

# Technaxx® \* User Manual

## WiFi Rear Camera System TX-171

Suitable for most of cars (& vans, SUVs, minibuses, caravans, etc.)  
as assistance for reverse parking.

This system should be an aid and should NOT replace the need to drive  
carefully.

Do not point the high pressure cleaner directly to the plate holder  
camera, or drive through a car wash - the device can be damaged.

**NOTE:** The Smartphone in the car may only be used if it is firmly fixed in  
a holder.

Under no circumstances will the manufacturer or supplier accept any  
responsibility or can held liable for any direct or indirect, incidental or  
consequential damage, or for injuries resulting from installing or use of  
this system.

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/](http://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](mailto:support@technaxx.de)**

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

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.***



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## Features

- Inconspicuous reversing camera in license plate holder
- Suitable for most vehicles as assistance for reverse parking
- Your Smartphone needs to support IEEE 802.11ac 5GHz
- Video stream over WiFi 5GHZ to Smartphone APP (JoyTrip)
- Wireless video transmission up to ~15m
- IR LED for clear night vision ~3m
- Adjustable camera alignments & 120° viewing angle
- Power supply of the camera by connection to the reverse light
- IP67 camera protection class (dustproof & protection against temporary immersion)
- License plate holder suitable for single-line registration (52x11cm)
- Distance displayed by reversing line on the Smartphone
- Take photos and videos via App
- More safety in reverse driving

## Technical specifications

License plate holder with camera and WiFi module	
Image sensor	2MP CMOS
Camera resolution / fps	1024x720 pixel / 30
Video compression	H.264
Viewing angle	120°
Min. illumination	0.1Lux / automatic white balance
IR night vision distance	~3m
Power supply	DC12V
Max. current	<270mA
Power wire length	Ca. 4m
Protocol	IEEE 802.11 ac
Transmission frequency	5GHz
Transmission distance	~15m open space (no interferences)
Max. radiated output power	80mW
Protection class	IP67
Operating temperature	-20°C up to +50°C
App name / version	JoyTrip / iOS version 12.0 and higher and Android version 9.0 and higher
App Language	DE, EN, FR, SP
Weight / Dimensions	260g / (L) 52.8 x (W) 3.7 x (H) 12.6cm
Packing Contents	WiFi Rear Camera System TX-171: License plate holder with camera, WiFi transmitter and power connection, Mounting material, User Manual

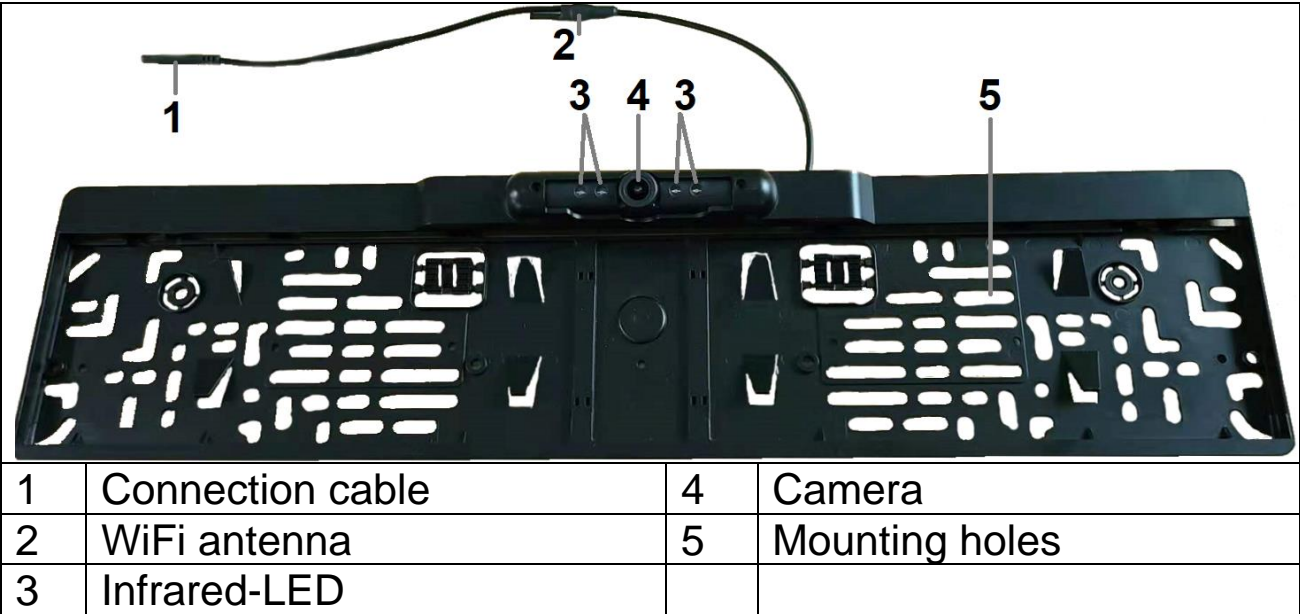
# Safety regulations

The reversing system is an aid and does not relieve the driver of his duty of care in road traffic according to STVO. Read these instructions carefully before first use.

# Product overview

The rear view camera sends a video signal from the camera via WiFi (5GHz) to the smartphone. In case another Bluetooth handsfree device is installed in your vehicle, it may cause disturbances. Therefore we recommend to deactivate that other Bluetooth handsfree device while using the reversing system.

# License plate holder with camera



# Commissioning

Check the functionality of the components before installation (a installed product is excluded from the return). Preparing and installing the license plate holder.

**NOTE:** You may need a voltmeter to measure the polarity of the electrical system.

**CAUTION! If you have no experience in installing electrical devices on vehicles, you are not allowed to carry out the following work yourself. Have the assembly and connection carried out by qualified specialists.**

**1.** Remove your rear license plate including any holder that may be present. Instead of the built-in holder, mount the license plate holder with camera here - if possible using the old mounting holes. First hold it up to the vehicle and prepare for installation:

**2.** Expose the interior behind the license plate so that you can see the license plate carrier plate from the inside. In the area of the license plate and license plate light, look for an existing cable duct in the rear of the vehicle or in the tailgate. If there is no usable cable passage here, you will have to drill your own cable passage. Mark a drilling point that is hidden under the camera module or license plate.

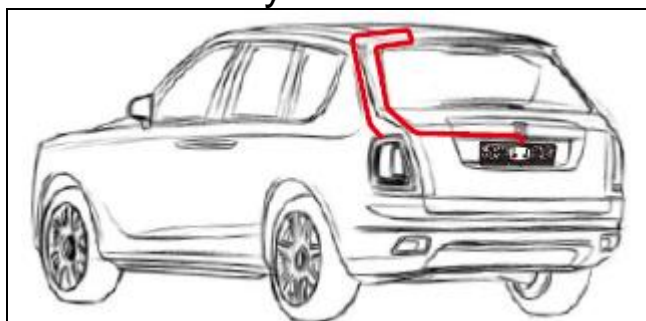
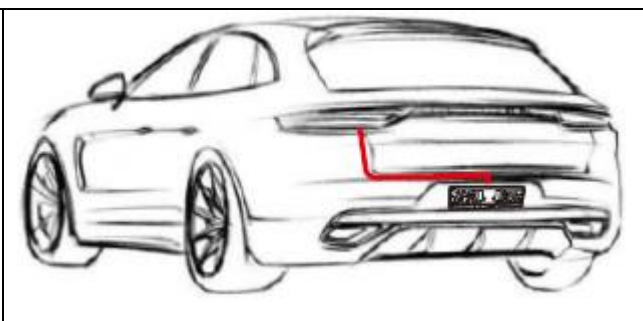
**Note:** You may need to drill a 6mm hole for the connection cable.

**3.** After drilling, seal the sheet metal edge with a suitable rust preventive agent.

**4.** Push the connection cable through the hole into the vehicle and connect the power wire to the connection cable. Carefully seal the cable entry with a suitable body sealing compound so that no water can get into the vehicle. Screw the license plate holder into place, taking care not to damage the cable seal. If necessary, re-seal from the inside.

**5.** Try to lay the power wire like it is seen in the below images. Make sure that the cable routing is clean so that opening and closing cannot break the cable.

**Note:** The pictures are just advice. Depending on your car it can be a different way.

	
License plate holder installed to the trunk lid.	License plate holder installed to the bumper.

**6.** Remove the cover of the reverse light.

**7.** The thin two-core cable is used for power supply and as a switching signal when reverse gear is engaged. Connect the two wires with the two contacts of your reversing light. To do this, you need to know their polarity (measure or check the circuit diagram): The red cable must be mounted on the positive pole of the reversing light and the black cable on an earth contact.

**8.** Install the tail light cover again.



**Important:** This installation only shows the rear view when the reverse gear is chosen. Then the rear view camera gets power and the WiFi signal is transmitted. The connected Smartphone shows the rear view via App.

**Note:** If your 12V connection of the rear view camera has a permanent plus the signal will be transmitted permanently. *This can drain the car battery!*

**Because of this we do not recommend a permanent connection.** If you want a permanent connection make sure it linked with the ignition of the car!

## Insert the license plate in the holder

The following drawings show in sequence the insertion of the license plate.

	<p><b>1. Step</b></p> <p>→ Slide the license plate into the upper opening.</p> <p>→→ Press the license plate towards the holder.</p>
	<p><b>2. Step</b></p> <p>→→→ Slide the license plate down until it stops.</p>

## Camera angle adjustment

Set the camera at an angle where you have a good view to the rear, depending on the height of the license plate holder from the ground.

Adjustable angle for flexibility: 75°



The displayed lines on the Smartphone give you an indication of the distance. Definitely control the distance with a folding ruler.

Then tighten the screws on both sides of the camera

→Explanations for the installation of the Smartphone APP can be found on the following pages.

## Download & install the APP

### Special Attention:

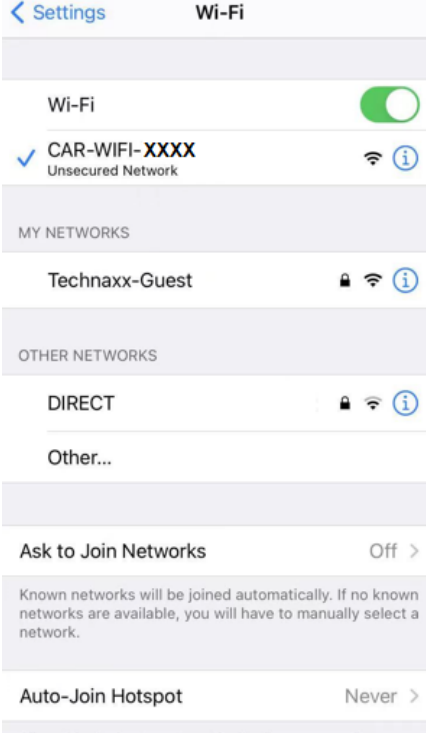
*This product uses 5GHz high-speed WiFi chip. Your Smartphone must support 5GHz WiFi (IEEE 802.11ac 5GHz). Low-end or old Smartphones do probably do not support a 5GHz Wifi connection.*

To download the App JoyTrip from the Appstore or the Playstore search for “JoyTrip” or scan the QR-code below.

[iOS 12.0 or above; Android 9.0 or above (09-2021)]

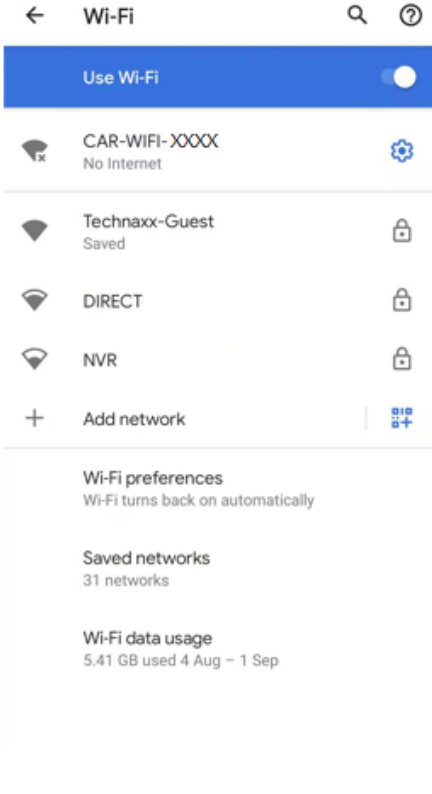



### iOS: Setting up the WiFi connection:


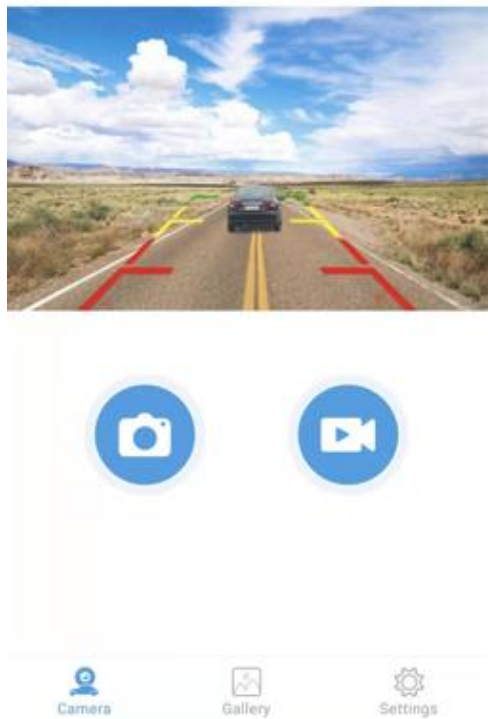





	<p>→ Go to Settings of your Smartphone and open WiFi.</p> <p>→ Select CAR-WIFI-XXXX as WiFi connection.</p> <p>→ The connection is made.</p> <p>→ → Open the APP JoyTrip.</p> <p><b>Info:</b> If you want that you have an internet connection while using the JoyTrip App you can enable the “Wi-Fi Assist” under Mobile Data on your iPhone.</p>
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## Android: Setting up the WiFi connection:

 <p>The screenshot shows the 'Wi-Fi' settings screen. At the top, there's a toggle for 'Use Wi-Fi' which is turned on. Below it, a list of Wi-Fi networks is shown. 'CAR-WIFI-XXXX' is the first network, marked as 'No Internet'. Other networks include 'Technaxx-Guest' (Saved), 'DIRECT', and 'NVR'. At the bottom, there are sections for 'Wi-Fi preferences', 'Saved networks' (31 networks), and 'Wi-Fi data usage' (5.41 GB used 4 Aug - 1 Sep).</p>	<p>→ Go to Settings of your Smartphone and open WiFi.</p> <p>→ In the WiFi list, select CAR-WIFI-XXXX.</p> <p>→ The connection is made.</p> <p>→→ Open the App JoyTrip.</p>
 <p>The top part of the screenshot shows a notification: 'CAR-WIFI-XXXX has no Internet access. Tap for options'. Below it, the Wi-Fi settings list shows 'CAR-WIFI-XXXX' as 'No Internet'. The bottom part of the screenshot shows a dialog box with the text: 'CAR-WIFI-XXXX. This network has no Internet access. Stay connected?'. There is a checkbox labeled 'Don't ask again for this network' which is unchecked. At the bottom of the dialog are 'No' and 'Yes' buttons.</p>	<p><b>Info:</b> If you get the message on your Smartphone that CAR-WIFI-XXXX has no internet access:</p> <ol style="list-style-type: none"> <li>1. Ignore that prompt message. WiFi and mobile network can be used at the same time. Convenient for mobile phones to use another App with Internet connection meanwhile.</li> <li>2. After you click Yes to confirm the use of this network, the Smartphone will not communicate with the mobile network as long as you are connected with the CAR-WIFI-XXXX. The Smartphone will not be able to access the Internet via mobile network for this time. The rear view camera can be used normally. If you need to reset this setting, ignore WiFi and reconnect to it</li> </ol>

## Start/Open the APP JoyTrip

<p>Camera</p> 	<p>Camera</p> 
iOS	Android
	Take a snapshot of the current live view
	Take a video of the current live view.
	See the live image from the rear view camera
	See taken photos and recorded videos in the gallery
	<ul style="list-style-type: none"> <li>- Mirror the camera image (Video Flip Horizontal)</li> <li>- Show or hide distance marks (Auxiliary Reversing Line)</li> <li>- Find a short description how to use the App (User Manual)</li> <li>- See the privacy policy (Privacy Policy)</li> <li>- See the App version (App version)</li> </ul>

## **Tips, Note & Attention**

- A brief tap on the display will hide the menu.
- The displayed lines are intended only as an aid to estimating the distance. To get a feel for it, you should do a driving exercise.
- When transferring the images, there is a systemic delay. This delay is in the range of one-half to one second. They should take this time into consideration when driving backwards.

## **FAQ**

A. The device has no WiFi signal. Check whether the power supply is correct and whether the power cable connector is connected properly.

B. The signal is weak. Please check whether the camera antenna is close to the metal.

C. Confirm that the required permissions are met during App installation. You can uninstall the App and reinstall the App according to the prompted permission confirmation or open relevant permissions in Settings of your Smartphone.

D. Turning on Bluetooth on Android phone will affect image delay. Turn off Bluetooth before use and keep the memory of your phone fully used!

E. Some Smartphones are in use and no images can be seen when connected to WiFi. Turn off WiFi and turn it on again.

## General information

- Never place the device on an unstable surface. Dropping may damage the device.
- The device is not in the hands of children. It is not a toy.
- Also observe the safety instructions and the operating instructions of the other devices to which the device is connected.
- In commercial facilities, the accident prevention regulations of the Association of Professional Associations for Electrical Installations and Equipment must be observed.
- In schools, training centers, hobby or self-help workshops, the operation of electronic products is to be monitored responsibly by trained personnel.
- The seller assumes no responsibility for damage that occurs during the use of the device, as well as for complaints by third parties.

## Environmental conditions

- Avoid heavy mechanical stress on the device. Protect it from vibration, hard knocks, do not drop it or shake it.
- Do not expose the device to high temperatures (over 50°C) and strong temperature fluctuations. Protect it from direct solar radiation and proximity to radiators.
- IP67 camera protection class (dustproof & protection against temporary immersion). The monitor may only be operated indoors.
- It cannot be completely ruled out that some paints, plastics or other care products attack the material of the housing or accessories.

**Disorders:** If an object or liquid gets into the device, have the device checked by an authorized technician before continuing to use it. We recommend that you contact our service center.

**Packing material:** Keep children away from packaging material. There is danger of suffocation.

**Cleaning and care:** ● Always store the device in a clean, dry place when not in use. Use a dry, soft cloth to clean the exterior surfaces.

- Do not point the pressure washer directly at the license plate holder camera or drive through a car wash - the unit may be damaged.

**Interference by wireless transmission:** The device operates at a frequency of 5GHz. This frequency can also be used by other devices that transmit video wireless. It can thus come in individual cases to disturbances.

## Disposal

### Waste electrical equipment from private households

● If you no longer have any use for the device, hand it in free of charge at a public collection point designated for old electrical devices. ● Under no circumstances should old electrical equipment be disposed of in the residual waste.

### Further notes on disposal

● Always return the old electrical equipment in such a way that its subsequent reuse or recycling is not impaired. Batteries must be removed beforehand and damage to containers containing liquids must be avoided.  
● Waste electrical equipment may contain harmful substances. If the device is handled improperly or damaged, this may result in damage to health or contamination of water and soil during subsequent recycling.



Products marked with this symbol meet all applicable community regulations of the European Economic Area. Technaxx Deutschland GmbH & Co KG has issued a "declaration of conformity" in accordance with the applicable directives and relevant standards. has been created. This can be viewed at any time upon request.



**Security and Disposal Hints for Batteries:** Hold children off batteries. When a child swallowed a battery go to a doctors place or bring the child into a hospital promptly! Look for the right polarity (+) and (–) of batteries! Always change all batteries. Never use old and new batteries or batteries of different types together. Never short, open, deform or load up batteries! **Risk of injury!** Never throw batteries into fire! **Risk of explosion!**

Batteries can be returned free of charge after use in retail stores. The end user is legally obliged to return used batteries. Separate collection and recycling of old batteries for the environment and health. Remove batteries before disposing of the device.



**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. **Important Notice:** Should battery fluid leak from a battery, wipe the battery case with a soft cloth dry. **Distributor:** Technaxx Deutschland GmbH & Co.KG, Konrad-Zuse-Ring 16-18, 61137 Schöneck, Germany