

# PPI52520 / PPIC54520



# **Operating instructions**

You can find important information and FAQs about this and other products online at

http://www.abus.com/

Version 1.0



#### Introduction

Dear customer,

Thank you for purchasing this product.

ABUS Security Center hereby declares that the camera PPIC52520(B), PPIC54520(B) complies with the RED Directive 2014/53/EU. These devices also comply with the requirements of the following EU directives: EMC Directive 2014/30/EU and the RoHS Directive 2011/65/EU. The full text of the EU Declaration of Conformity is available at the following internet addresses:

http://www.abus.com/product/PPIC52520 http://www.abus.com/product/PPIC52520B http://www.abus.com/product/PPIC54520 http://www.abus.com/product/PPIC54520B

In order to maintain this condition and to ensure safe operation, you as the user must observe these operating instructions!

Please read the complete operating instructions carefully before putting the product into operation, and pay attention to all operating instructions and safety information!

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If you have any questions, please contact your local specialist dealer or visit our website at <a href="https://www.abus.com/">https://www.abus.com/</a>



Data storage is subject to national data privacy guidelines.

The use of surveillance equipment may be forbidden or regulated by law in some countries. Before using this equipment, ensure that all of your surveillance activities are completely legal.

#### Note on data protection

The operator is responsible for the legally compliant use of the product in accordance with GDPR.



### Warning as required by Section 201 StGB (German Criminal Code):

Whoever, without being authorised to do so, makes an audio recording of the privately spoken words of another, and uses or makes a recording thus produced available to a third party, shall incur a penalty of imprisonment or a fine!

The same penalty shall be incurred by whoever, without being authorised to do so, uses a listening device to intercept the privately spoken words of another which they are not intended to hear, or publicly communicates, verbatim or the essential content of, the privately spoken words of another which were recorded or intercepted.



#### **Disclaimer**

These operating instructions have been produced with the greatest of care. However, if you notice any omissions or inaccuracies, please let us know in writing at the above address.

ABUS Security Center GmbH accepts no liability for technical and typographical errors and reserves the right to make changes to the product and operating instructions at any time without prior notice.

ABUS Security Center shall not be liable or responsible for any direct or indirect consequential damages arising in connection with the equipment, performance or use of this product. No guarantee is made for the contents of this document.

The purchaser acknowledges that it is not possible according to current technological standards to produce a software program that is completely error-free. ABUS Security Center therefore does not guarantee uninterrupted or fault-free operation of the products, nor does it guarantee that all faults will be rectified. ABUS Security Center expressly does not warrant that all ABUS Security Center products will function properly on all customer systems or in conjunction with integrations, solutions, applications and (or) programs, or that integrations, solutions, applications and (or) programs will function properly with later versions of ABUS Security Center products and systems.

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# 1. Scope of delivery

# 1.1. PPIC52520(B)

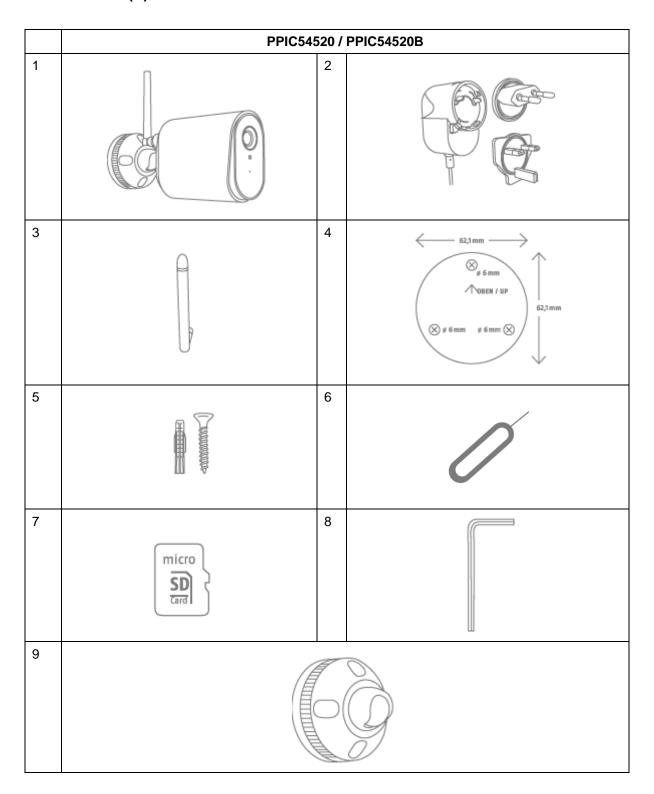
	PPIC525	520 /	PPIC52520B
1		2	
3		4	S8 mm  OBEN J UP  S 6 mm  S 6 mm
5		6	
7	micro SD Gard	8	
9			

# PPIC52520 / PPIC52520B

- SmartLook Pan & Tilt (1)
- Power supply unit, 5 V DC / 2 A (2)
- Antenna (3)
- Drill template (4)
- Mounting material (5)
- Reset tool (6)

- microSD card (pre-installed) (7)
- 2x Allen key (8)
- Wall bracket (pre-installed) (9)

# 1.2. PPIC54520(B)



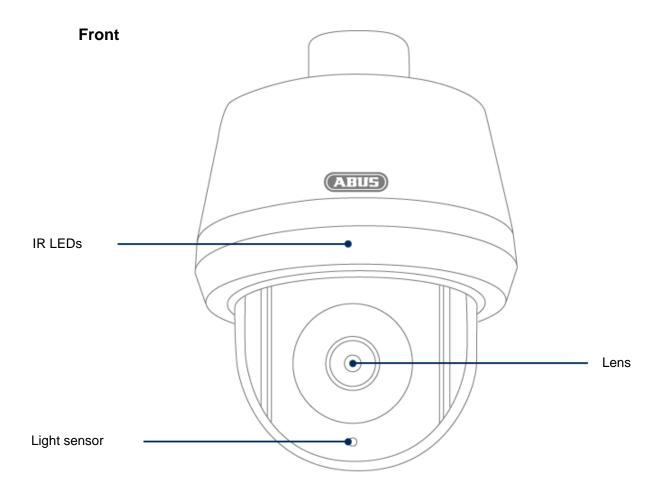
# PPIC54520 / PPIC54520B

- SmartLook (1)
- Power supply unit, 5 V DC / 2 A (2)
- Antenna (3)
- Drill template (4)
- Mounting material (5)

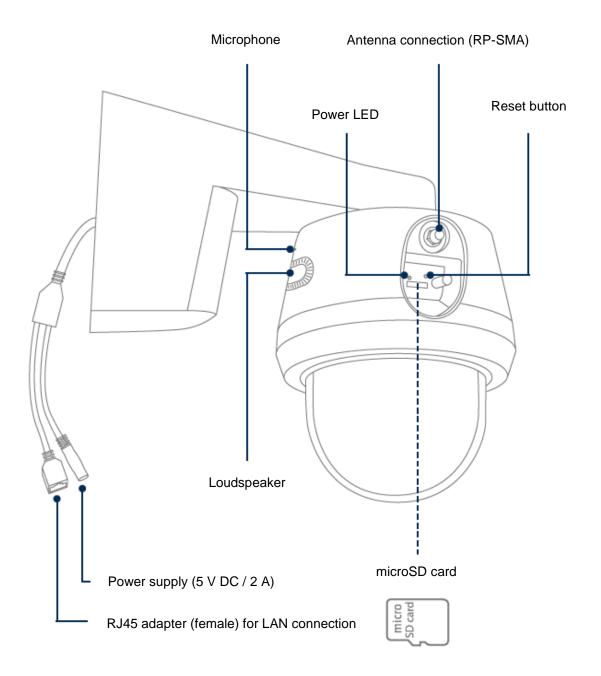
- Reset tool (6)
- microSD card (pre-installed) (7)
- Allen key (8)
- Wall bracket (pre-installed) (9)

# 2. Description of the hardware

# 2.1. Wi-Fi pan/tilt outdoor camera

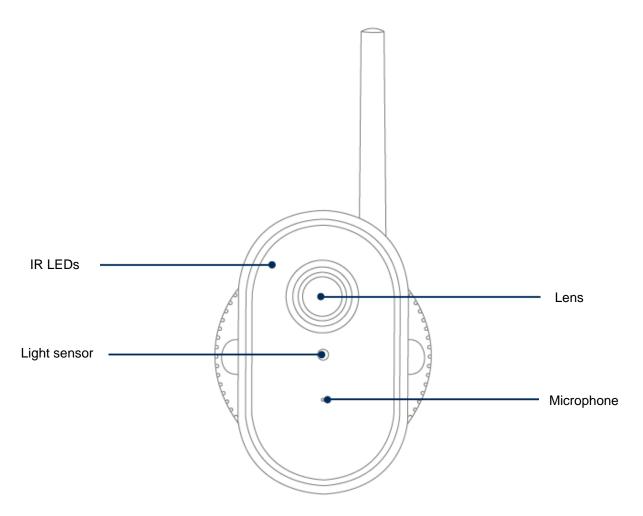


# Rear

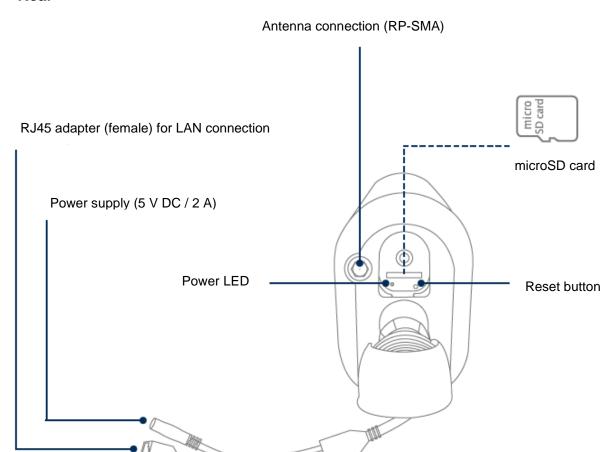


# 2.2. Wi-Fi outdoor camera

# Front



# Rear



# 3. Mounting/installation



#### **ATTENTION!**

The camera must be disconnected from the power supply during installation.

#### **Installation location**



The camera is suitable for outdoor use.

Do not place the camera in the direct vicinity of heaters, stoves, other heat sources or under direct sunlight. Operate the unit only in locations with temperatures within the permissible ambient temperature range -20°~50°C.

During the installation of the camera, you have the option of accessing the following installation instructions via the help in the app.

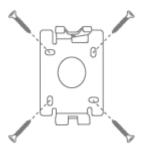
#### 3.1 Wi-Fi pan/tilt outdoor camera (flush-mounted)

During the installation of the camera, you have the option of accessing the following installation instructions via the help in the app.



#### Attention!

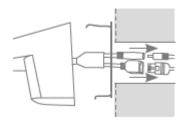
Place the camera under a canopy or similar to avoid exposure to direct sunlight. The camera should not be pointed directly towards a light source or the sun.



- Separate the wall plate of the bracket from the camera using the Allen key provided.
- Mark the position of the required 4 drill holes at the desired location using the drill template or the wall plate and a pencil, for example.
- Drill the holes and insert the screw anchors provided.
- Secure the bracket with the screws provided.



The wall plate has a parking position at the bottom edge.
 Place the camera in the parking position so that you can carry out wiring more easily.



- Connect the power cable and LAN cable (optional when using Wi-Fi) to the camera connections.
- Feed the cables into the wall. The connections can optionally also be stowed in the bracket.



- Place the camera and bracket completely on the wall plate and screw the elements to the underside of the bracket using the Allen key.
- With this installation, the cables run completely inside the bracket and are no longer visible.

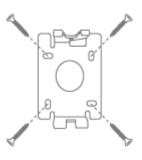
### 3.2 Wi-Fi pan/tilt outdoor camera (surface-mounted)

During the installation of the camera, you have the option of accessing the following installation instructions via the help in the app.



#### Attention!

Place the camera under a canopy or similar to avoid exposure to direct sunlight. The camera should not be pointed directly towards a light source or the sun.



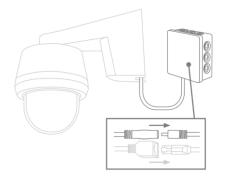
- Separate the wall plate of the bracket from the camera using the Allen key provided.
- Mark the position of the required 4 drill holes at the desired location using the drill template or the wall plate and a pencil, for example.
- Drill the holes and insert the screw anchors provided.
- Secure the bracket with the screws provided.



• Guide the camera's power cable through the bracket and downwards as shown in the illustration.



 Place the camera and bracket completely on the wall plate and screw the elements to the underside of the bracket using the Allen key.



- Use a commercially available weatherproof installation box (width and height min. 105 mm, depth min. 35 mm) for waterproof installation.
- Feed the camera's cable into the installation box and connect the wiring there. For further installation steps with an installation box, follow the installation instructions for this box.

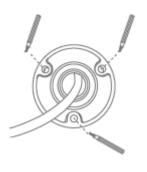
### 3.3 Wi-Fi outdoor camera (flush-mounted)

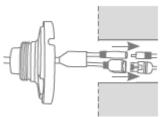
During the installation of the camera, you have the option of accessing the following installation instructions via the help in the app.



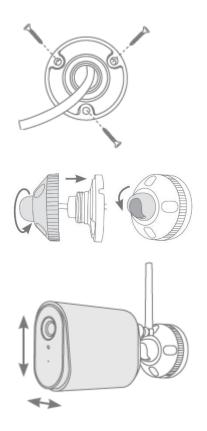
#### Attention!

Place the camera under a canopy or similar to avoid exposure to direct sunlight. The camera should not be pointed directly towards a light source or the sun.





- Mark the position of the required 3 drill holes at the desired location using the drill template or the wall plate of the bracket and a pencil, for example. To do this, please unscrew the bracket.
- Drill the holes and insert the screw anchors provided.
- Connect the power cable and LAN cable (optional when using Wi-Fi) to the 2 camera connections.
- Feed the cables into the wall.



- Fix the wall plate of the bracket in place with the screws provided.
- Insert the ball joint and fit the cover.
- The fixing ring is then screwed on slightly.
- The recess on the outer surround of the ball joint must always point downwards.
- Note: improper installation can damage the bracket.
- Now align the camera to the roughly desired coverage area and tighten the fixing ring.
- Place the antenna on the connection and screw it tight.

# 3.4 W-Fi outdoor camera (surface-mounted)

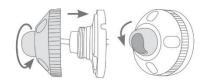
During the installation of the camera, you have the option of accessing the following installation instructions via the help in the app.



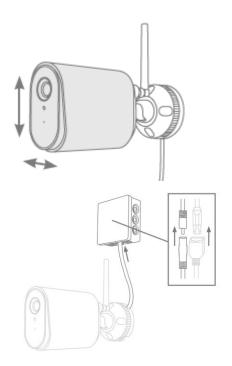
# Attention!

Place the camera under a canopy or similar to avoid exposure to direct sunlight. The camera should not be pointed directly towards a light source or the sun.





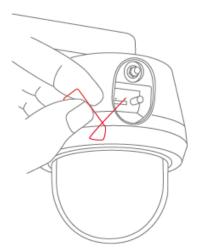
- Mark the position of the required 3 drill holes at the desired location using the drill template or the wall plate of the
- bracket and a pencil, for example. To do this, please unscrew the bracket.
- Drill the holes and insert the screw anchors provided.
- Feed the cable through one of the recesses in the wall plate.
- Fix the wall plate of the bracket in place with the screws provided.
- Insert the ball joint and fit the cover.
- The fixing ring is then screwed on a little.
- The recess on the outer surround of the ball joint must always point downwards.
- Note: improper installation can damage the bracket.



- Now align the camera to the roughly desired coverage area and tighten the fixing ring.
- Place the antenna on the connection and screw it tight.
- Use a commercially available weatherproof installation box (width and height min. 105 mm, depth min. 35 mm) for waterproof installation.
- Feed the camera's cable into the installation box and connect the wiring there. For further installation steps with an installation box, follow the installation instructions for this box.

# 3.5 Restoring factory settings

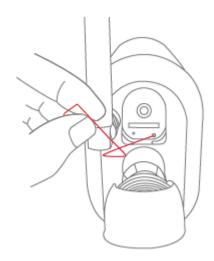
# 3.5.1 PPIC52520



If there are difficulties during set-up or if you have forgotten the access details (security code or admin password), reset the camera to the factory settings:

Open the cover on the side of the camera using an Allen key and press the reset button for at least 3 seconds using a thin object (e.g. the microSD card removal tool or a paper clip) until the Power LED flashes.

### 3.5.2 PPIC54520



If there are difficulties during set-up or if you have forgotten the access details (security code or admin password), reset the camera to the factory settings:

Open the cover on the rear of the camera using an Allen key and press the reset button for at least 3 seconds using a thin object (e.g. the microSD card removal tool or a paper clip) until the Power LED flashes.

# 3.6 Installation instructions for Wi-Fi operation

When installing the camera, make sure that it is within optimal range of the router. The camera can only be accessed if there is a sufficient Wi-Fi signal to the router.

For installations in larger buildings, a Wi-Fi repeater is recommended to optimise the range. Optionally, you can also operate the camera via LAN.

Please note that structural conditions can influence transmission.

#### Note



You can obtain information about compatible Wi-Fi repeaters from your network operator or the manufacturer of your router. ABUS Security Center GmbH & Co. KG will not make any recommendations for Wi-Fi repeaters.

Pay close attention to the installation recommendations for the Wi-Fi repeater. Ideally, it should be positioned between the router and the camera.

# 3.7 Camera coverage area

With intelligent object recognition, the camera's coverage area is based on the selected object. If the object is outside this area, it can be "seen" by the camera and displayed on the live image, but it does not trigger a recording.

Intelligent object recognition works reliably over the following range; outside these specified ranges, motion detection is possible but is not guaranteed.

Object type	Max. range
Person	8 - 10 metres*
Animal	3 - 4 metres
Vehicle	10 - 15 metres

<sup>\*</sup> Range is based on a person with a height of approx. 1.80 m.

If the camera is installed at a steep angle to the ground, some objects may be detected too late or not at all. The reason for this is that the detection here is not sufficient to specify the object more precisely.

# Note

The reliability of object detection depends on local factors. In some situations, false detections can still occur. Environmental influences such as rain, snow, insects or dirt can have a negative effect on the results.

#### 3.8 Installation location

The camera with protection class IP66 is suitable for outdoor use. Programming in the app is described in 5. App2Cam Plus: First access. For external access to the camera, you need a router with internet access.

# A

#### Note

Place the camera so that it is not hidden by objects. If possible, place the camera under a canopy or similar to avoid exposure to direct sunlight. The camera should not be pointed directly towards a light source or the sun.

# 4. Intelligent image analysis (object recognition)

# 4.1 Notes on object recognition

Intelligent object recognition allows you to differentiate between different types of objects (human, animal, car) during object detection. This gives you the option of objects not triggering at all or triggering with a lower priority, for example.

Please note that object recognition depends on distance, viewing angle and object size (seen from camera to object). For further information, read the section "3.7 Camera detection range"

#### Note



Intelligent object recognition serves to significantly reduce false detections compared to traditional motion detection methods. Traditional methods include, for example, motion detection via heat radiation by PIR sensors or classic software motion detection without object recognition, which only takes into account the object size but not the object type.

Environment-dependent individual fine-tuning of sensitivity and the use of hidden zones are necessary to achieve maximum accuracy, but 100% accuracy and the complete exclusion of false alarms are not possible.

Vehicles that are parked do not trigger any recordings until the vehicle is moving again or there is movement in the image.

In the case of animal and person detection, a recording is triggered even if they are not moving. If a mannequin or a picture with people is visible in the recording area, for example, please hide this area.



#### Note

When recognising animals, the algorithm checks for the presence of 4 legs. The main target group of animals to be recognised comprises dogs and cats.

If several objects are detected in the image at the same time, the object detected first is always displayed in the event list.

For example, if a vehicle enters the driveway, the event list will show the vehicle as the trigger, even if a person leaves the car in the video sequence.

The person is nevertheless marked with a coloured detection frame in the video.

Please note that object recognition looks for specific characteristics of an object in the image, but these can be distorted by environmental influences such as wind, rain, snow or insects. Therefore, there is always a residual risk that an object is wrongly classified. For example, objects that look similar to the

outline of a person can also be detected as a person. An example could be a flag moving in the wind, in which case it could be recognised as a person in a raincoat.





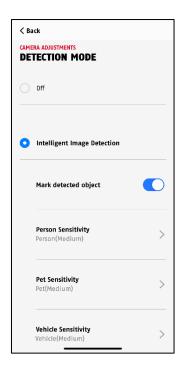


To exclude areas that are particularly susceptible to interference from detection, you can set a hidden zone (RONI - Region Of No Interest) here. The area is still visible, but there is no longer any object detection here and therefore no push notification and no recording.

In case of increased false triggers caused by objects, it is recommended to adjust the sensitivity of the objects. In many cases, these are already avoided at one level lower.

You can fine-tune the sensitivity of the detectors using the sliders, with the value "1" representing the lowest sensitivity and the value "10" the highest sensitivity of detection.

With a value of 1, a person is therefore only reported if it is very likely to be a real person.



The following settings are recommended for the various objects:

Person: Level 2 Animal: Level 3 Vehicle: Level 10



The reliability of object detection depends on local factors. False detections can occur in various situations. In particular, environmental influences such as rain, snow, insects, dirt and difficult lighting conditions can have a negative effect on the results.

# 5. App2Cam Plus: First access

# 5.1 System requirements

Please note the following points to ensure easy start-up:

- 2.4 or 5GHz Wi-Fi network with password and encryption.
- The location service of the mobile device must be activated for network integration.
- Bluetooth must be activated on the mobile device.
- Network integration can only be carried out in conjunction with App2Cam Plus.
- The following special characters are <u>not</u> possible when entering the Wi-Fi password.

&	`
<	^

• When entering the Wi-Fi password, only the following special characters are possible.

"	*	\$	:	۸	#	
:	;	I	(	)	{	}
[	]	+	-	=	@	~
\	6	?	1	%	_	!

# 5.2 Downloading app

Download the "App2Cam Plus" app from the Google Playstore or Apple App Store for first access.



During installation, help pages are available for the various steps. Click on the (i) icon to access the help.

# 5.3 App2Cam Plus: Compatibility

The App2Cam Plus is compatible with the following devices:

- PPIC90000 / PPIC90010 / PPIC90200
- PPIC32020 / PPIC32520 / PPIC34520
- PPIC35520 / PPIC36520
- PPIC42520 / PPIC44520
- PPIC46520
- PPIC52520 / PPIC54520
- PPIC91000
- TVAC19000A-B / TVAC19100A-B
- TVAC16000/TVAC16001

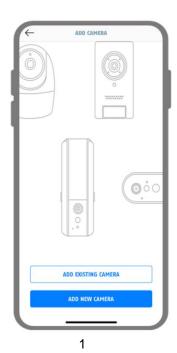
# Note

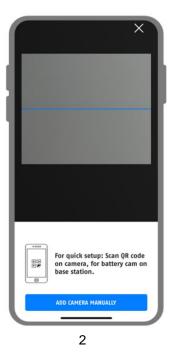


Please note that some of the functions explained or shown in these instructions may not be compatible with older generation cameras, or the camera functions may be different due to differences in the hardware.

# 5.4 Setting up the camera

# 5.4.1 Bluetooth setup







- 1. Start App2Cam Plus and select "Add new device" to start the start-up process.
- 2. Option 1: Scan the QR code located in the camera base or on the back.
- 3. Option 2: Tap on the "Add camera manually" button and then select your camera model from the list.



### Note

For optimum set-up, the camera and smartphone/tablet must be as close to each other as possible, at a maximum distance of 3 metres.

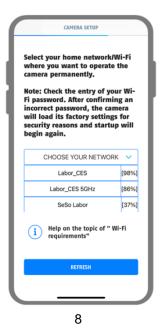






- 4. Select "Setup via Bluetooth".
- 5. If not already done: activate Bluetooth in the settings of your mobile device. Then tap on "Next".
- Now supply the camera with power, if not already done, and wait 2 minutes until the status LED of the camera (behind the lower cover) flashes 2x briefly and 1x long.
   Then tap on "Next".







- 7. Select your camera by its identification number. You will find the identification number (DID) enclosed in the packaging. Alternatively, in the camera base, below the QR code. Then tap on "Next".
- 8. Select your home network/Wi-Fi in which you want to permanently operate the camera. Then tap on "Next".
- 9. Enter the password of your network. Then tap on "Next".



#### Note

The location services must be activated in the settings of your smartphone for optimum set-up.







10. Now assign a security code or admin password. These must be identical when setting up via Bluetooth. Then tap on "Next".

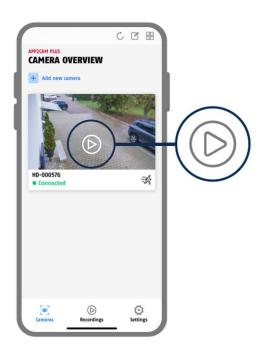
The admin password can be changed in the camera settings after installation.

11. The camera will now restart. This can take up to 60 seconds.



#### Note

For the best possible camera experience, we recommend that you always operate the camera with the latest firmware. You can find the current firmware version and available updates under "Camera settings" > "Device settings" -> Search firmware update

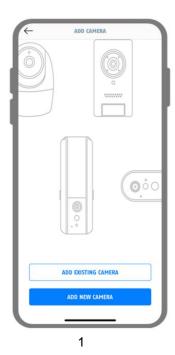


Start-up via app is now complete. The app now shows the camera overview with a first preview image of the security camera.

Tap the Play icon in the preview image to display the first live image. In rare cases, e.g. if the reception is too poor, the app displays the "no connection" icon.

Tap on it to open the live view.

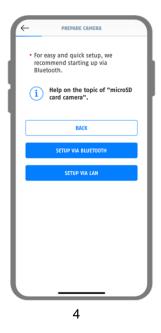
# 5.4.2 Setup with a network cable (optional)

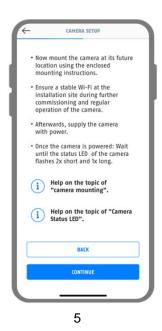






- 1. Start the App2Cam Plus and select "Add new device/Add new camera" to start the set-up process.
- 2. Option 1: Scan the QR code located in the camera base or on the back.
- 3. Option 2: Tap on the "Add device manually / Add camera manually" button and then select your camera model from the list.





- 4. Select "Set-up with my mains cable/Set-up via LAN".
- 5. Connect the network cable and then connect the power supply to the camera. Now supply the camera with power, if not already done, and wait 2 minutes until the status LED of the camera (behind the lower cover) flashes 2x briefly and 1x long. Click on "Search camera in network".







- 6. Select your camera by its identification number. You will find the identification number (DID) enclosed in the packaging. Alternatively in the camera base or on the back, below the QR code. Then tap on "Next".
- 7. Assign a camera name.
- 8. Now assign a security code or admin password. These must not be identical. Then tap on "Next".



#### Note

The location services must be activated in the settings of your smartphone for optimum set-up.

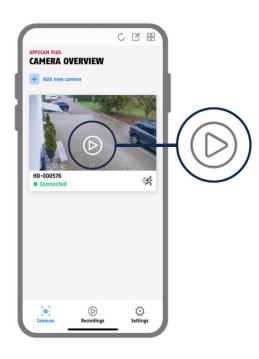


9



# Note

For the best possible camera experience, we recommend that you always operate the camera with the latest firmware. You can find the current firmware version and available updates under "Camera settings" > "Device settings" -> Search firmware update



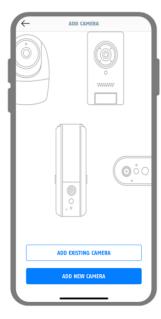
Start-up via app is now complete. The app now shows the camera overview with a first preview image of the security camera.

Tap the Play icon in the preview image to display the first live image. In rare cases, e.g. if the reception is too poor, the app displays the "no connection" icon.

Tap on it to open the live view.

# 5.4.3 Adding cameras that have already been set up

To set up a camera that is already connected to the network, please proceed as follows.







Open the app and click on "+ Add new camera" to add a camera, then click on "Add connected device".

Enter a name for your camera. To enter the DID you have the following options: scan the QR code located in the camera base or on the rear of the camera, or search for the camera in the network with the "Camera search" button, or enter the DID of the camera manually.

Enter the security code already assigned to the camera.

Press the "Save" button to add the camera.

You have now successfully completed start-up.



#### Note

If the camera has already been set up via another smartphone or user, select this method to add cameras that are already set up.

# 5.5 App2Cam Plus: Overview



#### **Note**

Please note that some of the functions explained or shown in these instructions may not be compatible with older generation cameras, or the camera functions may be different due to differences in the hardware.

#### Note



The screenshots and icons shown here are from the iOS app.

The text, layout or functions may differ slightly from the Android app. If this is the case, this will be indicated in the respective items or as additional information – (iOS only) or (Android only).

In the camera overview, you can open the live view of the camera by clicking on one of the preview images.

In the recording menu, available recordings can be played back and downloaded.

You can also find some information about our products in the app settings.



Camera overview

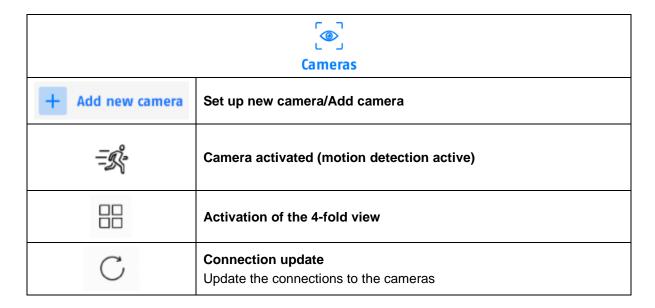


Recording menu

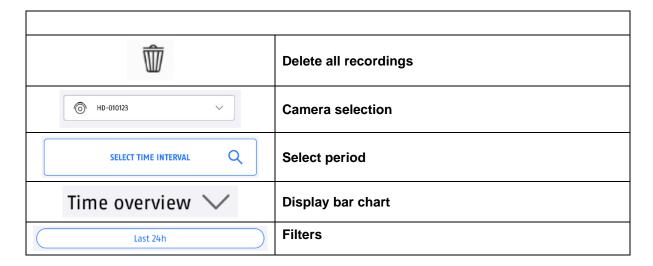


App settings / Info

# 5.5.1 Camera overview



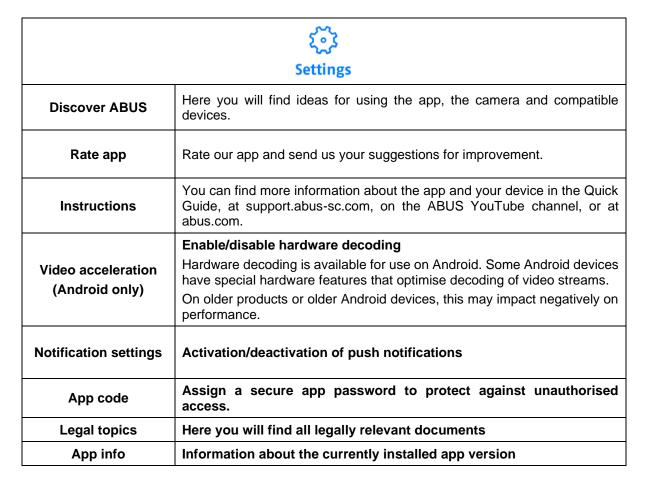
# 5.5.2 Recording menu



### 5.5.3 Info/App settings

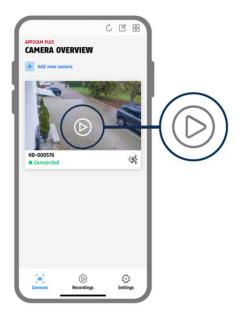
Tap the gear icon in the camera overview to make settings that affect the app.



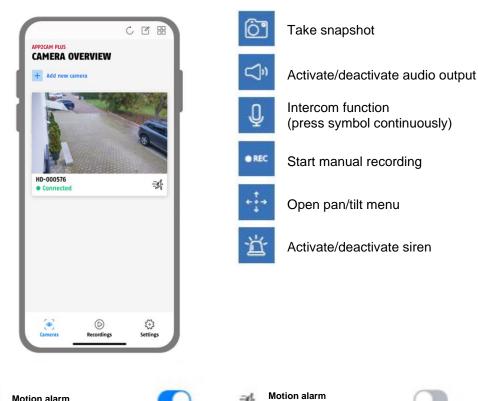


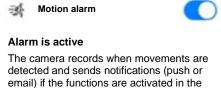
# 5.6 App2Cam Plus: Live view

In the live view, a variety of different functions are available to you, depending on the camera model. The functions are additionally available in landscape mode. Click on the preview image of the camera to go to the live view.



# 5.6.1 PPIC52520(B) / PPIC54520(B) Live View functions







Make settings for this camera

#### Alarm is deactivated

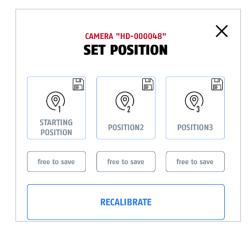
The camera displays a live view but does not carry out any other actions when motion is detected.

# Pan/tilt function

camera settinas.

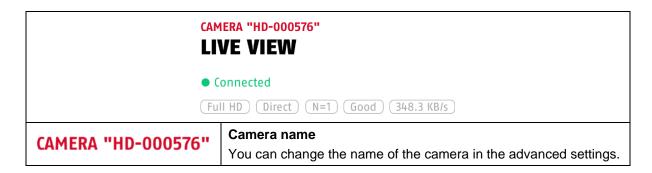
For pan/tilt cameras, you can control the camera using a "swipe" command. When entering the live image, the starting position is always displayed.

#### Pan/tilt menu



	Save or call up starting position
(O)	Save or call up point 2
(O)3)	Save or retrieve point 3
Recalibrate	Camera calibrates itself once
Delete	The position is deleted

### 5.6.2 Camera indicators



# 5.6.3 Stream indicators

Full HD			
CIF VGA HD Full HD	Display of the current stream resolution		
Direct Relay server	Display of the current connection status Direct:  The Peer2Peer Server was able to set up a direct connection between your end device and the camera.  Relay server*:  The Peer2Peer Server was unable to set up a direct connection. The video data is saved on the relay server for a short time so that your mobile device can get the data from the server. This causes a delay in the stream.		
Low Normal Good	Display of current assessment of the connection  This shows the connection between the camera and the router.		
xxx KB/s	Display of the current kilobit consumption per second		

### \*Note

If the connection to your camera is always made via the relay server, please check the following settings:

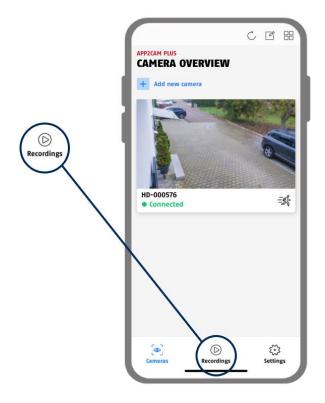


- Check whether UPnP is enabled in your router
- Check whether a hardware firewall or a software firewall is stopping a direct connection
- Check whether multiple "hops" (routers) are installed between the mobile device and the internet.

# 5.7 App2Cam Plus: Recording menu

# 5.7.1 Recording menu

Tap the Recordings icon in the camera overview to open the event list.



In the event list you can set a start and end time; click on the date selection for this. With this filter, the app will show you all recorded events in this period.

In the time overview, the frequency of the triggers is displayed for different time periods.

Recordings with object recognition are displayed with icons for recognition.

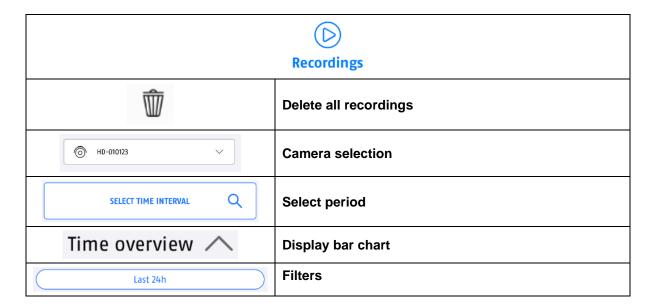
Click on the preview image to view it; the triggering object is shown here.





English

# 5.7.2 Recording menu functions





# \*Note

The recordings cannot be accessed during a recording.

**English** 

# 5.8 Playback

Depending on the camera model, various functions are available to you for event playback. Landscape mode shows a full view without functions.

The results usually need a short buffer time until the event can be played back.



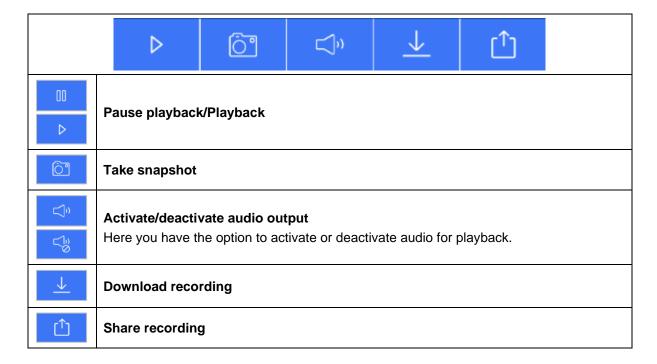




#### Note

When events are played back, the event is automatically downloaded to your mobile device. For this reason, we recommend using Wi-Fi for playback as much as possible to minimise the amount of data consumed.

# 5.8.1 Playback functions



# 5.8.2 Download & forwarding







To download a file to your smartphone, click on the Download icon. The file is now downloaded and is subsequently displayed in red in the recording list. You can share the file by clicking on the Share icon.

#### Note



The downloaded data is stored differently on the iOS and Android operating systems.

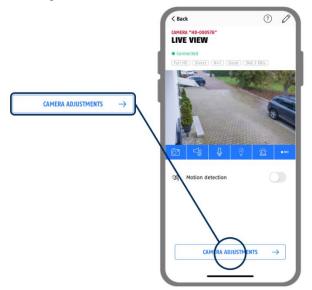
iOS: The events are stored on the device and can be accessed in the gallery.

**Android:** The saved data can be found in the device manager under "Internal memory/movies".

# 5.9 Camera settings

# 5.9.1 Opening camera settings

To open the camera settings, click on the bottom button in the live view.



Use the admin password that you assigned during the initial installation.



#### Note

The admin password is a functional password and not a security password and is intended to help you to provide other people with a live view and notifications from the cameras while protecting the advanced settings.

# 5.9.2 Login details

You can manually change the camera's login details in the settings:





System Name: Change the name of the camera here.

DID: Change the camera's DID manually here.

Security Code: Enter the security code of the camera here.

Discard changes with the "Cancel" button or save them with the "Save" button.

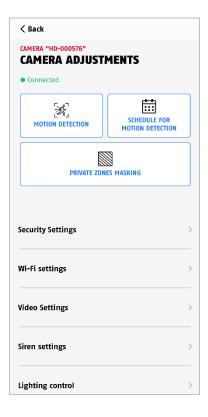
English

# 5.9.3 Automatic Login

When entering the admin password, you can use the "Save admin password" button to save the admin password on your device so that you do not have to enter it the next time you open the advanced settings on your device. This does not apply when you are accessing the system from other devices.

### 5.9.4 Advanced Settings

The individual menu items are grouped together.



At the bottom of the camera settings, you have the option to delete the camera from your app. Please note that it will only be deleted from the app and will not be reset.



#### Note

Although the individual items have a different layout than in Android, the functions are identical and available on both platforms.



#### Note

Please always make changes to the settings (e.g. changes to the admin password) of the camera in the local network of the camera. We strongly advise you not to change settings in a public Wi-Fi network, as it is always possible for other people to record the settings.

# 5.9.5 Motion detection settings

## **Motion detection settings**

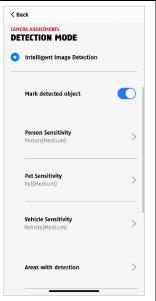


Click on the Motion Detection button to make settings for this.

Click on Intelligent Image Analysis for further settings. If "Off" is selected, there is no motion detection.

The changes in the settings are applied only after exiting the menu.

#### Intelligent image analysis



Using intelligent image analysis, you can access intelligent detectors, which evaluate the current video image.

Multiple selection is possible.

## Mark detected object

When activated, detected objects are marked with coloured frames.

# Intelligent object recognition

Thanks to object recognition, the camera can distinguish between individual objects in order to achieve a lower false alarm tolerance.

The camera distinguishes between the following objects:

- People
- Animals
- Vehicles

You can fine-tune the sensitivity of the detectors using the sliders, with the value "low" representing the lowest sensitivity and the value "high" the highest sensitivity of detection.

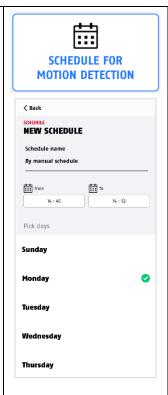
Please note the information under item "8. Intelligent image analysis".



# The reliability of object detection depends on local factors. In various situations, false alarms may nevertheless occur. Environmental influences such as rain, snow, insects or dirt can have a negative effect on the results. **Detection areas** The detection areas describe the areas 7 in which the intelligent object recognition AREAS WITH DETECTION function searches for persons, vehicles or animals. АНЦБ You can activate up to 3 regions and place and adjust them individually by Areas with detection drag and drop. The camera detects the entire area if no area is defined here. Areas without detection are dominant. By default, the entire image area is marked. DELETE ALL AREAS Please note the information under item "4. Object recognition". Hidden areas The hidden areas describe the areas 7 that can be hidden for intelligent object AREAS WITHOUT DETECTION detection. No persons, vehicles or animals are detected within this area AHUS You can activate up to 3 regions and **Areas without detection** place and adjust them individually by Define here areas where no motion should be detected. drag and drop. Please note the information under item "4. Object recognition".

#### 5.9.6 Schedule settings

# Activation/deactivation schedule



Click on the Schedule for Motion Detection button to store schedules.

# Schedule settings

Tap the plus sign to add a schedule.

Separate activations are created for the start time and end time.

Select the start time and assign a schedule name for it.

Select the days for repetition and the action (arm/disarm) for the start time.

Save by clicking on "Done".

For the end time, press the plus icon again.

Now enter the end time, schedule name and repetition. Please select the action that contrasts to the previous one and save it by clicking "Done"

## For example:

Start time 21:00 from Mon-Fri, action Arm End time 06:00 from Mon-Fri, action Disarm

The camera only records from Monday to Friday in the period between

9 pm - 6 am when there is movement.

To delete a schedule, click on the waste bin icon in the top right-hand corner and then on the minus symbol next to the desired setting.

# 5.9.7 Privacy zone masking

# Privacy mask



Click on the Privacy Zone Masking button to make settings for this.

A preview of the live image and the privacy zone that has been set up are displayed here. Privacy masks are drawn directly in the preview area.

You can activate up to 3 areas and place and adjust them individually by drag and drop.

The area drawn is blacked out and so cannot be seen in the live image or in the recording.

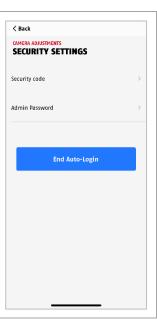
In order not to detect any movements there either, you would also have to set up an "area without detection" in the same area.

To delete zones, click on Delete all zones and then on the tick at the top right.

Click on "Back" to exit the menu item and save the settings.

# 5.9.8 Security settings

# **Security settings**



Make the security settings for your camera here.

The changes in the settings are applied only after exiting the menu.

## Change security code



The security code is used to set up the camera in the app. The default code is "123456" and must be changed during initial installation.

If you have forgotten your security code, you can reset the camera by pressing the reset button for approx. 5 seconds.

Attention: All settings including the network connection are lost.

#### Change admin password



The admin password grants access to the camera settings and enables activation/deactivation of the camera recordings.

During installation, you assign your own admin password.

If you have forgotten your admin password, you can reset the camera only by pressing the reset button for approx. 5 seconds.

The default admin password is "123456".

#### Attention:

All settings including the network connection are lost.

## **End Auto Login**

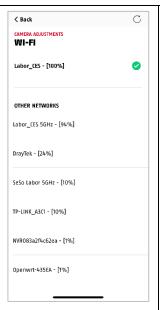


If you have already activated Auto Login, you can deactivate the function here.

This menu item is only displayed if the function has already been activated.

# 5.9.9 Wi-Fi settings

# Wi-Fi settings



In the Wi-Fi settings, you can select the desired network to which the camera is to be connected.

When the menu item is selected, all networks in the vicinity are displayed. Select your network and enter your Wi-Fi password.

Make sure that the signal strength is sufficient to avoid transmission problems.

Enter the password and confirm with OK.



To prevent unauthorised persons from accessing the network, protect it using WPA/ WPA2/ WPA2-PSK encryption.



The settings are applied only after exiting the menu.



Leerzeichen



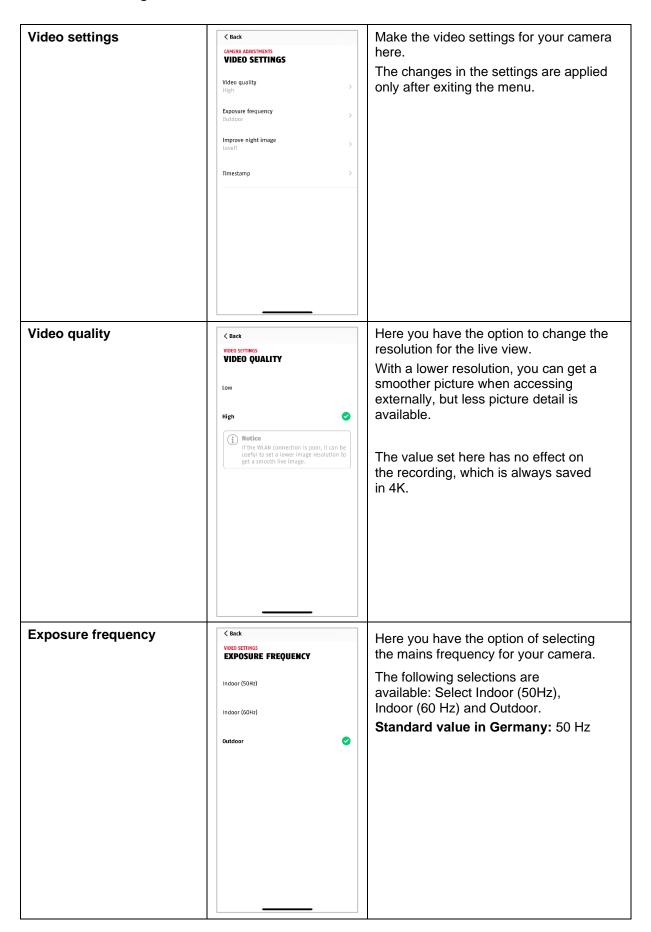
If the connection was unsuccessful or the wrong Wi-Fi information was entered, press the reset button for 3 seconds to reset the camera to factory settings.

#### Attention:

All settings including the network connection are lost.

<u></u>

# 5.9.10 Video settings



# Improve night vision



Here you can adjust the brightness of the night image if you have deactivated the white light LED.

In this case, the night image is displayed in black and white.

A higher level will brighten the image more, a lower level less.

As soon as there are objects in the immediate vicinity of the camera, it is advisable to set the intensity to a lower level to avoid reflections in the image, but this will reduce the range of the LEDs.

#### **Timestamp**

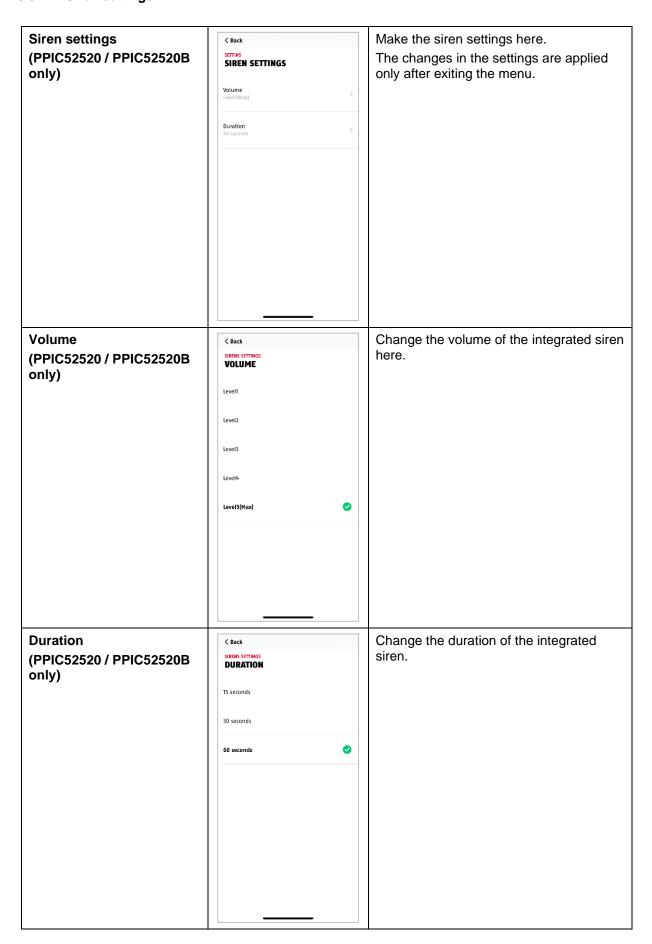


Change the position of the timestamp by briefly holding and sliding the timestamp to the desired corner.

Change the colour of the timestamp by clicking on the desired colour. Remove the timestamp by clicking on the image once.

Changes are automatically saved when you exit the menu using the back button.

# 5.9.11 Siren settings



## 5.9.12 Notification settings

# **Activate PUSH notification/** Activate notifications to receive PUSH **Notification language** messages on your smartphone when NOTIFICATIONS motion is detected. You have the option to change the Push-Notification language of the notification under **Notification Language** Notification language. Please note that only the language of the E-Mail Notification PUSH notifications will be changed. E-Mail The language setting for the app remains the same and must be changed in the smartphone. < Back NOTIFICATION LANGUAGE Deutsch Français Nederlands Dansk Polski Italiano **Email notification / Email Email settings** The email settings are required for sending NOTIFICATIONS a notification. Push-Notification Use SSL/TLS: Activate the checkbox to transmit email in Notification Language encrypted form. You can obtain the necessary settings from your email provider. E-Mail Notification SMTP server: Enter the SMTP server address here. E-Mail e.g. smtp.test.com SMTP port: Enter the SMTP port here. e.g. 465



#### **Username:**

Enter the sender email address here. e.g. <a href="mailto:xxx@test.com">xxx@test.com</a>

#### Password:

Enter the sender email password here.

# Recipient:

Enter the recipient's email address here. e.g. xxxx123@test.com

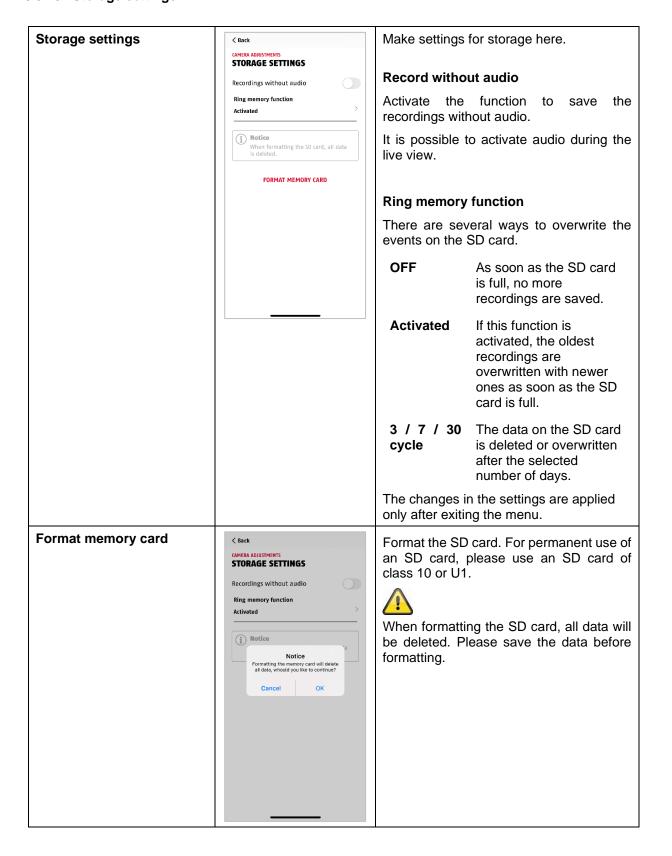
Save the settings with OK. When exiting the advanced settings, press "Confirm". Only then will the email settings be applied.



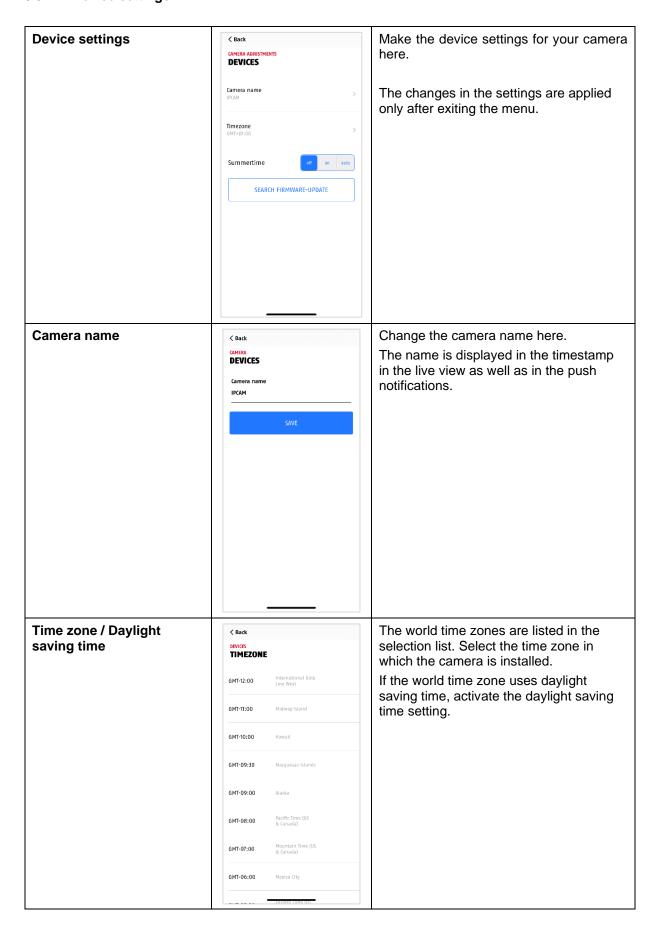
We recommend using "googlemail" to send emails.

You can find instructions on how to set it up under Downloads.

## 5.9.13 Storage settings



# 5.9.14 Device settings



# Check for firmware update



You can search for the latest firmware updates by selecting the "Check for firmware update" menu item.

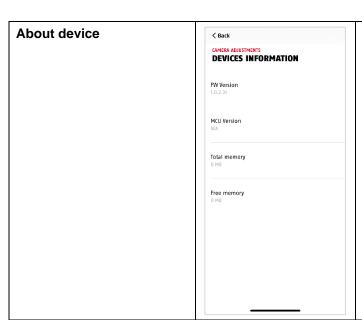
Please note that a microSD card is required for this.

The firmware update is downloaded in the background and saved on the microSD card. To do this, exit the settings of the camera.

After about 5 minutes you will receive a PUSH notification or, after re-entering the Advanced Settings, a message that a new update has been successfully downloaded.

Now click on "Install the new firmware now" to start the installation process. This may take a few minutes.

#### 5.9.15 Device information



The device information gives you information about the current firmware version of the camera, the total available memory and the free memory on the SD card.

# 6. Updating firmware

There are two different ways to update your camera's firmware. Please note that with both methods, the settings of the camera are still retained, so you do not have to set them again.



Please note that a microSD card is required for both variants.



It takes approx. 3 to 5 minutes to update your camera. Do not disconnect your camera from the power during this process.

# 6.1 Update via server

#### Option 1:

The camera checks at 6-hour intervals whether new firmware is available on the firmware server for the camera. Insert a microSD card into your camera so that it can download the firmware automatically. After the camera has downloaded the firmware, the next time you enter the advanced settings, a message will appear or you will receive a PUSH message so that you can start the update. Click on the menu item "Check for firmware update". A message appears that the camera is ready for updating.

Now click on "Install the new firmware now".

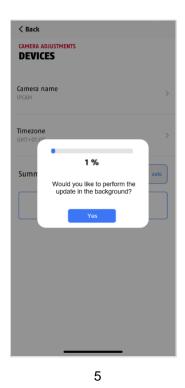






1 2





#### Option 2:

If you do not want to wait for the 6-hour interval, you can also have the camera actively search for a newer firmware. To do this, press the menu item "Check now for firmware updates" in the Advanced settings. If a firmware has not already been downloaded, the camera will actively search for a newer version and then save this on the SD card. This can take up to 5 minutes. To do this, exit the camera settings.

After the camera has downloaded the firmware, the next time you enter the advanced settings, a message will appear or you will receive a PUSH message so that you can confirm installation of the firmware.

To do this, click on the menu item "Install the new firmware now".

## 6.2 Current firmware version

Some camera functions only work with the latest firmware version. Therefore, make sure that your devices are always up to date.

# 7. Troubleshooting tips

# Camera image is not displayed

Check the signal strength of the camera in the camera settings. Is the camera connected? Is there an internet connection? Is the camera supplied with power?

#### Push notifications are not received

Is the camera's motion detection function deactivated? Also check the schedules. Are the push notifications deactivated? Is there an internet connection?

#### How can I reset my camera to the factory settings?

Unscrew the cover and press the reset button for at least 3 seconds with the supplied reset tool or a paper clip, for example. The LED starts flashing red. As soon as the factory settings are loaded, the LED flashes continuously.

#### Your Wi-Fi network is not displayed in the selection list in the camera app.

If your personal Wi-Fi network does not appear in the selection list, please check the following:

- 1. Make sure that the SSID of your router is visible.
- 2. Change the encryption type of your router to WPA / WPA2 /WPA2-PSK.

#### Weak network signal or poor image quality

Possible causes could be:

- Wi-Fi network devices can interfere with signal transmission. Make sure there is a sufficient distance between the camera and other Wi-Fi devices.
   Possible interfering factors can also be thick brick walls, exterior walls, glass, water pipes and metal
- 2. Remove dirt from the camera. This can have a negative influence on the image quality.

# What could be the causes for the device not recording when there is movement?

Possible causes could be:

- 1. Is the SD card inserted correctly?
- 2. Is motion detection activated?
- 3. Are the schedules set correctly?
- 4. Make sure you use a class 10 SD card.
- 5. Check the hidden areas.
- 6. Adjust the sensitivity of motion detection.

#### The camera image is overexposed (white areas in the image).

The camera has IR LEDs for night-time operation. The light is reflected by reflective surfaces such as glass or white surfaces. Do not place the camera in front of glass surfaces and ensure that it is installed in protected outdoor areas.

#### What could be the causes of an SD card error?

Please check the following:

- 1. Make sure that the SD card has been inserted and formatted correctly. Please save important data before formatting as it will no longer be available afterwards.
- 2. Make sure to use only a class 10 or higher SD card.
- 3. When inserting the SD card, the camera must be disconnected from the power supply.

#### The time and date display are not correct.

**English** 

Possible causes could be:

- 1. Are the date and time settings of your mobile device set correctly? The system takes the time from your mobile device.
- 2. Is the correct time zone selected? Is the changeover to daylight saving time deactivated?
- 3. Restart the camera by unplugging it and plugging it back in after about 5 seconds.

# 8. Open Source licence notes

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 corresponding licences are enclosed with the product in printed form and/or can be accessed via a graphical user interface. You can acquire usage rights to the extent regulated therein directly from the rights holders.

The open source licences take precedence over all other licence conditions and contractual agreements with ABUS in respect of the corresponding OSS software components contained in the product.

In general, licence information for ABUS products can be found at <a href="www.abus.com">www.abus.com</a> in the download area of the product description.