

Technaxx® * User Manual

WiFi IP Outdoor Camera TX-145 & Additional camera for TX-128 Set

Introduction

The manufacturer Technaxx Deutschland GmbH & Co.KG hereby declares that this device, to which this user manual belongs, complies with the essential requirements of the standards referred to the Directive **RED 2014/53/EU**. The

Declaration of Conformity you find here: www.technaxx.de/ (in bar at the bottom “Konformitätserklärung”). Before using the device the first time, read the user manual carefully.

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

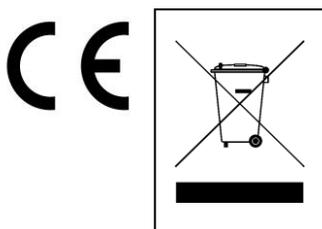
The support hotline is available Mon-Fri from 9 am to 1 pm & 2 pm to 5 pm

If you drill a hole in the wall, please 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.

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.

Warranty 2 years

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



Hints for Environment Protection: Packages materials are raw materials and can be recycled. Do not disposal old devices or batteries into the domestic waste. **Cleaning:** Protect the device from contamination and pollution (use a clean drapery). Avoid using rough, coarse-grained materials or solvents/aggressive cleaner. Wipe the cleaned device accurately. **Distributor:** Technaxx Deutschland GmbH & Co.KG, Kruppstr. 105, 60388 Frankfurt a.M., Germany

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1. Features

- Use as additional camera for TX-128 or stand-alone camera
- Viewing angle 90° horizontal & 55° vertical
- FullHD video resolution 1920 x 1080 with max. 15fps
- Brilliant 1/ 2.9" CMOS colour sensor (2MP)
- Motion detection up to ~8m (PIR 120°)
- 3 IR LED up to ~15m for optimal night vision
- Rapid installation, only via Android & iOS APP
- Free "Security Premium" APP for worldwide access [available on Google Play & APP Store]
- Water and dust resistant IP66
- Alarm function (push message) on your Smartphone
- Built-in microphone & speaker for 2-way communication
- Supports MicroSD(HC/XC) cards up to 128GB
- H.264/H.265 video compression (for space-saving recordings of high quality)
- Supports 2.4GHz wireless network (WiFi / IEEE 802.11/b/g/n) up to 30m

2. Product overview

IR LED:

The device activates the infrared light automatically as soon as low illumination prevails.

MicroSD card slot:

To insert the MicroSD unscrew both screws on the bottom of the camera. Be careful the loudspeaker is connected to the cover. Open the cover carefully to not lose the screws. Support 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 and there is more than 256MB space available. When you use a size 64-128GB MicroSD card. 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.

RESET Button:

Press the reset button for 5 seconds to reset the device. You will hear a voice.



1	Antenna	7	PIR sensor
2	Housing metal (IP66)	8	Vandal-Proof Housing
3	IR LED's	9	Built in Speaker
4	Lens		MicroSD(HC/XC) card slot (under the cover)
5	Light sensor	10	Adjustable Holder / Feet
6	Microphone	11	Mounting holes
Cable connections:			
	DC power input (12V/1A)		Reset button (under the cover)
	LAN connection		

3. Quick operation guide

3.1 For STANDALONE USE

In this mode TX-145 camera can only be configured by iOS or Android APP!

Start TX-145

→ Connect the device with the power adapter to a socket, TX-145 starts automatically. The prompt voice will tell you when ready to start with the configuration via App.

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

[iOS 9.0 or above; Android 7.0 or above (06-2020)]

		
APP icon	iOS	Android

→ Open the Security Premium App on your device.

→ Register for user mode your data will be saved and can be restored. For testing the App you can simply press App testing.

→ After entering the App press the plus + symbol on the top right corner and choose Add device

→ Select the type of camera for TX-145 it is **WiFi camera**.

→ For the WiFi configuration of the TX-145 follow the shown steps in the App.

Important: The indicator light to show the current status is find at the LAN connection. Please answer the question in the app while configuration mode with Yes when you are asked for a flashing indicator light.

→ After finishing the configuration the device is connected to your WiFi router and is ready to use.

Note: For Android phone users, in order to facilitate the configuration, App will obtain the WIFI information surrounding. So the Smartphone will ask whether to allow the application to obtain relevant permission. Click “Allow”.

3.2 Use as ADDITIONAL CAMERA for TX-128 Set

The first camera has been matched with monitor in the factory already. The image shows up when the kit is powered on. If users need to pair the camera again or add an additional camera, operate as below:

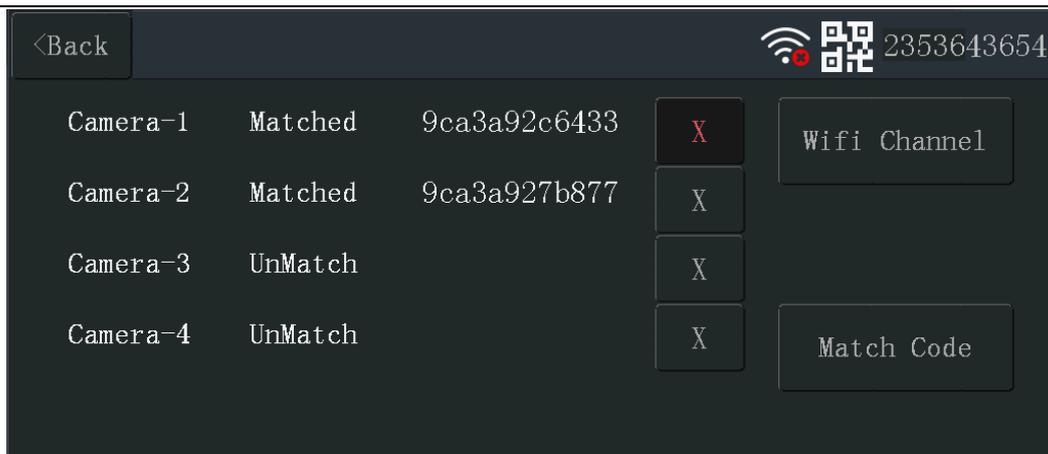
Step one: Power on the monitor and camera.

Step two: Reset the camera to enter the pairing mode.

Step three: Enter the Match code interface on the monitor and click on the match code.

Tips:

- 1) The camera can only perform the pairing in the reset state; the camera needs a reset to perform the pairing mode.
- 2) If the camera does not pair with the monitor, click "Match Code" again to try again.
- 3) If you need to replace a new camera, please click "X" on the monitor to delete the channel and then click on match code.



App pictures of chapter 4, 5 and 6 are based on Security Premium for iOS and Android in version 3.3.6 and 3.3.7.

4. How to start (Login/Registration)

4.1 Local mode & Users mode

There are **Local mode** and **User mode** on the App. Users without a registered account can click “Local” and try this App.

→ Data in **Local mode** will be stored at local only and cannot be restored.

→ **User mode**: 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.

4.1 Register or Local	4.2 Enter Email	4.2 Enter verification code and password

4.2 Registration

Users without accounts have to take several seconds to register. Click “Register”, enter the email address, and bind the email address (system will send an email to this email address). Login to your email account, copy the verification code and enter a password to complete registration (follow this step, otherwise users cannot use forget password function).

4.3 Forget Password

If you forget the password and needs 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).

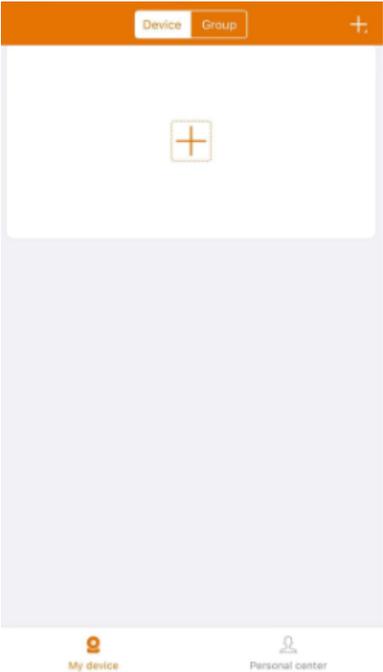
5. How to add a device

5.1 Add Device

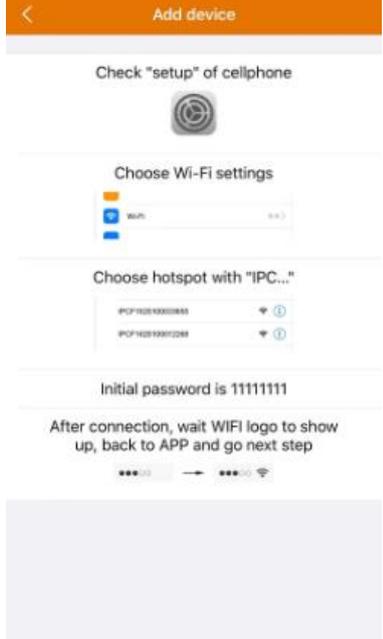
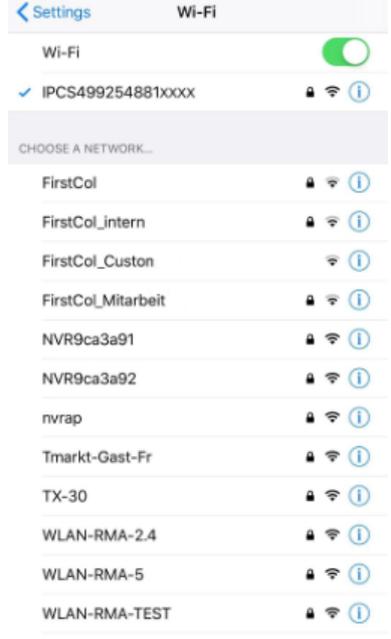
Login to the App if not already done and go to “My device” interface.

Note: Due to the limitation of iOS system, some functions on Android version cannot be reached on iOS version. For WiFi configuration this camera uses the Access Point (Hotspot) method.

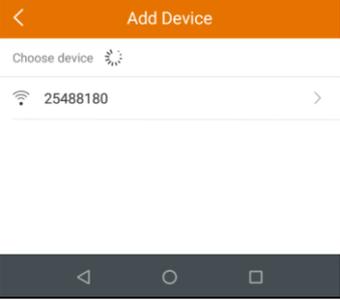
iOS and Android:

		
1	2	3
Click “+” on top right corner to add the TX-145.	Choose WiFi camera from the device groups.	The TX-145 does not have any indicator light. Press Yes to continue. Make sure the camera is in configuration mode. Otherwise do a reset.

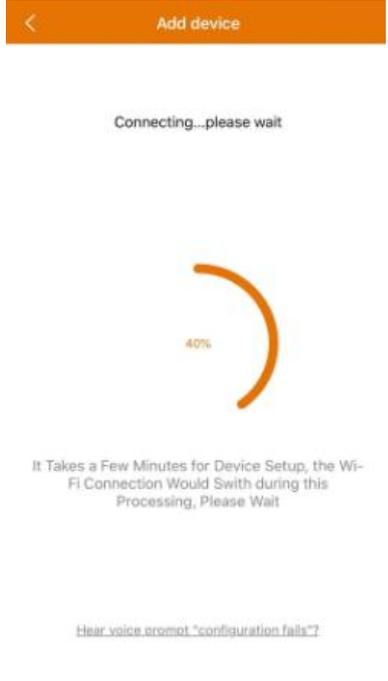
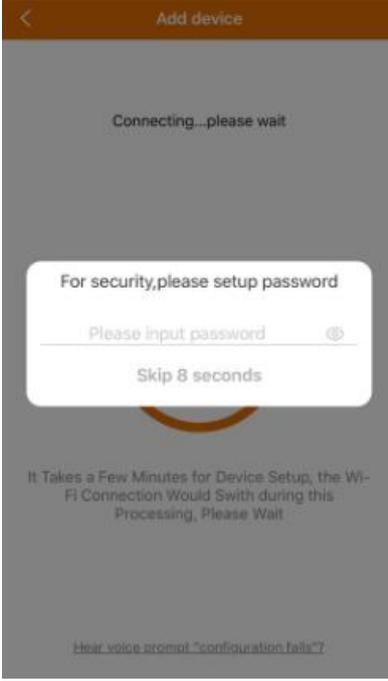
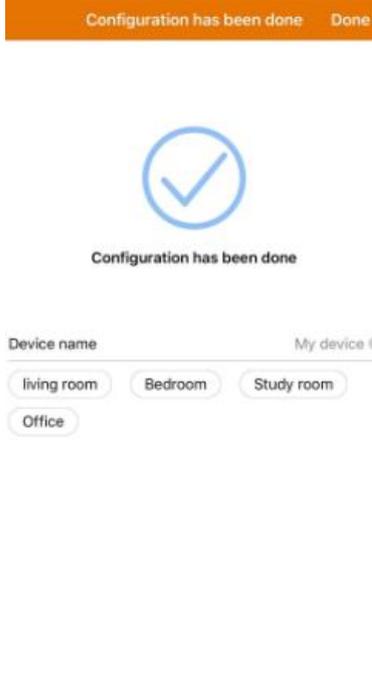
iOS WiFi configuration:

		
4	5	6
<p>Go to your WiFi settings of your Smartphone and open it.</p>	<p>Connect with the WLAN beginning IPC.... The WiFi password/key is 11111111 (8x1), wait until IPC.... WiFi is connected and go back to Security Premium.</p>	<p>Choose the WiFi you want to connect with and enter the WiFi password /key.</p>

Android WiFi configuration:

		
4	5	6
<p>Choose the Device-ID of TX-145 you want to connect.</p>	<p>Be connected with your WiFi and enter your WiFi password/key. Note: WiFi configuration does not work when you are connected to your mobile network 3G,4G,LTE!</p>	<p>Skip this step. Just for iOS user.</p>

iOS and Android:

		
7	8	9
<p>The TX-145 is configuring the WiFi connection.</p>	<p>Enter a customized password for the TX-145. You are not allowed to use number series like e.g. "123" or the words "none" or "admin".</p>	<p>WiFi connection is successful and you can name the device.</p>

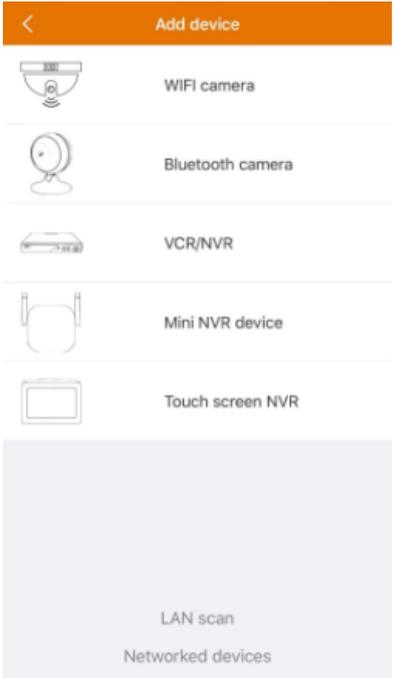
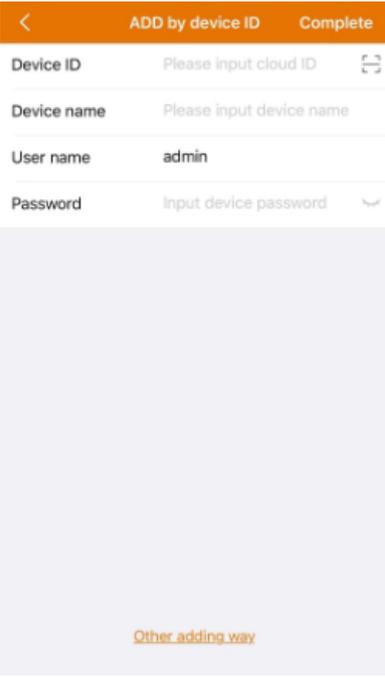
5.2 Add device when already connected to network

This mode is to add the device which is already configured and connected to a network. You just need to add to App no new WiFi configuration. After adding you are able to view the video, etc. (see picture 5.2).

Note: Adding the device by Device ID can be done from everywhere when you know username and password. It also allows you to view the video from everywhere when you have an internet connection with your Smartphone.

Device ID adding: On the bottom of the TX-145 you will find a sticker with ID number (and bar code). This ID number is the Device ID. Users can add the device by entering ID manually (or  scanning the bar code).

Fill in the device name, username and password for the camera. The **password was customized by you** while WiFi configuration. The **standard username** is **admin**. Click on complete in the top right corner to save the settings.

		
<p>5.2 & 5.3 Choose LAN scan or Networked devices.</p>	<p>5.2 Manually or with bar code scanning enter the Device ID. Fill in device name, username and password.</p>	<p>5.3 Choose the found Device ID, enter a device name, username and password.</p>

5.3 Adding device from the same network

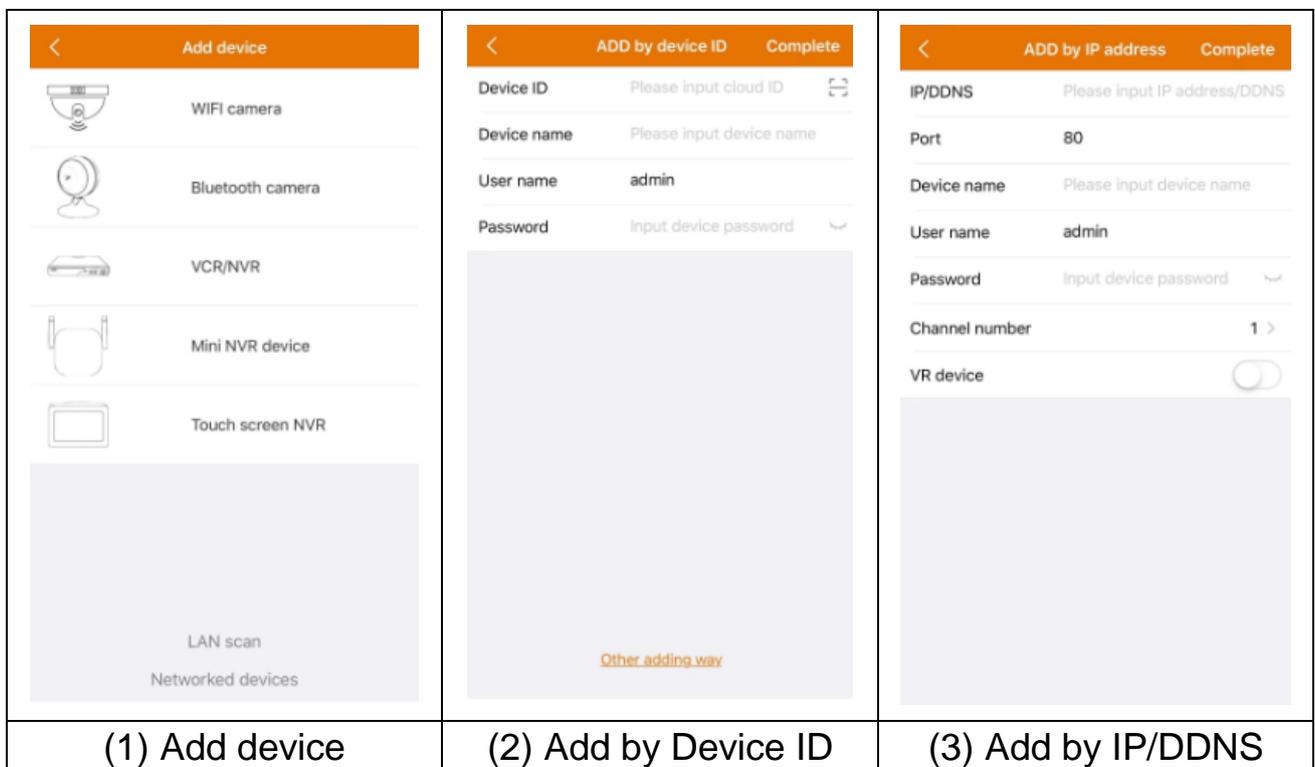
This mode is to add the device which is already configured and connected to a network, to the App and view the live video (see picture 5.3).

Note: Your Smartphone needs to be connected to the same local WiFi as the TX-145.

LAN/network scan adding: By clicking on LAN/network scan the App will search the local network for already configured cameras (TX-145). Choose the Device ID. Fill in a device name, username and password for the camera. The **password was customized by you** while WiFi configuration. The **standard username is admin**. Click on complete to save the settings.

5.4 IP/DDNS adding

By clicking on networked devices (1) the ADD by device ID will open. Here you can click on other adding way (2). Now it is possible to add the TX-145 by IP or DDNS (3).



Note: Adding the device by IP it is not possible to access the TX-145 from outside your local network (no connection via mobile network 3G/4G/LTE).

Adding by local device IP: You can find the IP address in the router menu or in the Security Premium PC Software. Fill in **port (standard is 80)** a device name, username and password for the camera. The **password was customized by you** while WiFi configuration. The **standard username is admin**. Click on complete to save the settings.

Note: Adding the device by DDNS it is possible to access the TX-145 from outside your local network (via mobile network 3G/4G/LTE).

Adding by DDNS: Enter your DDNS domain or the static IP of the router. You maybe need to set a port forwarding for the IP of the TX-145 in your WiFi router. There for check the manual of your router. Fill in the device name, username and password for the camera.

The **password was customized by you** while WiFi configuration. The **standard username is admin**. Click on complete to save the settings.

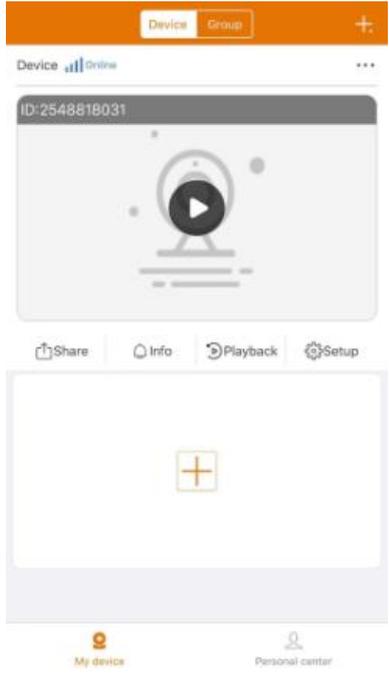
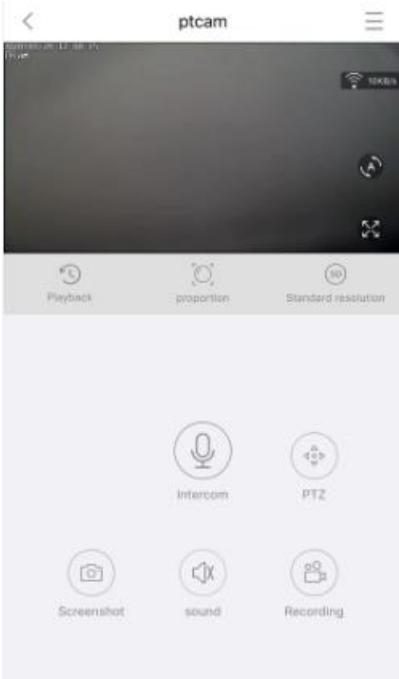
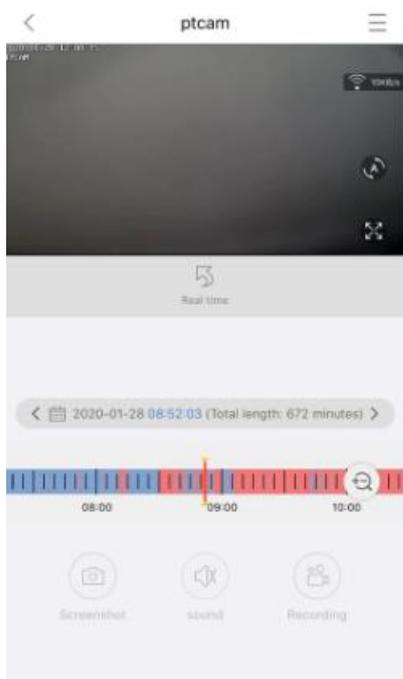
Note: Using DDNS function you need to:

→ Register to a third party provider (e.g. DynDNS, No-IP, etc.) that provides you a DDNS domain **OR** → your router has a static IP from your internet provider.

6. How to navigate through the App

6.1 My 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 Info (Push), Playback and Setup.

		
Device Interface	Live view Interface	Playback Interface

6.1.1 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.
- Single finger slides left/right to rotate the image.

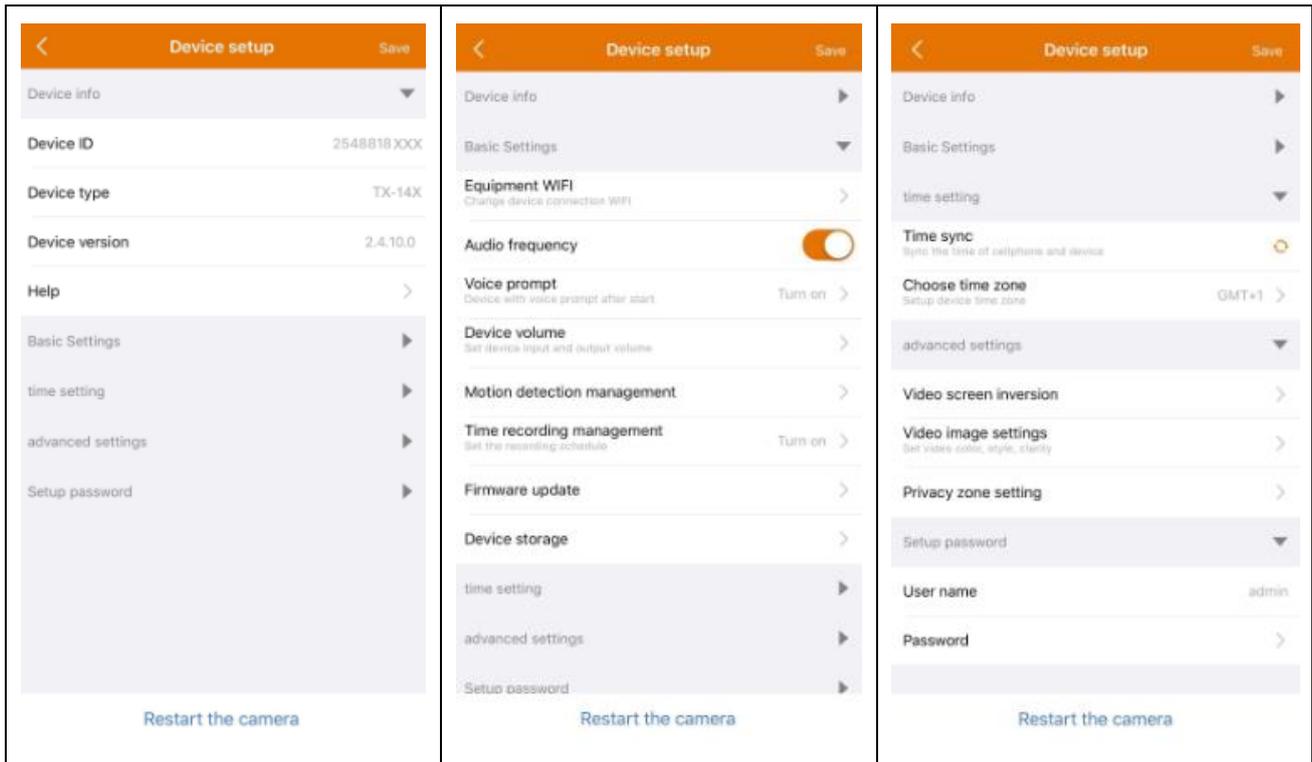
Button function list for Live view and Playback

	Device Setup	Click top right corner to backup videos or setup camera
	Connection	Shows the transmission speed of the data
	Auto cruise	(not available for this model)
	Full screen	Enlarge the image
	Remote playback	Playback videos stored on the MicroSD card or Go back to the live view.
	Proportion	Users choose the modes according to their needs.
	Resolution	Users choose the modes according to their needs.
	Light control	Besides the infrared function is none of the other options workable for this model.
	Intercom	Click on it to open the two way communication. Press and hold on the microphone to talk
	Screenshot	Take a screenshot of the live view. It will be stored on your Smartphone. Go to My center and click on Screenshot/Recording to view the taken pictures.
	Audio	Turn on/off the audio of the live view or the playback
	Recording	Click to record the currently seen as video. Click again to stop recording and save the video file to your Smartphone. Go to My center and click on Screenshot/Recording to view the taken recordings.
	Real time	Click to return to the live view

	Calendar	Choose the date you want to see the playback
	Zoom	Click it to zoom in and out on the timeline

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 ID (Cloud ID)	The ID number of the device. This item cannot be filled in. Device ID will be automatically configured according to device type.
Help	Find help how to use the App and also a small FAQ.
Equipment WiFi	Click to change the WIFI Router the camera is connected to.
Audio frequency	Enable/Disable the microphone to listen to audio configuration (is not usable to configure the camera).

Voice prompt	<ul style="list-style-type: none"> - Enable/Disable the prompt tone of the device. - Change the language according to user's needs. Voice Prompt is mainly used for WiFi configuration of the device and status information for the user.
Device volume	<ul style="list-style-type: none"> - Device recording: volume of the recorded video files - Device output sound: volume the device speaker playback the sound
Motion detection management	<ul style="list-style-type: none"> - Motion detection: 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 tracking: Enable/disable the tracking option. The camera will follow the moving object automatically. (not available for this model) - Motion detection recording: Detection of a moving object in the image, the camera will record the video and save it to MicroSD card. - Motion detection alarm/notifications: Enable/disable this function to get push notifications from the TX-145 with every detected motion. - Motion detection sensitivity: Select the sensitivity of the motion detection. Depending on the circumstances, a different attitude may be the best. - Motion detection tips/alarm siren: Enable/disable to here a siren sound from the TX-145 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.
Time Recording management	<ul style="list-style-type: none"> - Time video: Enable/disable continuous recording. Note: Recording schedule needs to be configured. - Recording schedule: Record the continuous video according to recording time schedule set up by user.

Firmware update	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.
Device Storage	Below options are listed under Device Storage. - MicroSD card status: Show the status of MicroSD card (normal or abnormal). If the status is abnormal Format the MicroSD card. This takes about 3-5minutes. - Available capacity: Shows available storage capacity of MicroSD card. - Format: Click it to format the MicroSD card. The procedure is about 3-5 minutes and is not blocked by other operation. Note: 64 -128GB must be formatted via the App! It could be necessary to format until the App shows MicroSD status: Normal.
Time sync	Time syncing between Smartphone and camera.
Choose time zone	Time zone is set automatically. If not, adjust it here.
Daylight saving time	Enable/disable summertime. Choose country. (maybe not available)
Video screen inversion	- upside down: Enable/disable to change alignment - left and right reversal: Enable/disable to change alignment
Video image settings	Change the pattern of the IR LED to auto, day (IR off) or night (IR on). If you use day or night the IR light will be always off/on. With auto it changes automatically if IR LED is needed or not.
User name	Admin is a fixed username, cannot be changed.
Password	Click on password to change the old password to a new one.

6.1.2 Playback

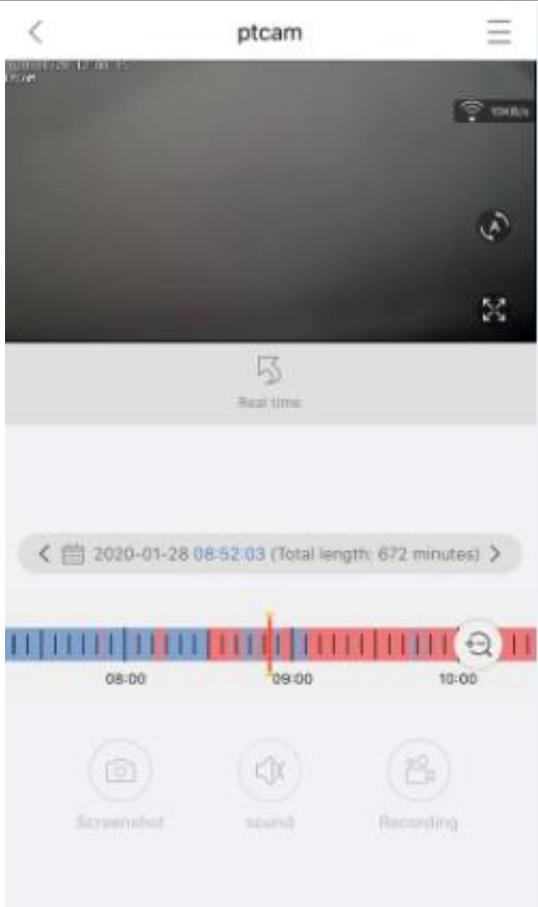
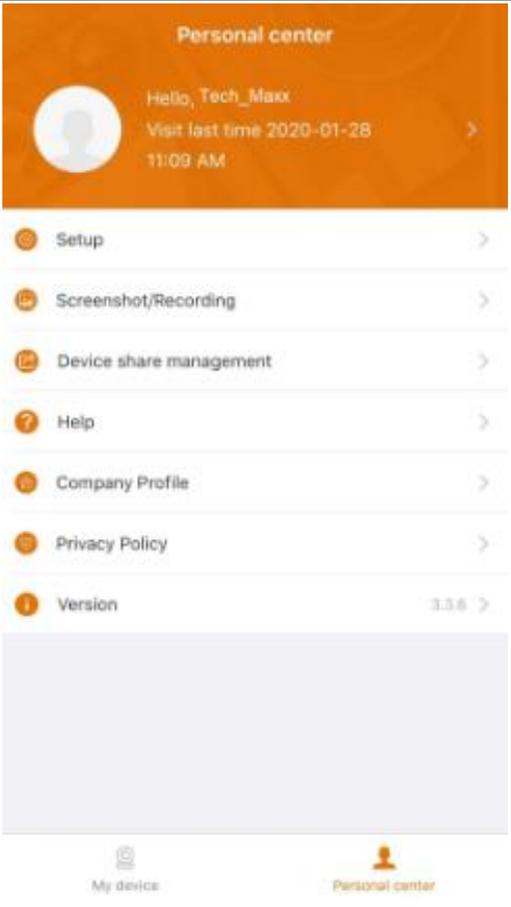
Click the button of remote playback  in the live view.

Precondition of TX-145 remote playback:

→ Make sure the camera time is already time synchronized with the App → Insert the suitable MicroSD card into the camera. → Setup recording schedule and enable time video OR (not necessary to setup recording schedule and) enable motion detection recording. None of these three conditions can be omitted. 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

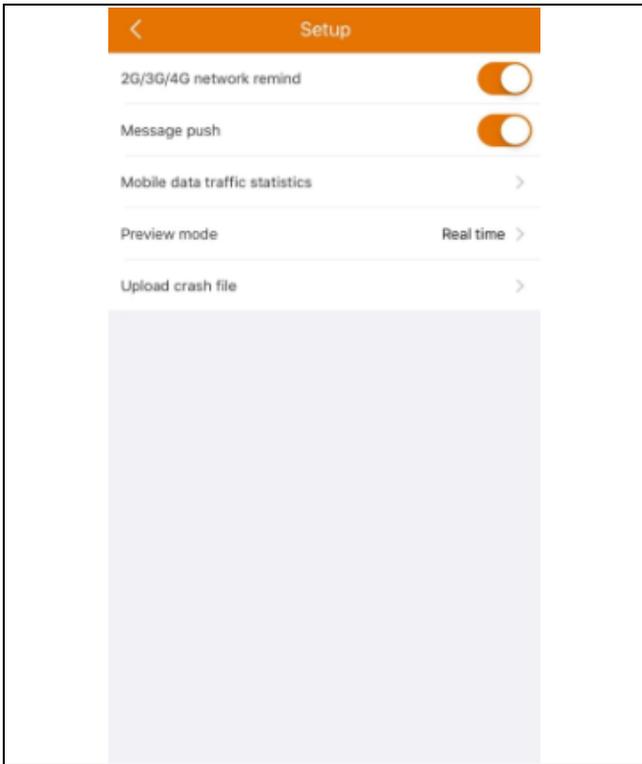
In the timeline you can find the colour BLUE and RED. BLUE marks the continuous recordings and RED the recordings of motion detection.

	
6.1.2 Playback Interface	6.2 Personal center Interface

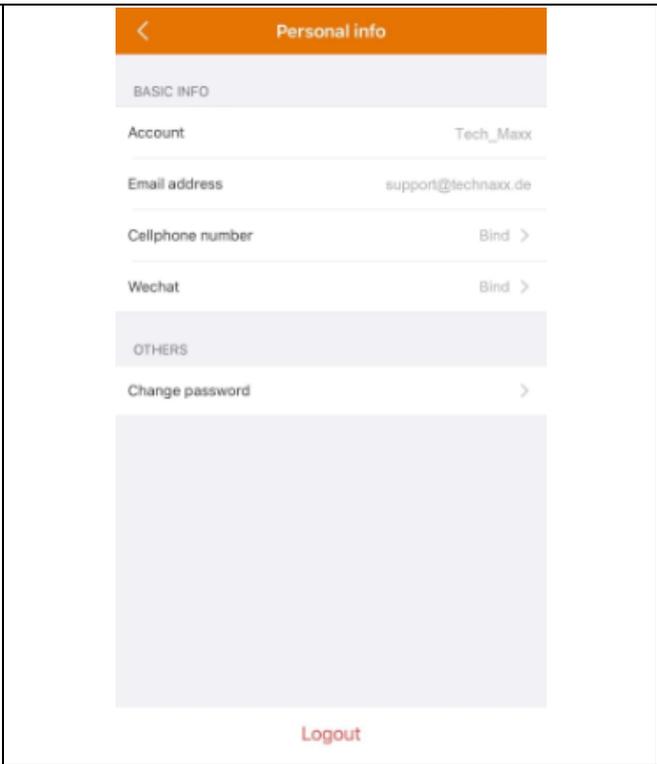
6.2 My center (personal area)

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

	<p>Add email address, cellphone number or WeChat account to bind and be able to login with. Change the password of your account. Like shown in the picture below.</p>
	<ul style="list-style-type: none"> → Enable/disable hard decoding (Android only) → Enable/disable if you want to be reminded that you are using 2G/3G/4G mobile network. → Message push can be enabled/disabled (iOS only) → See the statistics of how much mobile traffic you have used. → Enable/disable if devices nearby should be shown in the app automatically. (Android only) → Enable /disable shake and shake to find new addable devices. (Android only) → Select the preview mode between real time or fluency. → Push notification can be enabled/disabled (Android only) → Click to upload a crash file after the app has crashed
	<p>Check screenshot / recording file</p>
	<p>Devices that you share with other users are listed here.</p>
	<p>Click here if you need some help with the installing of your camera.</p>
	<p>Company profile</p>
	<p>Terms of service / Privacy policy</p>
	<p>Check APP version and shows current APP version</p>



Setup interface



Personal info (account) interface

Description of chapter 7 is based on Security Premium for Windows in version 2.0.6.

7. How to use PC Software Windows (& MAC)

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

7.1 Installation

→ Start the Security Premium.exe which you find under www.technaxx.de/support --> Security Premium --> TX-145

→ 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.

→ Now start with choosing the look of the software, classic or modern theme. (It can be changed in the software afterwards, if you do not like the chosen theme.)

→ Best is to use the setup guide, click on Next page. But you can also choose the One-Key-Configuration. It will start the software directly than go to 7.2.

→ Next step you can choose the language, the login type (local or cloud; cloud: with your registered account on App), the number of screens, how the device list is shown (tree or graph) and if you want devices to connect manually or automatically. Click on Next page.

→ Set the timeline scale, **do not** fill in WiFi name and password, If needed change the path for screenshot, local video and video downloads by clicking on the three dots behind the default path. Press Next page when you finished the settings.

Important: A 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.

→ On the last setup you get shown the devices in your network. Mark the devices in front you want to add. Fill in the device name (customer choice), username will be admin and password is the device password you customized while WiFi configuration on App. Click on Finish when you are ready.

7.2 Login and add device

→ The PC Software starts automatically. A login window will show up. Just click on Login if you choose Local login in the Setup guide.

→→ If you choose **Cloud login** enter the email address 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 choose the device you want to add. 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. Enter the camera password you were forced to change while WiFi configuration via App.

Security Premium

Security Premium Live View Playback Device Management Resource Management

+ Add Modify

Device list

User login

Remember password Auto login

Login

[Forget Password?](#)
[Switch to Login Cloud](#)

Group

PTZ Control

Current version: 2.0.6

Security Premium

Security Premium Live View Playback Device Management Resource Management

Device

Group

Add Device Modify Network

LAN Add: Cancel Add

<input type="checkbox"/>	ID	IP	Channel	Device Type	Device Name
<input type="checkbox"/>	615157.XXX	192.168.1.125	8	NVR	
<input type="checkbox"/>	1164171.XXX	192.168.1.188	4	NVR	
<input type="checkbox"/>	1430020.XXX	192.168.1.204	1	IPC	

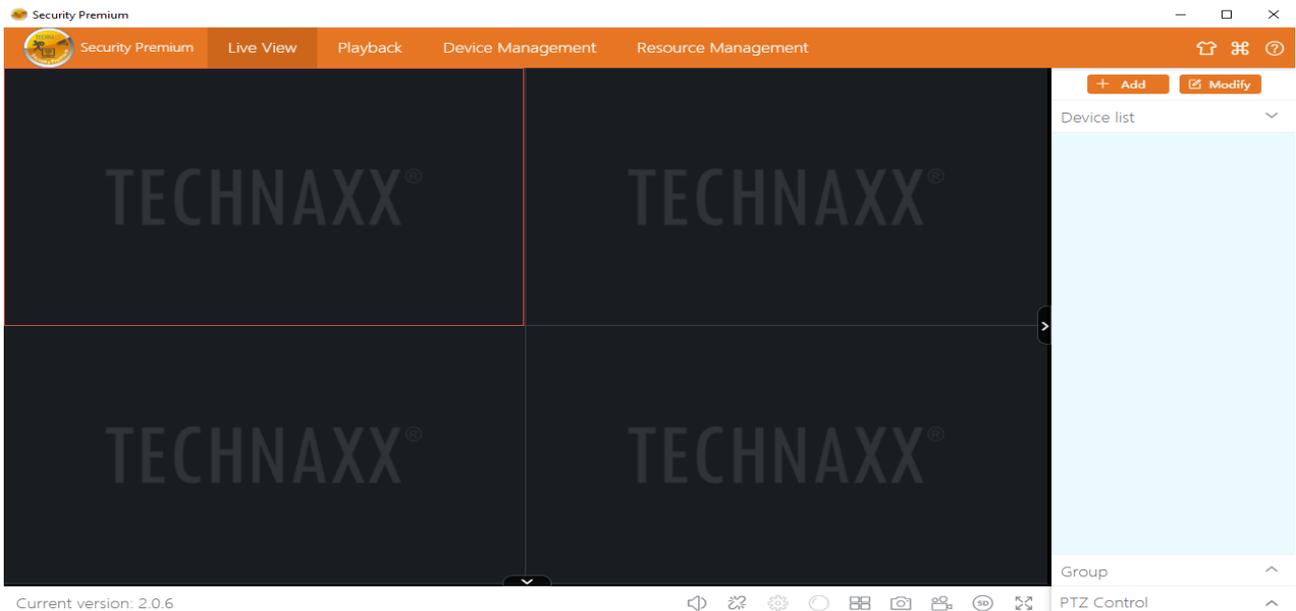
Device:

Default Area

Add Modify Set Clear Delete Add Area

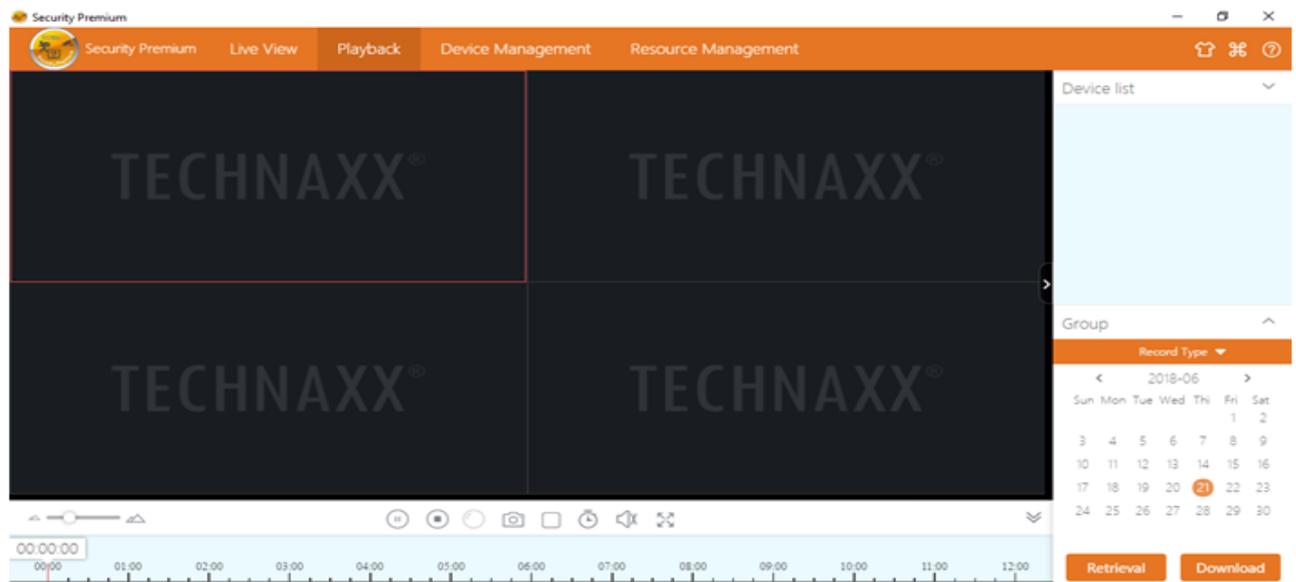
7.3 Open live view

To open the live view choose the Live view menu. Select the camera you want to view from the list on the right and double click on the device. The live view will open in the black window which is marked with a red frame.



7.4 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 coloured bars in the timeline. Those are the recorded files saved on the MicroSD card inserted to the camera.



8. FAQs

Q1: When adding device by LAN or serial number, it warns “device is not online” or “device is not registered”

A1: Make sure the internet connection which the device is using could access to internet normally. Check if the router has opened the DHCP function. If you have changed the network parameters of the device manually, we suggest to press RESET button for 5 seconds and make the device to restore to factory settings.

Q2: The device is online and also there is motion happening in surveillance area, but why not receiving alarm information on mobile phone?

A2.1: Make sure that the device IP from APP is running on the mobile, and motion detection function has been enabled.

A2.2: If you use Apple device, open the “message notification” function on the iOS operation system, and then you go to Security Premium APP.

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.

9. Technical Specifications

Camera

Colour sensor: 1/ 2.9" CMOS (2 MP)
Minimum illumination: 0.1 Lux @ (F2.0, AGC ON), 0 Lux with 3x IR LED
Viewing angle: 90° horizontal, 55° vertical
Lens / Shutter: f=3.6mm / 1/25s ~1/25000s
Signal system PAL/NTSC
Day / Night mode: built-in IR-CUT filter automatic switching

Video

Video resolution: HD (1920*1080) Smooth (640*480), max. 15fps	
Video file format: .TS	Built-in microphone & speaker
Supports MicroSD(HC/XC) cards up to 128GB (FAT32/ exFAT) class10	
File size (night; B/W): 1MB/min (32GB = 10 days continuous recording)	
File size (day; colour): 4.5MB/min (32GB = 5.0 days continuous recording)	
H.264/H.265 video compression	
G711A-Law 16bits 8kbps audio compression	
Streaming self-adaptive audio compression code	

Network

Network Interface: 2.4GHz WiFi	Radiated output power max. 100mW
WiFi: IEEE802.11b/g/n (30m)	Reset button, Password protection
Protocol: TCP/IP, UDP, P2P, DNS, DHCP, RTSP, ONVIF	

In general

Power supply: DC 12V / 1A	Power consumption 6W maximum
Motion detection ~8m (PIR 120°)	IR distance ~15m; 850nm (open space)
Protection class IP66	Alarm function (push message) on your Smartphone
Alarm function (push message) on your Smartphone	
Operating conditions: -20°C~+60°C, humidity 90% or less (non-condensing)	
APP "Security Premium": iOS 9.0 or above; Android 7.0 or above / EN, DE, FR, ES, IT, NL, SE, DK, NO, FI, CZ, PO (06-2020)	
Weight / Dimension: 700g / (L) 20.0 x (W) 8.0 x (H) 6.0cm (+18cm antenna)	
Package contents: WiFi IP Outdoor Camera TX-145, 1x power adapter 12V/1A, 3x Screws & Dowels, User Manual (short)	

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