PPIC32020 / PPIC32520 / PPIC34520 / PPIC35520 / PPIC36520

User guide

You can find important information and FAQs about this and other products online at:
www.abus-smartvest.com

English translation of the original German instruction manual.
Retain for future reference.

Introduction

Dear Customer,

Thank you for purchasing this product.

ABUS Security-Center hereby declares that the PPIC32020, PPIC32520, PPIC34520 and PPIC35520 cameras comply with RED Directive 2014/53/EU. Additionally, these devices 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 may be found at:
www.abus.com/product/PPIC32020
www.abus.com/product/PPIC32520
www.abus.com/product/PPIC34520
www.abus.com/product/PPIC35520
www.abus.com/product/PPIC36520

To ensure this remains the case, and to guarantee safe operation, you the user must observe the instructions in this user guide.

Read the entire user guide carefully before starting operation of the product, 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
http://www.abus-smartvest.com

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Contents

1. Scope of delivery

PPIC32020

- Wi-Fi pan/tilt camera
- Power supply unit, 5 V DC/1.5 (EU, UK)
- Network cable 1 m
- Antenna
- Ceiling bracket
- Installation material
- Quick guide

PPIC32520

- Wi-Fi pan/tilt outdoor camera
- Power supply unit, 5 V DC/1.5 (EU, UK)
- Network cable 1 m
- Antenna
- Wall bracket
- Installation material
- RJ45 coupling
- Quick guide

PPIC34520

- Wi-Fi outdoor camera
- Power supply unit, 5 V DC/1.5 (EU, UK)
- Micro USB – RJ45 adapter
- Antenna
- Wall bracket
- Installation material
- Quick guide

PPIC35520

- Wi-Fi video intercom system
- Power supply unit, 12 V DC/1 (EU, UK)
- Power cable
- Network cable
- Network cable 1 m
- Triangle screwdriver
- Name plate
- Installation material
- Quick guide

PPIC36520

- Wi-Fi outdoor camera
- Antenna
- Wall bracket (incl. power supply unit)
- Drilling template
- Installation material
- Quick guide

2. Description of the hardware

2.1. PPIC32020
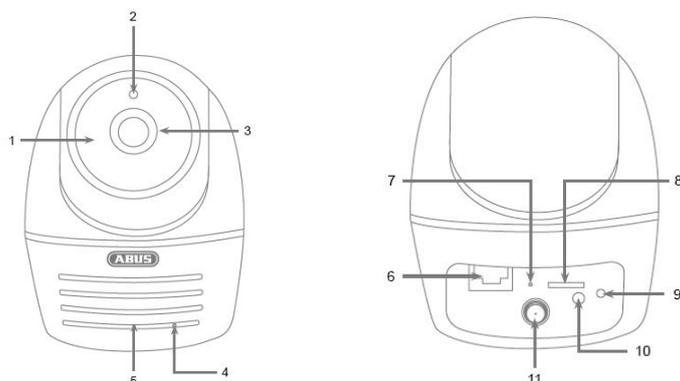
1	IR LEDs	2	Photo sensor
3	Lens	4	Microphone
5	Loudspeaker	6	LAN interface
7	Reset button	8	MicroSD card slot (max. 128 GB)
9	Power/Status LED	10	Power supply (5 V DC)
11	Antenna connection (RP-SMA)		

2.2. PPIC32520
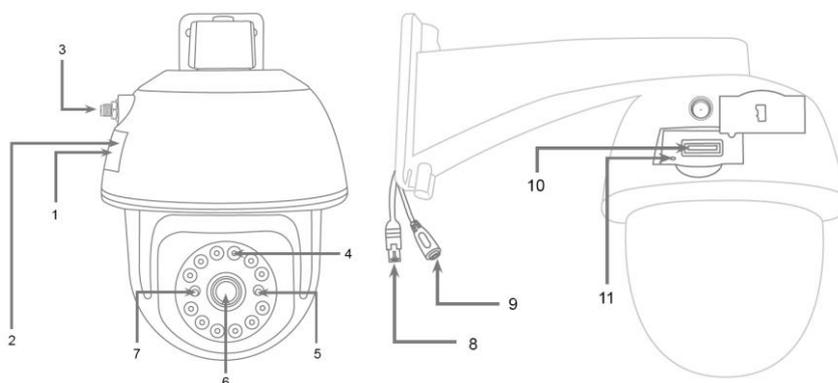
1	Internal MicroSD card slot	2	Internal reset button
3	Antenna connection (RP-SMA)	4	IR LEDs
5	Power/Status LED	6	Lens
7	Photo sensor	8	RJ45 (male) for LAN connection
9	Power supply (5 V DC)	10	MicroSD card slot (max. 128 GB)
11	Reset button		

2.3. PPIC34520
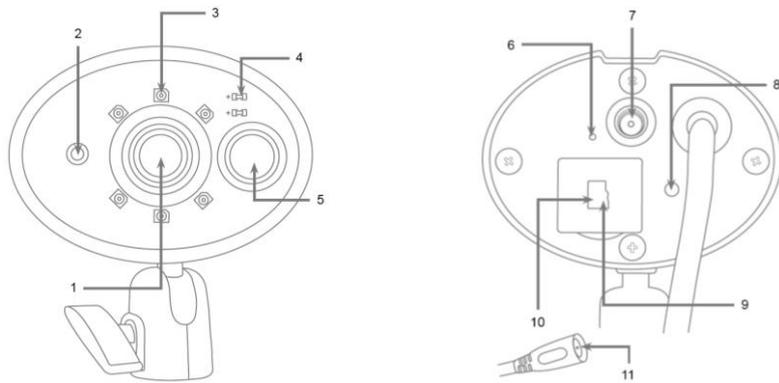
1	Lens	2	Photo sensor
3	IR LEDs	4	Power and status LED
5	PIR sensor	6	Microphone
7	Antenna connection (RP-SMA)	8	Reset button
9	Internal MicroSD card slot (max.128 GB)	10	Internal micro USB interface for LAN connection
11	Power supply (5 V DC)		

2.4. PPIC35520
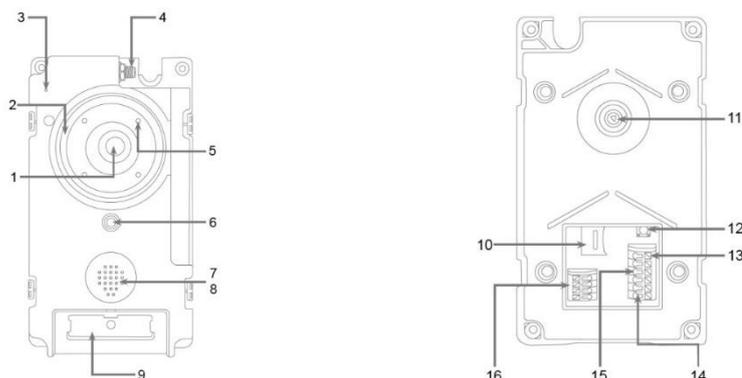
1	Lens	2	White light LED ring
3	Microphone	4	Antenna connection (RP-SMA)
5	IR LEDs	6	Photo sensor
7	Loudspeaker	8	RFID reader
9	Call button	10	MicroSD card slot (max. 128 GB)
11	Adjustable lens (V: 7.5%, H: 2.5%)	12	Reset button
13	B2/B1 connector block: Potential-free relay for connection for, e.g. door opener. Maximum input 2A / 24V AC/DC	14	C2/C1 connector block: Potential-free relay for connection for an external doorbell. Maximum input 2A / 24V AC/DC
15	V-/V+ connection block: Connection for power supply. AC – Alternating Current: 24–36 V DC – Direct Current: 12–48 V	16	TD-/TD+/RD-/RD+ connector block LAN interface connection

Individual intercom components
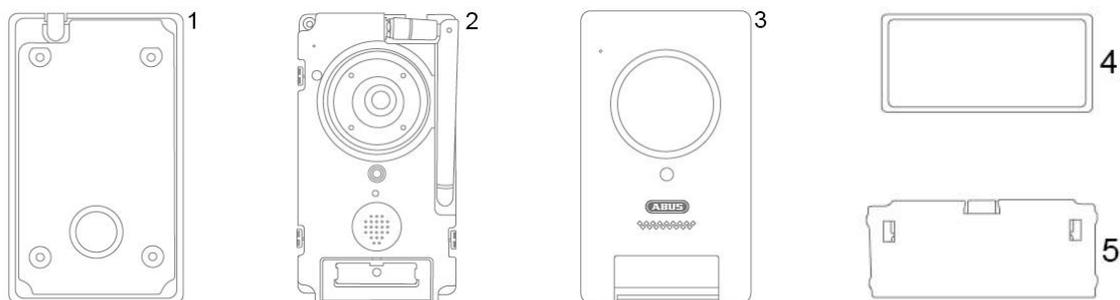
1	Mounting plate	2	Door station
3	Cover	4	Call button cover
5	Call button pressure plate		

2.5. PPIC36520
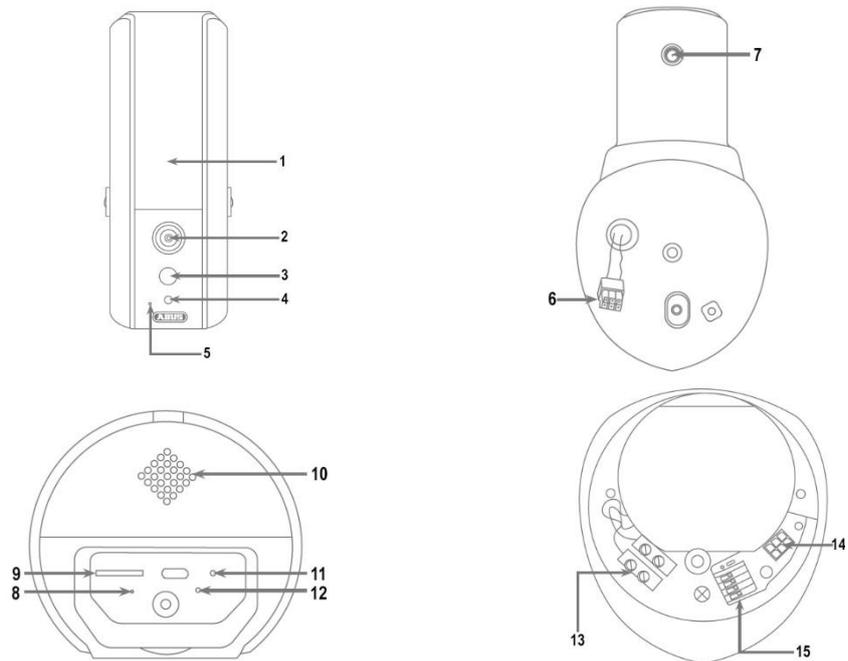
1	White light LED IR LEDs	2	Lens
3	PIR sensor	4	Photo sensor
5	Microphone	6	Camera connection cable
7	Antenna connection (RP-SMA)	8	Status LED
9	MicroSD card slot (max. 128 GB)	10	Loudspeaker
11	Reset button	12	Power LED
13	Power supply (90–260 V AC)	14	Camera connector block
15	Connector block 1/2/3/6 LAN interface connection		

3. Description of hardware functions

3.1. Status LEDs

PPIC32020

LED	Status	Description
Power and status LED	Lights up green	Camera connected to power Camera connected to network
	Flashes green	Camera set to the factory settings Camera firmware is being updated
	Flashes green (2 x short & 1 x long)	Camera connected to power Camera sends its own access point out
	Off	Camera has no power supply Camera not connected to any network

PPIC32520

LED	Status	Description
Power and status LED	Lights up red	Camera connected to power Camera connected to network
	Flashes red	Camera set to the factory settings Camera firmware is being updated
	Flashes red (2 x short & 1 x long)	Camera connected to power Camera sends its own access point out
	Off	Camera has no power supply Camera not connected to any network

PPIC34520 / PPIC35520

LED	Status	Description
Power LED	Lights up red	Camera connected to power
	Flashes red	Camera set to the factory settings Camera firmware is being updated
	Off	Camera has no power supply
LED status	Lights up green	Camera connected to network
	Flashes green (2 x short & 1 x long)	Camera sends its own access point out
	Off	Camera not connected to any network

PPIC36520

LED	Status	Description
Power LED	Lights up white	Camera connected to power
	Flashes white	Camera set to the factory settings Camera firmware is being updated
	Off	Camera has no power supply
LED status	Lights up blue	Camera connected to network
	Flashes blue (2 x short & 1 x long)	Camera sends its own access point out
	Off	Camera not connected to any network

3.2. Factory settings/reset

To reset the camera to its factory settings, press and hold the reset button for five seconds while the camera is operating.

3.3. White light LED

PPIC35520

LED	Status	Description
White light LED ring	On	Connection to intercom established / call accepted
	Flashing	Call button has been pressed, call waiting
	Off	No active connection

PPIC36520

LED	Status	Description
White light LED	On	Motion detected, switched on manually
	Off	No motion detected, switched off manually

3.4. Call button (PPIC35520 only)

Pressing the call button triggers the following response from the intercom system:

- Call triggered
- Relay for external doorbell (C2/C1) is triggered
- The white LED ring begins to flash

3.5. RFID Reader (PPIC35520 only)

You can program and use the ABUS AZ5502 proximity chips in the intercom with the help of the built-in RFID reader. The RFID reader is located behind the loudspeaker, just above the call button.

To do this, enable programming in the intercom's advanced settings and hold the chip in front of the intercom until you hear a beeping sound and the app displays the next step.

You can perform different actions by using the chip in different ways.

Response

Use	Response	Action
Hold the chip just in front of the RFID reader for one second	Beeps 1x	Relay (B2/B1) triggered
	Beeps 3x	Chip could not be read Chip not recognised
Hold the chip in front of the RFID reader until there is a response.	Beeps 2x	-
	Beeps 3x	Chip could not be read Chip not recognised

3.6. Micro USB connection

PPIC34520

With the enclosed network adapter cable, the PPIC34520 can be connected to a network with a cable via the micro USB connection under the cover at the back.

	Important!
⚠️	The weather resistance of the camera is invalidated when a permanent connection to a network via the network adapter cable and the micro USB connection is used.

PPIC36520

The PPIC36520 can be supplied with power at short notice by connecting to a power bank or similar via the micro USB connection on the underside. Thereby ensuring the Wi-Fi connection can be tested at the desired installation location.

4. Mounting/installation

⚡	**IMPORTANT!** The camera must be disconnected from the power supply during installation.

4.1. PPIC32020
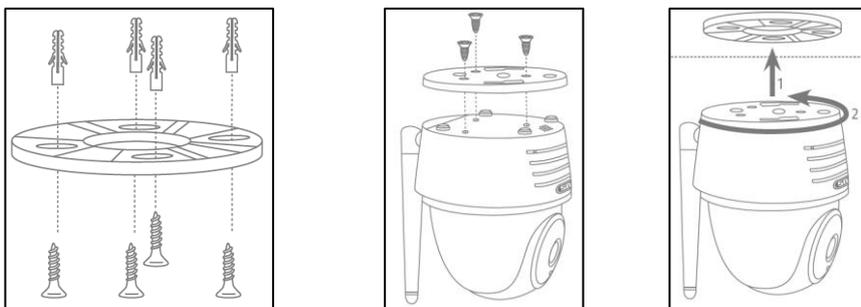
Position the mount where you intend to install the camera. Mark up and drill the required holes. Next, use the screw anchors and screws provided to fasten the mount in place.

⚠	**Important!** Make sure the alignment is correct. The 'LOCK' text must point in the direction of the scene to be monitored.

Use the small screws provided to fasten the base plate to the camera.

Position the camera with the base plate on the mount in such a way that the arrow on the base plate is aligned with 'UNLOCK' on the mount. Next, fix the camera in place by turning the camera clockwise. The arrow must be aligned with 'LOCK'.

4.2. PPIC32520
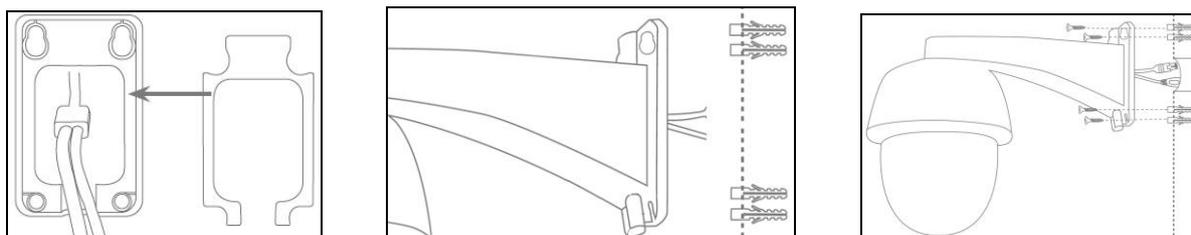
If the camera is being installed on a roughcast wall, use the EVA foam provided and glue it to the back of the mount.

First of all, disconnect the mount from the camera using the Allen key provided. Position the mount where you intend to install the camera. Mark up and drill the required holes. Insert the screw anchors provided.

Reconnect the camera to the mount and feed the cable through the mount. Next, screw the camera and mount to the wall.

Cabling tips

If you do not have the option of feeding the cable through the wall, the following alternatives are available:

1. Cable duct:
   Feed the cable downwards and out from the mount. Use a cable duct (width at least 40 mm, depth at least 30 mm) to protect the laid cable.
2. Surface-mounted box:
   Use a surface-mounted box (width and height at least 105 mm, depth at least 35 mm) and drill a hole into the box's cover so that the network cable and power cable can be fed into the surface-mounted box. Next, install the camera and mount on the cover of the surface-mounted box. Install the surface-mounted box in the desired installation location and screw the cover in place together with the camera.

4.3. PPIC34520
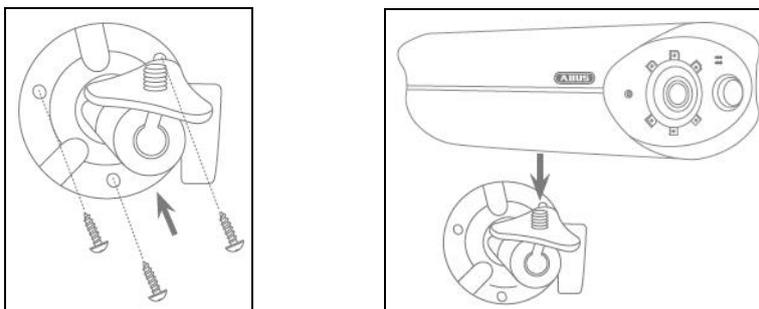
Position the mount where you intend to install the camera. Mark up and drill the required holes. Next, use the screw anchors and screws provided to fasten the mount in place.

Next, install the camera on the mount by screwing the camera clockwise on to the thread. As soon as the camera is fully screwed into position, lock the camera further into place by tightening the wing nuts from underneath.

For alignment purposes, loosen the wing screw at the side and align the camera in the desired position. Next, lock the camera into place once more by tightening the wing screw.

4.4. PPIC35520

This intercom is particularly well suited to retrofitting. It can usually be wired using the existing cabling if the existing doorbell is replaced. Use an ammeter to check whether there is sufficient voltage in the existing cables. Otherwise, the power supply will have to be installed separately. You will find further details and illustrations of the exact wiring below.

4.4.1. Mounting plate
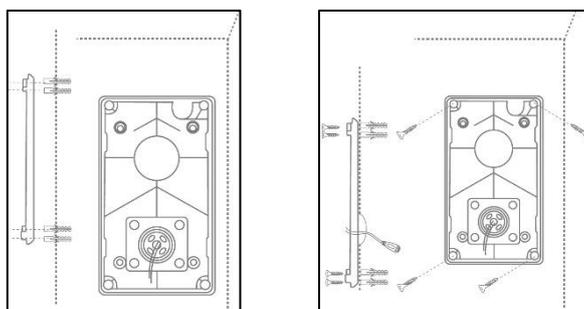
First, separate the mounting plate from the door station. Place the mounting plate in the desired installation location, and mark and drill the required holes. For the best field of view, we recommend an installation height of at least 1.3 m (4.25 ft). Insert the screw anchors provided. Next, run the existing or replacement cabling through the ring opening on the mounting plate. We recommend you use the rubber ring provided for better protection against water and other fluids. Perforate the ring at the specified points in order to run the cable through, and place the ring in the ring-shaped opening in the mounting panel. Then use the screws provided to fix the mounting plate in place.

4.4.2. Preparation
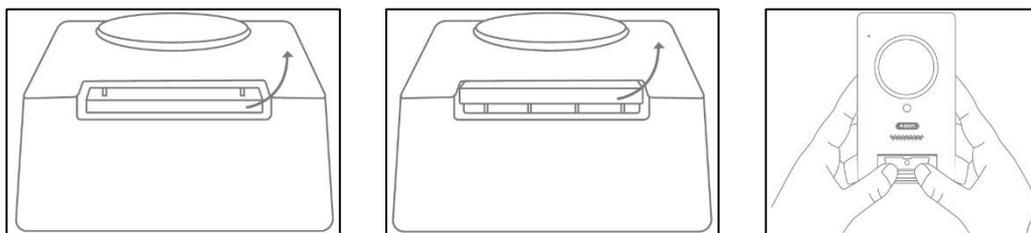
When shipped from the factory, the door station is connected to the call button cover, the call button pressure plate and the cover. To continue installation, first remove the call button cover, then the call button pressure plate. To remove the cover, exert a little pressure on the call button area, which should now be easily accessible, and pull the cover upwards and away from the door station

4.4.3. Cabling
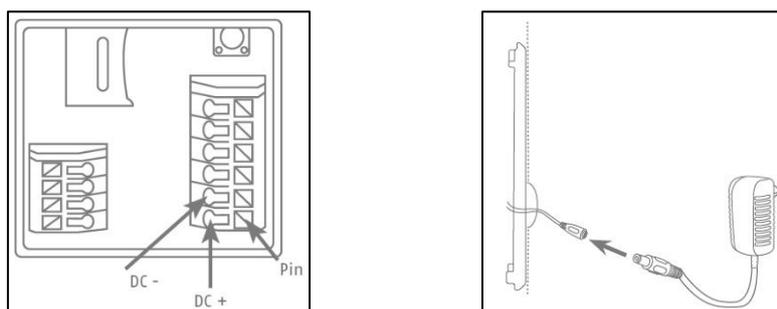
Should you wish to use the intercom with the accessories provided, connect the power supply by connecting the two wires from the mains power cable to the connector block. Connect the red wire to DC+ and the black wire to DC- by pressing down the relevant pin and inserting the cable. Finally, connect the power supply unit provided to the power supply cable.

If you wish to use cabling from an existing doorbell, or if you want to connect the intercom to an additional actuator (e.g. a door opener) or to an LAN network, use the wiring diagrams below to guide you.

Establishing a power supply using existing cabling
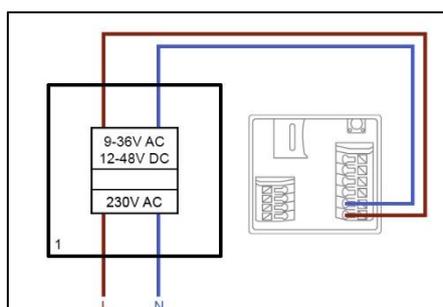
In order to supply power via existing cabling, you will need to have at least one pair of wires available. These might come from an additional power supply unit or from the bell transformer (1). Use an ammeter to check whether there is sufficient voltage available, and connect the wires to the connection block V-/V+. When working with DC voltage, please observe the correct polarity.

Please note that the intercom requires a power supply of 4.8 W to operate reliably. Accordingly, the existing power supply unit or bell transformer that are being used must be able to deliver a certain current (Ampere). This is independent from the type of voltage (alternating current or direct current). Different voltage thresholds can be found in a table with the required current.

Voltage	9 V	12 V	36 V	48 V
Current	0.53 A	0.4 A	0.13 A	0.1 A

Connecting an external doorbell and/or an actuator (e.g. door opener)
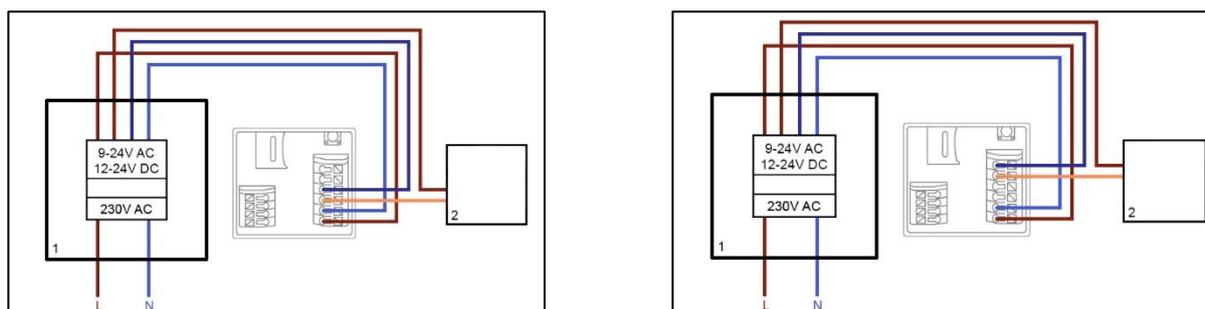
To connect an existing doorbell or actuator via existing cabling you will need to have at least two pairs of wires available. These might come from an additional power supply unit or from the bell transformer (1). Use an ammeter to check whether there is sufficient voltage for the power supply.

⚠	**Important!** Be careful not to exceed the maximum voltage for the relay

Connect the first pair of wires to the connector block V-/V+. When working with DC voltage, please observe the correct polarity.

Connect one of the second pair of wires to the doorbell and/or actuator and the other to the connector block (C1/B1). Connect a separate wire to the doorbell and/or actuator and the connector block (C2/B2).

⚠	**Safety notice on use of a door opener** The relay (B2/B1) is a simple potential-free relay. It can be triggered manually by pulling off the intercom and connecting the wires manually. We therefore advise you not to use this relay for a door opener connected to the outside doors of your home. Should you still wish to connect it, please ensure that your outside doors are locked whenever you leave the house.

Connecting to an LAN network

In order to connect the intercom with a network cable, use either the network connector cable provided, an existing cable, or another free network cable. Connect the cable to the network connector block according to the colour-coding below.

Connector block	Colour – network connection cable	Colour – Cat 5e network cable
TD-	Green	Green
TD+	Red	Green / white
RD-	Black	Orange
RD+	Orange	Orange / white

4.4.4. Adjustable lens

The door station's lens can be adjusted on the back by up to 7.5% vertically and 2.5% horizontally. To adjust the lens, loosen the screw using the triangle screwdriver provided. We recommend you first connect your intercom to the App2Cam Plus on your network before final installation in order to ensure it is perfectly positioned. Fix the position of the lens by tightening the screw on the rear of the bracket using the triangle screwdriver.

4.4.5. Final installation
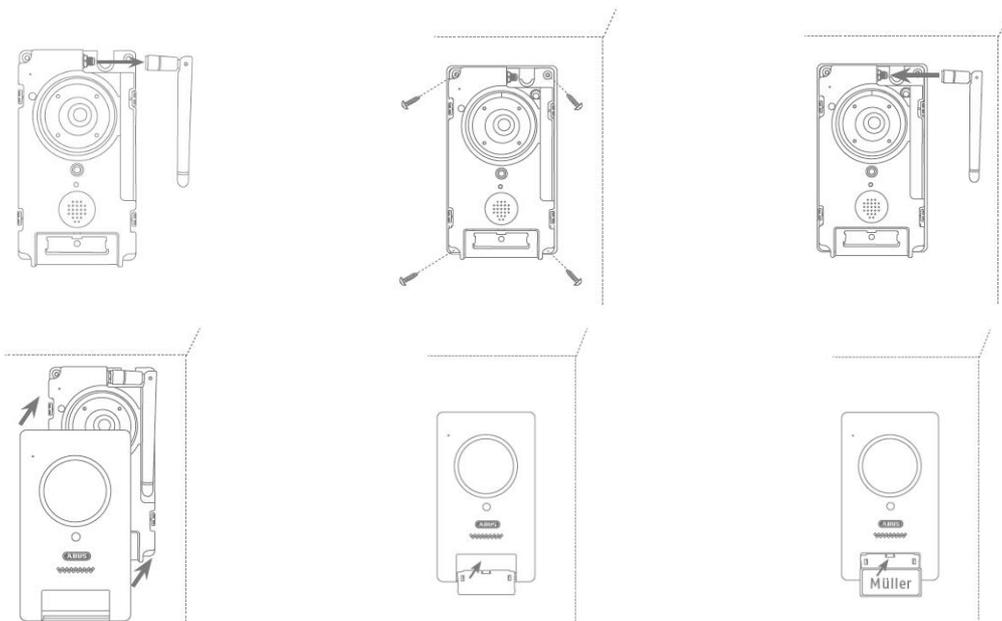
To complete installation, unscrew the aerial from the door station and mount the door station on the mounting plate using the triangle screwdriver and the four triangular screws provided. Screw the aerial back on to the door station and affix the cover to the door station. Finally, replace the call button pressure plate and the doorbell cover.

4.5. PPIC36520
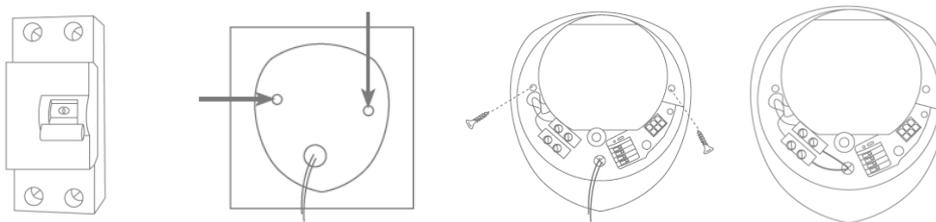
	IMPORTANT!
⚡	Electrical wires must be disconnected from the power supply during installation. Therefore, the power should firstly be turned off and then tested that there is no voltage with a circuit tester. The installation of the device involves works on the mains power supply. This is why it must be carried out by a specialist according to national installation regulations and connection requirements.

Mark the required drill holes with the supplied drilling template and drill the holes. Secure the mount using the screws and wall plugs included. Feed the existing conductor through the respective holes by perforating the rubber sealing. Connect the live conductor and the neutral conductor with the existing lustre terminal. For a simplified installation, take the lustre terminal out from its bracket.

L – live conductor (mostly black or brown)

N – neutral conductor (mostly blue)
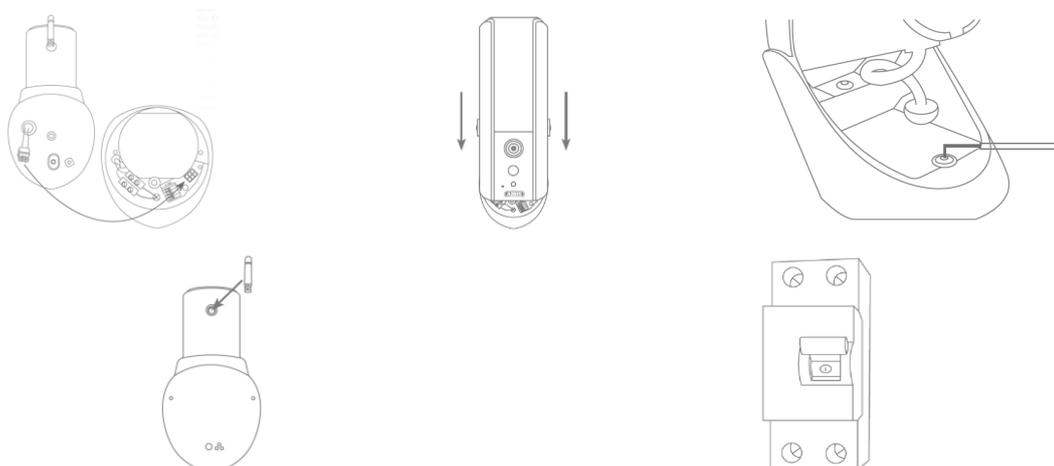
Connect the camera connection cable to the camera connector block. After, insert the camera into the bracket. Mount the camera onto the bracket by using the Allen key provided. Mount the antenna to the camera. Turn on the power to the camera. The camera will be ready for further set-up when the power LED light stays lit and the status LED flashes quickly twice and then once for longer.

Connecting to an LAN network

Connector block	Colour – Cat 5e network cable
1	Green / white
2	Green
3	Orange / white
6	Orange

5. App2Cam Plus: First access

5.1. Download app

Download the 'App2Cam Plus' app from the Google Play Store or Apple App Store before your initial access.

App
- App2Cam Plus-

5.2. Setting up the camera

Connect the camera to the power to begin set-up. If you would like to connect the camera to your home network (router) using the network cable, attach the network cable to the camera before connecting the camera to the power.

The camera will be ready for set-up after approx. 60 seconds.

5.2.1. Wi-Fi set-up (Android)
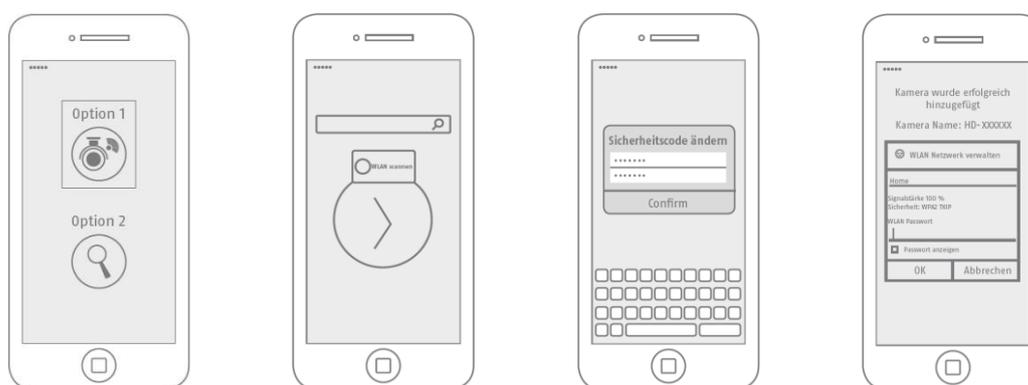
Open the app and select option 1 to set up the camera on your Wi-Fi network.

The app will automatically search for the camera's Wi-Fi access point. If multiple cameras are available at the same time during set-up, you will be shown a list of cameras. Select the required camera and press the arrow key to continue with installation.

Before connecting the camera to the Wi-Fi, the app prompts you to change the security code on the camera, which is required to integrate the camera. Enter a security code and confirm it.

	Note
	This security code should consist of at least eight characters and meet at least two or three of the following criteria:
	• Uppercase letters (A–Z)
	• Lowercase letters (a–z)
	• Numbers (0–9)
	Special characters are not allowed. The camera's standard security code '123456' is not permitted.

Select your home network Wi-Fi from the list of Wi-Fi networks, then enter the Wi-Fi password for your home network. Press 'OK' to set up the connection.

The camera takes approx. 90 seconds to set up a connection with the Wi-Fi network. If the camera does not connect despite this set-up, reset the camera using the Reset button and repeat the above steps.

5.2.2. Wi-Fi set-up (iOS)
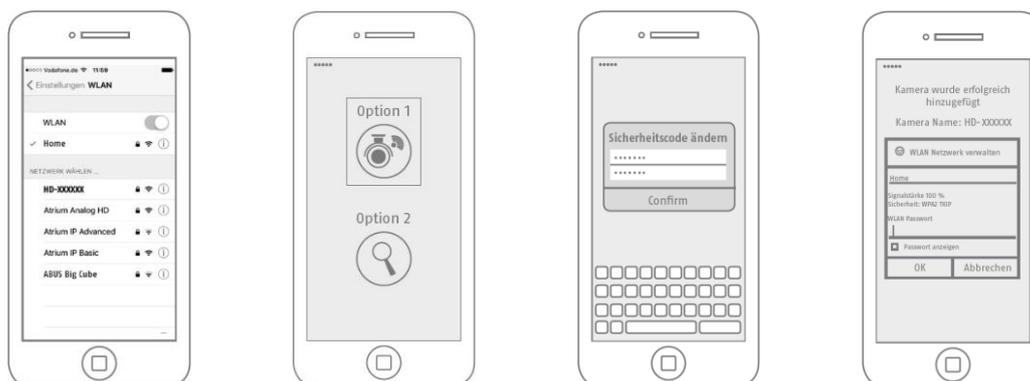
Before opening the app, go to your device's network settings and connect to your camera's Wi-Fi access point. This will have the name 'HD-*XXXXXX*'. The password for the camera's Wi-Fi access point: '12345678'.

Once the connection is set up, open the app and select option 1 to set up the camera on your Wi-Fi network.

Before connecting the camera to the Wi-Fi, the app prompts you to change the security code on the camera, which is required to integrate the camera. Enter a security code and confirm it.

⚠️	**Note**
	This security code should consist of at least eight characters and meet at least two or three of the following criteria:
	• Uppercase letters (A–Z)
	• Lowercase letters (a–z)
	• Numbers (0–9)
	Special characters are not allowed. The camera's standard security code '123456' is not permitted.

Select your home network Wi-Fi from the list of Wi-Fi networks, then enter the Wi-Fi password for your home network. Press 'OK' to set up the connection.

The camera takes approx. 90 seconds to set up a connection with the Wi-Fi network. If the camera does not connect despite this set-up, reset the camera using the Reset button and repeat the above steps.

5.2.3. LAN set-up/Adding a camera that is already set-up

To set up a camera on a LAN network, use the network cable to connect the camera to your home network (router) before connecting the camera to the power.
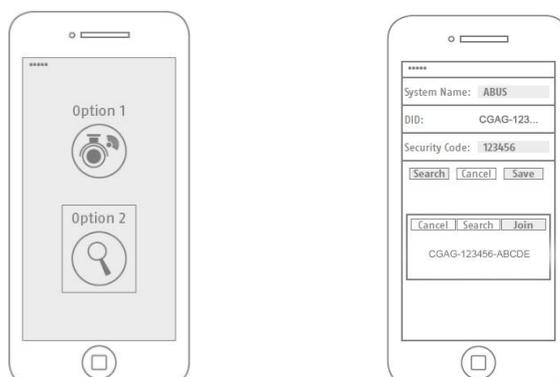
Open the app and select option 2 to set up the camera on your LAN network.

Enter a name for your camera.

Use the 'Search' button to search for the camera on the network or enter the camera's DID manually.

You now need to enter the camera's standard security code, '123456'. If the camera has already been set up, enter the security code previously assigned to the camera.

Press the 'Save' button to add the camera.

	Note
⚠️	If the camera has been added with the standard security code, '123456', this has to be changed to the camera's live cast the first time it is accessed.

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

6. App2Cam Plus: Compatibility

The App2Cam Plus is compatible with the following devices:

- PPIC32020 / PPIC32520 / PPIC34520
- PPIC35520
- TVAC19000A-B / TVAC19100A-B

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

7. App2Cam Plus: Overview

	Note
ℹ️	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 flagged up in the respective items or as an addendum – (iOS only) or (Android only).

In the overview, you can click on one of the preview images to open the camera's live cast.

There are other functions you can use in the menu bar, camera bar and in the info/app setting.
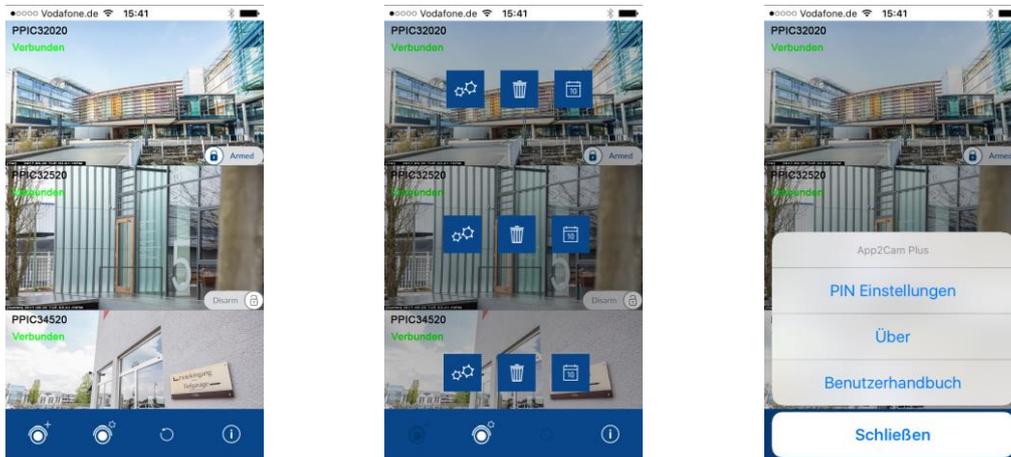
7.1. Menu bar

	Set up new camera/Add camera
	Enable/disable camera bar
	Start new attempt to connect cameras not yet connected
	Open info/app settings

7.2. Camera bar

	⚙	🗑	📅

⚙	**Open camera settings**
🗑	**Delete camera**
📅	**Open event list**

7.3. Info/app settings

PIN settings	**App PIN** Menu in which you can assign an app pin. If enabled and assigned, this will be requested every time you open the app.
About	**About** This section provides information about the current version of the app, data protection guidelines and API version.
User handbook	**Instructions** You can call up the product page for the selected camera here. You can download the instructions from the download sector.
Video acceleration (Android only)	**Enable/disable hardware decoding** Hardware decoding is available for use on Android. Some Android devices have special hardware features which optimise the decoding of video streams. On older products or older Android devices, this may impact negatively on performance.

8. App2Cam Plus: Live view

In the live cast, a variety of different functions are available to you, depending on the model of camera. A full screen view, without functions, is shown in landscape mode.
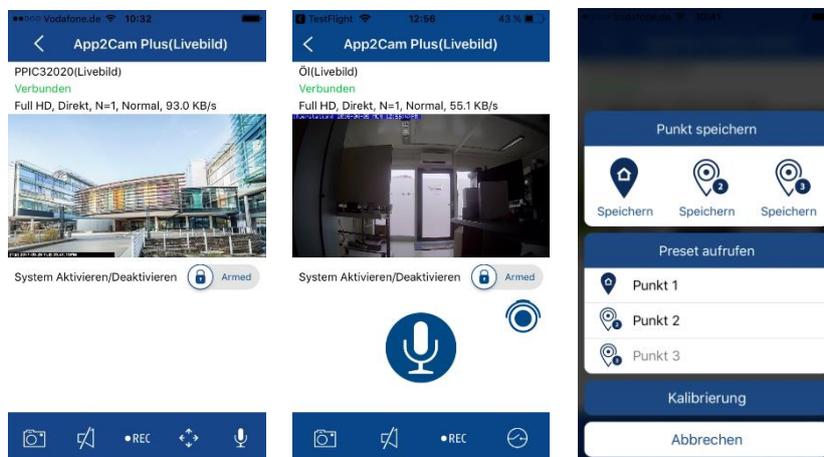
8.1. Live cast functions

Icon	Description
📷	**Create capture**
🔊 / 🔇	**Enable/disable audio output**
●REC	**Start manual recording**
✛	**Open pan/tilt menu**
🎤	**Activate two-way communication**
◎ ⊘	**PPIC35520 only:** **stop/play picture**
💡	**PPIC36520 only:** **Switch on light manually, switch on auto mode, switch off light manually**
📢	**PPIC36520 only:** **Enable/disarm siren**

8.2. Pan/tilt function

For pan/tilt cameras, you can either use a 'swipe' command to control the camera or long-press and release one point to bring the camera to that point.

Pan/tilt menu

⌂	**Save or retrieve point 1 / starting point**
⊙₂	**Save or call up point 2**
⊙₃	**Save or retrieve point 3**
Calibration	**Camera calibrates itself once**
Cancel	**Cancel**

8.3. Active/inactive function

Click the 'Arm' or 'Disarm' button to activate or deactivate the camera. You always have to enter the admin password.

🔒 Armed	**Camera is switched on** In its 'armed' state, the camera records when motion is detected and sends notifications (push)
Disarm 🔓	**Camera is switched off** In its 'disarmed' state, the camera takes no further action when motion is detected.
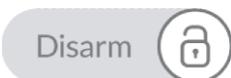
8.4. Automatic adjustment of video quality

If the quality of the connection to your camera gets worse and the video quality is set too high for the existing connection, the app will suggest automatically that the video quality be adjusted. Pressing the 'Adjust video quality' button will temporarily adjust the camera stream video quality to the quality of the current connection.

Zu geringe Bandbreite, um Video zu streamen.
Sie können die Videoqualität anpassen.

Videoqualität anpassen

8.5. Stream indicators

Full HD, Direkt, N=1, Normal, 122.7 KB/s	
CIF **VGA** **HD** **Full HD**	**Display of the current stream's 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 end device can get the data from the server. This causes a delay to the stream.
Low **Normal** **Good**	**Display of the current assessment of the connection**
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' (router) are installed between the end device and the internet.

9. App2Cam Plus: Event list/playback

9.1. Event list

In this event list, you can set a start and end time. With this filter, the app will show you all recorded events in this period.
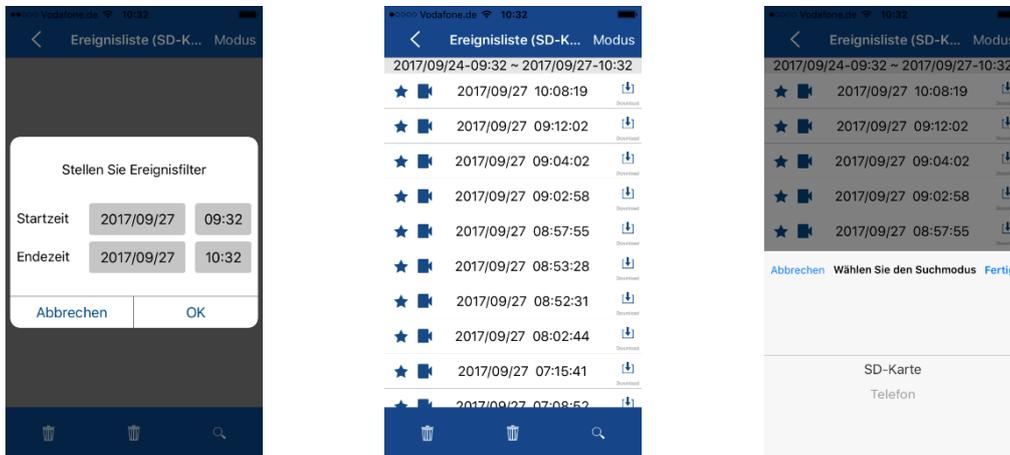
9.1.1. Event list functions

	Create capture
	Enable/disable audio output
	Start manual recording

9.1.2. Mode (iOS only)

By clicking on the 'Mode' button, you can select whether to view the files on the SD card in the set period or to view the files already downloaded to your end device in the set period.

9.2. Playback

In the playback of results, a variety of different functions are available to you depending on the model of camera. A full screen view, without functions, is shown in landscape mode.

The results usually need a short buffer time until the event can be played back.
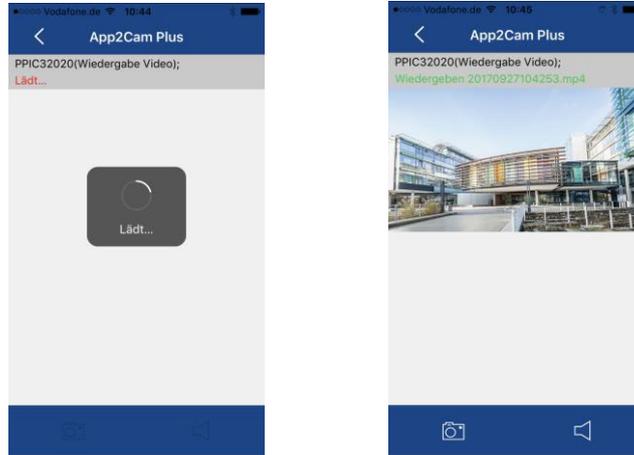
	Note
⚠️	During the playback of events, the event is automatically downloaded to your end device. For this reason, we recommend using Wi-Fi for the playback as much as possible to minimise the amount of data consumed.

9.2.1. Playback functions

📷	**Create capture**
🔈 🔇	**Enable/disable audio output**

10. Camera settings

CGAG-001536-STVMV
CGAG-014756-NXXTC
CGAG-023684-RXFLJ
CGAG-015210-PFZXS
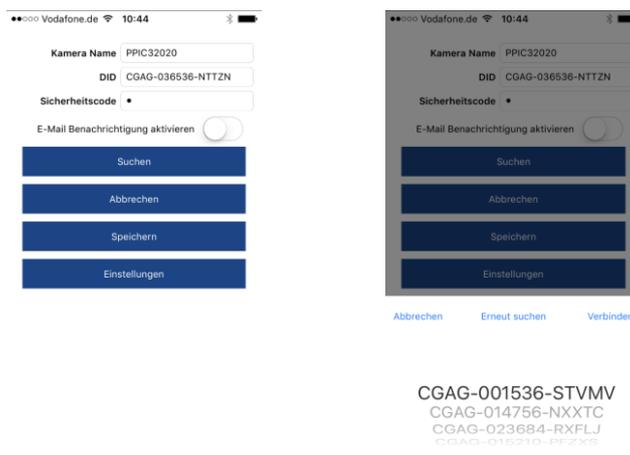
10.1. Login details

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

Camera name: Change the camera name here.

DID: Change the camera's DID manually.

Security code: You can change the camera's security code here.

You can use the 'Search' button to automatically replace the camera's DID with another camera found.
Use the 'Cancel' button to discard the changes or save them with the 'Save' button.

10.2. Email notification

Email notification: If email was set up in the camera's advanced settings, you can now activate this here.

10.3. Open advanced settings

The 'Settings' button opens the advanced settings.

Use the standard password, '123456', the first time. The app then prompts you to change the admin password.

⚠️	**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 cast and notifications from the cameras while protecting the advanced settings.

10.4. Automatic log-in

When entering the admin password, you can use the 'Automatic log-in' button to save the admin password on your end device, meaning this does not need to be entered on your end device the next time you access the advanced settings. This does not apply when you are accessing the system from other end devices.

11. Advanced camera settings
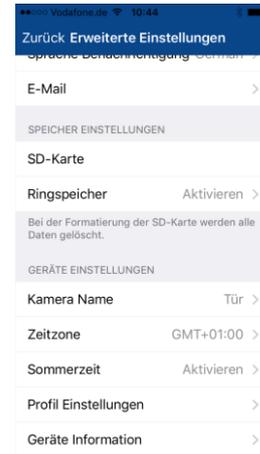
Note
Although the individual items have a different layout to in Android, the functions are identical and available on both platforms.

11.1. Security settings

Device security code: You can change the camera's security code here.
Admin password: You can change the camera's admin password here.
Disable automatic log-in: If automatic log-in has been enabled, you can disable it here.

11.2. Video settings

Video quality: **Standard quality / better quality / best quality**

You can change the camera's preset video quality to VGA, HD or Full HD here. The value set here has no effect on the recording, which is always made in Full HD.

Environment mode: **Outdoor / Indoor 50 Hz / Indoor 60 Hz**

Change the environment mode here to adjust the camera to the light conditions.

For use indoors, adjust the frequency (50 Hz or 60 Hz) in line with the frequency on the mains network used.

In European countries, the frequency is 50 Hz.

Image improvement: **Levels 1–5**

You can change the light enhancement here. A higher level will lighten the image more, a lower level less.

Display orientation: **Normal / Tilt / Reverse / Flip & Reverse**

Change the camera's display orientation here.

Time stamp: Change the position of the time stamp by dragging and dropping the time stamp into the desired corner.

Change the colour of the time stamp by clicking on the desired colour.

Remove the time stamp by clicking the image once.

Changes will only take effect if saved. The 'Reload' button refreshes the preview.

11.3. Component settings (PPIC35520 only)

Component list: Adding / delete / editing components.

Programmed components display.

11.4. Sound settings (PPIC35520 / PPIC36520 only)

Ringtone (PPIC35520 only)

Melody track :	**Track 1–5**
	Change the melody the intercom plays when the call button is pressed.
Melody volume:	**Level 1–3**
	Change the melody volume here
Melody activated:	Enable or disable melody playback at the intercom.
Loudspeaker volume:	**Level 1–4**
	You can change the volume of the loudspeaker during two-way communications here

Siren (PPIC36520 only)

Siren volume:	**5 (max) / 4 / 3 / 2 / 1 (min) / mute**
	Change the volume of the integrated siren here.
Siren duration:	**15 / 30 / 60 seconds**
	Change the duration of the integrated siren.

11.5. Relay settings (PPIC35520 only)

External door bell:	**Silent / 1 sec / 3 sec / 5 sec**
	Here, you can select the switching time for the relay switch connected to the external doorbell. Alternatively, you can disable it if you wish.
Relay:	**1 sec / 3 sec / 5 sec**
	Here, you can change the switching time for the actuator relay

11.6. Network settings

Wi-Fi:	Select your home Wi-Fi network from the list of Wi-Fi networks. Enter the password for your Wi-Fi network and confirm with 'OK'.
	The camera then sets up a new connection. If you have used the network cable to connect your camera to your router, unplug this during the restart. If the camera cannot connect after approx. 90 seconds, restart the camera as your first course of action. If the camera still cannot connect, reconnect the camera with the network cable again and check the settings.

11.7. Motion detection settings

Detection mode: **Off / Software / PIR**

You can change the detection mode here. If it is switched off, no recording or notification will take place if motion is detected.

The choice of PIR is only available if your camera has an integrated PIR sensor.

⚠️	**Information about the use of software detection** The camera will detect differences in light between the individual pixels if software detection is in use. Please note that accidental deployment may occur if the camera is orientated towards a scene with fluctuations in light as standard (e.g. sunlight through a window).
⚠️	**Information about the use of PIR detection** The camera detects differences in temperature using the integrated passive infrared sensor (PIR). Please note that accidental deployment may occur if the camera is orientated towards a scene with fluctuations in temperature as standard (e.g. windows, radiators, larger metal objects).

Sensitivity: You can change the sensitivity of the software detection for day and night here. A high value will lead to detection in the event of minor changes, and a low value will trigger only in the event of more major changes to the camera image.

Motion screen: If you have enabled software detection, you can exclude individual image sectors from the detection. Click the desired image sectors to do this. If the sector is black, no motion will be detected here.

11.8. Notification settings

Notification: You can enable or disable push notifications here.

Language notification: You can change the language of the push notifications here.

Email: You can enter the email sender and receiver data here to set up email notification.

You can also enable email notification in the camera settings for the respective camera (see section)

11.9. Storage settings

SD card: Format the SD card here.

Circular buffer: You can enable or disable the circular buffer here.

⚠️	**Note** If the circular buffer is active, the camera transfers the earliest files when the SD card is full. If the circular buffer is deactivated, the camera stops recording once the SD card is full.

11.10. Device settings

Camera name:	You can change the camera's name here.
	This is used on the time stamp and notifications.
Time zone:	You can adjust the time zone of the camera here.
Summer time:	You can enable or disable summer time.
	If summer time is enabled, the time is put forward by one full hour.
Profile settings:	You can save the camera's profile settings on your end device. You can then load the settings on to other cameras, or re-load them following a reset.
Device information:	Information about the current firmware version / MCU version / storage capacity and free storage space on the SD card.
Update firmware:	If there is new firmware available for your camera, this additional menu item will appear in the advanced settings.

12. Updating firmware:

There are two different ways to update your camera's firmware. Please ensure that your camera settings are retained for both methods so that you don't need to reconfigure your camera.

⚠	Please note that a MicroSD card is required for both variants.
⚠	It takes approx. three to five minutes to update your camera. Do not disconnect your camera from the power during this process.

12.1. Update via server

The camera checks whether new firmware is available on the firmware server every six hours. Insert a MicroSD card into your camera so that it can download the firmware automatically. Once the camera has downloaded the firmware, a message will appear the next time you access the advanced settings so that the update can then begin.

12.2. Update manually

Alternatively, you can download the latest firmware from the 'Downloads' tab on the product website: www.abus.com/product/*article number*. (Example: www.abus.com/product/PPIC32020)

Copy both files (rootfs-cpio_master.squashfs.img, rootfs-cpio_master.squashfs.md5) on to an empty MicroSD card and insert the card into your camera. To start the update, restart your camera manually by briefly disconnecting it from the power.

ⓘ	Should you wish to update other cameras, delete the files on the MicroSD card and copy them on to the card again.

12.3. Current firmware version

Some camera functionality only works if used together with the latest firmware version. Make sure your camera is updated at all times.

The latest firmware versions are available on relevant product page: www.abus.com/product/*article number*