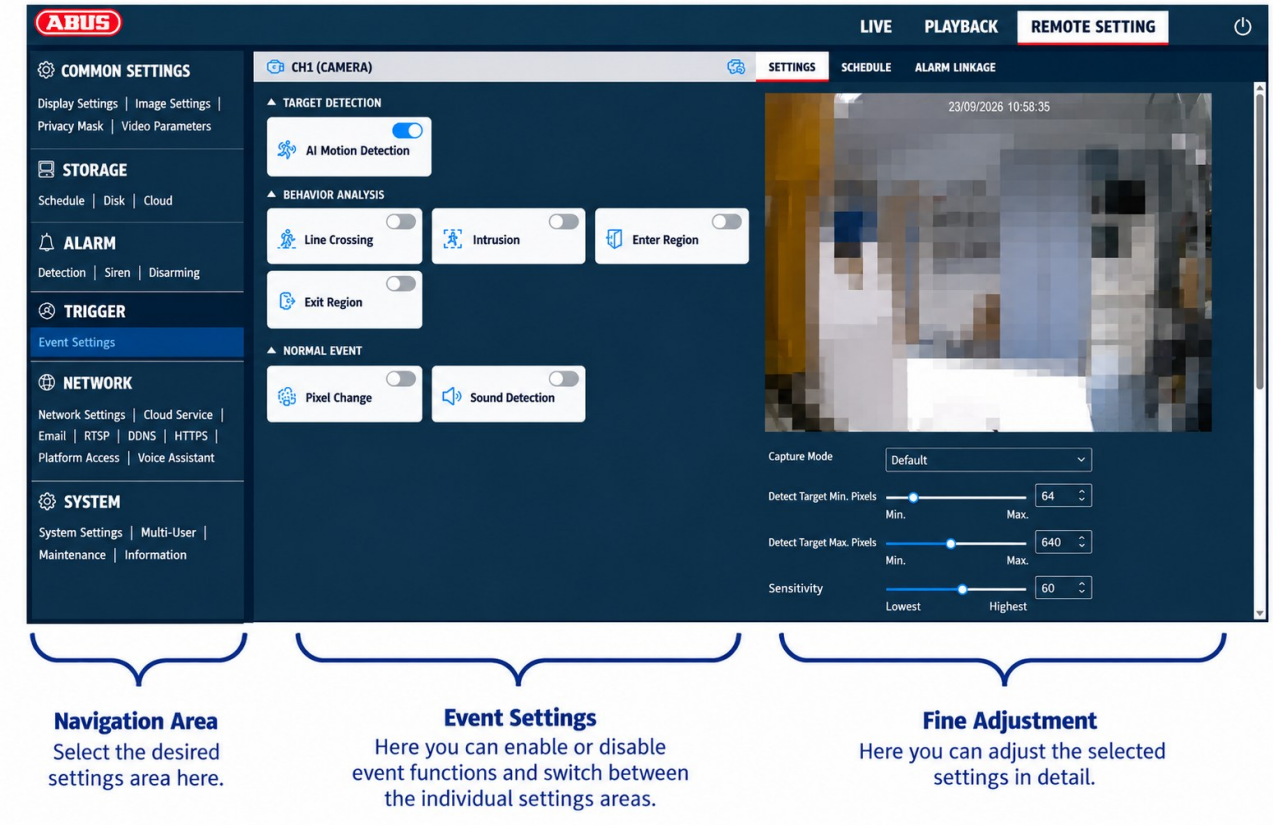
7.4.3.3. Deactivation



- **Deactivation:** Here you specify which functions are to be disabled via the **'Deactivate'** scene selection in the app.
- **Actions:** Select the functions that should no longer be executed when deactivation is active.
- **How it works:** When the **'Deactivate'** scene is selected in the app, the functions ticked here are deactivated. For example, if **'Push notifications'** is selected, the camera will no longer send push notifications.
- **Schedule:** Deactivation can be linked to a schedule and is then only active during the specified time periods. The creation and management of schedules is described in section **6.4.2.1 Schedule**.

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7.4.4. Event

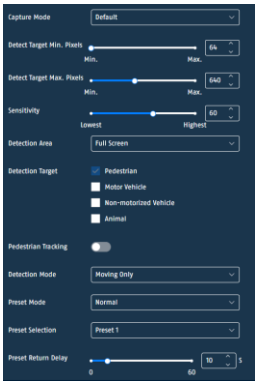


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7.4.4.1. Event settings

AI Motion Detection





This function enables intelligent object detection and is particularly suitable for specifically monitoring people, pets or other relevant objects.

- **Recording mode:** Determines how the camera detects objects. The **default setting** offers balanced detection for most applications. **Real-time mode** reacts particularly quickly to detected objects. In **interval mode,** detection takes place at specified time intervals.
- **Min. pixels:** Determines the minimum object size that is taken into account for detection.
- **Max. pixels:** Sets the maximum object size to be detected.
- **Sensitivity:** Determines how sensitively the camera reacts to movements and objects.

Higher values increase the detection rate, but also the likelihood of false alarms.

- **Detection area:** Specifies whether the entire camera image (**Full screen**) or only a user-defined area (**Custom**) is monitored.
- **Detection type:** Select which objects are to be detected

A non-motorised vehicle would be, for example, a bicycle. Animals are limited to the detection of pets.

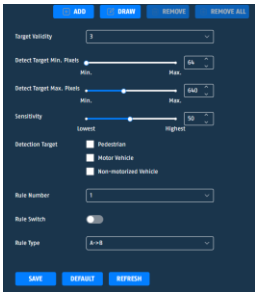
- **Person tracking:** Automatically tracks detected people using the camera's pan/tilt head to ensure they remain in the frame as much as possible. If the person walks too close to the camera or moves out of the frame too quickly, tracking may be lost and stop.
- **Detection mode:** Specifies the type of events the camera should respond to (always or only when moving objects are detected).
- **Preset mode:** Determines the camera's behaviour following a tracking session or an event.
- **Preset selection:** Selects the position to which the camera should return after a tracking session.
- **Delay before returning to preset:** Specifies how long the camera waits after an event before returning to the selected preset position.
- **Links:** Each event detection can be extended with a schedule or additional links, e.g. email notifications, push notifications, strobe light, siren or recordings.

The available actions and how to set them up are described in detail in the relevant sections of this user manual.

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Line crossing





Monitor specific areas that must not be entered or crossed. The event is triggered when selected objects cross a line.

- **Managing lines:** Using **'Draw', a maximum of 4** individual lines can be created in the live view. Selecting **'Add'** inserts a predefined vertical line. The length, orientation and position of all lines can be adjusted at a later stage, and they can be deleted individually or all at once.
- **Object Match:** Determines how certain the camera must be when recognising objects. Higher values reduce false alarms but may lower the detection rate.

ⓘ **1 = very tolerant 4 = the camera must be almost 100% certain.**

- **Min. pixels / Max. pixels:** Determines the minimum and maximum object sizes that are taken into account for detection.
- **Sensitivity:** Determines how sensitively the camera reacts to objects and movements.
- **Detection type:** Select which objects are to be detected, for example, **a person, a vehicle or a bicycle**
- **Rule No.:** Selects the line to be processed.

ⓘ **Alternatively, the desired line can be selected directly in the live view using the small red box next to the number.**

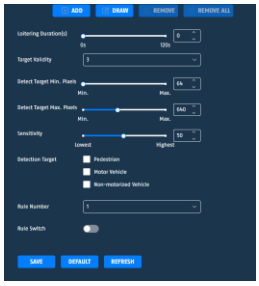
- **Activate rule:** Activates the rule
- **Rule type:** Determines the direction in which the line must be crossed for an event to be triggered. Directions A and B are displayed directly on the line in the live view. You can choose between A→B, B→A or A↔B.
- **Triggers:** Each event detection can be expanded to include a schedule or additional triggers, e.g. email notifications, push notifications, a flashing light, a siren or recordings.

ⓘ **The available actions and how to set them up are described in detail in the relevant sections of this user manual.**

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Intrusion





Define monitoring zones within the camera image. As soon as objects remain within the zone for a specified period, the event is triggered.

- **Manage area:** Using **'Draw'**, you can create **up to 4** individual areas in the live view. Click **'Add'** to insert a predefined area. All areas can be adjusted later and deleted individually or together
- **Dwell time:** Specifies how long an object must remain within the monitoring area before an event is triggered.

This option is not available for 'Enter/Leave Region'

- **Object Match:** Determines how certain the camera must be when detecting an object. Higher values reduce false alarms but may lower the detection rate.

1 = very tolerant. 4 = the camera must be almost 100% certain.

- **Min. pixels / Max. pixels:** Determines the minimum and maximum object sizes that are taken into account for detection.
- **Sensitivity:** Determines how sensitively the camera reacts to detected objects.
- **Detection type:** Select which objects are to be detected, for example, **people**, **vehicles**, **non-motorised vehicles** or **pets**.
- **Rule No.:** Selects the surveillance area to be monitored. Alternatively, the desired area can be selected directly in the live view.
- **Activate rule:** Activates the rule
- **Links:** Intruder detection can be linked to a schedule and various actions such as email, push notifications, recording, a siren or a strobe light. The available links are described in the relevant sections of this user manual.
- **Triggers:** Each event detection can be extended with a schedule or additional triggers, e.g. email notifications, push notifications, strobe light, siren or recordings.

The available actions and how to set them up are described in detail in the relevant sections of this user manual.

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Entering a region





Define a monitoring area within the camera image. The event is triggered **immediately** as soon as a selected object enters this area.

- **Manage area:** Using **'Draw'**, you can create **up to 4** individual areas in the live view. Click **'Add'** to insert a predefined area. All areas can be adjusted later and deleted individually or together.
- **Object Match:** Determines how certain the camera must be when recognising an object. Higher values reduce false alarms but may lower the detection rate.

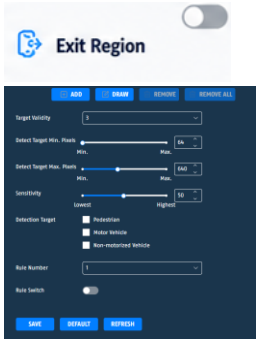
1 = very tolerant. 4 = the camera must be almost 100% certain.

- **Min. pixels:** Determines the minimum object size that will be taken into account for detection.
- **Max. pixels:** Sets the maximum object size to be detected.
- **Sensitivity:** Determines how sensitively the camera reacts to detected objects. Higher values increase the detection rate, but may also lead to more false alarms.
- **Detection type:** Select which objects are to be detected. Non-motorised vehicles include, for example, bicycles.
- **Rule No.:** Selects the surveillance area to be monitored. Alternatively, the desired area can be selected directly in the live view.
- **Activate rule:** Activates the rule
- **Links:** Each event detection can be extended with a schedule or additional links, e.g. email notifications, push notifications, strobe lights, sirens or recordings.

The available triggers and how to set them up are described in detail in the relevant sections of this user manual.

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Leaving the region



Define a monitoring area within the camera image. The event is triggered **immediately** as soon as a selected object leaves the defined area.

- **Manage area:** Using **'Draw'**, you can create **up to 4** individual areas in the live view. Click **'Add'** to insert a predefined area. All areas can be adjusted later and deleted individually or together.
- **Object Match:** Determines how certain the camera must be when recognising an object. Higher values reduce false alarms but may lower the detection rate.

ⓘ **1 = very tolerant. 4 = The camera must be almost 100% certain.**

- **Min. pixels:** Determines the minimum object size that is taken into account for detection.
- **Max. pixels:** Sets the maximum object size to be detected.
- **Sensitivity:** Determines how sensitively the camera reacts to detected objects. Higher values increase the detection rate but may also lead to more false alarms.
- **Detection type:** Select which objects are to be detected. Non-motorised vehicles include, for example, bicycles.
- **Rule No.:** Selects the surveillance area to be monitored. Alternatively, the desired area can be selected directly in the live view.
- **Activate rule:** Activates the rule
- **Triggers:** Each event detection can be expanded with a schedule or additional triggers, e.g. email notifications, push notifications, strobe lights, sirens or recordings.

ⓘ **The available triggers and how to set them up are described in detail in the relevant sections of this user manual.**

Pixel change



This function reacts to changes in the image and **detects movement based on pixel changes**. Unlike AI motion detection, it does not distinguish between people, vehicles or other objects.

- **Detection area:** The red boxes mark the areas in which movement is detected. Individual areas can be selected or deselected with a single click.
- **Sensitivity:** Determines how sensitively the camera reacts to changes in the image.

ⓘ **Higher values increase the detection rate but may also lead to more false alarms, for example due to changes in light, shadows or moving plants.**

- **Actions:** Each event detection can be expanded with a schedule or additional actions, e.g. email notifications, push notifications, a strobe light, a siren or recordings.

ⓘ **The available actions and how to set them up are described in detail in the relevant sections of this user manual.**

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<table>
<tr>
<td>Sound detection
</td>
<td>Noise detection monitors ambient noise via the built-in microphone. If a specified threshold is exceeded, the camera can trigger an event.

▪ Rise sensitivity: Determines how much the volume must change within a short period of time for a sound to be detected.

ⓘ Higher values are more sensitive to sudden increases in noise, such as clattering, shouting or a door slamming.

▪ Volume: Determines how loud a sound must be in order to be detected.

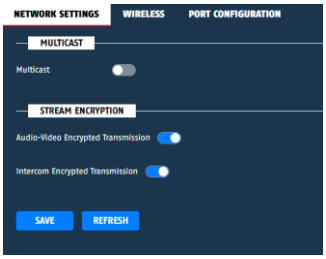
ⓘ The lower the value is set, the quieter sounds can be to trigger an event.

▪ Actions: Each event detection can be expanded with a schedule or additional actions, e.g. email notifications, push notifications, a flashing light, a siren or recordings.

ⓘ The available actions and how to set them up are described in detail in the relevant sections of this user manual.</td>
</tr>
</table>

7.4.5. Network

7.4.5.1. Network settings

<table>
<tr>
<td>Network settings
</td>
<td>▪ Multicast: Enables the simultaneous transmission of the video feed to multiple devices on the same network. For most home applications, this function is not required and can remain disabled.

▪ Encrypted audio/video transmission: Protects the transmission of video and audio data from unauthorised access. Enable this function to ensure secure communication between the camera and the app.

▪ Encrypted two-way communication: Protects voice transmission during two-way communication via the camera. Enable this feature to ensure secure transmission of conversations.</td>
</tr>
</table>

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Wi-Fi



Here you can change existing Wi-Fi settings.

- **Type:** Determines how the camera obtains its network settings. The
- **DHCP:** is recommended for most applications and automatically assigns a suitable network address to the camera.
- **SSID:** Displays the name of the connected Wi-Fi network.
- **Password:** Enter the Wi-Fi network password here.
- **IP address:** Displays the camera's current network address on the home network.
- **Subnet mask:** Network parameters for communication within the home network. Generally, no adjustment is required.
- **Gateway:** Displays the network address of the router via which the camera is connected to the network.
- **Connection status:** Indicates whether the camera is successfully connected to the Wi-Fi network.
- **Signal strength:** Displays the quality of the Wi-Fi connection. Higher values ensure a more stable connection and more reliable image transmission.
- **Search for Wi-Fi:** Searches for available Wi-Fi networks in the vicinity.
- **Connect to Wi-Fi:** This function attempts to apply the Wi-Fi details entered. If this fails, the camera will revert to the previously saved Wi-Fi network.

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<table>
<tr>
<td>Port Configuration
</td>
<td>This is where the camera's network services are managed. Most settings are already optimally pre-configured and do not need to be changed during normal operation.

▪ HTTP Port: Sets the network port for accessing the camera via a web browser.

▪ HTTPS Port: Sets the network port for encrypted and secure access to the camera.

▪ RTSP Port: Sets the network port for transmitting the video stream to compatible software or network video recorders (NVRs).

▪ Internal port: Specifies the network port used by the camera.

▪ External Port: Specifies the port via which the camera can be accessed from outside the local network.

▪ Protocol: Displays the network protocol used for the respective connection.

▪ UPnP Status: Indicates whether the automatic port forwarding for the relevant port has been successfully configured in the router.

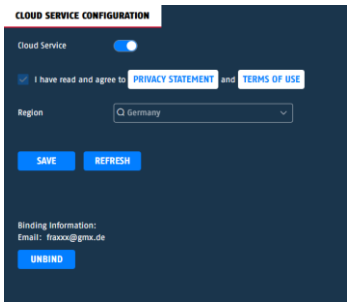
▪ Mode: Specifies whether port forwarding is managed automatically or manually.

▪ UPnP: Enables or disables the automatic configuration of port forwarding in the router.

▪ Multicast Port: Defines the network port for multicast transmissions. This function is mainly used in professional network environments.

▪ P2P interface: Enables easy remote access to the camera via the app without the need to set up manual port forwarding on the router.</td>
</tr>
</table>

7.4.5.2. Cloud Service

<table>
<tr>
<td>
</td>
<td>▪ Cloud Service: Enables or disables the camera's cloud connection. The cloud allows the camera to be linked to your user account and accessed via the app.

▪ Privacy Policy: Opens the privacy policy.

▪ Terms of Use: Opens the Terms of Use.

▪ Region: Specifies the server region in which your camera is managed. Select the region that corresponds to your location.

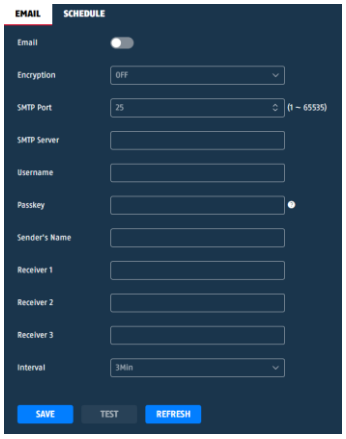
▪ Connection Information: Displays the email address of the user account to which the camera is currently linked.

▪ Unlink: Disconnects the camera from the currently linked user account.

ⓘ No video recordings are stored in the ABUS Cloud. The cloud service is used exclusively for managing the user account and for the connection between the app and the camera.</td>
</tr>
</table>

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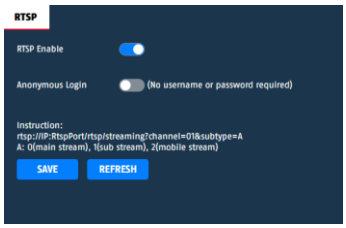
7.4.5.3. Email



The 'Email' section enables email notifications to be sent when events are detected.

- **Encryption:** Specifies whether the connection to the email server should be encrypted. An encrypted connection is recommended for most email providers.
- **SMTP port:** Specifies the network port for sending emails. The required port number depends on the email provider used.
- **SMTP server:** Enter your email provider's SMTP server here.
- **Username:** Username or email address of the sender's account.
- **Passkey:** The password or app password for the email account being used.
- **Sender's name:** Specifies the name that will be displayed to the recipient as the sender.
- **Recipients 1–3:** Up to three email addresses can be entered here to receive notifications.
- **Interval:** Specifies how frequently email notifications may be sent. This prevents too many emails from being sent if several events occur within a short period of time.
- **Test:** Sends a test email to check the configuration.
- **Schedule:** Email sending can be linked to a schedule and is then only active during the specified time periods. The creation and management of schedules is described in Section **6.4.2.1 Schedule**.

7.4.5.4. RTSP



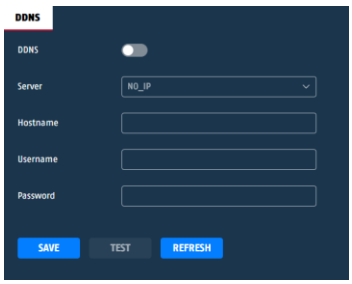
RTSP allows the video stream to be used in compatible programmes, smart home systems or network video recorders (NVRs).

- **Anonymous login:** Enables access to the RTSP stream without a username and password. For security reasons, this function should only be used if access to the network is adequately protected.
- **Instruction:** Displays the RTSP address that can be used to integrate the video stream into external software or devices.

RTSP is not required to use the camera via the EYSEO app. This function is mainly used for integration with third-party software, smart home solutions or network video recorders.

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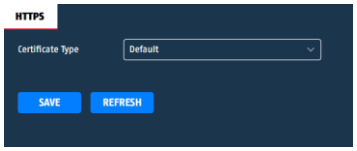
7.4.5.5. DDNS



Dynamic DNS (DDNS) allows the camera to be accessed via a fixed internet name even if the public IP address of your internet connection changes regularly. This function is mainly used for direct remote access without an app.

- **Enable DDNS:** Enables or disables the connection to a DDNS service.
- **Server:** Select the DDNS provider you are using, for example **NO-IP**.
- **Domain:** Enter the DDNS domain via which the camera is to be accessible.
- **Username:** Username for the DDNS account.
- **Password: The** password for the DDNS account.
- **Test:** Checks the connection to the specified DDNS service.

7.4.5.6. HTTPS

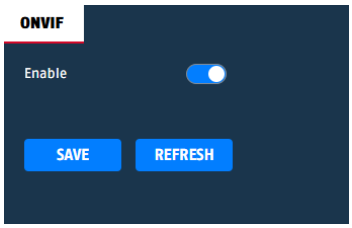


HTTPS specifies which security certificate is used for the encrypted connection to the camera.

- **Certificate type:** Determines the type of HTTPS certificate. The **'Standard'** setting is sufficient for most applications and enables secure communication between the camera and the network.

This setting is mainly relevant when accessing the camera via a web browser or external software. No adjustment is usually required when using the EYSEO app.

7.4.5.7. Interfaces

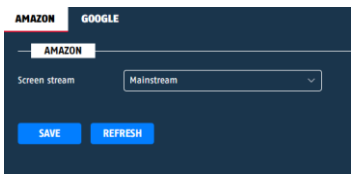


ONVIF is a cross-vendor standard that allows the camera to be integrated into compatible video surveillance software, network video recorders (NVRs) or smart home systems.

- **Enable:** Switches the ONVIF interface on or off.

ONVIF is not required when using the camera via the EYSEO app. This function is mainly used when the camera is to be integrated into third-party systems.

7.4.5.8. Voice assistant



Here you can specify which video stream should be used for display on supported smart home devices and voice assistants.

- **Screen stream:** Select which video stream should be transmitted to compatible devices. The **'MainStream'** offers the highest image quality but requires more bandwidth. The **'SubStream'** reduces the data volume and is suitable for slower network connections.

This setting is used when the camera is connected to supported services such as Google Home or Amazon Alexa.

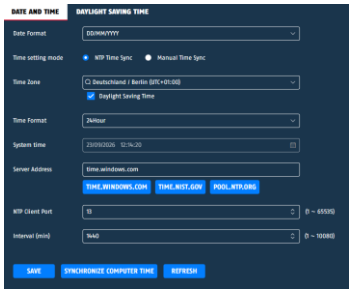
Use the MainStream to achieve the best possible image quality on smart displays and compatible devices. On slow network connections, the SubStream can ensure a more stable transmission.

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7.4.6. System

7.4.6.1. System settings

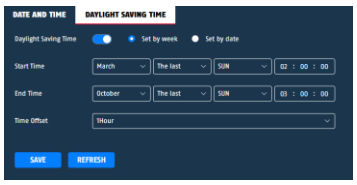
Date and Time



- **Date and Time:** Here you can specify how the date and time are displayed and synchronised on the camera.
- **Date format:** Determines how the date is displayed, for example, day/month/year.
- **Time setting mode:** Choose whether the time should be set automatically via a time server (**NTP time synchronisation**) or manually. Automatic synchronisation is recommended.
- **Time zone:** Sets the local time zone. This ensures that recordings and events are saved with the correct time.
- **Time format:** Choose between 24-hour and 12-hour display.
- **System time:** Displays the camera's currently set time.
- **Server address:** Specifies which time server is used for automatic time synchronisation. Common time servers can be selected directly using the buttons.
- **NTP client port:** Network port Daylight saving time: Enables automatic switching between summer and winter time.
- **Changeover method:** Specifies whether the changeover should take place after a fixed week in the month or on a specific date.
- **Start time:** Defines when summer time begins.
- **End time:** Defines when daylight saving time ends and the clock reverts to standard time.
- **Time offset:** Specifies by how many hours the clock is set forward at the start of summer time. In Europe, the time offset is usually 1 hour for communication with the time server. This value does not normally need to be changed.
- **Interval:** Specifies how often the camera synchronises its time with the time server.
- **Synchronise with computer time:** Uses the current time of the computer being used.

Use NTP time synchronisation to ensure that the camera's time is automatically kept accurate. This ensures correct timestamps for recordings, events and notifications.

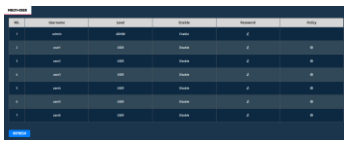
Daylight saving time



- **Daylight saving time:** Enables automatic switching between summer and winter time.
- **Switchover method:** Specifies whether the switchover should take place after a fixed week in the month or on a specific date.
- **Start time:** Defines when summer time begins.
- **End time:** Defines when summer time ends and the clock is set back to winter time.
- **Time shift:** Specifies by how many hours the clock is set forward at the start of summer time. In Europe, the time shift is usually **1 hour**.

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7.4.6.2. Users



- **User management:** Here you can manage the camera's user accounts and adjust access rights and passwords.
- **Username:** Displays the camera's configured user accounts.
- **Level:** Specifies the user's authorisation level. Administrators have full access to all the camera's functions.
- **Status:** Enables or disables access for the respective user.
- **Password:** The pencil icon can be used to change the relevant user's password.
- **Permissions management:** The gear icon can be used to adjust the permissions for the respective user. This allows you to specify which functions and settings the user is permitted to access.

The administrator always has unrestricted access to the camera. User accounts can be individually enabled, disabled or assigned different permissions. Only grant the permissions that are actually required, and use secure passwords to prevent unauthorised access to the camera.

7.4.6.3. Maintenance

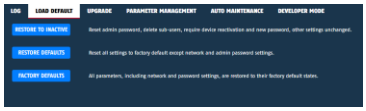
LOG file



- **Log file:** In this section, you can view system events and camera activities. The logs assist with troubleshooting and display important camera operations.
- **Log Type:** Specifies which type of logs should be displayed. You can choose to display all logs or filter by specific event categories.
- **Time:** Specifies the time period for which logs are to be displayed.
- **Search:** Displays all logs that match the selected filter and time settings.

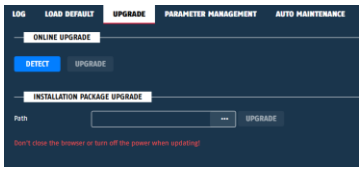
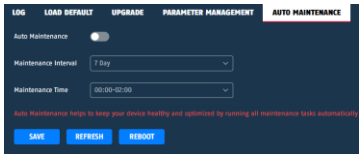
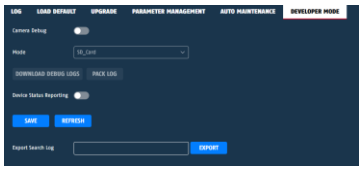
The log file is primarily used for fault analysis and is particularly helpful when investigating connection problems, error messages or unexpected behaviour of the camera.

Reset



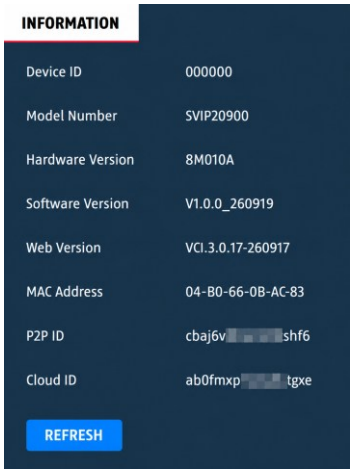
- **Reset:** In this section, various camera settings can be reset to their default values.
- **Set to inactive:** Resets the administrator password and removes any user accounts that have been created. All other camera settings are retained.
- **Load default settings:** Resets all camera settings to their factory defaults. Network and administrator password settings are retained.
- **Load factory settings:** Resets the camera completely to its out-of-the-box state. All settings, including network and password settings, are deleted.

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Firmware update 	Keep the camera up to date with the latest firmware. Firmware updates can provide new features, improve stability and fix security vulnerabilities. ▪ **Online Upgrade:** The camera automatically checks for available firmware versions. ▪ **Check:** Checks whether new firmware is available for the camera. ▪ **Update now:** Starts the installation of any firmware update. ▪ **Update via firmware file:** Allows you to manually install a firmware file that has been downloaded previously. ▪ **File path:** Use the ... button to select the required firmware file on your computer. ▪ **Firmware update:** Starts the update using the selected firmware file.
Import and Export 	Here, you can back up camera settings or transfer them to another camera. ▪ **Export settings:** Saves the current camera settings to a file on your computer. This file can be used later for backup purposes or to set up additional cameras. ▪ **Import settings:** Applies previously saved settings from a configuration file and configures the camera accordingly.
Automatic maintenance 	Automatic maintenance helps to ensure the camera operates stably and reliably over the long term. The camera is automatically restarted at set intervals. ▪ **Automatic maintenance:** Enables or disables automatic maintenance. ▪ **Maintenance interval:** Specifies how often the camera is automatically restarted, for example every 7 days. ▪ **Maintenance time:** Specifies the time period during which automatic maintenance should be carried out. ▪ **Restart:** Manually restarts the camera immediately.
Developer Mode 	This section provides diagnostic and analysis functions, which are mainly used for troubleshooting and technical support. ▪ **IPC Debug:** Enables extended logging of system and diagnostic information. ▪ **Mode:** Specifies where the diagnostic logs are saved, for example on the SD card. ▪ **Download debug logs:** Downloads the recorded diagnostic logs so that they can be analysed or made available to technical support. ▪ **Package log:** Creates a package containing relevant diagnostic information for fault analysis. ▪ **Device status report:** Enables the collection of additional information on the camera's operating status. ▪ **Export search log:** Exports the recorded system and event logs to a file.

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7.4.6.4. Info



This section displays important information about the camera and the installed software.

- **Device ID:** Unique identifier for the camera within the system.
- **Device name:** Displays the name currently assigned to the camera.
- **Device type:** Specifies the camera model.
- **Hardware version:** Displays the camera's hardware version.
- **Software version:** Displays the currently installed firmware version.
- **IE version:** Specifies the version of the web interface.
- **MAC address:** The camera's unique network address. This can be used, for example, for identification within the home network.
- **P2P ID:** Unique identifier for the camera's connection to the app and for remote access.
- **Cloud ID:** The camera's unique identifier within the cloud service.
- **Refresh:** Refreshes the displayed information.

8. Disposal



Dispose of the device in accordance with the EU Directive 2012/19/EU on waste electrical and electronic equipment (WEEE). If you have any queries, please contact your local authority responsible for waste disposal. Information on collection points for your end-of-life equipment is available, for example, from your local council or town hall, local waste management companies or your retailer.

9. Open Source Licence Information

The product contains software components that are licensed by the rights holders as free software or open source software (hereinafter referred to as 'OSS'). The relevant licences are included in printed form with the product and/or can be accessed via a graphical user interface. You may acquire rights of use directly from the rights holders to the extent specified therein.

The open-source licences take precedence over all other licence terms and contractual agreements with ABUS in relation to the relevant OSS software components contained in the product.

In general, licence information for ABUS products can be found at www.abus.com in the download section of the product description.

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10. FAQ

General

Q: What is the EYSEO 360° indoor camera?
A: The EYSEO 360° indoor camera is a Wi-Fi-enabled indoor camera designed for monitoring and observing areas inside enclosed buildings. It is controlled via the EYSEO app or the web interface.

Q: What applications is the camera suitable for?
A: The camera is designed exclusively for dry indoor environments and is not suitable for outdoor use.

Q: Does the camera support audio transmission?
A: Yes. The camera has a built-in microphone and a speaker for two-way audio.

Installation and commissioning

Q: What are the requirements for commissioning?
A: You'll need a 2.4 or 5 GHz Wi-Fi network with WPA2 encryption, a smartphone running Android version 11 or later or iOS version 22 or later, and the EYSEO app. An internet connection is also required.

Q: How do I set up the camera?
A: Set-up is carried out via the EYSEO app. There are two options available:
Scan a QR code, or manually add the camera to the local network

Q: When should I use manual setup?
A: Manual setup is suitable if no QR code is available.

Q: Does location sharing need to be enabled on the smartphone?
A: Yes. Location services on the smartphone must be enabled for the camera to integrate with the network. However, no geographical data is processed; this simply involves searching for nearby devices.

Q: How long does it take to connect to the Wi-Fi?
A: The connection between the camera and the Wi-Fi should be established within approximately 120 seconds. Under optimal conditions, however, this happens much faster.

Q: Is the camera compatible with the App2Cam Plus, ABUS One, or Smartvest Pro app?
A: No, the camera is not compatible with the App2Cam Plus, ABUS One, or Smartvest Pro app.

Features

Q: What resolution does the camera offer?
A: The maximum resolution is 3K at 2880 × 1620 pixels.

Q: Can the camera track people?
A: Yes. The camera supports automatic person tracking, ensuring that detected people remain in the frame as far as possible.

Q: Does the camera support pet or vehicle tracking?
A: No.

Q: What types of objects can generally be detected?
A: Depending on the settings, people, vehicles, bicycles or pets can be detected. Please note: Not every trigger supports all object types.

Q: Can I receive push notifications?
A: Yes. When events are detected, the camera can send push notifications, including a preview image, to your smartphone.

Q: Does the camera support voice assistants?
A: Yes. The camera can be used with compatible Amazon Alexa and Google Assistant systems.

Storage and recordings

Q: Where are recordings stored?
A: Video recordings can be stored locally on a microSD card with a capacity of up to 1 TB.

Q: Does the camera offer storage in the ABUS Cloud?
A: No, no video or image data is stored in the ABUS Cloud.

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Q: Does the camera have the capability to store or transfer image data outside the ABUS Cloud?
A: Yes. The camera has an optional function for storing individual images via Dropbox. Furthermore, an email with an image attachment can be sent when an event occurs. Both of these functions are set up via the camera's browser interface.

Q: Should the microSD card be inserted before commissioning?
A: Yes. The microSD card should be inserted before installation and before connecting the power supply.

Q: What happens when the memory card is full?
A: You can choose whether the oldest recordings are automatically overwritten or whether recording stops. Alternatively, retention periods of 3, 7 or 30 days can be set.

Q: Can recordings be downloaded to a smartphone?
A: Yes. Recordings can be downloaded and saved.

Operation
Q: What does privacy mode do?
A: In privacy mode, video and audio transmission are disabled. At the same time, the lens retracts to a protected position within the housing.

Q: Can I hide specific areas of the image?
A: Yes. Using privacy masks, areas can be permanently blacked out and excluded from surveillance.

Q: Can I share the camera with other people?
A: Individual devices or entire groups of devices can be shared with other EYSEO app users.

Status LED
Q: What does a continuously red LED mean?
A: The camera is currently starting up.

Q: What does a flashing red LED mean?
A: The camera is waiting for a Wi-Fi connection. This status is typically displayed during the initial setup.

Q: What does a steady blue LED mean?
A: The camera is successfully connected to the Wi-Fi.

Q: What does a flashing blue LED mean?
A: The camera is currently being operated via the app.

Q: What does a flashing red and blue LED mean?
A: The network connection has been lost.

Q: What does a steady purple LED mean?
A: A firmware update is currently being carried out.

Troubleshooting
Q: How do I reset the camera to its factory settings?
A: Press the reset button on the underside of the device for about 5 seconds. The reset process will then start automatically.

Q: How do I find my camera's IP address?
A: You can find the IP address in the device information section of the EYSEO app. You can view it there and then use it in your browser.

Q: How do I update the firmware?
A: Open the device information or camera settings and check for available system updates.

11. Glossary

Abbreviation	Description
ABUS	ABUS Security Center GmbH & Co. KG; manufacturer or supplier of the product described.

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BLC	Backlight Compensation; a feature designed to improve the rendering of subjects in strong backlight conditions.
CBR	Constant Bitrate; an encoding mode with a constant data rate.
CE	A mark by which the manufacturer declares that the product complies with the applicable EU requirements.
CMOS	Complementary Metal-Oxide-Semiconductor; the image sensor's technology.
DC	Direct Current; direct current power supply.
DWDR	Digital Wide Dynamic Range; a function for improved image quality when there are significant differences in brightness.
EMC	Electromagnetic Compatibility; requirements regarding the emission and immunity of electrical equipment to interference.
EU	European Union.
FPS	Frames per Second; the number of frames per second.
G.711A	Audio coding method in accordance with G.711, frequently used in Europe.
G.711U	Audio coding method in accordance with G.711, commonly used in North America and Japan.
GHz	Gigahertz; a unit of frequency, e.g. for Wi-Fi frequency bands.
HD	High Definition; high-resolution image display.
HLC	Highlight Compensation; a function for reducing or compensating for very bright areas of an image.
HW	Hardware; the physical components of the device.
ID	Identifier; a unique identifier for a device, user or service.
IP	Internet Protocol; the basis for addressing and communication in networks.
IR	Infrared; a range of invisible light used to aid night vision.
iOS	Operating system for Apple's mobile devices.
LED	Light Emitting Diode; a light-emitting diode, e.g. used as a status indicator or for illumination.
LVD	Low Voltage Directive; EU Low Voltage Directive.
MAC	Media Access Control; unique hardware address of a network device.
NTSC	National Television System Committee; a video standard widely used in North America and Japan, amongst other places.
P2P	Peer-to-Peer; a connection principle in which devices communicate with one another directly or via an intermediary service.
PAL	Phase Alternating Line; a video standard widely used in Europe, amongst other places.
PIN	Personal Identification Number; a personal identification number used to secure access.
PT	Pan/Tilt; panning and tilting of the camera.
QR code	Quick Response Code; a two-dimensional code for the rapid capture of information.
RED	Radio Equipment Directive; EU directive on radio equipment.
RoHS	Restriction of Hazardous Substances; EU directive restricting the use of certain hazardous substances in electrical and electronic equipment.
SD	Secure Digital; memory card standard, e.g. microSD card.
S/N	Pan/Tilt; control of the camera's field of view.
SSID	Service Set Identifier; name of a Wi-Fi network.
USB	Universal Serial Bus; interface for data transfer or power supply.
VBR	Variable Bitrate; encoding mode with a variable data rate depending on the image content.

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VCA	Video Content Analysis; video-based analysis functions for detecting specific events or objects.
WLAN	Wireless Local Area Network; a wireless local network.

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