Technaxx® * User Manual
Security Premium Camera Set 10.1 TX-29
Security Premium Camera Set 18.5 TX-30

Important Hint regarding the user manuals:
All languages of the user manual are on the CD enclosed.
Warranty 2 years

Contents

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 **R&TTE 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**

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.

Security Premium Camera Set 10.1" TX-29	Security Premium Camera Set 18.5" TX-30

1. Features

● Recorder & Receiver & Monitor in one device ● Wireless transmission with 2.4GHz via Plug & Play ● HD LCD monitor screen ● HD camera video resolution 1280x720 (720P) ●Built-in camera microphone for audio recording ● PIR sensor with ~8m distance at day & night ● Push message via APP when motion is detected ● Wireless camera connection with up to 4 cameras (TX-29) & up to 8 cameras (TX-30) ● Windows split-screen function with real-time/routine/event surveillance ● Hard disk storage function & USB backup function ●Network operation via LAN cable connection ● Mobile viewing via free iOS & Android APP (Technaxx Security Premium) ● Easy monitoring via PC (PC Client software) ● Worldwide PC access (DDNS) [www.technaxxp2p.de] ● IP66 camera protection class against waterjet & dust
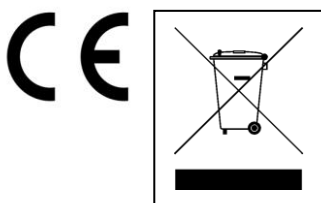
Hints for Environment Protection: Packages materials are raw materials and can be recycled. Do not disposal old devices or batteries into the domestic waste. **Cleaning:** Protect the device from contamination and pollution (use a clean drapery). Avoid using rough, coarse-grained materials or solvents/aggressive cleaner. Wipe the cleaned device accurately. **Distributor:** Technaxx Deutschland GmbH & Co.KG, Kruppstr. 105, 60388 Frankfurt a.M., Germany

2. Package contents

TX-29: Monitor with Stand, AC/DC Adapter 12V/2A, Wall bracket & screws & dowels, HDD bracket & screws, Antenna, **Outdoor Camera** with AC/DC Adapter 12V/1A, Wall bracket & screws & dowels, Antenna, Waterproof end cap, **General:** USB Mouse, Network Cable (2m), CD, User Manual, [*HDD not included]

TX-30: Monitor with Stand, AC/DC Adapter 12V/3A, Wall bracket & screws & dowels, Antenna, **Outdoor Camera** with AC/DC Adapter 12V/1A, Wall bracket & screws & dowels, Antenna, Waterproof end cap, **General:** USB Mouse, Network Cable (2m), CD, User Manual, [*HDD not included]

3. Product Overview

The main use of the device is local on the display. The TX-29 & TX-30 are recorder, receiver and display in one device. They can be used for example as surveillance device. TX-29 supports up to 4 cameras, TX-30 supports up to 8 cameras. Both need a HDD (not included) for recording and push notifications. The devices are supported by a local and a global WEB interface as well as a APP which is available for Android and iOS (Security Premium).

TX-29
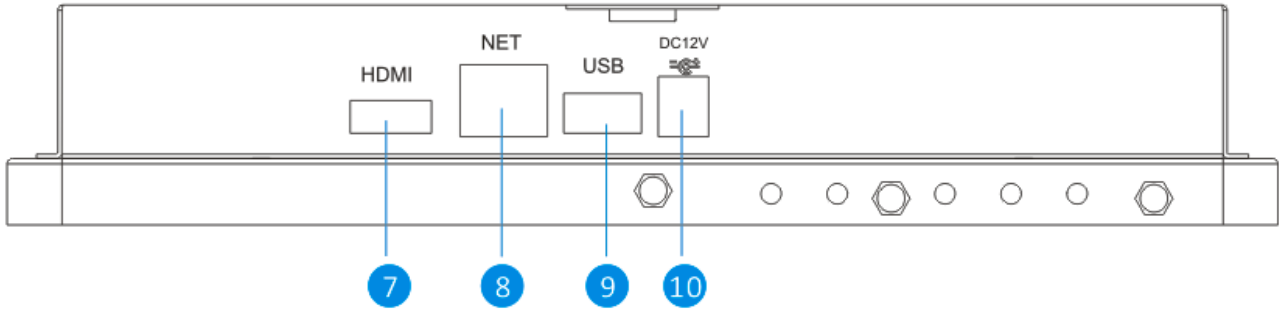
TX-30
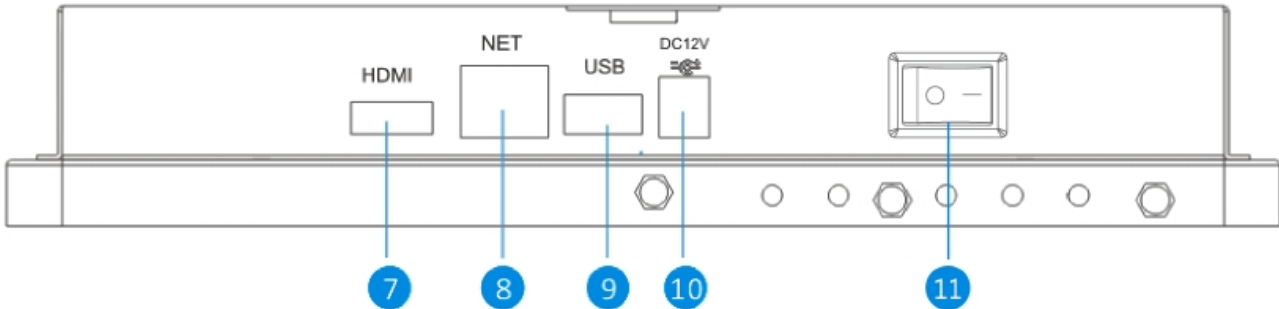
No.	Name	Function
1	AUTO key	Adjusts the screen display automatically.
2	MENU key	Activates and exits the OSD menu settings of the display (monitor)
3	← key	Moves the OSD menu or decreases the selected item value or decrease volume of the display (monitor).
4	→ key	Moves the OSD menu or increases the selected item value or increase volume of the display (monitor).
5	Screen key	Turn on/turn off the display screen.(monitor)
6	LED Indicator	The power LED lights up green when the display screen is turned on. The power LED lights up red when the display screen is turned off.
7	HDMI connector	HDMI output signal can be connected to another HD monitor for displaying.
8	Net	For a wired connection, connect this to a spare port on your home router (without this connection no access over the internet).
9	USB Ports	USB 2.0 Ports for mouse & external device(USB disk)
10	Power socket	Connect the power adapter here.(DC12V/2A or DC12V/3A)
11	Power On/Off	Turns ON/Off the monitor (only TX-30)

IP Camera:
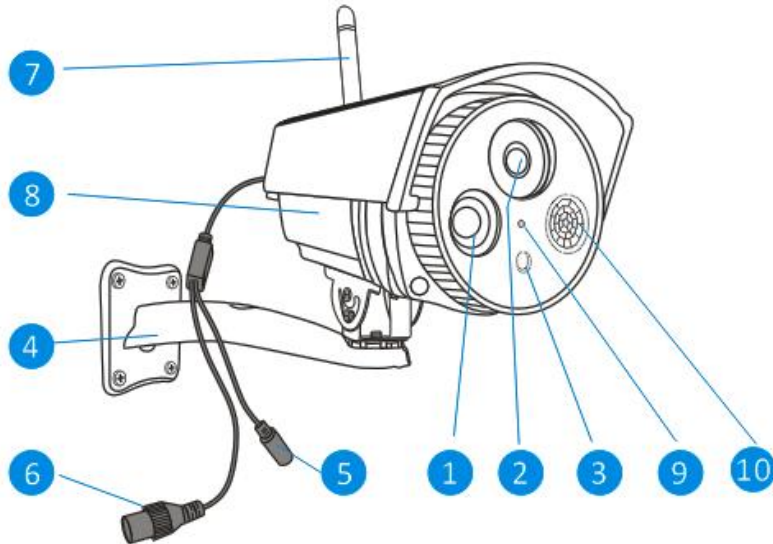
| No.	Name	Function
1	IR (Infrared) LEDs	The camera will use these in low-light conditions to generate a black and white image, even in total darkness.
2	Lens	The business end of the camera. For a reliable and clear image, ensure that the lens stays clean and unobstructed. To clean, use a dedicated lens cleaning solution and cloth, available from all good photography stores. (viewing angle: H:57.4° V:42.8°)
3	Light Sensor	Detects the amount of light available and turns on the IR LEDs when necessary.
4	Mounting bracket	The supplied mounting bracket can be screwed onto any flat surface.
5	Power socket	Connect the power adapter here.(DC12V/1A)
6	RJ45 Ethernet connector	For a wired connection, connect this to a spare port on your home router. It's recommended to use wired connection when the distance between monitor and camera is beyond the wireless transmission range.
7	Antenna	The included antenna connects here.
8	Housing	Made of metal. Protects the internal technique from weather.
9	Microphone	Allows the camera to pick up nearby sounds, and stream them with the video.
10	PIR (Passive infrared) Sensor	This is an electronic sensor that measures infrared light radiating from objects (human body) in its field of view. (viewing angle: H:120° V:60°)

4. Installation
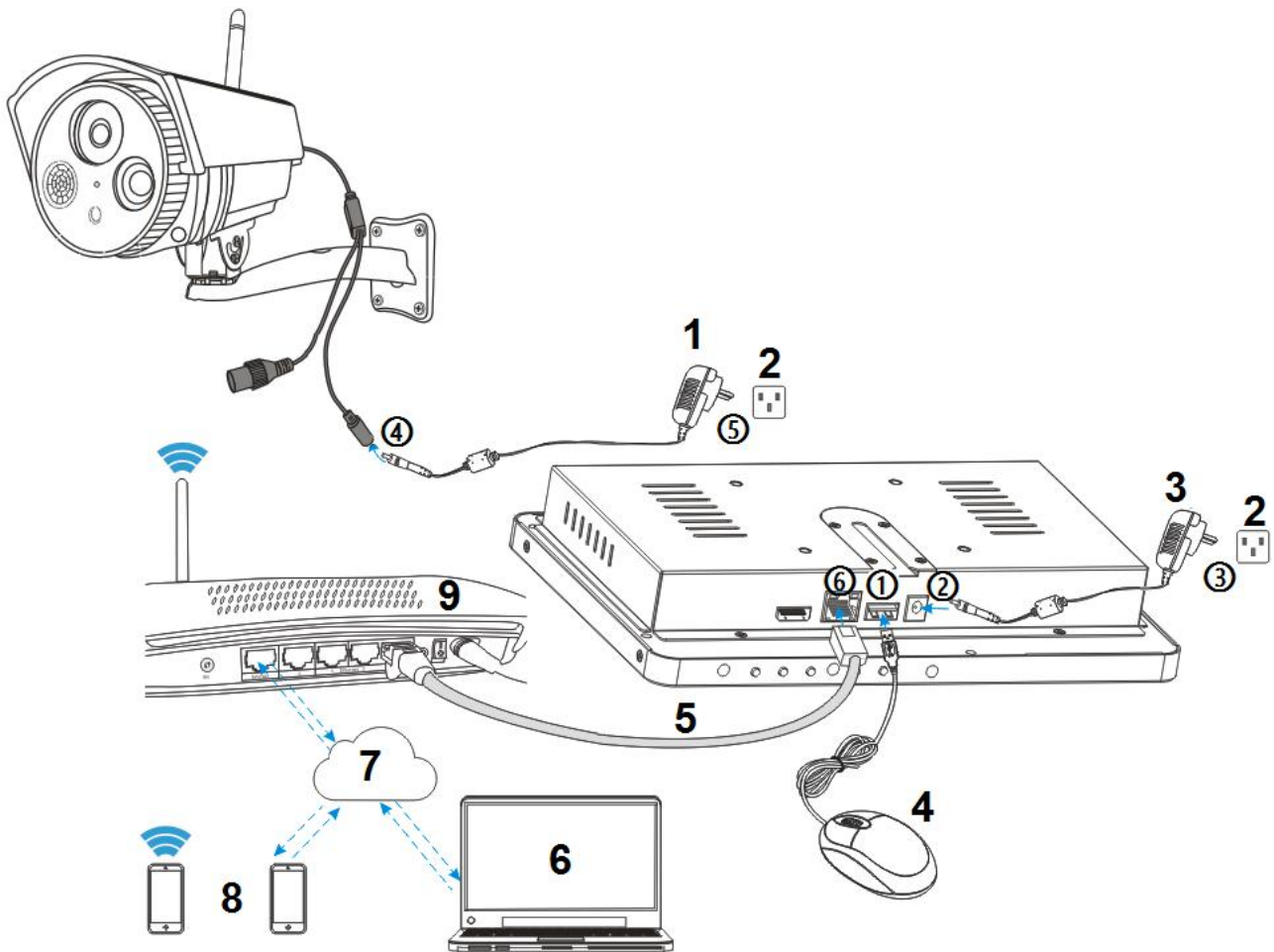
Figure 4-1

1	DC12V/1A	6	Computer
2	AC Wall Socket	7	Internet
3	DC12V/2A/3A	8	Smartphone
4	USB Mouse	9	Router
5	RJ45 Cable		

Safety cautions
• Make sure product is fixed correctly and stable if fastened in place.
• Do not operate if wires and terminals are exposed.
• Do not put a container with liquid near X-29 & TX-30 (like vase).
• NVR should put at a ventilation place, and prevent clogged the ventilation hole.
• Check the power voltage, in case if damage by wrong voltage.

4.1 How to install TX-29 & TX-30

See figure 4-1 above and follow the steps below.

① Plug in the included USB mouse to one of the USB connector.

② Connect the output of the supplied 12V power adapter into the power socket on the NVR.

③ Plug the power adapter into the wall socket.

④ Connect the output of the supplied 12V power adapter into the power socket on the Camera.

⑤ Plug the power adapter into the wall socket.

Wait for a few minutes till the TX-29/TX-30 and the IP camera finished startup. So far, the local surveillance system was done.

⑥ If you want to remote access this system with a Smartphone or computer, you should connect the TX-29/TX-30 to your home wireless router with a RJ45 network cable and make sure the router has been linked to internet. For Smartphone installation see chapter 6.3 Mobile application (Security Premium).

4.2 Antenna installation

Use a clockwise motion to connect the antenna. Make sure the antenna is connected firmly but not excessively. You can adjust antenna horizontal or vertical direction to get best reception.

Monitor	Camera
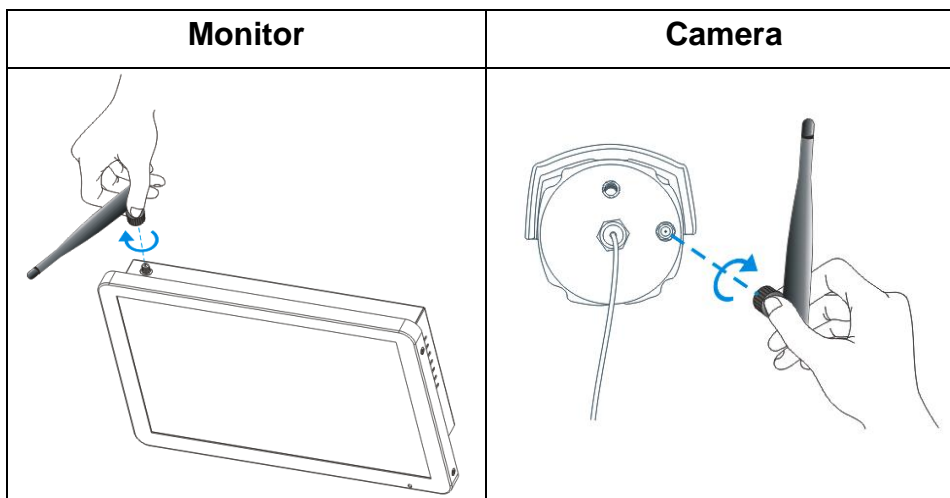
4.3 Hard disk installation

Note: Select HDD (See chapter 11. Attachment) and suitable for devices. HDD needs to be formatted manually for normal recording. HDD is needed for recording (Time, Motion, Sensor), playback of recordings, saving log files and sending out Push Notifications.

TX-29 (HDD has to be 2.5 inch, max. 4TB)

1. Remove the screws of the device back cover.	2. Combine the HDD bracket and HDD with screws.	3. Connect the data and power cable.
4. Fix HDD to the device mid-plate with screws.	5. Fix the back cover with screws.	

TX-30 (HDD has to be 3.5 inch, max. 4TB)

1. Remove the HDD cover.	2. Put in the HDD	3. Fix HDD with screws
4. Connect the data and power cable.	5. Place the HDD cover back on.	6. Fix the HDD cover with screws.

4.4 Add camera to TX-29/TX-30

The included camera in the kit have been paired with NVR at the factory, no need execute this operation. If you want to add more cameras to NVR, follow the below steps:
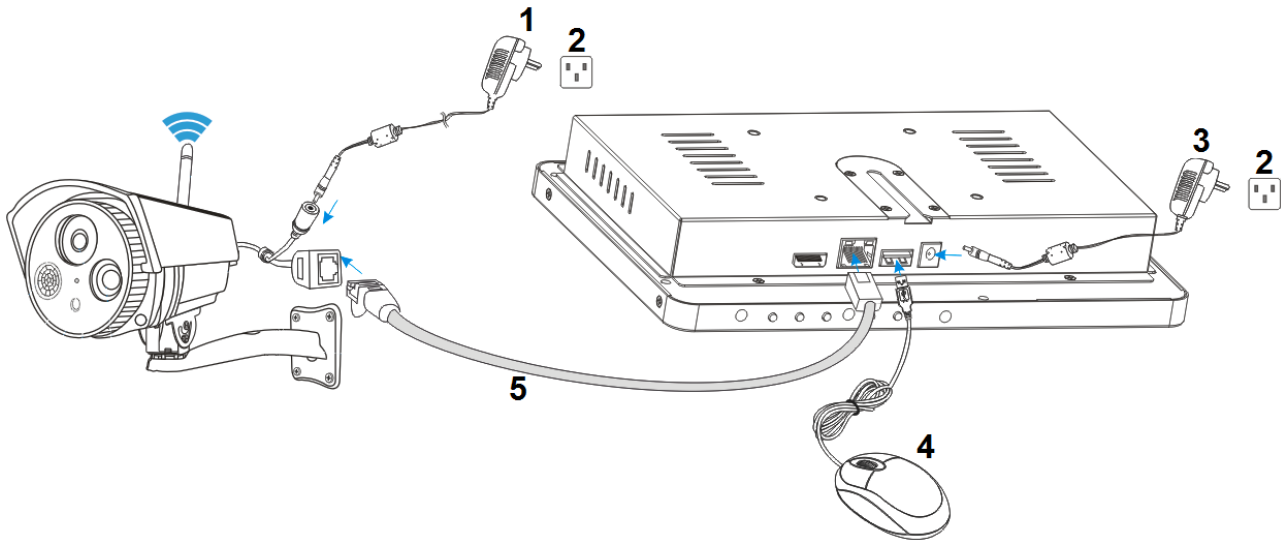
1	DC12V/1A	4	USB Mouse
2	AC Wall Socket	5	RJ45 Cable
3	DC12V/2A/3A		

① Connect a new IP camera to the NVR with a network cable, then power the IP camera on, wait for about 1 minute.

② Click the mouse right button on the main interface and click "Video Manage" →Select the protocol "N1" and press "refresh"->select the camera in the search list and press "Match code" and answer with yes.

Note: Match code only works with cameras of the TX-29 or TX-30 system (additional cameras).

③ After about 30 seconds the new camera will be occurred in the "added device" list, and status displays "Connect success". Now the camera is connected via WIFI with the NVR,

④ After the camera has successfully connected with the NVR either connect more cameras or unplugs the network cable from the camera and plug it back into the router or NVR depending which network cable you used

⑤ Now you can place the camera up to 40m (open field) away of the NVR. It is also possible to use the repeater function of the camera if you have at least two cameras. For repeater function see chapter 5.2 Video Manage.

Note: It is also possible to connect the camera and NVR by network cable to the router or the same network. The camera should be nearby the router. When you have set this up you can go on with step ② above.

5. Software Functions

Following operations can be seen by clicking the right button of the mouse on the display monitor.

5.1 Split screen

To change the number of views on the monitor right clicks on the monitor with the mouse. Select: x1 = 1 channel view, x4 = 4 channel view, x6 = 6 channel view, etc.

5.2 Video manage

Select the camera from the upper list you want to add. See chapter 4.4.

Protocol	There are three different protocols to select Standard, N1 and ONVIF. **Standard:** Shows mostly all IP cameras that are connected to the network after pressing refresh. **N1:** Shows the IP cameras of the TX-29 & TX-30 system that are not connected to NVR (WiFi: But have already matched to NVR) after pressing refresh. IP cameras that have matched via WiFi with NVR can only connect to one NVR (TX-29 or TX-30). IP cameras that are connected over the Ethernet cable to the network can be connected to more than one NVR. **ONVIF:** Shows all the IP cameras with activated ONVIF protocol after pressing refresh
Refresh	Search IP CAM information. The list will be updated.
Match Code	Is for adding new IP cameras to the NVR, the NVR and the IP camera need to match together via the password key process. After that we can connect the wireless NVR device.
Auto Add	All cameras you see in the list will be added automatically, when the network connection of the cameras are under good condition.
Modify	Select a camera from the search list. You can edit the IP Address of the selected camera, **Username** & **Password**.

Advanced	Multiply Network Segment (not supported)	Multiply Network Segment means that access a segment to add the device.
	Allow Repeated Add	When enabled you can add the same camera more than one time
	Intelligent Add	Intelligent add is smart add functionality. It is mainly used for the wired camera. You can ignore it. The intelligent add will check if the IP camera and the NVR segment are the same. If not, the NVR will change the IP camera segment to be the same as the NVR automatically.

Added devices:

Delete	Select a camera from the added device list and delete it!
Delete All	Delete all cameras in the added device list!
Manual Edit	Edit channel connection parameters. You can flip the image 180° with Image Rollover.
Channel Setup	Press the button, then you get to main Channel Setup page. Here you can change the Channel & Encode mode.
WiFi Setup	Press the button, then you get to main WiFi Setup page. Here you can change or edit the SSID for better WiFi connection. **Attention:** If you change SSID or Password you have to reconnect the cameras. See chapter 4.4.

Repeater: Repeater function is for extending the range of the WiFi signal of the NVR. The camera that is set as repeater has to be in the range of the NVR (open field 40m). The camera that you will connect to the repeater camera should be in the range of 30m (open field) to the repeater camera. Follow the steps below to install. **Attention!:** Don't forget, cameras that are connected by repeater function get all turned off when the first repeater is disconnected from the power supply.

Both cameras must be first connected to the NVR (see chapter 4.4) and should be nearby to the NVR and each other. Now press the ⊞ button and see next step.
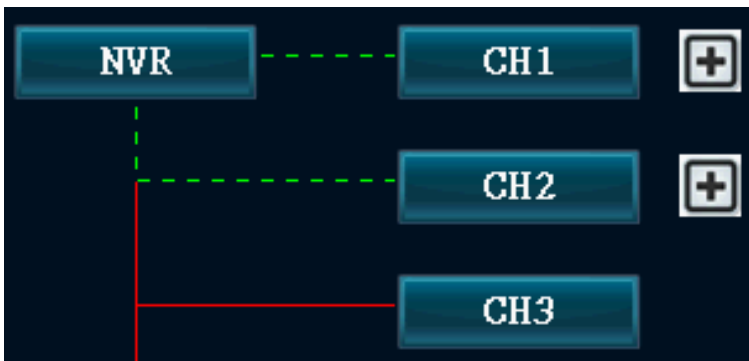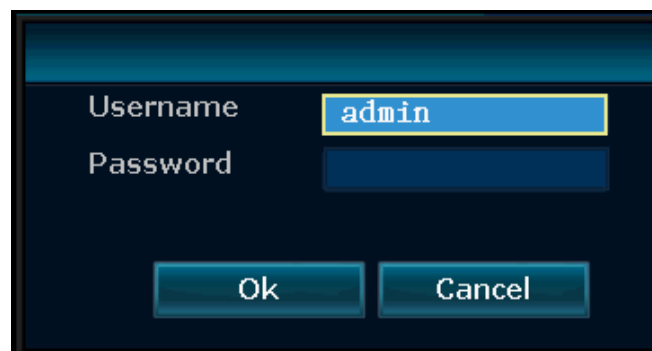
By pressing ⊞ button a dropdown menu opens. Select the channel number (camera) that you want to connect to the repeater.

After adding you can see the picture on the right. Both cameras are in a row. If you are sure you want to configure press on Apply or OK to save the option. **Tip:** Now first try to find the right place of range and connection before you firmly attach the cameras to the wall. **Note:** If you finish this setup and you want to reconnect the second camera to the NVR again go to chapter 4.4.

5.3 System setup

General setup:

General setup	The main functions of the device like Auto Logout, Key buzzer; Language, Keypad Type and Remote ID can be set under this menu. Boot Wizard, Show Device ID when Preview, Show time when Preview and Auto Turn Off Screen can also be Enabled/Disable.
Time setup	**Time Zone:** Select your time zone for proper time view **Date format:** Set the correct date format for your area **System Date:** This will be set automatically from the recorder **System time:** This will be set automatically from the recorder **Sync Time:** The system time can be synchronized from the link set under "Advanced" (the device must be connected to the Internet) **Time format:** Select between 12h & 24h format.
Screen setup	**OSD Alpha:** The white balance can be set under this menu. **VGA resolution:** The display resolution can be set her. **Auto Switch**: Switch between x1 view & x4 view (2-10 seconds)
HDD setup	You can format the hard disc and set the value after which period of time the oldest file shall be deleted.
Error setup	Enable one or more of the following alarm you want to get a notification. (when HDD`s are not found, Disc error, Insufficient Disc space, Network disconnection, IP address conflict, Record error or all). Choose from the three notification possibilities. Alarm: In the live view a red triangle with a exclamation mark will be shown if one or more errors occur. **Buzzer:** The device starts buzzing when one or more errors occur. **E-mail notice:** The device sends out an email with the corresponding message of the error.

Record setup:

Record Plan → Set four time periods for every channel for everyday of the week. First select the channel and weekday. After that set the time periods you want to get alarmed. You can set Alarm, Motion, Sensor or all by checking all three boxes. (By checking motion the display shows a yellow walking man in the top right corner of the channel that the alarm occurred. If you have activated time and not motion you will see a clock on the top right corner of the channel. If you have activated sensor you will see a yellow triangle with a exclamation mark in the top right corner of the channel) If you need to copy for every day you must press "Ok" button to save for all weekdays. With Copy to you can copy the settings of one channel to another or to all. Don't forget to save the settings by clicking on Apply or OK. **Note:** To enable motion detection and define the region which should be motion detected. Go to channel setup → Video detection.

Time: If enabled device will record all the time.

Motion: If enabled device will record when motion is detected does not matter what moves.

Sensor: If enabled device will record motion when the PIR sensor is triggered.

Alarm Setup → Not supported! Alarm detectors could be added here for an alarm system.

Network setup:

DHCP will be set as default it is the easiest way that the TX-29/TX-30 connects with your network and get an IP. But it is also possible to set the IP address manually. The IP address and the port (default 81) of your device are shown on this page. The page displays the network status where you can see if the device is connected to a network and the internet. (Healthy network = OK; Network cable Disconnected = fails to connect.)

Device ID has to be checked to get a connection when you are not at home. The number (Device ID) is needed to login on www.technaxxp2p.de to access the TX-29/TX-30 from everywhere.

Note: The precondition to generate Device ID is that make sure the NVR is connected with internet, and IP address is available.

After successful connection to your network and internet the NVR will get an IP address and generates Device ID automatically, once generated, it will appear in menu.

You find the QR Code of the device for easy setup when you click on "Show QR Code".

DDNS	Enable the DDNS Function and set the data to use the service. (Notice to use www.technaxxp2p.de which is enabled and useable from factory.)
FTP	**Not supported**
PPPoE	Select enable and input "Username" and "Password" you get from your ISP (Internet service provider). Click Apply, you need to restart to activate your configuration. After rebooting, TX-29/TX-30 will connect to internet automatically. The IP in the PPPoE is the dynamic value. You can access this IP to visit the unit.
3G	**Not supported**

E-Mail	If you want to receive alarm emails when motion (motion or sensor enabled) is detected, you must enable the function and fill in the settings. When you are finished with the settings first press Apply and then Test to check if your settings are right. Health Mail Interval is to check if the mail function is working properly. **Note:** Mail will not include picture just the information about channel, date & time, device and IP address. SMTP Server: Fill in the SMTP server of your provider. Port: Fill in the SMTP Port for SSL. 25 or 587 are the common for SSL. **Attention:** STARTTLS and TLS are not supported! Username: Enter your email address. Password: Enter the password of your Email address above. Encryption Type: For encryption use SSL. Sender: Fill in your email address again. Receiver1: Fill in the receiving email address (suggestion use your own again). Receiver2. Fill in a receiving email address (suggestion use email address of other person). Subject. Fill in the headline of the email. Interval: How often the email will be send (Unit is in seconds). Health Mail Interval: If enabled every xx minutes you will receive an email if sending is working. Test: After saving press Test to check if your settings are working.
WiFi setup	Important: The WIFI is just for connecting the cameras to it can't be used as access point for other devices! Set the WIFI network for using the kit in wireless mode. Customize the WIFI SSID & password. The WIFI Channel can be selected to switch to lower frequented channel. This is important to avoid WIFI interferences. By clicking on update the data will be refreshed. By pressing Reset button the default settings will be restored for WiFi Setup. **Attention:** You must select the correct "Region" in order to work the KIT correctly! **Note:** If you change WiFi SSID and password you have to connect the cameras again with match code. See chapter 4.4.

Channel setup:

Encode setup	Select the correct channel & encode mode (AV stream = video and sound). The Main stream & Sub stream will be set automatically.
PTZ setup	**Not supported** for the included camera model. You can set the tour position up to 32 stops. For every preset it is possible to add how long the position is to view. The tour can be added, updated or removed!
Channel OSD	**Channel:** Select the channel and adjust the color for it. **Camera Title:** Customize camera title. **Status Display:** The position of Display status of channels for each camera can be set by clicking on Display Setup to: Just Below, Just Above, Upper Left, Upper Right, Bottom Left, Bottom Right or Center. **Connection Quality:** If enabled the WiFi strength will be shown for each channel.

Video Detection
→ **Channel:** Set the channel you want configure detection. With Copy to you can copy the settings for one channel to all other.

→ **Detection:** Here you can activate one of three or all detection methods. Its recommended to use either Motion or PIR Sensor. Difference between Motion and PIR (Sensor): Motion detecting is through experimental image changing to cause alarm and PIR alarm sensor is the human body sensor which belongs to the hardware module (camera).

→ **Motion:** Has to be enabled, you can set the sensitivity from Lowest to Highest in 5 steps. With alarm duration you choose how long the alarm will last, for buzzer function for example.
Handle: The different notifications you can get are set here.. The red triangle symbol in the left bottom corner is for **Alarm** reminding. Click on it to see alarm information.
After activating **Buzzer** function the TX-29/TX-30 will make an acoustic sound when an alarm is detected (set volume with arrow keys of the display).
Activate **E-Mail Notice** do get informed by Email when an alarm occurs. **Note:** You have to set up the email configuration under Network setup → Email.
By checking the **APP Alarm** you will receive Push notifications on your Smartphone when you have installed Security Premium. (Under Me → activate the alarm setting in the APP .)
Arming Time: You can set up to four different periods the detection is working. To enable check the box behind.
Area edit: You can define the detection region (only for Motion).
PIR Input Armed (Sensor): To activate PIR you only have to set detection to PIR Input Armed and customize the notification under Handle and the Arming time.
Video Loss: To activate set the Alarm duration, the notification type under handle and the Arming Time.
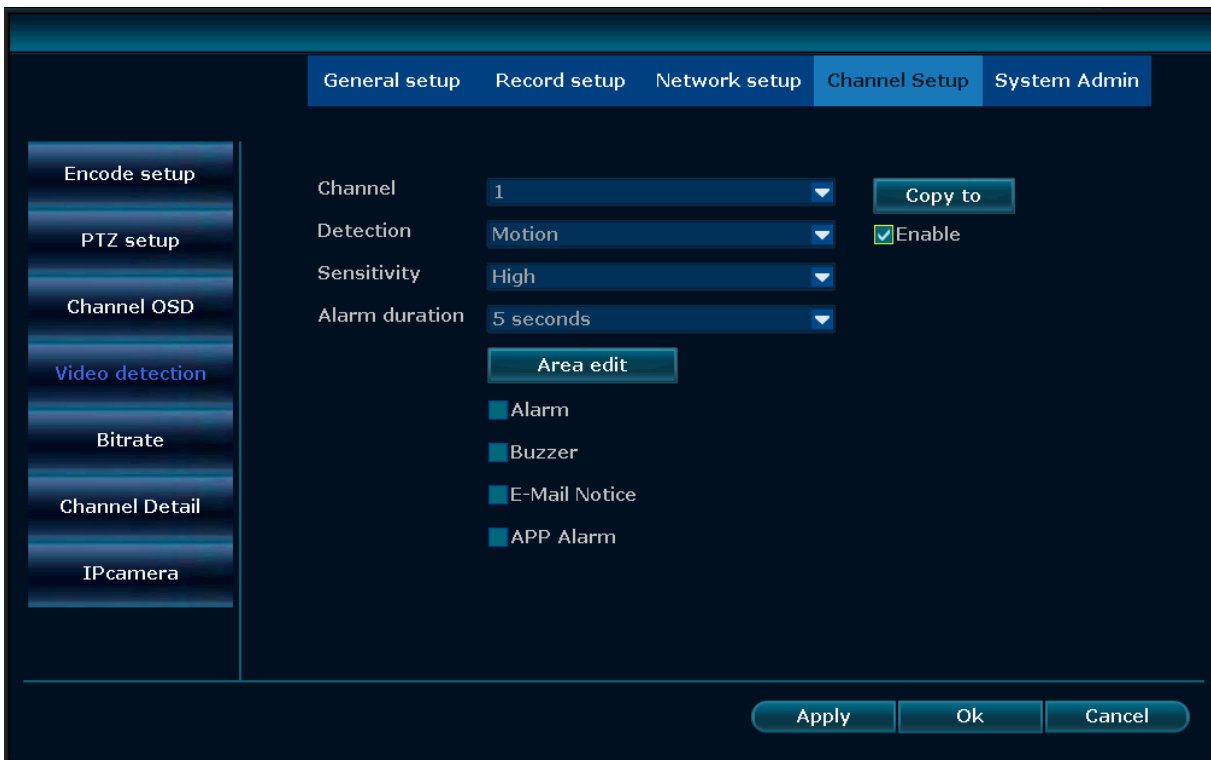
By checking Alarm for motion the display shows a yellow walking man in the top right channel corner when alarm occurs. If you have activated time and not motion you will see a clock on the top right corner of the channel. For PIR sensor a yellow triangle with exclamation mark is shown in the top right corner of the channel.

Bit rate	Shows the data traffic of each channel.
Channel detail	Shows information about the connected cameras sorted by the channel. Also the installed camera firmware is shown.
IP camera	**Not supported** for the included IP camera. Select the channel and choose the way you installed the camera.

System admin:

System version	Shows the system information of the device. Like Hardware version, software version and WEB support address. Over this link and your Device ID you can access your device from every PC with an internet connection in the world.
HDD Info	Shows the status of the installed HDD. Total size, used size and free size. It also shows the Model name of the HDD.
System log	Shows the different event types (All, Error, Device warning, Alarm Record, Configuration changed, shutdown and boot up). Note: The logs are only saved when a working HDD is installed (Logs are saved on HDD)
User Management	Add, Delete, Edit and Set password for user. By adding a new user you can choose what options the user is allowed to use. **Important:** After the first login change the password of admin and add a new user to use.

System upgrade	For the system upgrade you need to copy the firmware to an **empty USB disk**. Insert it to the free USB port of the TX-29/TX-30. Select from the menu USB storage and the option you want to update (mostly system). Choose the firmware from the list below and press on start.
System Maintenance	Select period (disable, once, every day, or every week), day and time the system can start its Auto Maintenance. It will reboot to the set time. For 60 seconds the device is restarting there will be no video recording.
Factory setting	Choose All to factory reset all settings or choose from the list the settings you want set back to factory status.
IPC Maintenance	Shows the directly via WIFI connected cameras. Also it is possible with this option to upgrade/downgrade the firmware of the cameras.

5.4 Video playback

To view the last record (5, 10 or 30min) click the mouse right button on the main interface → Video playback → choose the past search time → choose channel No. The playback starts. For recordings that are more than 30 minutes ago (Manual Search) click the mouse right button on the main interface → Video playback → Manual Search → choose channel No → choose record mode → enter Search time, input the beginning time and end time → click search button. The recording will open and start automatically.

Tips: Playback icon introduction: ◀ previous frame, ▶ next frame, ▶ play, ⏸ pause, ▶▶ fast forward x2, x4, x8, x16, x32
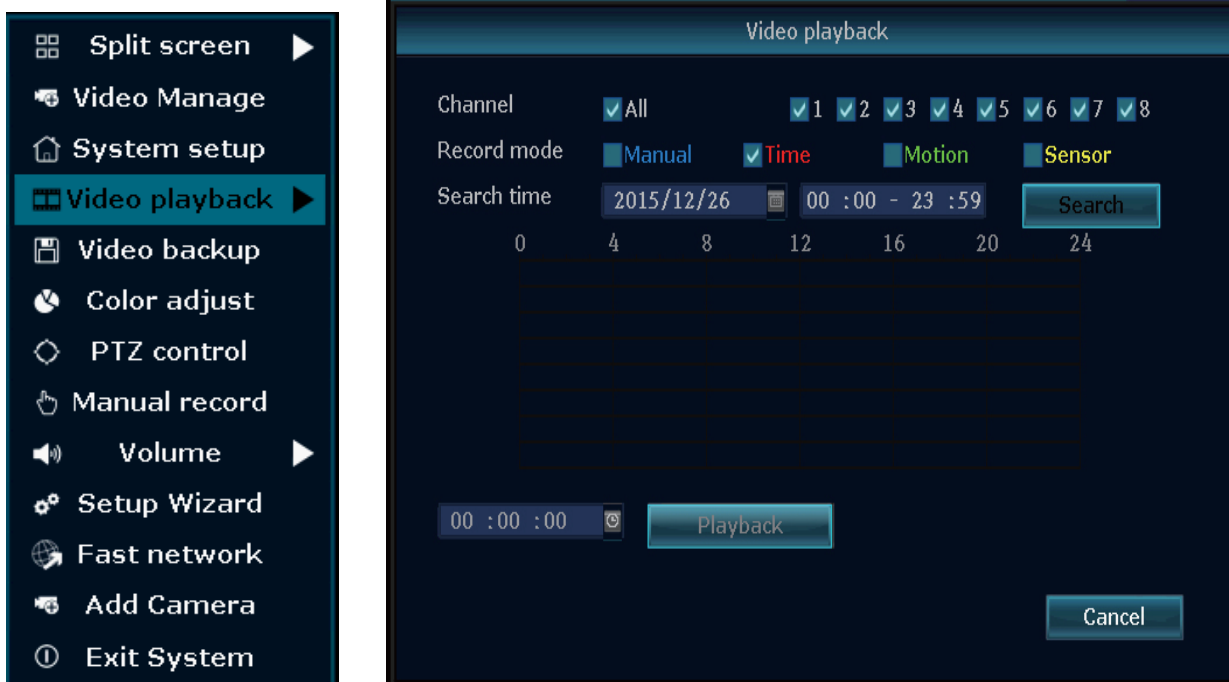
5.5 Video backup

Click the mouse right button on the main interface → Video backup → choose channel No. → Choose record mode → enter Search time, input the beginning time and end time → click search. The recording will come up → choose the videos which needed to backup → click on Backup. **Note:** It will take a longer time to download. The more files you choose the longer it will take! **Tips:** Support 32GB USB disk backup max. Also useable to download recorded data to an USB stick. Video format will be .avi.
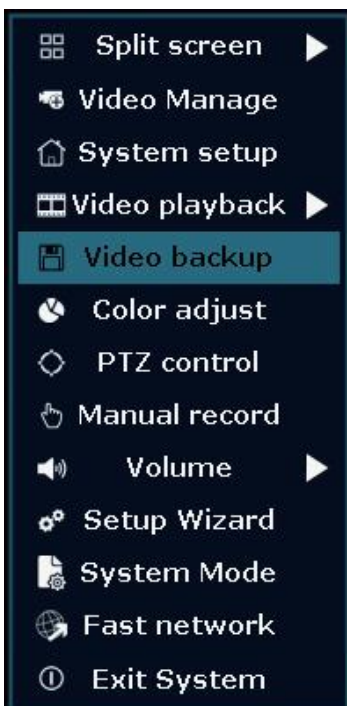
5.6 Color adjust

Before you can adjust the color you have to switch via the split screen function to the channel you want to adjust. Then click the mouse right button on the main interface → Color Adjust. Now on the right bottom appears a window where you can set the Hue, Brightness, Saturation and Contrast. You can also choose from the presetting bright or soft. If you don't like the made changes press default to reset.
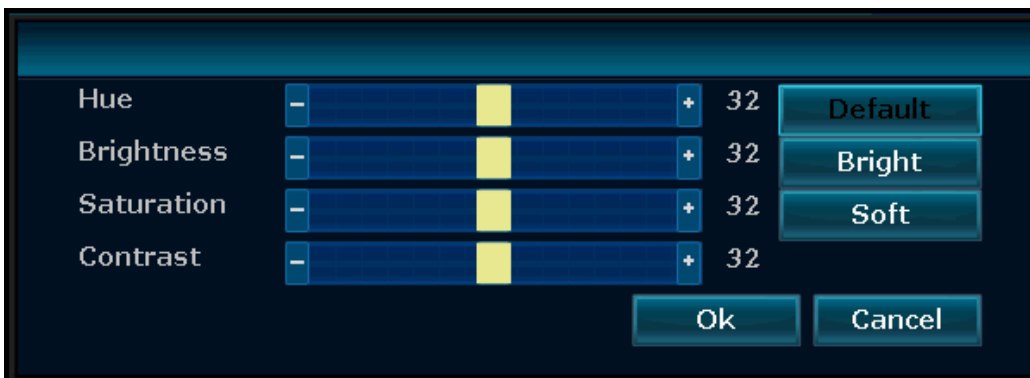
5.7 PTZ control (not for included cameras)

Open the menu by clicking the mouse right button on the main interface → PTZ control. On the right bottom will be opened a window where you can vertical and horizontal move the camera. You can also set a preset, start a tour, and zoom.

5.8 Manual record

Open the menu by clicking the mouse right button on the main interface → Manual record. To manually record the wanted channel you have to check the box of the channel and click on **OK**. See picture below. It is also possible to select "**All**" or "**All on**" than will all channels be recorded. By pressing "**All off**" the manual record will be stopped.

5.9 Volume

Set the system volume here. It defines the volume of the buzzer. (Buzzer volume can also be defined by pressing the ← key for decreasing and the → key for increasing of the monitor.)

5.10 Setup Wizard

Here you can see the Device ID as QR code. By checking the box below you can start the Boot Wizard again. This helps you setting the basic options of the TX-29/TX-30

5.11 Fast network

Here you can see the Device ID as QR code. You can setup the network options of the TX-29/TX-30 with two options. Choose Auto Config to let the NVR set everything on his one or choose Manual Config to set IP, Gateway and subnet mask by yourself. Under Manual Config you can also decide to choose the PPPoE function if necessary for you. Click on Apply or OK to save the settings. By clicking on the button Diagnose the NVR will scan his network connection and tell you the status in the line Network Status.

5.12 Add Camera

By entering this option the NVR will start searching and adding cameras nearby. It's a fast adding function. It will stop when you click on Exit. After that you can see the automatically added cameras on the display.

5.13 Exit System

Under Exit System you can Logout the current user, Reboot the device, close the screen output (to reactivate the display, double click the left mouse button) and Shutdown the system.

6. Device Access

6.1 Access via LAN (local WEB Interface)

Local WEB Interface is only for live view and playback. Do settings directly on NVR.

Step 1: Click the mouse right button on the main interface-> System setup ->Network setup Check NVR IP address.

Step 2: Access by computer in the same LAN, input NVR's IP address and port (default 81) for example: http://192.168.1.110:81 in IE browser (recommended) or any other browser. Then it will access LAN log in webpage, input user name and password, click login (Standard username is admin and Password is empty, if you haven't changed!).

IMPORTANT: Change the standard password and customize it. Therefore go on the NVR to System setup → System Admin → User change the admin password and set a new user!

Step 3: Once access successfully, can get the live video.

Tips: Make sure the NVR and computer be working in the same network segement.
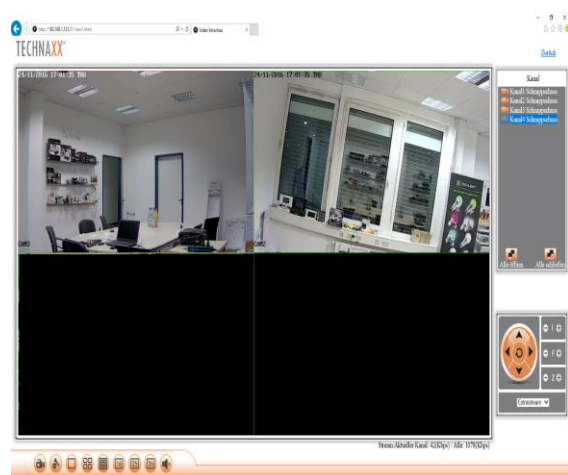
6.2 Access via WAN (global WEB Interface)

Global WEB Interface is only for live view to check from other locations on a computer.

Step 1: Click the mouse right button on the main interface-> System setup->Network setup Check video recorder Device ID.

Step 2: Access by computer in WAN, input www.technaxxp2p.de in IE browser (recommended). Then it will access log in webpage, input Device ID, user name and password, click login.

Step 3: Once access successfully, can get the live video.
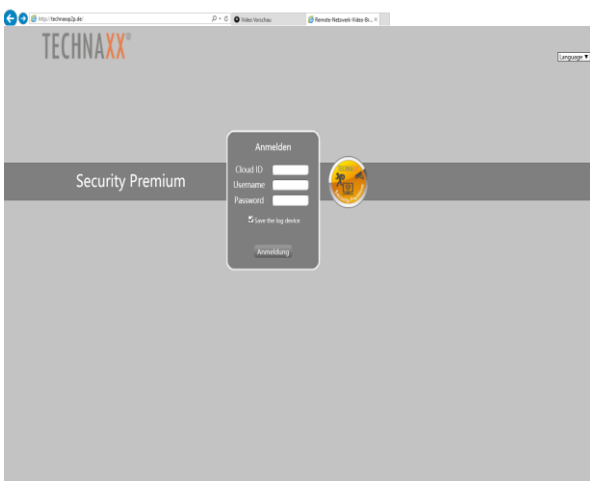
6.3 Mobile application (Security Premium)

The TX-29/TX-30 can work with iPhone and Android devices. Install the mobile APP and use your mobile for remote viewing/playback your NVR. The mobile APP is free to download for you, and is available from the respective Apple APP Store and Google Play Store.

To install APP on Android	To install APP on iPhone
1. Open Google Play Store.	1. Open the APP Store.
2. Search for "Security Premium".	2. Search for "Security Premium".
3. Tap INSTALL.	3. Tap INSTALL APP to download.
4. Review the APP's permissions and then ACCEPT to download.	

After installing Security Premium APP on your mobile device, just locate the Security Premium APP and tap the icon to run. The APP will load and take you directly to Login screen. Login is needed to receive push notifications and to store the added devices. After you opened the APP register (see chapter 9 Q1) to use the more functions (see chapter 9 Q2).

Add device

Step 1: Open Security Premium application
Step 2.1: Start without Login press on Local. **Note:** You cannot receive Push notifications.
Step 2.2: Start with creating an account by pressing on register. Input a username and a password. **Tip:** Click on the closed eye to see your password. Press Register for next step. Enter your mail address to bond your account with your mail address. This is only needed if you forget your password. If you don't like to bond press on skip. **Note:** If you now forget your password you have to create a new account! (Also see chapter 9)
Step 3: To add a device click on "+"icon to add device by ID.
Step4: Choose "Add device by ID".
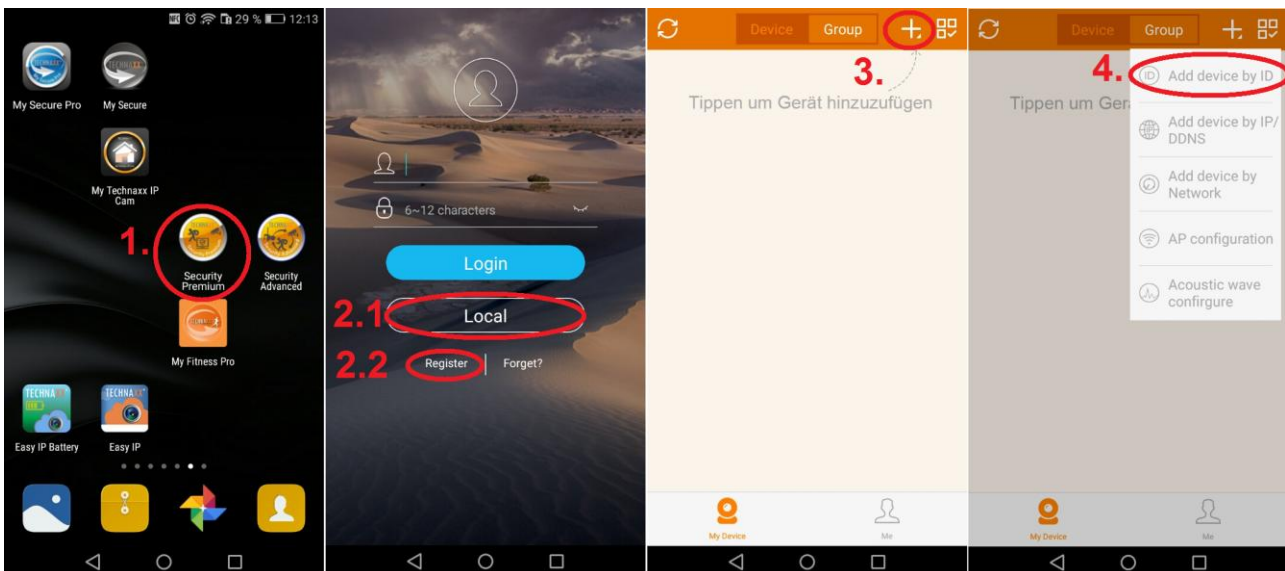
Step 5: Now you entered the device edit page. Scan the QR-code of the TX-29/TX-30 or enter the Device ID (= Cloud ID). Switch to your TX-29/TX-30 press right click and open "Fast network". There you find device IP and QR-code. See chapter 5.3 system setup → network setup.

In the APP under Description enter your customized name for the device.
Input video recorder login information (username and password).

Step 6.1/6.2: Pay attention to select the correct channel number (TX-29 = 4; TX-30 = 8).

Step 7: Press submit to finish and save the setting (maybe the device will show message "Error - The device has been existed – Confirm"), than your device is successfully added.

Step 8: Click on the device in the device list to get live video

Step 9: Left circle shows you the single screen; Right circle shows you four split screen.

Step 10: (Meaningful for TX-30) Left circle shows you the four split screen; Right circle shows you eight split screen.
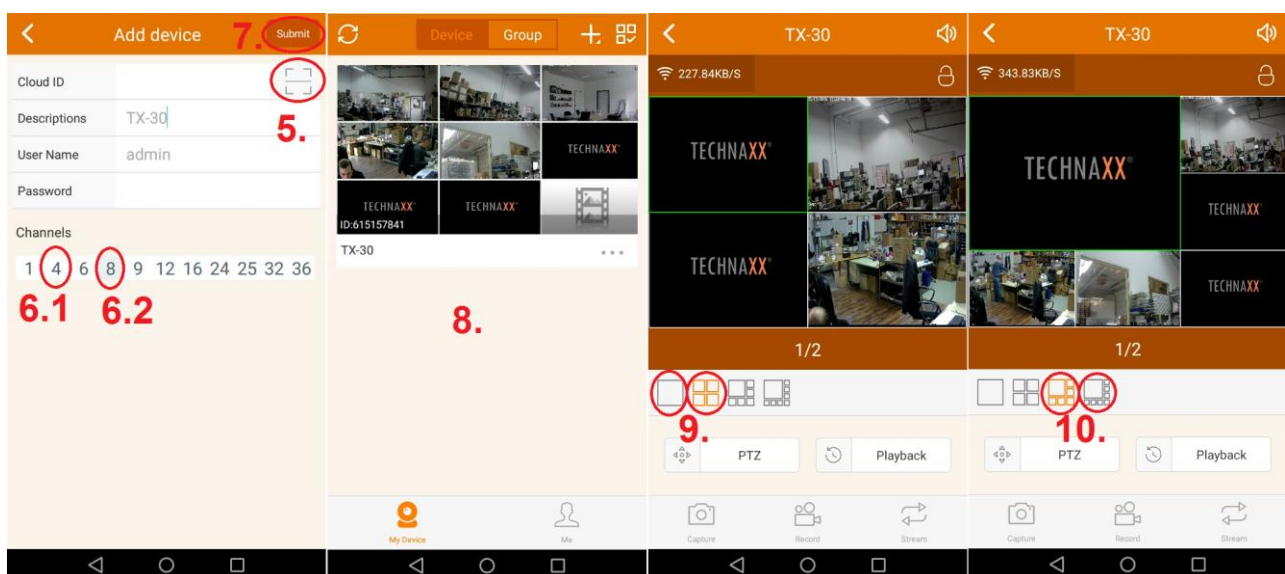
Note: With Capture you can manually take snapshots, with record manually take videos and with stream you can change between Main (HD) and Sub (SD) stream.

Add group
Step 1: Click on Group. Then click on "+" icon to add channels to a group.
Step 2: Enter the group name.
Step 3: Select different channels for the group.
Step 4: Click on submit to save.
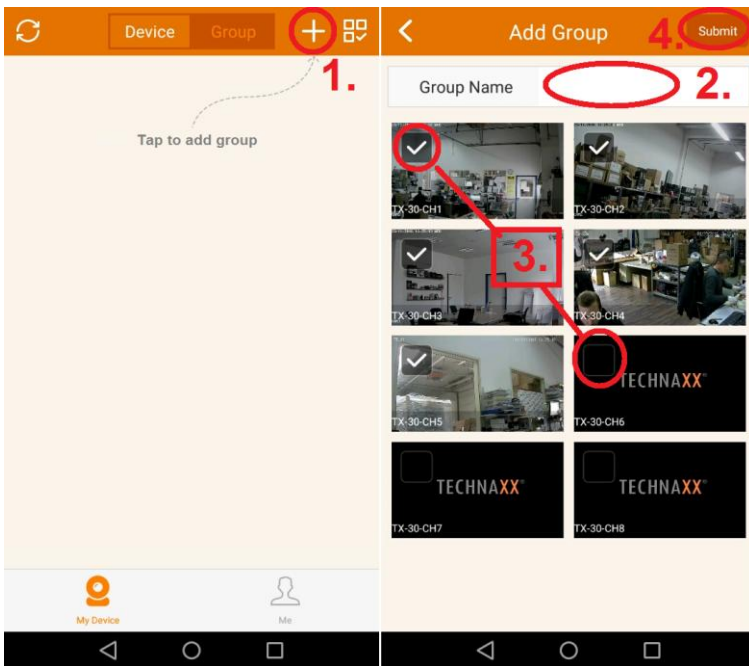
Functions under My Device (For Playback inserted HDD in the NVR is needed)

1. Click on Playback to see the recorded videos

2. Click on Capture to manually take a snapshot of the chosen channel

3. Click on Record to manually take a recording of the chosen channel

4. Click on Calendar to choose a date you want to see the recordings from.

5. Click on CH to select the channel you want to see the recordings from.

6. The event or the time that is directly under the Play sign will be played by pressing on it.

7. Swipe the time line left and right to choose the time (event). **Note:** If there are recordings (events) the bar is coloured.
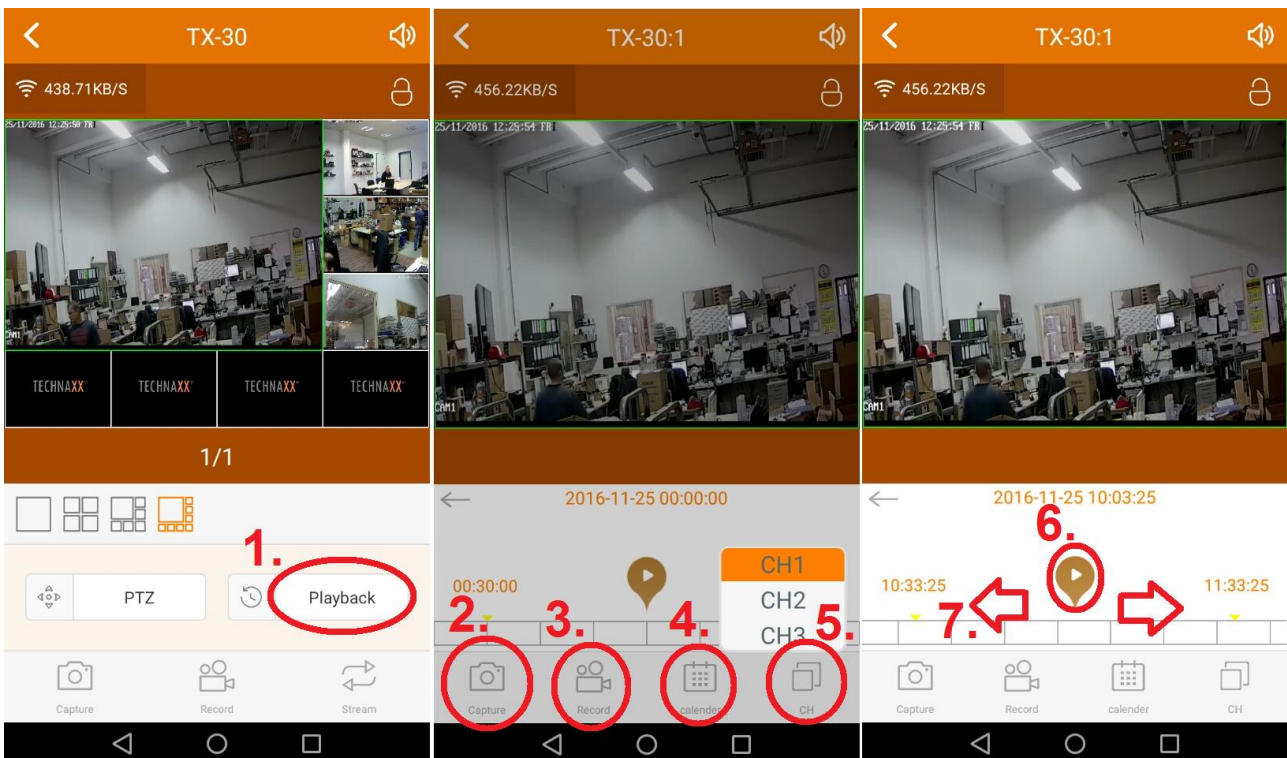
Functions under Me

1. Local Records: Take a look at your manually taken photo & Video.

2. Notifications list: Look up different notifications.

3. Alarm setting: Enable or disable the Alarm setting

4. Change password: You can change the password

5. Setting: Enable or disable the option of 2G/3G/4G network use, set the limit of mobile, data traffic, look up the mobile data traffic statistics and the video quality that should be used as default.

6. Help: A short help file is implemented into the APP to help with the basics.

7. Declaration: Statement about application usage.

8. Impressum: Here you can see company information.

9. Check update: Here you can check if your APP is up-to-date.

10. Version: Shows the version number of the APP.

11. Logout: Press Logout to logout as user or for changing the user.
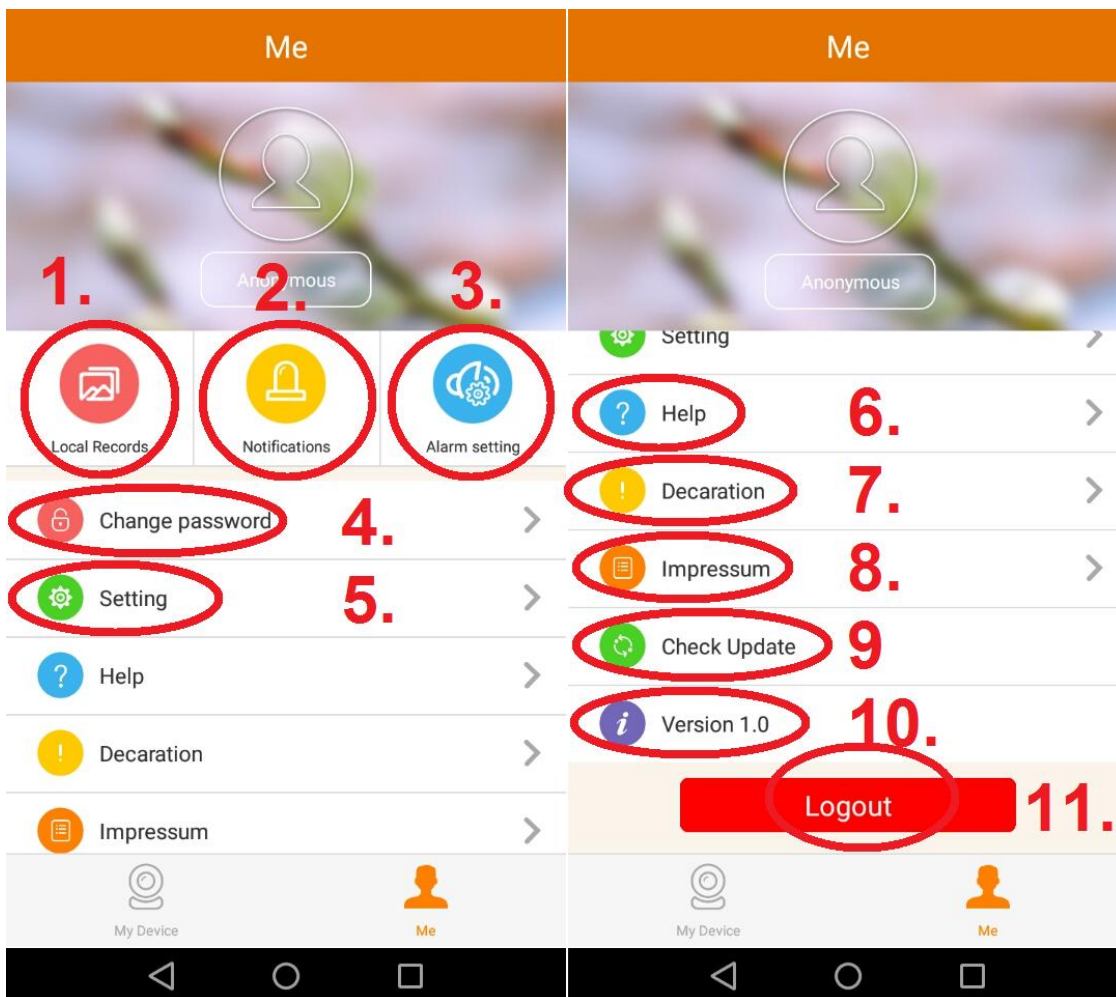
7. Security Premium PC Client

Preview:

Preview	After starting the client you see the live view of the connected cameras (depending on the selected screen divide mode 1, 4, 6, 8, 9, 16, 25, 36 or 49 channels). By holding the left mouse button and moving over the live view of a channel. You will see a green rectangle which you can use to digital zoom in the channel. After that a window will open with the title zoom. Here you can select new areas or push the selected area around.
Area	Shows the devices with its available channels. By clicking on "plus" / "minus" it will open / close the channel list. Double click on a device to open/close all channels of the device. Double click on channel of the device to just open/close the selected channel. **Open all:** To open all channel in the area at once. **Close all:** To close all channel in the area at once. **Note:** By opening devices (with double click) and set local HDD storage space, you automatically start recording manually. The red dot in the top right corner shows it. By clicking with the right mouse button on the red dot you can stop the record.
Logs	On the bottom of the page you see the logs. It shows a list of the last happenings.
Screen divide mode	By clicking on this button you can select to divide the screen into 1, 4, 6, 8, 9, 16, 25, 36 or 49 channels.
Manual record	Clicking on this button starts and stops a manually record of all opened channel. Before you can start the manual recording go to settings → local settings → Choose storage and select the HDD on your PC the files. Press "Save". The files are saved in a folder called "recEx" under the selected HDD character.
Screenshot	Clicking on this button you manually take snapshot of the selected channel. Before you can start the manual recording go to settings → local settings → Choose storage and select the HDD on your PC the files. Press "Save". The files are saved in a folder called "screenShotEx" under the selected HDD character.
Automatic polling	Refreshing the camera preview.
Video fill the window	Clicking on this button changes the size/format of the actual video preview.
Full screen	Clicking on this button takes the selected screen divide mode into full screen mode. To close the full screen mode press the right button of your mouse and select from the menu that appears "Back to Main window".
Audio	Turn up/ down the volume of the selected channel.
PTZ (not supported)	Move cameras vertical and horizontal. Zoom and focus the camera. Set the Iris on or off.

Playback (max. 4 channel playback at the same time):

Area	Shows the devices with its available channels. By clicking on "plus" / "minus" it will open / close the channel list. Double click on a device to open/close all channels of the device. Double click on channel of the device to just open/close the selected channel. **Open all:** To open all channel in the area at once. **Close all:** To close all channel in the area at once. **Tip:** The best option for playback is to open one channel at a time and watch the playback.
Play / Pause	Play or pause the playback.
Stop	Stop the playback.
Screenshot	Clicking on this button you manually take snapshot of the selected playback. The files are saved in a folder called "screenShotEx" under the selected HDD character.
Slow	Select the speed of the playback 1/2x, 1/4x, or 1/8x.
Fast	Select the speed of the playback 2x, 4x, 8x.
Audio	Turn up/ down the volume of the selected playback.
Timeline	On the bottom you can see the timeline of all channels with its recorded videos. The different color shows you the kind of record. (Red = timing, green = motion and blue = manual) By clicking on the colored bars the playback will open. To start press play.
Local or remote	Local means on PC HDD recorded manually and remote means on device HDD recorded by Time, Motion or Sensor.
Record type	Select the record type that you want to search for.
Calendar	Select the date to search for the needed record. After setting local or remote, record type and date press on search at the bottom.

Backup:

Area	Shows the devices to backup.
Timeline	The timeline of all channels with its recorded videos. To backup a channel check the box on the left side of the window.
Local or remote	Local means on PC HDD recorded manually and remote means on device HDD recorded by Time, Motion or Sensor. Tip: For local backup you can define the length of the recording by double clicking on the record and using the grey start and stop bar.
Record type	Select the record type that you want to search for.
Calendar	Select the date to search for the needed record. After setting local or remote, record type and date press on search at the bottom. By clicking on ▣ select the month and with ◀▶ select the year.
Select all	Clicking on this button all channel are selected.
Stop backup	Stop backup by clicking on this button.
Start backup	Start backup by clicking on this button. The selected files will be downloaded to your PC.

Settings → Device manage:

Add	By checking the box in front of one or more devices from the device list and then pressing Add the selected devices will be add to a Area.
Quick setup	All devices in the device list will be added
Add area	Add areas for organizing the cameras.
Add device	Add a device manually by filling in all needed information.
Modify device	Edit the device settings.
Clear devices	All devices are deleted from the area.
Flush	Refresh device list.
Assign IP	Edit IP address.

Settings → Device settings:

Device information	By clicking on a device from the device list you get several information's about the device. **Note:** Information of the device is only available from added devices. Click on the device from the list.
General setting	Set date format, HDD overwrite or dwell interval for full screen or screen divided.
Network setting	Set DHCP on/ off, set the port, see P2P ID and set PPPoE on or off.
Encoding setting	Set main and sub stream settings like encode mode, encoding format, quality, bit and frame rate.
Record settings	Set the record plan for every channel, select Timing, Motion or/and Sensor (see chapter 5.3 record setup → record plan).
Screen settings	Set the channel name of the channel.
PTZ settings	Set different options for the PTZ.
Video detection settings	Set the sensitivity, duration, alarm and buzzer for motion detect and video loss (see chapter 5.3 channel setup → video detection).
Alarm settings	Set alarm, buzzer, work mode and alarm duration.
Channel mode setting	Set the amount of analogue and digital channel the NVR should support.

Settings → Local settings:

General settings	Set language, import or export setting information, automatically synchronize time and connect devices on start up.
Record settings	Set the record plan for every channel, select Timing or/and motion (see chapter 5.3 record setup → record plan).
Storage settings	Set the local disk letter, HDD overwrite and HDD reserved.

Settings → User manage:

Current users	Set username, password, the user rights and the automatic logout interval of the current user.
User manage	Add user, modify user or delete user. Set the user rights and the automatic logout interval for the user.
Version	The version and the build date of the version

Advanced:
Select the channel, image type, start time and end time to search screenshots. By clicking on first/last: See the first/last page. By clicking on prev/next see the previous or the next page. By pressing on select all, all screenshots on the current page will be selected.
User: Login into the software/device.

8. Advanced camera settings

For people with advanced experience it is possible to set some settings of the camera directly over the camera menu. For example the video and image setup which you find on the TX-28/ TX-30 under Channel Setup → Encode Setup. To get to the camera interface connect the camera via the network cable with your router. After that go to your TX-29/TX-30 Display, open the video manage setup, select the N1 protocol and press on the refresh button on the right. Now you will see the IP address (example: 192.168.1.168) which you have to insert into the browser. Press enter you will see the login screen. Username is admin and password is empty. The live stream of the camera occurs.
Under setup you can set Media, Network setup, Advance setup and System setup.
Note: Be careful with the configuration to not damage the camera!

9. Troubleshooting

Q1: How to register a new account?
A1: To register a new account access the APP Security Premium and click on register. Enter username and password. Click again on Register. The APP will ask for an email address to verify the account. Use a valid email address at the same time easy to see the cloud will send an email to the email to activate.The user can choose not to activate the account, this will not affect the use of the easy media cloud, but not activated account cannot perform the function of forget password.
Q2: What is the difference between login mode and Trial mode?
A2: Login mode, the device or group of users to add data managed by the server, or even delete all the data in the mobile phone in the mobile phone, data is not lost. As long as reinstall the application and log into the old account, you can restore all the data. And Trial mode, users to add equipment and grouped data is stored locally, once the data is missing, unable to restore. In addition, the login mode, we provide users with equipment state warning, alarm, news feeds, and other auxiliary functions.

10. Technical specifications

Wireless NVR Specification			
	Screen	**10.1" (TX-29)**	**18.5" (TX-30)**
Display device	Viewing angle	Horizontal 170° Vertical 170°	Horizontal 90° Vertical 65°
	Response time	25ms	
	Luminance contrast ratio	800:1	
	Central luminance	350cd/m²	
AV Input (audio/video)	Network video	Max. 4CH IP cameras	Max. 8CH IP cameras
	Network video input broadband	64Mbps	
	Audio bitrate	64Kbps	
AV Output (audio/video)	HDMI output	1ch, resolution: 1024x768, 1366x768, 1440x900, 1920x1080p	
AV CODEC	Video resolution	D1/720P/960P	
	Synchron-playback	4CH	
Video Control	Video / Capture mode	Manual, Time, Motion, PIR	
	Playback mode	Real time, Routine, Event	
	Backup	USB backup	
Hard Disk	Type	1x SATA interface (up to SATA III)	
	Max. capacity	Up to 4TB HDD (2.5")	Up to 4TB HDD (3.5")
External Interface	Network interface	1x adaptable RJ45 10Mbit/s /100Mbit/s 1x WIFI interface	
	USB interface	2x USB 2.0	
Network	Protocol	UPnP(plug & play) SMTP(email service) PPPoE (dial-up) DHCP (automatically obtain IP address) DDNS	
Others	Power supply	DC12V/2A	DC12V/3A
	Power consumption	≤15W (without HDD)	≤20W (without HDD)
	Operate temperature	-10°C~+55°C	
	Working humidity	10%~90% RH	
	Dimensions (without bracket)	(L) 25.0 x (W) 3.6 x (H) 16.6cm	(L) 46.0 x (W) 5.8 x (H) 28.5cm
	Weight (without bracket/HDD)	1kg	5.5kg

IPC Specification

Image	Sensor	1/4" Progressive Scan Sensor
	PIR viewing angle	H 120°, V 60°
	Camera viewing angle	H 57.4°; V42.8°; VF 72.4°
	Signal System	PAL/NTSC
	Resolution	1280x720, 16:9 High Definition
	Minimum illumination	Color: 0.1 Lux; B/W: 0.01 Lux
	Shutter	1/25s to 1/25000s
	Lens	f=4mm
	Day & Night	Auto / Color / BW
	3D-DNR	Auto
Network	Protocol	RJ45 / WIFI 802.11b/g/n
Range	Motion	Up to 10m
	PIR	Up to 8m
	Audio	Up to 6m
General Specification	Working temperature / Working humidity	-10°C up to +50°C 30% up to 80% RH
	Power input	DC12V/1A
	Power consumption	≤6W
	Dimensions	(L) 15.5 x (W) 9.7 x (H) 8.7cm
	Weight	550g
	Protection class	IP66

11. Attachment: Some tested and recommended HDD for TX-29 and TX-30 are listed here. But other HDD models can be compatible but not tested from our side.

Seagate	2.5" 500GB Pipeline HD ST500VT000
SAMSUNG	2.5" 500GB ST500LM012-W
SAMSUNG	2.5" 500GB ST500LM012
HGST	2.5" 1TB HTS541010A9E680
TOSHIBA	2.5" 500GB MQ01ABD050V
TOSHIBA	2.5" 1TB MQ01ABD100V
Seagate	3.5" 500GB Pipeline HD ST3500312CS
Seagate	3.5" 1TB 5900 Pipeline HD ST1000VM002
Seagate	3.5" 1TB 7200 Pipeline HD ST1000NM0033
Seagate	3.5" 1TB ST31000528AS
Seagate	3.5" 2TB Pipeline HD ST2000VM002/3
Seagate	3.5" 3TB Pipeline HD ST3000VM002
TOSHIBA	3.5" 1TB DT01ABA100V
TOSHIBA	3.5" 2TB DT01ABA200V

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