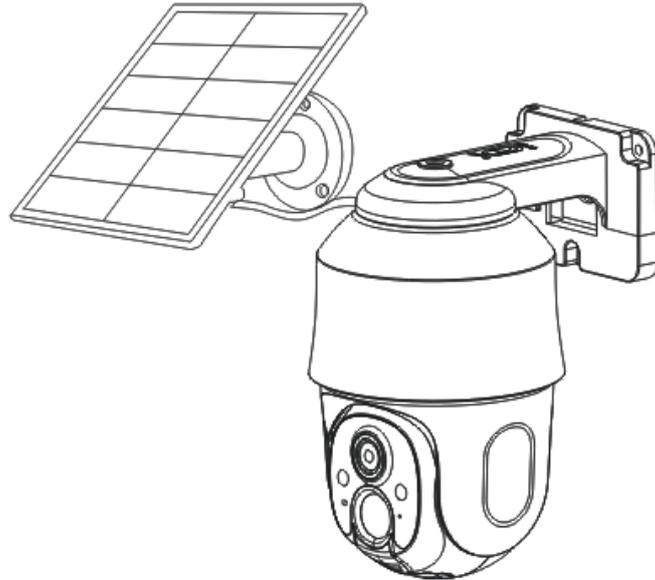


Technaxx® * User Manual

4G PT Dome TX-290 with solar panel

usable everywhere through mobile internet and rechargeable battery

Before using the appliance for the first time, please read the instructions for use and safety information carefully.



This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capacities, or by persons lacking in experience or knowledge, unless they are supervised or instructed on the use of this device by a person responsible for their safety. Children should be supervised to ensure they do not play with this device.

Keep this user manual for future reference or product sharing carefully. Do the same with the original accessories for this product. In case of warranty, please contact the dealer or the store where you bought this product.

Enjoy your product. * Share your experience and opinion on one of the well-known internet portals.

Specifications are subject to change without notice - please be sure to use the latest manual available on the manufacturer's website.

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Hints

● Only use the product for purposes due to its intended function ● Do not damage the product. Following cases may damage the product: Incorrect voltage, accidents (including liquid or moisture), misuse or abuse of the product, faulty or improper installation, mains supply problems including power spikes or lightning damage, infestation by insects, tampering or

modification of the product by persons other than authorized service personnel, exposure to abnormally corrosive materials, insertion of foreign objects into the unit, used with accessories not preapproved. ● Refer to and heed all warnings and precautions in the user manual.

Safety instructions

- The product is intended for the recording of digital photos and videos. It is intended for use by private individuals.
- Never touch the product with wet or damp hands.
- The product can only be operated with the voltage described on the interior panel.
- Do not place the product on an unstable surface. The unit could be damaged or persons could be injured. Any attachments should be made only in accordance with the manufacturer's instructions or obtained from the manufacturer.
- The cable is sheathed and insulates the current. Do not place any objects on the cable, as this could cause the protective function to be lost. Avoid placing excessive stress on the cable, especially at sockets and plugs.
- If you want to pull the plug out of the socket, always pull on the plug and not on the cable. The cable could otherwise break.
- Do not overload wall outlets, extension cords, or other wiring as this may result in fire or electric shock.
- Do not insert any objects into the openings of the unit, as current flows in some places and contact may cause fire or electric shock.
- Unplug the power cord from the power outlet for cleaning.
- Do not use liquid cleaners or cleaning sprays. The product may only be cleaned with a damp cloth.
- Do not connect any additional devices that are not recommended by the manufacturer.
- Do not use the product in direct sunlight or places where the temperature may exceed 50°C for a long time.

Safety rules for rechargeable batteries

The product uses rechargeable batteries and can go wherever you need them. But ALL batteries can EXPLODE, CATCH FIRE, and CAUSE BURNS if disassembled, punctured, cut, crushed, short-circuited, incinerated, or exposed to water, fire, or high temperatures, so you must handle them with care.

To use the rechargeable batteries safely, follow these guidelines:

- ALWAYS store spare batteries in a cool, dry, ventilated area.

- ALWAYS make sure that the battery compartment is clean and free of any debris before inserting new batteries.
- ALWAYS make sure the battery contacts are aligned.
- ALWAYS keep all batteries away from children.
- ALWAYS follow local waste and recycling laws when throwing used batteries away.
- ALWAYS use the product to charge the rechargeable batteries.
- NEVER place the rechargeable batteries in a pocket, purse, or other receptacle, especially those containing metal objects.
- NEVER store the rechargeable batteries with hazardous or combustible materials.
- NEVER let the rechargeable battery or battery compartment get wet - before, during, or after installation. (Remember, your product itself is weatherproof, but its interior battery compartment and batteries aren't.)
- NEVER disassemble, cut, crush, puncture, short-circuit, dispose of batteries in fire or water, or expose the rechargeable battery to temperatures above 50°C.

Warnings

- Do not disassemble the product, it may result in short-circuit or damage.
- Battery life-span will decrease with usage. Charge the battery at least once every month to preserve battery in the event the product is not used for long time.
- Battery warning: Improper use of the battery may cause fire or chemical burns. The battery may explode in case of damage.
- Do not modify, repair or remove without professional guidance.
- Do not use corrosive or volatile liquid for cleaning.
- Do not drop or shake the device, it may break internal circuit boards or mechanics.
- Keep the device away from little children.

Notes on data protection

- Personal rights: When setting up the camera, be sure to respect the personal rights of the people around you. Under no circumstances may you set up the camera in such a way that people who happen to enter the recording area of the camera are recorded in such a way that they can be identified in any way! This also applies to the recognizable recording of vehicle license plates.
- Do not monitor public areas: Observe all national laws and regulations regarding the legality of recording in public areas (streets, sidewalks, parking lots, etc.) by private persons. Refrain from using the camera in such an environment that is in defiance of the law.

- No workplace monitoring: Observe all national laws and regulations regarding the legality of recording at the workplace by an individual. Refrain from using the camera in the workplace in a way that is in defiance of the law. Under no circumstances may you use the camera to monitor your use the camera for employee monitoring! Surveillance in the workplace is subject to particularly strict conditions in Germany.

- Delete recordings: Photos or videos of recorded people whose consent you do not have or that have not been informed, must be deleted immediately.

- Property protection: If using the camera for property surveillance or to investigate administrative offenses or crimes, ensure that only a perpetrator and not, for example, uninvolved persons are recorded.

- Handover to investigating authorities: Only if a misdemeanor offence has been committed, you may only hand over the recordings to the investigating and only to them. The investigating authorities will then decide on the further use of the recordings.

Note: Different laws may apply depending on the federal state. Seek professional legal advice in case of doubt.

Disclaimer

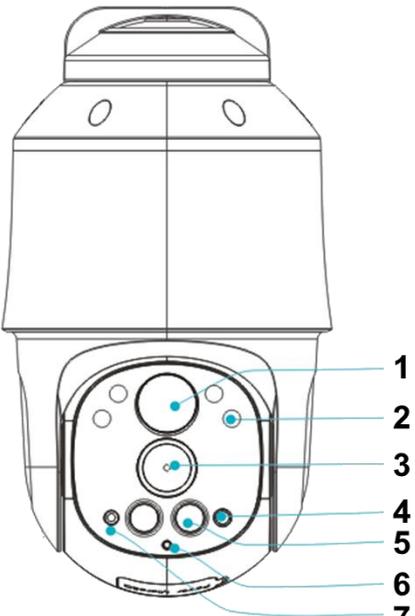
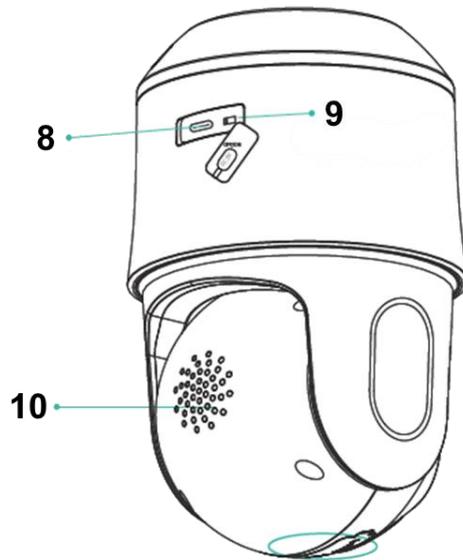
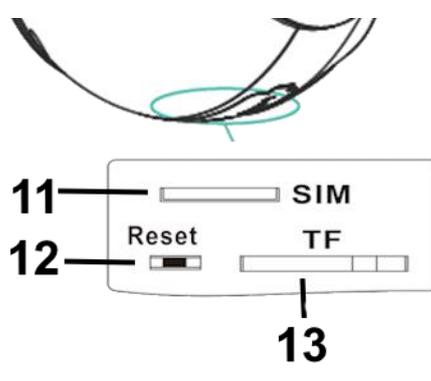
- In no event shall Technaxx Deutschland be liable for any direct, indirect punitive, incidental, special consequential damage, to property or life, improper storage, whatsoever arising out of or connected with the use or misuse of their products.
- This device is NOT intended to be used for illegal surveillance purposes and shall not be used in any form as evidence for claim purpose.
- Error messages may appear depending on the environment it is used in.
- Technaxx Deutschland is not liable/responsible for non- recording of events, missing files, etc.

Features

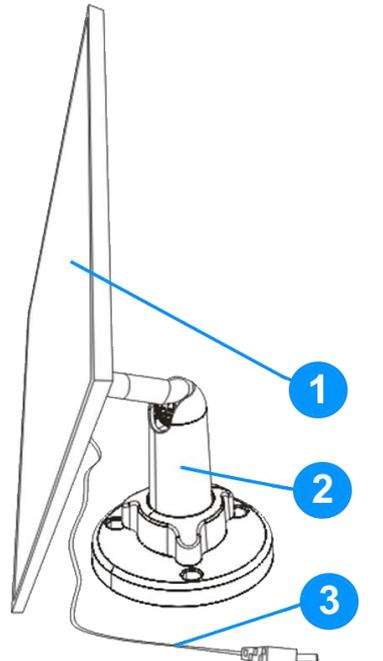
- Supports 4G, LTE mobile network connection via Nano SIM card
- Monitor house and garden without power
- Permanent self-sufficient operation thanks to permanent solar charging (assuming sunlight)
- Battery operated, large capacity with built-in rechargeable batteries (working time up to 45days)
- Viewing angle 83° horizontal, 45° vertical
- Rotation (355° horizontal & 90° vertical)
- FullHD video resolution 2560 x 1440 with max. 15fps
- Brilliant 1/2.8" CMOS color sensor (4MP)
- PIR motion detection up to ~10m with automatically recording
- 4x IR LED red glow (850nm) up to ~20m for optimal night vision
- 2x white LED (1W, 200lm, 4500K°) ~15m for colored vision at night
- Waterproof & dustproof IP65
- Free "Security Premium" APP for worldwide access [iOS & Android]
- Download of recordings via APP on to your Smartphone
- Alarm function (push message) on your Smartphone
- Built-in microphone & speaker for 2-way communication
- Supports MicroSD(HC/XC) cards up to 128GB (Class 10) for local recording

Product overview

Camera

Front		Rear		Bottom	
					
1	PIR sensor	6	Status LED / Charging LED	11	SIM card slot
2	IR LED (4x 850nm)	7	Microphone	12	Reset button
3	Lens	8	Charging port (USB-C)	13	MicroSD card slot
4	Light sensor	9	Power switch (On/Off)		
5	White LED (2x 4500K°)	10	Speaker		

Solar panel

	1	Solar panel	Adjust the solar panel towards the sun to get better power output.
	2	Bracket	Mount the solar panel with the bracket and screws.
	3	Cable	The length is 2.8 meters and the connector is USB-C.

LED instructions

Status LED		
1	Green LED flashes for 2s and turns off	Powered on and connecting to the network
2	Green + Red LED are always on (mostly seems red)	Remote access video live stream
3	Green always on	Remote access App opened
4	Green LED turns on (for 2s)	Motion detection triggered (no green LED when continuous recording is enabled)
5	Red LED flashing continuously	No connection to the network
6	Green LED flashes continuously	Upgrading
7	Green LED flashes continuously and slowly	Charging
8	LED stops flashing	Full charged
9	Red LED flashes 3 times quickly	Power off
10	Red LED is always on	Low battery
11	The LEDs are always off	In standby

Button operation		
1	Power switch	On / Off
2	Press and hold the reset button in the power ON state for 10seconds	Reset

General information

Built in battery

Note: Charge the battery when the camera is in a low power status.

Battery type: 21700

Battery capacity: 9600mAh

Charging

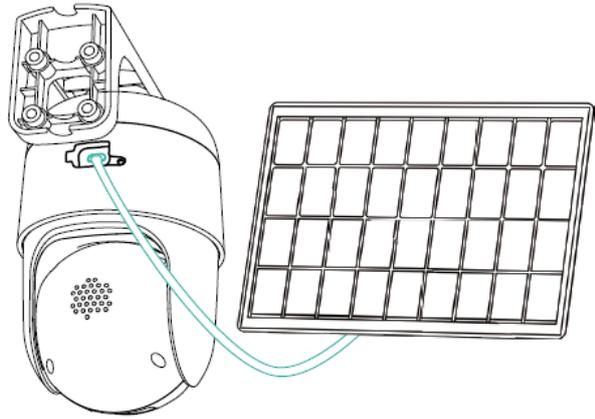
During use, if it is found that the APP pushes low battery message or the camera has a low battery warning indicator, you need to charge the camera, as shown in the figure. There are two methods to charge the batteries in the camera.

Note: First charging takes about 10h. For further information refer to the table under chapter “Battery life”.

Power adapter	
1. Connect the power supply to the camera charging port (8), using the included USB charging cable.	
2. Put the USB power adapter* (*not included) DC5V/1.5A into a power outlet.	
3. In ON mode: During charging, the status LED (6) is flashing green slowly.	

Solar panel	
When use the camera outside to extend battery life, the solar panel can be connected to the camera charging port (6).	

The solar panel is 5 Watts with USB-C connector. The maximum output voltage is 5V.



Battery life

Refer to the table below to see the camera's battery life.

Testing Conditions: 5 times wake-up during daytime and 5 times wake-up during nighttime, average wake-up period 20seconds.

Note: Due to different conditions of use, the figures provided are approximations only and you may achieve longer or shorter battery life according to your own method of usage.

The related parameters are approximately estimated as below.

Working Time	
Battery capacity (mAh)	9600
Standby time (sleep mode) (Months)	6
Working time (wake-up mode ^{***}) (Months)	1.5
Continuous working time during the day (Hours)	6.25
Continuous working time during the night @IR LED (Hours)	4
Continuous working time during the night @White LED (Hours)	2.75
Charging Time (with USB power adapter DC5V)	
Full charging time (Hours)	9-10
Charging Time (with solar panel)	
Solar panel max. power (W)	5
Full charging time in winter (Days)	3
Full charging time in summer (Days)	1.5
Average full charging time (Days)	2.25

^{***} with trigger or access camera via App, for example, 10times each day

Nano SIM card

To use the device in the 4G, LTE network, a Nano SIM card is required. The SIM card must have a data plan option booked, recommended at least: 500MB-1GB.

The SIM card needs to have the SIM pin disabled. Therefore insert the SIM card into a Smartphone and disable the SIM pin.

Important: Make sure that the contract/prepaid card you are using supports IP cameras and that the network operator allows the connection to the mobile network.

Info: Some network operators exclude devices like IP cameras from using the mobile network by IMEI fencing.

MicroSD card

Supports MicroSD card for local storage (max. 128GB). To guarantee the normal use of MicroSD card, before insert the MicroSD card, make sure its file system is FAT32 for 4-32GB and exFAT for 64-128GB. Check if there is more than 256MB space available.

For 64-128GB MicroSD cards it might be necessary to format the MicroSD card after inserting and configuration via the App. To work properly, the App must show the following status under device memory: Normal.

IR LED

The device activates the infrared light automatically as soon as low illumination prevails. Therefore the light option in the app needs to be set to infrared. With the IR LEDs shining at night you get black/white images/recordings at night.

White LED

The device activates the white light automatically as soon as low illumination prevails. Therefore the light option in the app needs to be set to color. With the white LEDs shining at night you get colored images/recordings at night.

RESET Button

Using e.g. a paper clip to press and hold the reset button for 3 seconds to reset the device.

Quick operation guide

TX-290 can only be configured by iOS or Android APP!

Charging

1. Open the silicone cover on the side.
2. Slide the power switch to Off position.
3. Plug in the USB cable.
4. At the first time, charge the battery for about 8h with an USB power adapter* DC5V/1.5A (*not included) at home.
5. After the battery once were fully charged, the solar panel can be used for charging as well.

Preparation

1. Slide the power switch to Off position.
2. Open the silicone cover on the bottom.
3. Insert a Nano SIM card* into the SIM card slot for Internet connection (*not included). Insert the Nano SIM card with its contacts facing downwards (to the MicroSD card slot) and the cut off edge on the front left corner.

Note: ● The SIM card needs to have the SIM pin disabled. Therefor insert the SIM card into a Smartphone and disable the SIM pin. ● The SIM card needs a data plan option (recommended at least: 500MB-1GB)

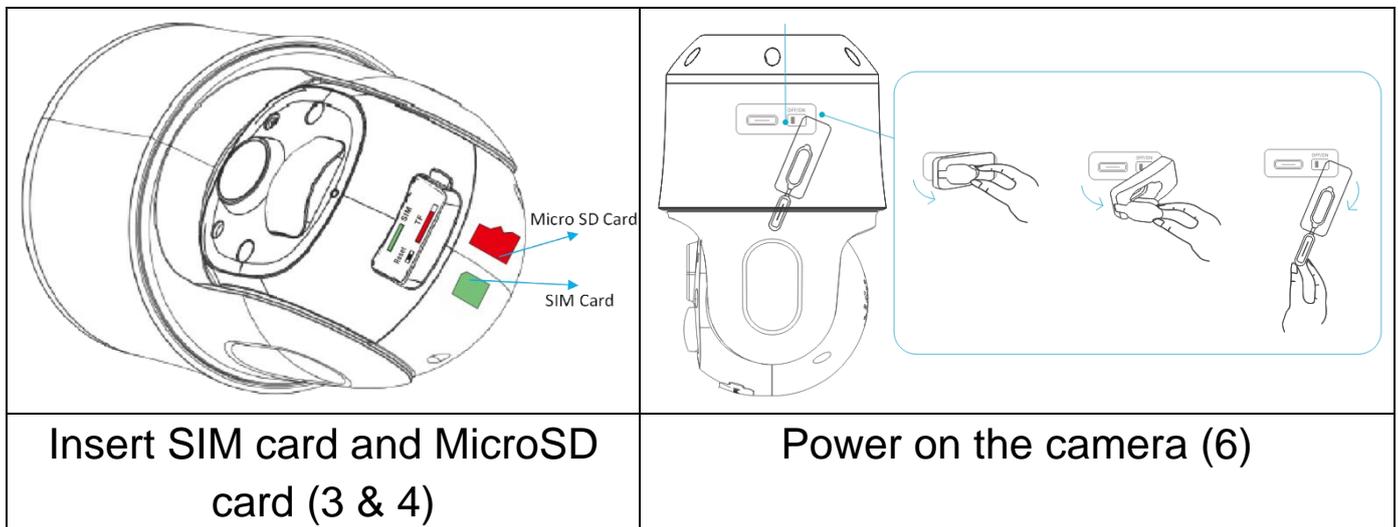
Important: Make sure that the contract/prepaid card you are using supports IP cameras and that the network operator allows the connection to the mobile network.

Info: Some network operators exclude devices like IP cameras from using the mobile network by IMEI fencing.

4. Insert a MicroSD card* into the MicroSD card slot for saving recordings (*not included). Insert the MicroSD card with the contacts facing upwards (to the Nano SIM card slot).

Note: A MicroSD card must be inserted into the camera before it can be operated. Before inserting or removing the MicroSD card, the camera must be in OFF Mode. Failing to do so may cause loss of or damage to the videos already recorded on the MicroSD card.

5. Close the silicon cover on the bottom.



6. Slide the power switch to the ON position, the green status LED is constant on. The prompt voice tells you that “The network is connecting”. If the connection to the Internet was successfully you will hear the prompt “4G Network connection succeeded”

Get App and add camera

→ If you heard the prompt “4G Network connection succeeded”, the connection to the Internet was successful and you can proceed.

→ To download the App Security Premium from the Appstore or the Playstore search for “Technaxx Security Premium” or scan the QR-code below.

[iOS 15.0 or above; Android 12.0 or above (11-2023)]



→ Open the Security Premium App on your device.

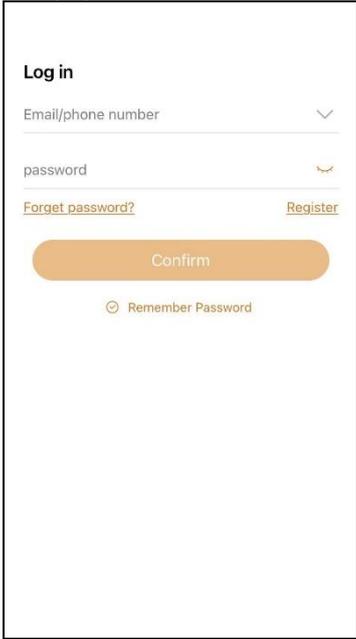
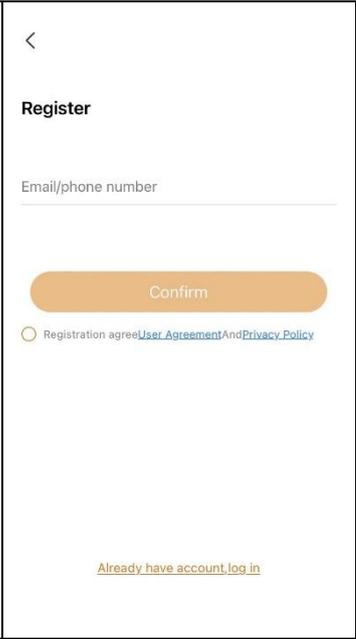
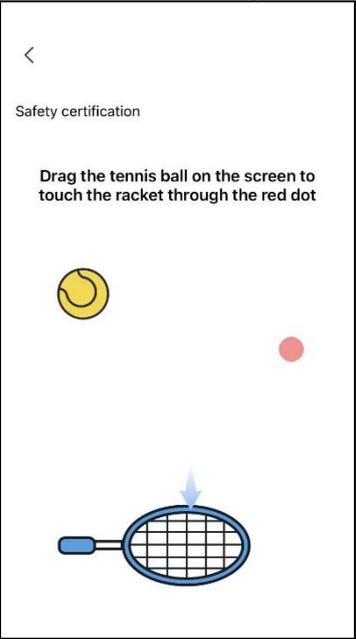
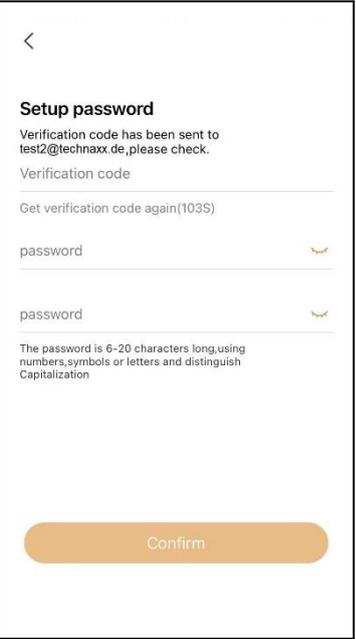
→ Register Account.

(1) On the login interface, click on register, enter the phone number/email, tick the box for data protection and terms of use and confirm.

(2) Follow the security request. Drag the tennis ball on the screen over the red button on to the racket.

(3) Enter the verification code from phone number or email and enter an account password and repeat it in the second column.

(4) Click on Confirm to create an account and login.

			
1	2	3	4

(5) Click “+” on top right corner to add.

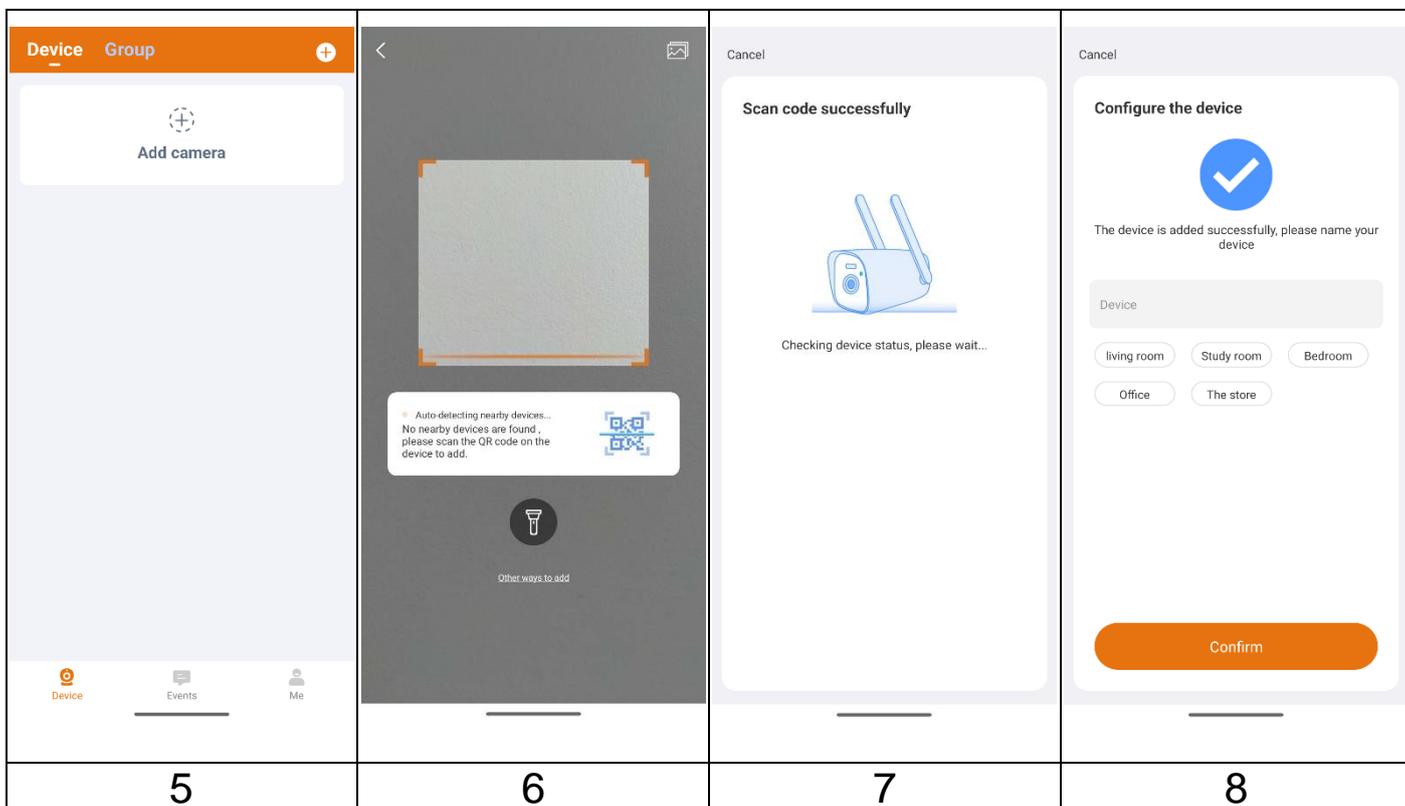
(6) Scan the QR-code on the camera.

(7) Device status is checked and wait until the camera is added successfully.

(8) Change the device name to your needs, e.g. garden.

Press on Confirm.

Important: Change the password after you have added the camera successfully to the Security Premium App. Currently the camera has no password entered!



Signal reception

After setup, the camera uses the cellular network to send notifications to your Security Premium account and to provide you with live view and video playback. Files are saved local on the inserted MicroSD card.

For best results, we recommend placing your camera in a location where the Security Premium App displays at least three bars of mobile network signal strength in the live view. If your camera is in an area with consistently low signal strength (two bars or less), you might experience these problems:

- You are sometimes unable to view your camera live, or the video stream fluctuates.
- You are sometimes unable to watch recorded videos right away.
- Notifications are sometimes delayed.
- Your battery depletes more quickly than usual because your camera spends so much time attempting to reconnect to the network.

Optimize Mobile Network Connectivity

To optimize mobile network connectivity for your camera:

1. Check your mobile network coverage map for the area in which you want to use your camera.

Note: Cellular coverage fluctuates based on network traffic and weather conditions. If you place your camera near the edge of a coverage area, your connection weakens or drops whenever the mobile network is carrying

a lot of traffic in that area. Heavy rain, thunderstorms, and high humidity can also weaken your camera's mobile network connection.

2. Check the mobile network signal strength in the place where you want to put your camera.

The easiest way to do this is to go there and check the signal strength on a mobile phone that uses the same mobile network service. If the signal strength is good enough, you can set up your camera and then look at your camera signal strength in the Security Premium App under camera settings.

Mounting



PIR sensor (motion detection) is sensitive to hot and cold disturbances, note:

1. Avoid installing the camera where the air flow is agitated.

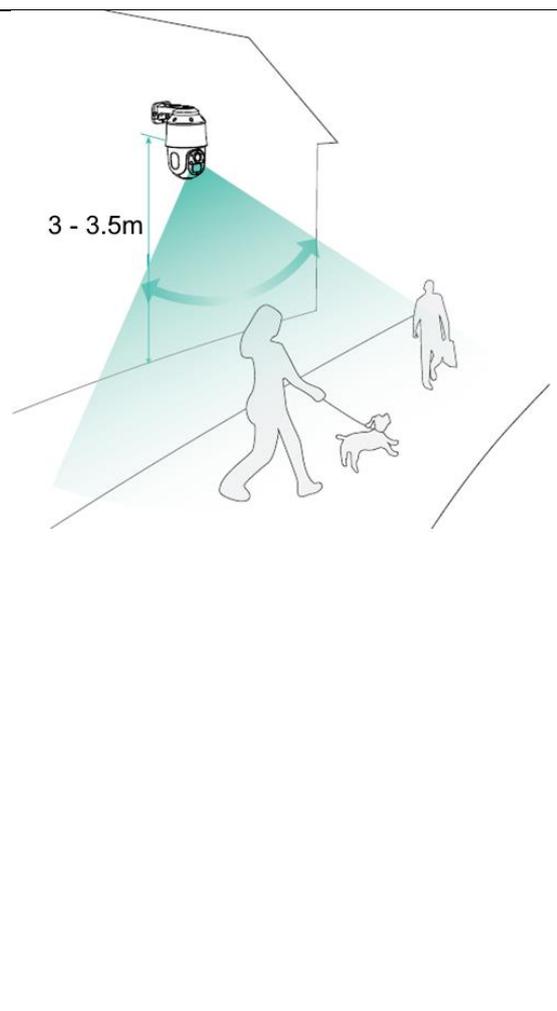
For example: the air outlet of the air conditioner, the heat dissipation port of the equipment, the side of the fan, the vicinity of the curtain, etc.

2. Please do not install the camera facing the lens in front of window, glass or mirror.

3. The **height** of the camera installation should be **3-3.5m**, which is the best distance for the PIR trigger.

4. Do not install the camera upside down.

Note: The right picture shows the optimal alignment for the camera to get the best PIR detection. Using the tilt angle is not necessary but can improve the PIR detection.



Alignment

Camera

When placing your camera, keep these tips in mind:

- Avoid placing the camera in an area that gets a lot of light shining directly into the camera lens.
- You can move and zoom the field of view.
- Keep active locations in the camera's field of view. The camera provides a 75° viewing angle and can rotate horizontal 355° and

vertical 90°. Position your camera so that the space you want to monitor is within the camera's field of view.

- To help with placing your camera, do a live stream from the camera. Aim the camera while watching the video feed on your Security Premium smartphone app to make near-real-time adjustments to the camera's position.

Solar panel

Depending on the environment, the place where you put the camera may not be the most suitable place to intercept the solar energy with the solar panel. Therefore, the connection cable is 2.8 meters long, so you have great freedom to choose a sunny place for the solar panel. The flexible arm then allows the solar panel to be oriented towards the sun.

Mounting ways

Belt

Use the mounting belt** (**included) to mount the camera to any object (e.g. tree) you can get the belt around.

Pull the belt through the rectangular oblong holes on the back of the mount and put the belt around the desired object. Now fasten the belt. Make sure that the protruding belt is not visible.

To release the mounting belt, simply press the clip and pull out the belt end.

Tripod

Note: If you drill a hole in the wall, make sure that power cables, electrical cords and/or pipelines are not damaged. When using the supplied mounting material, we do not take the liability for a professional installation. You are entirely responsible to ensure that the mounting material is suitable for the particular masonry, and that the installation is done properly. When working at higher altitudes, there is danger of falling! Therefore, use suitable safeguards.

The camera has a threaded socket on the top for a 1/4 inch tripod thread, which you will find on almost all commercially available camera tripods. This allows you to mount the camera on a variety of tripods, wall or tree mounts available in the trade.

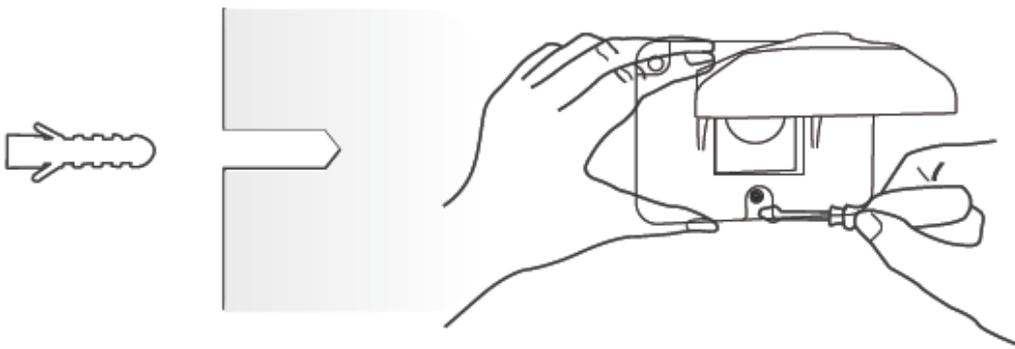
Wall mount

Note: If you drill a hole in the wall, make sure that power cables, electrical cords and/or pipelines are not damaged. When using the supplied mounting material, we do not take the liability for a professional installation.

You are entirely responsible to ensure that the mounting material is suitable for the particular masonry, and that the installation is done properly. When working at higher altitudes, there is danger of falling! Therefore, use suitable safeguards.

(1) Fix the bracket

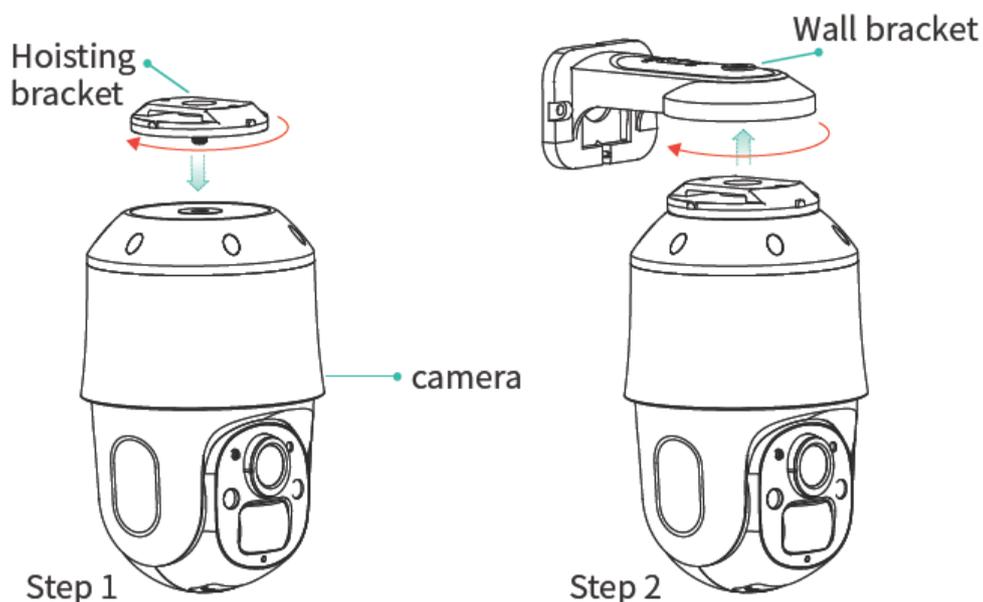
Fix the camera to the desired location. You can directly place the camera on a flat surface or fix the bracket to the wall or ceiling by screws.



(2) Fix the camera

Step1: Align the hoisting support with the screw holes on the camera and tighten it.

Step2: Then rotate the hoisting support clockwise to align it with the hole on the wall bracket and tighten it.



To release the camera pull the switch on top of the wall bracket and release the camera.

Solar panel

With the included bracket, the solar panel can be easily screwed to flat surfaces. There is a 1/4-inch thread for tripod screws on the back of the solar panel, allowing you to set up the device with common tripods. This allows you to mount the solar panel on a variety of tripods, wall or tree mounts available in the trade.

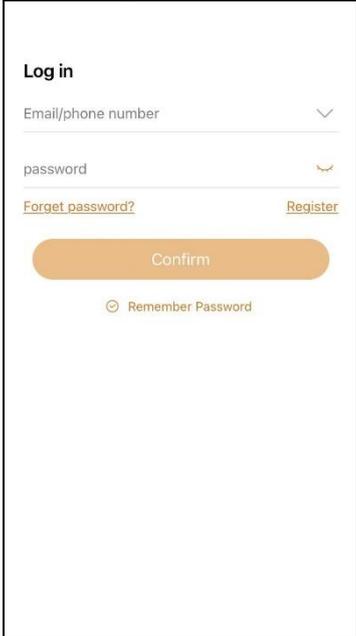
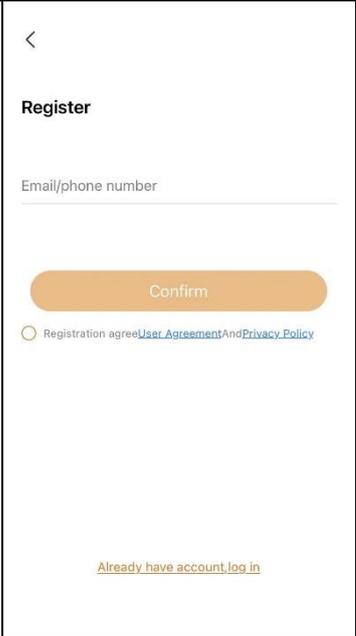
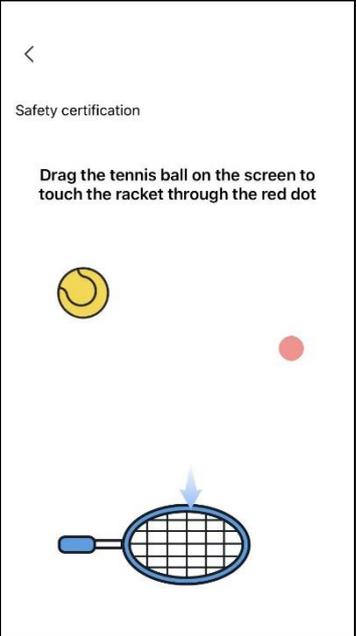
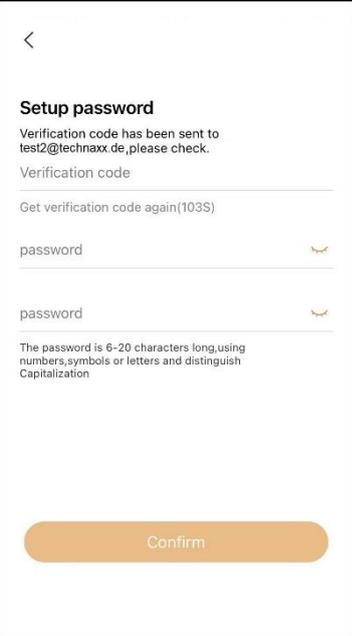
App pictures are based on Security Premium for iOS and Android in version 3.7.2 / 3.7.0.

Security Premium App Registration

Please take several seconds to register.

(1) Click “Register”, (2) enter the email address to bind the email address. (3) Drag the tennis ball on the screen over the red button on to the racket. The system will send an email to your email address. Login to your email account, (4). Enter the verification code from phone number or email and enter an account password and repeat it in the second column. To complete registration press on confirm (follow these steps, otherwise users cannot use forget password function).

Info: When you are registered you have following advantage: Data added or grouped by user (e.g. the device), is managed by server, which won't be lost even to delete all data on the Smartphone. As long as users re-install the App and log in the old account, all data will be restored for some auxiliary functions such as device status notification and alarm notification.

			
1	2	3	4
Register	Enter Email	Safety certification	Enter verification code and password

Forget Password

If you forget the password and need to get it back, click „Forget password”. Enter the Email address into the user interface and press Confirm. The

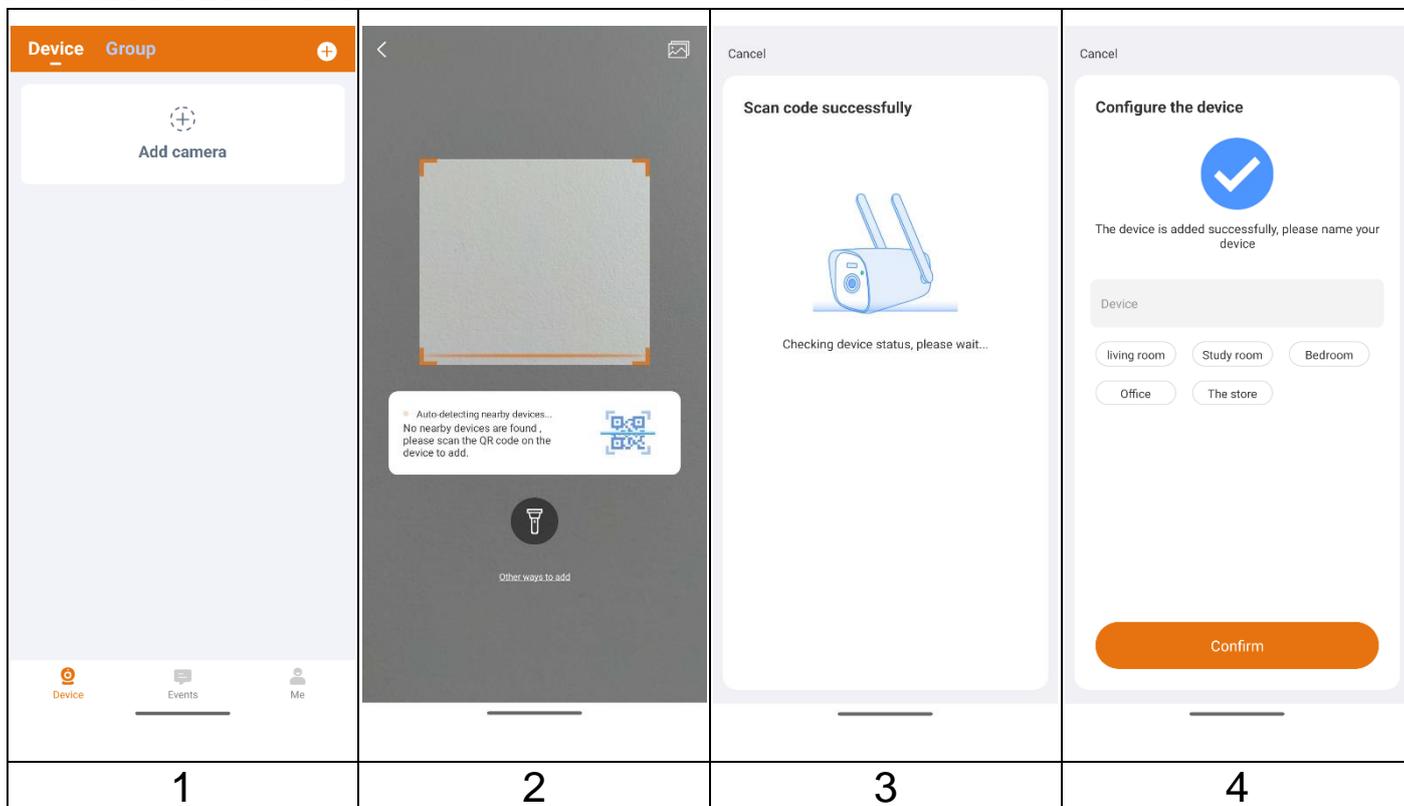
system sends a confirmation Email, which the user can check via his Email account.

How to add a device

Add Device

Login to the App if not already done and go to “Device” interface.

iOS and Android:



(1) Click “+” on top right corner to add.

(2) Scan the QR-code on the camera.

(3) Device status is checked and wait until the camera is added successfully.

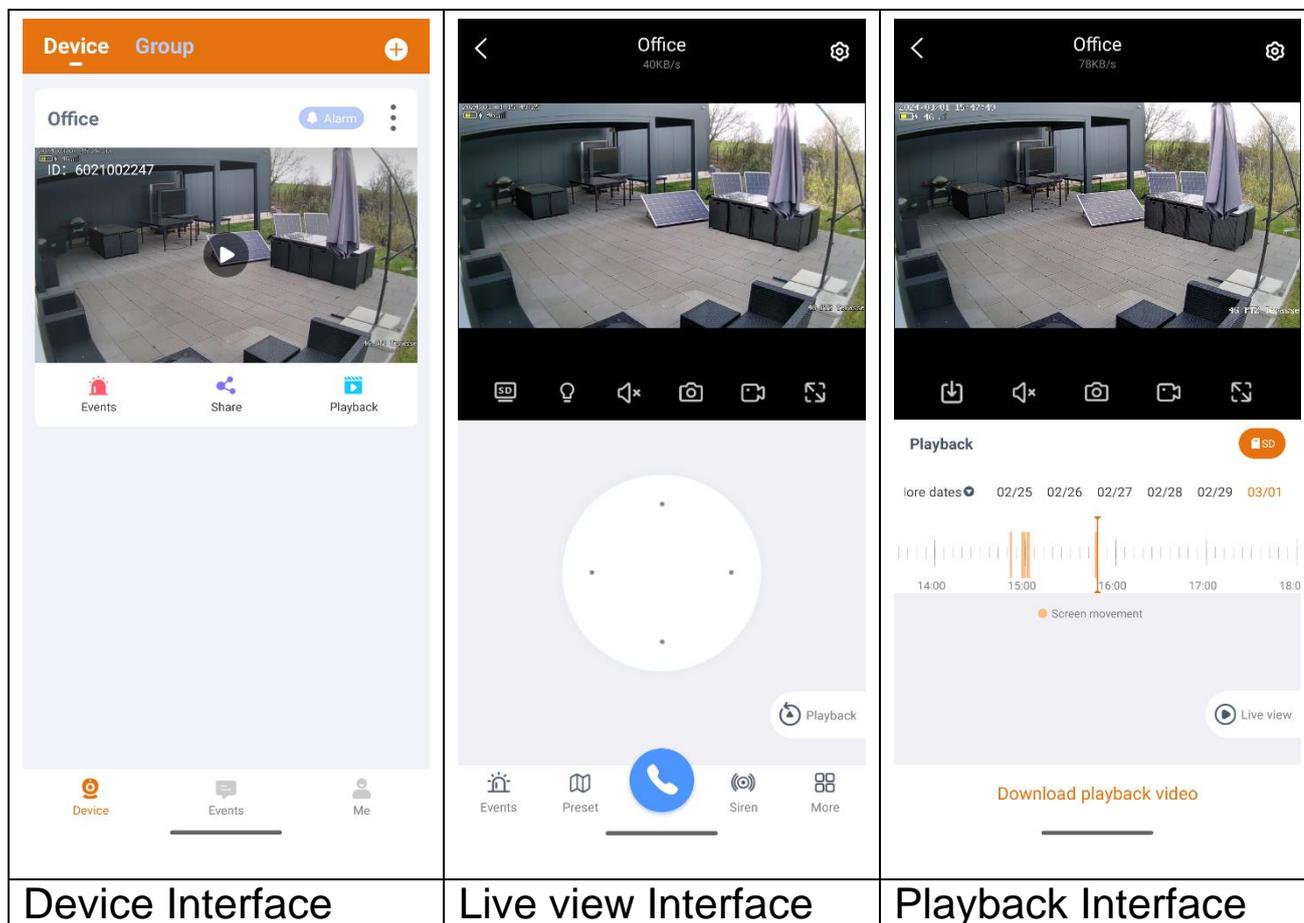
(4) Change the device name to your needs, e.g. garden.

Press on Confirm.

Important: Change the password after you have added the camera successfully to the Security Premium App. Currently the camera has no password entered!

How to navigate in the App Device

In the Device Interface you can see all your added devices. After clicking on the three dots next to the status (online, connecting, offline) you can set the device to the top, show manually taken Screenshot/Recordings, Edit or Delete the camera. Under the camera image you can find Share, Info (Push), and Playback.



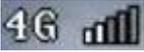
Live view

By clicking on the play button on the Device interface you enter into real-time viewing. If the Smartphone can't connect to the device, it will show offline. If password is wrong, it will show wrong password, enter again. Click on the three dots right next to it and click on Edit. Here you can try to enter the password again.

Gesture operation

- Two fingers touch the screen and move outward to enlarge the image.
- Two fingers touch the screen and move inward to narrow the image.
- Single finger double clicks the screen to enlarge or narrow the image.

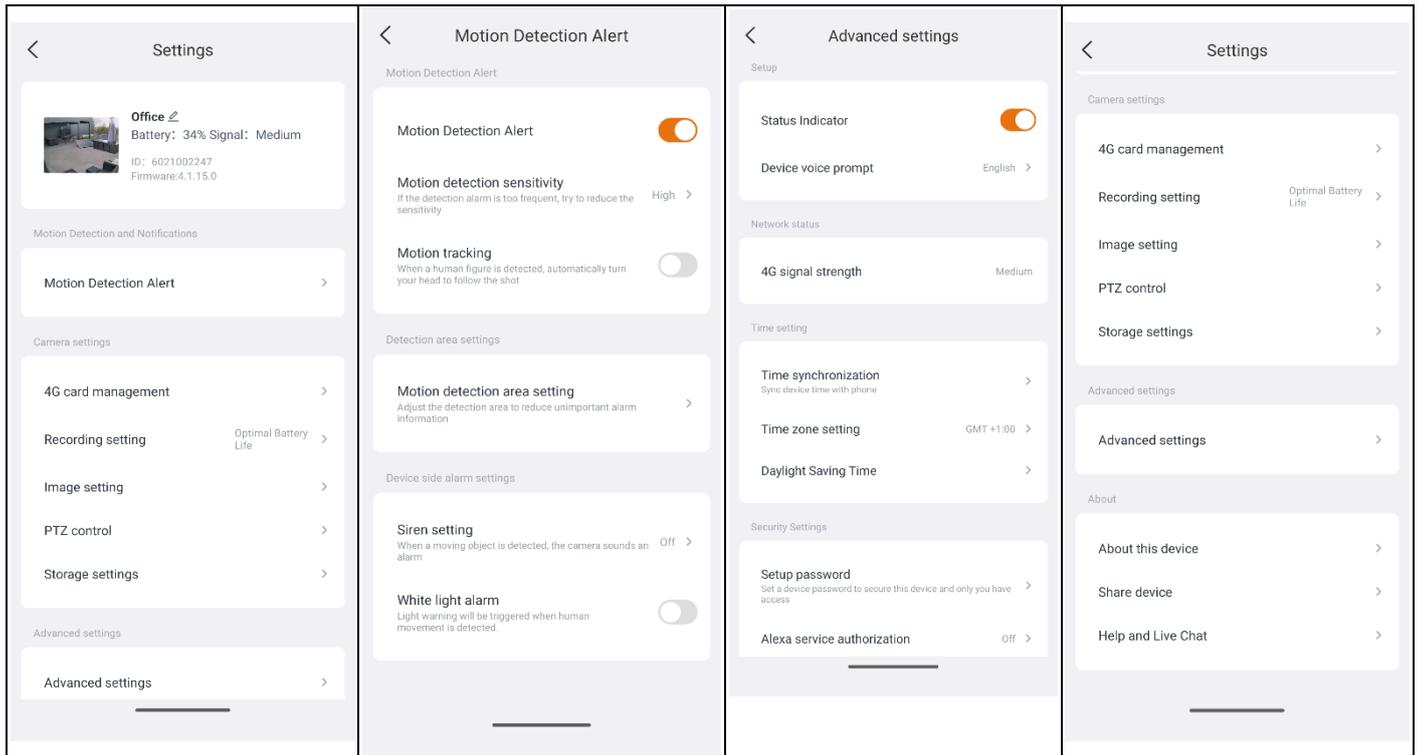
Button function list for Live view and Playback

	Device Setup	Click top right corner to setup camera
	Battery status	Shows the battery status as follows: 4 bars = 75-100% 3 bars = 50-75% 2 bars = 25-50% 1 bar = 1-25% A flash next to the battery status shows that the device is charging.
	Reception	Shows the reception of the cellular network. 2 bars and lower can cause problems for live view, playback and settings. 3 bars and more should cause a stable connection.
	Connection	Shows the transmission speed of the data
	Playback	Playback videos stored on the MicroSD card
	Return	Return to live view.
	Resolution	Users choose the Resolution according to their needs. Note: HD = higher data consumption!
	Flashlight	Turn on/off the white LEDs manually
	Audio	Turn on/off the audio of the live view or the playback
	Screenshot	Take a screenshot of the live view. It will be stored on your Smartphone. Go to Me and click on Screenshot/Recording to view the taken pictures.

	Recording	Click to record the currently seen as video. Click again to stop recording and save the video file to your Smartphone. Go to Me and click on Screenshot/Recording to view the taken recordings.
	Full screen	Enlarge the image
	Events	Shows alarm messages
	Preset	Set/call a preset
	2-way-call	Click the blue to start the two way communication. To stop, click on red.
	Alarm	Enable the alarm sound on the camera manually. It will last for max. 15s or until you stop it manually.
	More	Shortcuts for quick access: - Motion detection: Enable/Disable - Motion tracking: Enable/Disable - Photo album: Open to see saved photos / recordings - PTZ calibration - Infrared night vision: Enable/Disable

Device Setup

Clicking on Setup or Setting under the live view. It opens the Device setup below.



This interface can differ a little bit depending on the use of iOS or Android. All options are explained below.

Device Information

Device name	Chosen while configuration
Battery	Battery status in % from 1-100
Signal	Signal strength of the 4G network (Strong, middle, weak)
ID	The ID number of the device. This item cannot be filled in. Device ID will be automatically configured according to device type.
Firmware	Current installed firmware version Click and check if there is new software version. If there is, click and update directly to achieve OTA upgrade of the device. If the version is already the newest, there will be a prompt.

Motion Detection and Notifications

Motion Detection Alert	Enable/disable motion detection alarm. When the alarm function (motion detection) of the camera is triggered, the device will push the alarm message to our server and then the server will push the message to your Smartphone which bind push service and receive alarm push.
------------------------	---

Motion detection sensitivity	Select the sensitivity of the motion detection. Depending on the circumstances, a different attitude may be the best. Lowest about 1-2m; At the highest up to 10m
Motion Tracking	Enable/disable, when a human is detected, it will automatically follow the movement.
Motion detection area setting	Set/change the detection area or warning line. Improve the motion detection by deleting marked areas that often trigger motion detection.
Siren setting	Enable/disable to hear a siren sound from the camera with every detected motion. After you enabled the function you can choose to use the default sound or customize the alarm by recording your own sound.
White light alarm	Light warning will be triggered when human movement is detected.
Camera settings	
4G card management	Information about the inserted SIM card: <ul style="list-style-type: none"> • Signal strength of 4G network • Mobil number • ICCID • IMEI of the camera
Recording setting	<ul style="list-style-type: none"> - Optimal Battery Life: Record 5, 10, 20, 30s video when a moving object is detected. - Optimal Surveillance When a moving object is detected, continue recording until the end of the movement. - Uninterrupted recording: The device keeps recording continuously and automatically switches to the best recording, when the power drops below 50% and resumes recording when the power rises above 80% again. - Record only when human appears: Enable/Disable, when enabled reduce recording & alerts triggered by outdoor interferences such as trees and light changes. - Record sound: Enable/Disable, when disabled there is no sound when viewing live and playback recordings.
Image setting	<ul style="list-style-type: none"> - Night vision mode: Choose between full color and infrared night vision. - Invert the image: Enable/Disable to invert the camera image.

	<ul style="list-style-type: none"> - Device call volume: Set the volume for device plays sound and alarm volume - Privacy area: Black out areas of the camera image that should not be seen on the recording or in the live view. - Humanoid detection frame: Enable/Disable mark people in the video through a frame
PTZ control	<ul style="list-style-type: none"> - PTZ speed: Chose between Low, Medium, High - PTZ calibration: Needs 30s to calibrate the PTZ function to work normal again after failure. - PTZ control direction flip: <ul style="list-style-type: none"> - Flip up and down: Enable/disable to change alignment - Flip left and right: Enable/disable to change alignment
Storage settings	<p>Below options are listed under Device Storage.</p> <ul style="list-style-type: none"> - Local storage space: Shows available storage capacity of MicroSD card. - Download local video files: Shows the files saved to the MicroSD card. - Format the memory card: Click it to format the MicroSD card. The procedure is about 3-5 minutes and is not blocked by other operation. Note: 64 -128GB can be necessary to format via the App! It could be necessary to format until the App shows MicroSD status: Normal.
Advanced settings	
Status indicator	Enable/Disable the status LED
Device voice prompt	Change the language according to user's needs. Voice Prompt is mainly used for status information for the user.
4G signal strength	Strength status of the 4G connection
Time synchronization	Time syncing between Smartphone and camera.
Time zone setting	Time zone is set automatically. If not, adjust it here.
Daylight saving time	Enable/disable summertime. Choose country.
Setup password	Click on password to change the old password to a new one.
Restart the	Click to restart the camera.

camera	
Delete and reset the camera	Click to reset the camera and delete the camera from your account.
About	
About this device	Shows the Camera model, Device ID, Software version, battery power and the 4G signal strength. See the QR-code of the device in top right corner.
Share device	Share device with another account here. Choose the permissions the person you share the device with is able to use.
Help and live chat	FAQ for questions

Playback

Click the button of remote  playback in the live view.

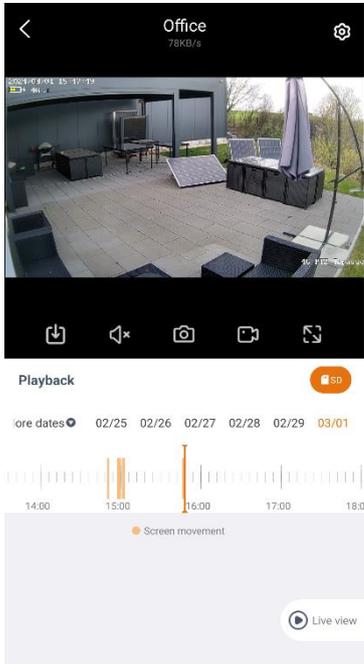
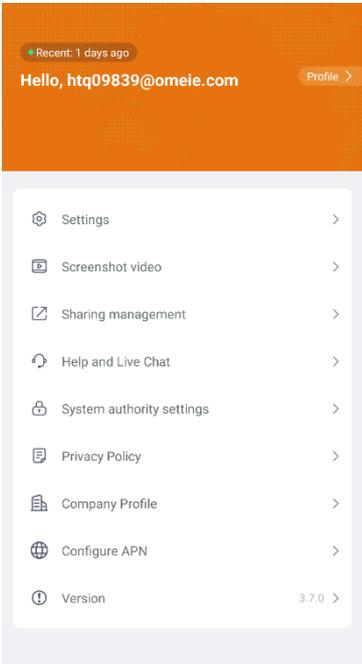
Precondition of camera remote playback:

- Make sure the camera time is already time synchronized with the App
- Insert the suitable MicroSD card into the camera. → enable motion detection recording.

Remote playback function of the device then only can be used.

- Choose the time by swiping the timeline left and right. →→The red cursor marks the start time of playback. →→ Two fingers touch the timeline & move outward to narrow the time scale. →→Two fingers touch the timeline and move inward to enlarge the time scale. →→ Press play in the middle of the shown image to start the playback

In the timeline you can find the color RED. RED marks the recordings of motion detection.

 <p>The screenshot shows the 'Playback' interface. At the top, there's a live view of an office with a '78KB/s' indicator. Below the live view is a 'Playback' section with a play button and a '5B' indicator. A timeline shows dates from 02/25 to 03/01. A bar chart below the timeline shows 'Screen movement' events, with a red bar indicating a motion detection event. At the bottom, there's a 'Live view' button and a 'Download playback video' link.</p>	 <p>The screenshot shows the 'Me' profile page. At the top, there's a greeting 'Hello, htq09839@omeie.com' and a 'Profile' link. Below this is a list of settings: Settings, Screenshot video, Sharing management, Help and Live Chat, System authority settings, Privacy Policy, Company Profile, Configure APN, and Version (3.7.0). At the bottom, there are three tabs: 'Device', 'Events', and 'Me'.</p>
<p>Playback Interface</p>	<p>Me</p>

Me (personal area)

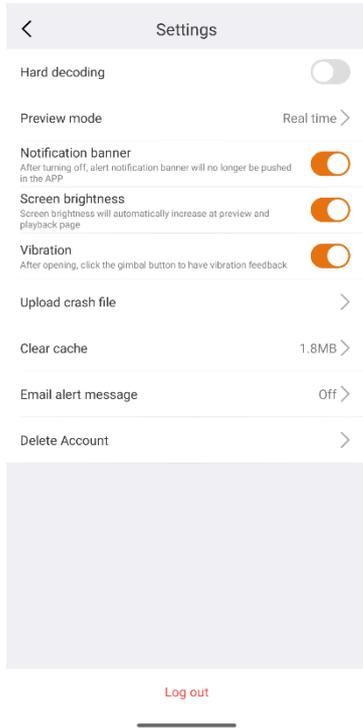
On this interface users can setup their account and App settings. See the picture above.

	<p>Add email address to bind and be able to login with. Change the password of your account. Check your login log. Like shown in the picture below.</p>
 <p>Settings (order differs on iOS and Android)</p>	<ul style="list-style-type: none"> → Enable/disable hard decoding (Android only) → Select the preview mode between real time or fluency. → Enable/disable Push notification banner → Click to upload a crash file after the app has crashed → Click to clear cache → Enable/disable the auto. screen brightness → Delete account permanently → Log out from the current account
 <p>Screenshot / Video</p>	<p>Check screenshot / recording files See downloaded files here as well</p>
 <p>Share management</p>	<p>Devices that you share with other users are listed here.</p>
 <p>Help and Live Chat</p>	<p>Click here if you need some help with the installing of your camera.</p>
 <p>System authority settings</p>	<p>Check the permissions you gave the App and be able to change them.</p>
 <p>Company profile / About</p>	<p>See information about Technaxx like e.g. address</p>
 <p>Privacy policy</p>	<p>Check the privacy policy here.</p>
 <p>Configure APN</p>	<p>Change or configure the APN saved in the camera.</p>

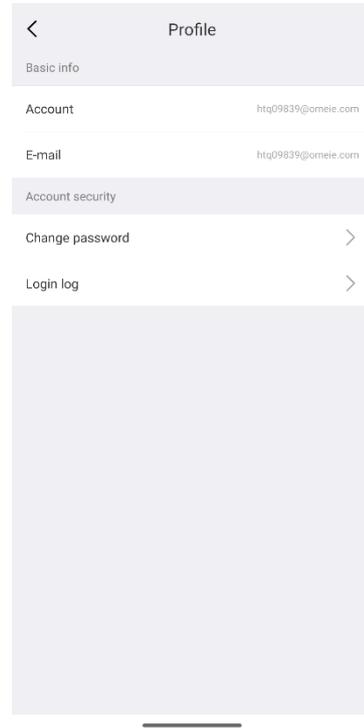


Version

Check APP version and shows current APP version



Setup interface



Personal info (account) interface

The following chapter is based on Security Premium for Windows in version 2.0.7.11

PC Software Windows (& MAC)

Attention: It is not possible to configure the camera with the PC Software!

Info: The MAC version differs from the Windows version.

Installation

→ Start the Security Premium.exe which you find under www.technaxx.de/support --> TX-290

→ Double click on the Security Premium.exe to start the installation.

→ Choose the language and click on OK.

→ Agree to license agreement and click on I Agree.

→ Choose the path the software is installed to or keep the suggestion and click on install.

→ Wait until the installation is completed and click on Finish. The Software will start automatically.

Important: Maybe windows firewall pop up will show up. Select private or public network depending on your home network. If you are not sure choose both. Click on Allow access before going on with the Setup guide.

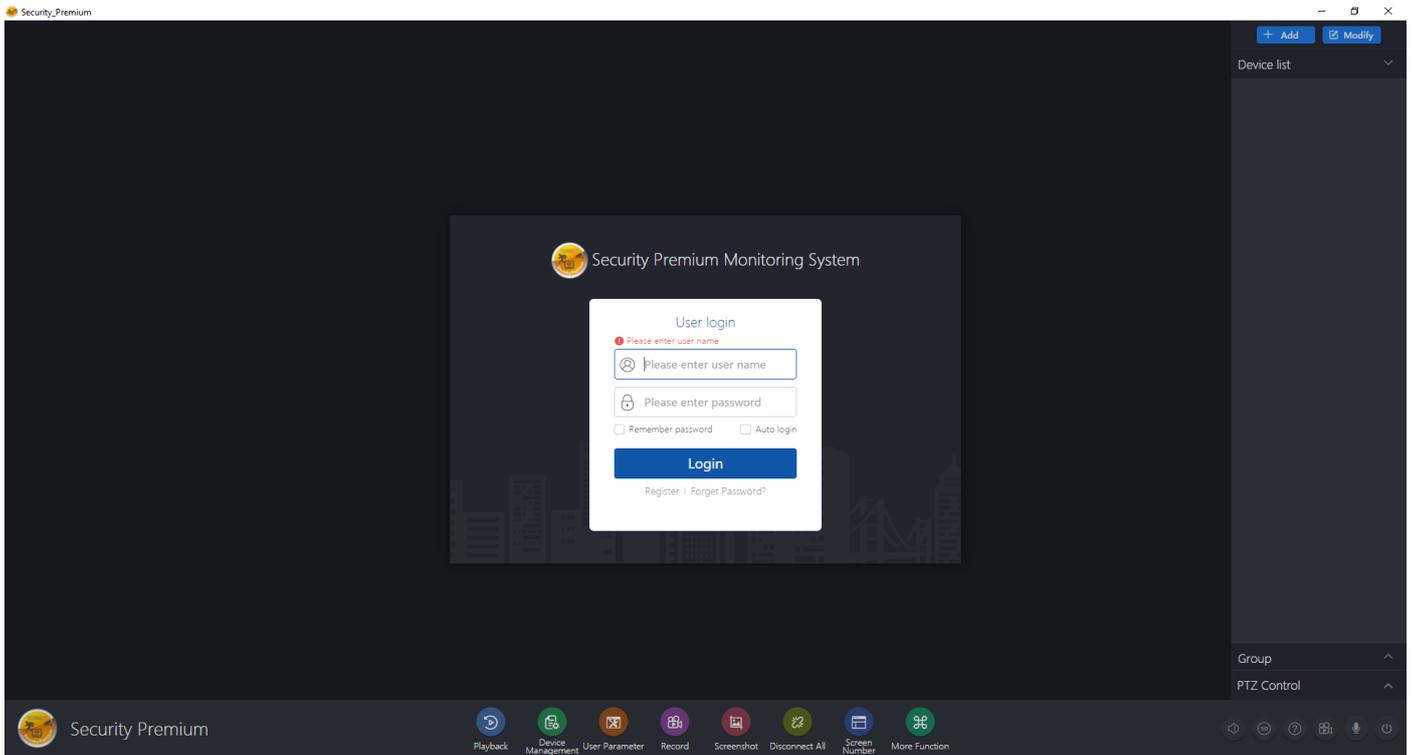
Login and add device

→ The PC Software starts automatically. A login window will show up. Just click on Login to use Local login.

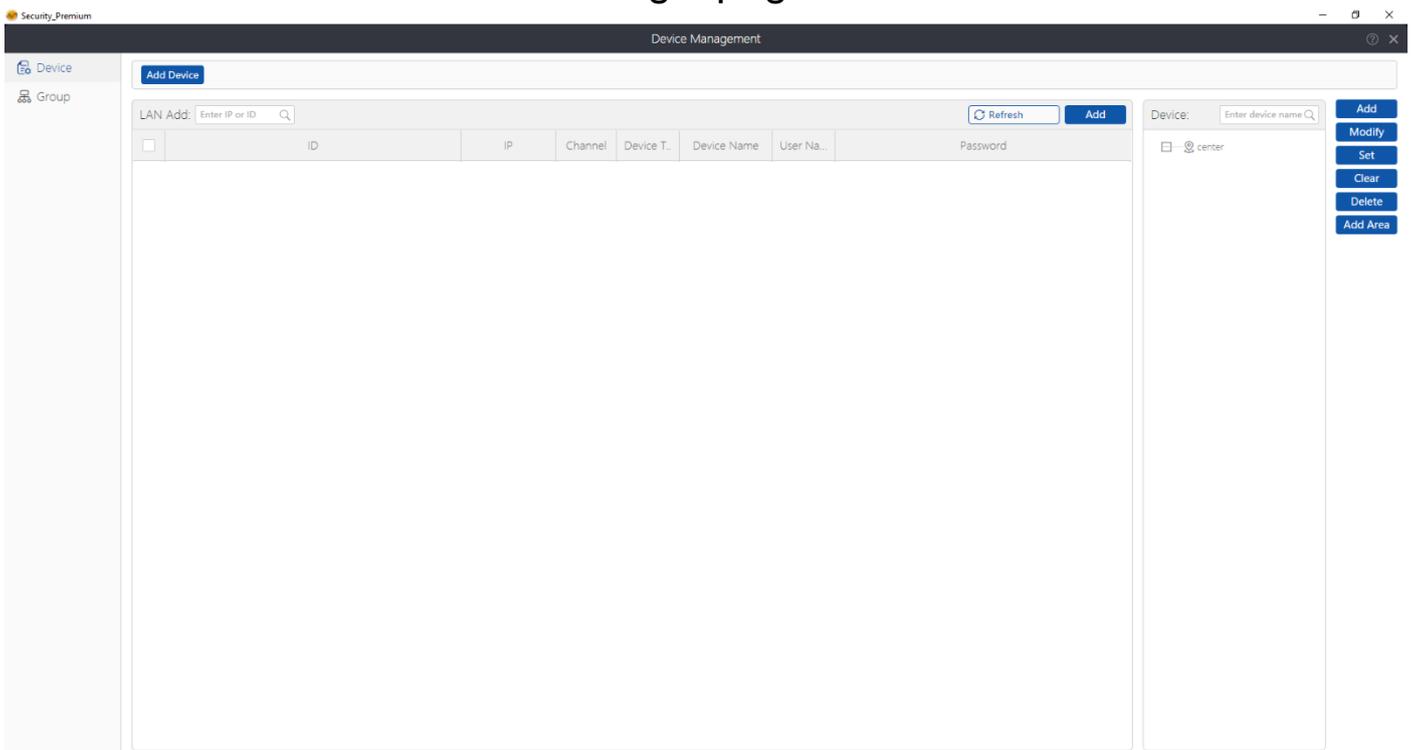
→→ If you want to login with your registered App account (Cloud login) enter the email address (phone number) and the password, that you created over the App.

Note: The advantage of cloud login is that all your added devices in your account are shown directly on the PC Software.

→→ If you choose the Local login, go to device management press on Add device and change to Cloud ID. Enter Cloud ID (Device ID on the device), User name (admin), password (specified camera password via App) and Device name (freely selectable). If you already added the device you will see it in the list on the right. Mark the added device by clicking on it and choose Edit.



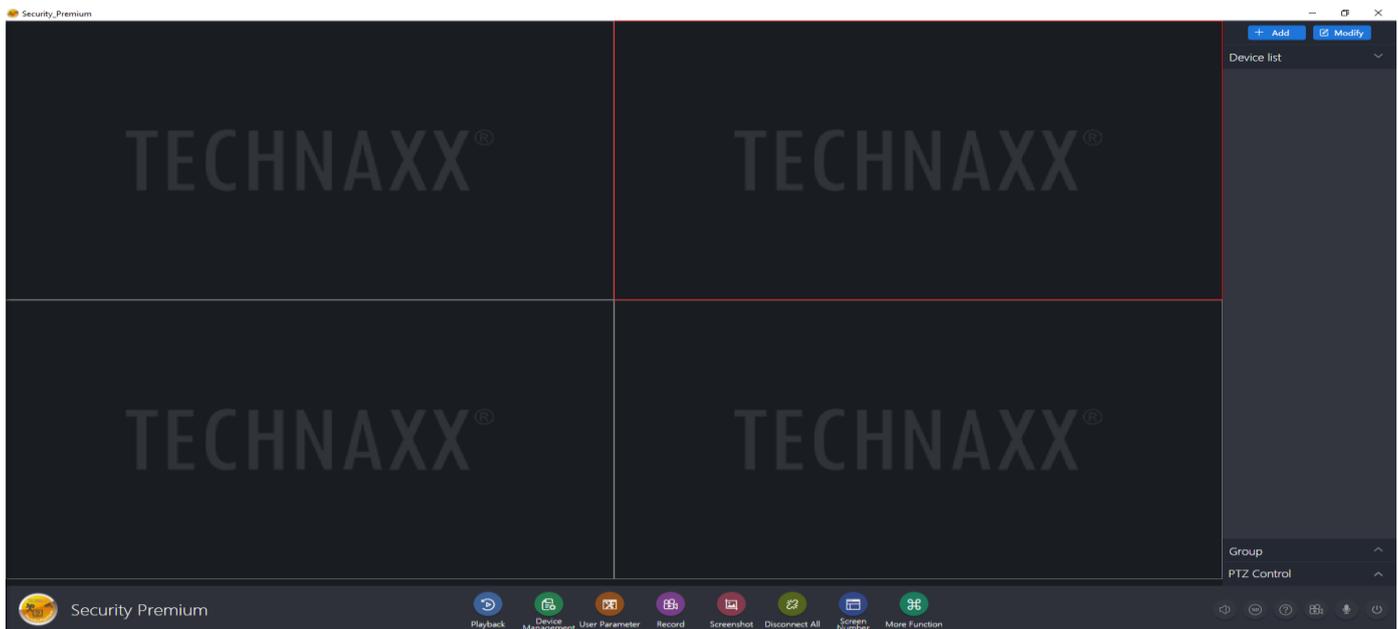
Login page



Device management page

Open live view

To open the live view choose the Live view menu. Select the camera you want to view from the list on the right and click play button on the device. The live view opens in the black window with the red frame.



Playback recordings

Click on playback and to open it. The software will ask to close all currently opened live views (when there are open ones). Accept to close so you can change to the playback interface. Click on the + in front of the camera on the right and select the channel. Now press on retrieval. After searching is successful it will show colored bars in the timeline. Those are the recorded files saved on the MicroSD card inserted to the camera.



Troubleshooting

Problem	Solution
<p>The camera takes videos without any target objects in them (false triggers)</p>	<p><u>-The PIR/motion sensitivity is set too high:</u> First check the camera's PIR sensitivity level in the App.</p> <p><u>-Hot air:</u> The camera is triggered by detecting the movement of heat sources, so avoid mounting the camera near any equipment that emits hot air.</p> <p><u>-Reflecting light:</u> Light can trigger the camera, so avoid targeting the camera at anything that can reflect light (e.g. mirrors or moving bodies of water).</p> <p><u>-Rising/setting sun:</u> So as to avoid targeting the sun as it rises or sets, mount the camera to face north or south.</p> <p><u>Unstable mounting:</u> If the camera's mounting is not stable, then it may move and mistake this for the movement of objects in its field of view. When mounting the camera check that it is completely stable and avoid mounting it on anything that can move or shake, e.g. small/weak trees.</p> <p><u>Target objects moving too quickly:</u> In the case of fast-moving objects, e.g. animals, if the camera is positioned too close, or perpendicular to the target trail, there is a possibility that the trigger will not go off in time. a) Mount the camera further back from the trail b) Mount it at a 45° angle to the trail.</p> <p><u>Tree leaves/branches:</u> Grass swaying in the wind, falling leaves or falling/moving tree branches/twigs can reflect the sun's heat and potentially cause false triggers. a) Mount the camera away from such objects, preferably slightly higher up (around 3-3.5m from the ground) to avoid swaying grass b) Clear the target area as much as possible of twigs, leaves and branches.</p>
<p>The camera is not capturing any videos</p>	<p><u>-Camera is not in ON Mode:</u> First ensure that the Power Switch is set to ON.</p> <p><u>-Batteries have insufficient power:</u></p>

	<p>Check the battery power bar directly on the APP. If the battery power is very low, replace/recharge the batteries.</p> <p><u>-MicroSD card is full:</u></p> <p>a) Upload the files saved on the MicroSD card to your computer, delete them from the card and re-use the same card, or:</p> <p>b) Put a new MicroSD card into the camera, or:</p> <p><u>-MicroSD card is corrupted:</u></p> <p>Due to physical damage, improper insertion/removal or viruses, MicroSD cards can become corrupted. If this happens, you will need to format/reformat the MicroSD card.</p>
Night vision range is limited	<p><u>-“Night Mode” is not set correctly:</u></p> <p>First ensure that “Night Mode” is set to “Automatic”.</p> <p><u>-Batteries have insufficient power:</u></p> <p>Check the battery power bar directly on the APP. If the battery power is very low, replace/recharge the batteries.</p> <p><u>-Nearby light source:</u></p> <p>If there is a significantly bright light source near the camera it may interfere with the functioning of the camera’s night vision.</p> <p>Avoid placing your camera near a bright light source.</p> <p><u>-Target area is too open:</u></p> <p>The camera’s night vision works via infrared light that is emitted and reflected back off the objects in the target area, then captured by the camera’s image sensor. Therefore, if the target area is too open, i.e. with very few objects to reflect the IR light, then the night vision image will appear very dark.</p> <p>For night vision purposes, target the camera at an area that contains objects, e.g. trees, bushes, walls, etc.</p>
Device is offline	<p>Check if the SIM card is inserted correctly.</p> <p>Check if the SIM card is activated and has enough data flow left.</p> <p>Check the battery and charge with power adapter.</p>
No preview	<p>The server may be congested, try restarting the app.</p>
No push notification	<p>Make sure the app has notification permissions.</p>

	<p>Confirm that the alarm message push switch is turned on in the App settings.</p> <p>Confirm that the alarm message push switch is turned on in the camera settings.</p>
No recording	<p>Insert SD card before booting.</p> <p>Make sure the camera PIR (monitoring) switch is turned on.</p> <p>Make sure the camera recording switch is turned on.</p> <p>Check whether the SD card status is normal in the App. If it is abnormal, try to format the SD card.</p>

FAQs

Q1: Why does the battery run out quickly?

A1.1: The App will count the daily recording time when playback video. Check if there are more videos every day. If there are many false triggers, try to lower the trigger sensitivity setting.

A1.2: Check if the 4G signal is weak. You can try to adjust the position of the antenna or camera to improve the signal transmission.

Q2: What should I do if I forget my password?

A2: If you have forgotten the login password of the App account, please reset the password through the "Forgot Password" option in the login interface as instructed.

The device's access password is set after the device is added or modified by the App, and the App remembers it. Subsequent access does not need to be re-entered.

Q3: Why it reports "memory card fault" when insert the MicroSD card?

A3.1: The device only supports the FAT32 file system and storage should not be above 128GB. Confirm the file system type and whether the MicroSD card capacity is beyond the normal use scope.

A3.2: The MicroSD card appears some damage, the device couldn't read and write as usual, which needs to reformat by computer before using. Format 64-128GB on PC to exFAT if possible.

Q4: Why the playback is intermittent?

A4: Due to the limited use life of the MicroSD cards, the continuous video will largely reduce the MicroSD card life, when the device detects the moving images, the intermittent condition could save storage space and prolong the MicroSD card life.

Q5: Why is the status of my camera offline?

A5.1: Check if the device is still running on battery or if you need to charge it.

A5.2: Check if the solar panel is connected correctly and if it is optimal aligned with the sun.

A5.3: Check if the SIM card has no SIM PIN. If the SIM card still has a SIM PIN remove it.

A5.4: The APN may not have been recognized correctly. Store this manual via the Security Premium APP under Account -> Configure APN. Fill in the relevant information and follow the instructions in the app.

Technical Specifications

Camera

Image sensor	4MP 1/2.8" CMOS	
Lens	f=3.6mm	
Camera viewing angle	FOV: 75°; 83.3° horizontal, 44.8° vertical	
Day & Night	IR-cut double filter automatic switching	
Minimum illumination	Color mode: 0.05 Lux; Night mode: 0 Lux with 4x IR LED or 2x white LED	
Video resolution	HD (2560x1440), Smooth (640x360)	
Video frame rate	15fps	
Video file format	.TS	
Video compression	H.264/H.265	
Audio source	Passive microphone	
Audio compression Standard	G711A/AAC-8K16bits	
Audio compression code stream	Streaming self-adaptive	
Speaker	8Ω 2W	
Network interface	4G 4dBi antenna	
4G frequency band	LTE FDD: B1/B3/B5/B7/B8/B20/B28	
	LTE TDD: B38/B40/B41	
	GSM: B1/B3 (900/1800MHz)	
Radiated output power max.	Class 4 GSM850/900: 33±2dBm Class 1 GSM1800/1900: 30±2dBm Class 3 LTE TDD: 23±2.7dBm Class 3 LTE FDD: 23±2.7dBm	
Storage	Supports MicroSD(HC/XC) cards up to 128GB (FAT32/ exFAT) (class10)	
File size	Night; B/W: 3-5MB/min (32GB = 4,5 days continuous ¹ recording)	
	Day; colour: 5-7MB/min (32GB = 3,5 days)	

	continuous ¹ recording)
IR distance	~20m, $\lambda=850\text{nm}$; ~15m, White 1W, 200lm, 4500K
PIR Motion detection	Distance: ~8-10m (open space) / Angle: 120°
PIR trigger time	0.4s
Power consumption	Normal mode $\leq 5\text{W}$ / Sleep mode $\leq 0.3\text{W}$
External charger	DC port: 5V / 1.5A (not included)
	Solar Panel (included)
Battery	Type 21700 Lithium-Ion batteries 3.7V, 9600mAh
Working time	Up to 1.5months (or up to 3.5h of continuous ¹ recording - mixed day & night) depending on the usage and motion triggers
Standby time	Up to 6months (no usage, no triggers)
Charging time	Up to 9-10h (USB Power adapter with DC5V/1.5A)
Working condition	-10 - 45°C; RH Less than 95% (No condensation)
Protection class	IP65
App "Security Premium"	iOS 15.0 or above; Android 12.0 or above / EN, DE, FR, ES, IT, NL, SE, DK, NO, FI, CZ, PL (11-2023)
Weight	580g
Dimension	(H)16 x (Ø)10cm
Material	ABS + PC
Package contents	4G PT Dome TX-290, 1x Solar panel (cable 2.8m), 1x USB power cable (1m), 6x Screws & Dowels, 1x Wall Bracket, 1x Hoisting Bracket, 1x Mounting belt, User Manual (short)

¹continuous = the needed storage was calculated by continuous recording. Because it is hard to estimate the individual triggers of motion and the resulting storage need.

Solar panel

P_{max}	5W
Tolerance	$\pm 5\%$
V_{max}	5V
I_{max}	1A
Cable length	2.8m
Connector	USB-C

Protection class	IP66
Working temperature	-20°C - 50°C
Weight with bracket / Dimension	220g / (L)18.4 x (W)15.8 x (H)1.4cm

Support

Service phone No. for technical support: **01805 012643** (14 cent/minute from German fixed-line and 42 cent/minute from mobile networks). Free

Email: **support@technaxx.de**

The support hotline is available Mon-Fri from 9am to 1pm & 2pm to 5pm

Care and maintenance

Clean the device only with a dry or slightly damp, lint-free cloth.

Do not use abrasive cleaners to clean the device.

This device is a high-precision optical instrument, so in order to avoid damage, please avoid the following practice:

- Use the device in ultra-high or ultra-low temperature.
- Deliver or use it in strongly shocking environment.

Declaration of Conformity



The EU Declaration of Conformity can be requested at the following address: www.technaxx.de/ (in the lower bar "Declaration of Conformity").

Disposal



Disposal of the packaging. Sort packaging materials by type upon disposal.

Dispose of cardboard and paperboard in the waste paper. Foils should be submitted for recyclables collection.



Disposing of old equipment (Applies in the European Union and other European countries with separate collection (collection of recyclable materials) Old equipment must not be disposed of with household waste! Every consumer is required by law to dispose of old devices that can no longer be used separately from household waste, e.g. at a collection point in his or her municipality or district. This ensures that the old devices are properly recycled and that negative effects on the environment

are avoided. For this reason, electrical devices are marked with the symbol shown here.



Batteries and rechargeable batteries must not be disposed of in household waste! As a consumer, you are required by law to dispose of all batteries and rechargeable batteries, whether they contain harmful substances* or not, at a collection point in your community/city or with a retailer, to ensure that the batteries can be disposed of in an environmentally friendly manner. * marked with: Cd = cadmium, Hg = mercury, Pb = lead. Return your product to your collection point with the fully discharged battery installed inside!

Made in China

Distributed by:
Technaxx Deutschland GmbH & Co. KG
Konrad-Zuse-Ring 16-18,
61137 Schöneck, Germany

4G PT Dome TX-290 with solar panel

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