

Technaxx® * User Manual

HD Rearview Mirror Dash Cam TX-124

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

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

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 Declaration of Conformity for this device is under the Internet link: www.technaxx.de/ (in bottom bar "Konformitätserklärung"). Before using the device the first time, please 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

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

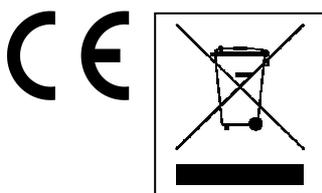
Enjoy your product * Share your experience and opinion on one of the well-known internet portals.

Features

- Rearview mirror Dash cam for high resolution HD video recordings suitable for most vehicles
- Rearview camera gives more safety when driving backwards & reverse parking
- Dash cam recording angle 90° & rearview camera wide angle 160°
- Simultaneous recording of dash cam & rear camera
- Invisibly integrated TFT color display (Ø screen 10.9cm/4,3")
- Automatic night vision mode (~2m) for rearview camera (4 white LED)
- Automatic activation of rearview camera when engaging reverse gear
- Recordings with time & date stamp
- Attachment to the rearview mirror with adjustable rubber bands
- Rear camera protection class IP68 (dustproof & protection against permanent immersion)

Technical specifications

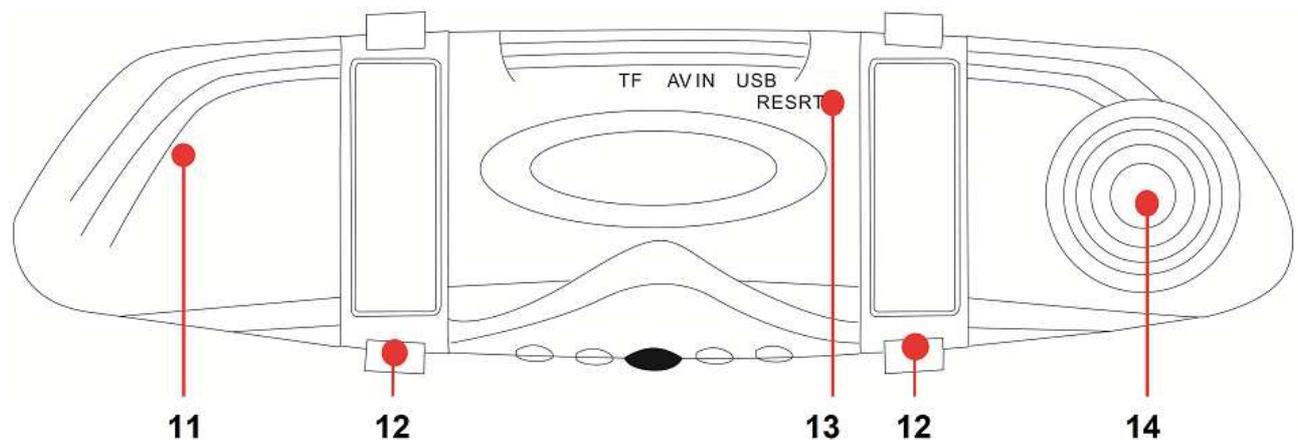
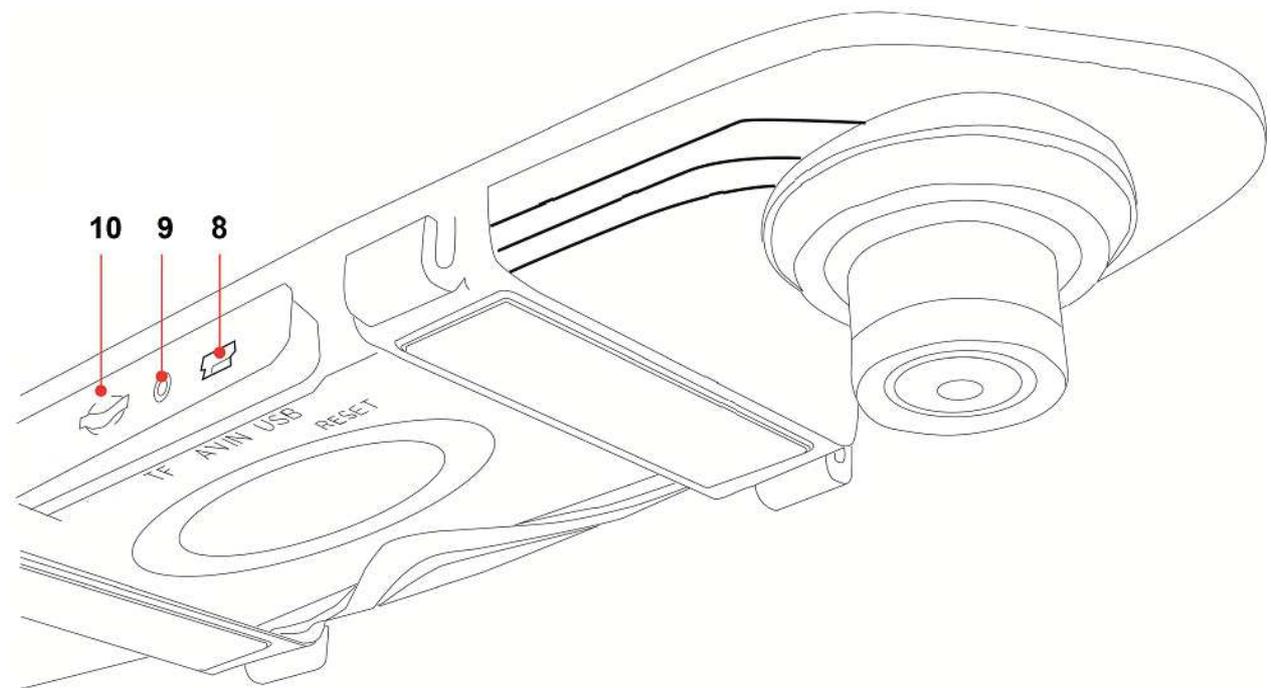
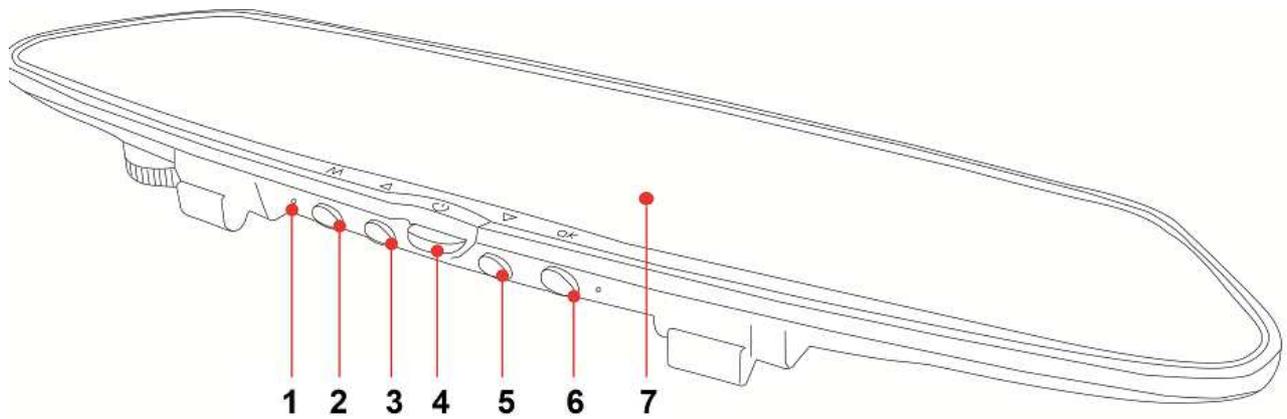
| Rearview camera | |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sensor / Resolution | 1/4" CMOS 0.5MP / 720x480 pixel |
| Viewing angle | 160° |
| LED light | ~2m |
| Power supply | Connection cable (6m) Dash cam to rearview camera (video transmission & power supply) |
| Working temperature | -20°C up to +50°C |
| Protection class | IP68 |
| Weight / Dimensions | 28g / (L) 3.0 x (W) 2.0 x (H) 2.0cm |
| Mirror with display & Dash cam | |
| Display / Resolution | TFT colour display 10.9cm (4.3") / 480x272 pixel |
| Sensor / Resolution | 1/4" CMOS 1MP/ 1280x720 pixel |
| Viewing angle | 90° |
| Recordings | Video (AVI) (simultaneous recording of dash cam & rear camera) |
| Power consumption | 3W |
| Power input | DC 5V via Mini USB |
| Max. current | 230mA |
| MicroSD card | Max. 32GB SDHC class 10 |
| Loop video recording | Yes |
| Built-in microphone / speaker | Yes / Yes |
| Switch On/Off | Support auto ignition startup, shutdown flameout |
| Supported language | English, German, French, Italian, Czech, Polish, Dutch |
| Working temperature / Humidity | 0°C up to +40°C / 85% RH max. |
| Weight / Dimensions | 217g / (L) 30.0 x (W) 8.0 x (H) 3.5cm |
| Package Contents | Rearview mirror with display & Dash cam, Rearview camera, 12V cigarette power supply for rearview mirror (2.5m), Video/power cable (6m) for connection between Dash cam and rearview camera, 2x mirror rubber holder, 2x screws, User Manual |



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

Product Overview

Dash Cam



Rear Camera



Device & Button description

| | |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| 1 Microphone | Record audio in the car. |
| 2 Menu | Press to switch between camera & playback. Long press to call up the menu. |
| 3 Up button / selection button | Press to go up in menu option. Press to change the camera view. |
| 4 Power On/Off | Long press on / off |
| 5 Down select button | Press to go down in menu option. |
| 6 OK (confirmation key) | Press to start video recording. Press again to stop the video. Press to confirm in menu option. |
| 7 Display | Shows the live view (Front camera & rearview camera). |
| 8 Power supply (Mini USB) | USB data interface: Used to connect the PC transmission data. Used to connect the external power supply to provide work power. |
| 9 AV-IN port | Rearview camera connection (cable) |
| 10 MicroSD card slot | Max. 32GB formatted to FAT32 |
| 11 Speaker | Play sound from the recordings. Play key tone of buttons. |
| 12 Back clip fixation hook | For attachment to the current mirror. |
| 13 Reset button | Restart of the device. |
| 14 Front camera | Dash cam (front camera) live view. |
| 15 Rear view camera | Rear camera live view. |
| 16 Rear view LEDs (white) | Activates when turning in to reverse gear, provided it is connected to the reversing light. |

Installation & Wiring

Function Test

First make sure that all parts of the TX-124 work. Therefore connect the rear view camera with the video/power cable to AV-IN port on the mirror. Then connect the MiniUSB on the mirror with the cigarette power adapter. After inserting the cigarette power adapter to the cigarette socket in the car the TX-124 should automatically power on. Recording starts after power on, if there is a MicroSD card* (*not included) inserted to the MicroSD card slot.

Installation of the mirror

Use the mirror rubber holder to attach the new mirror to the current installed rear view mirror. Hook in the mirror rubber holder on the top back of the mirror into the fixation hook. Place the TX-124 mirror in front of the installed mirror and attach the rubber holder to the down side fixation hook on the mirror's back. When assembling, the dashcam of the mirror must be located to the left of the rearview mirror of your vehicle.

Power supply for Mirror

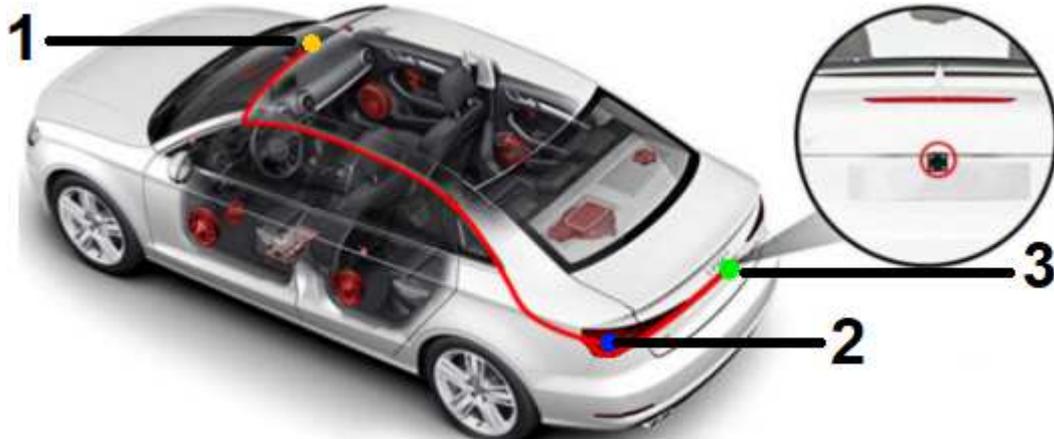
When the TX-124 is working properly, lay the cable of the cigarette power adapter like shown in the example picture below. It should be possible to hide the cable in the seal of the front window. Be careful when you are trying to hide the cable in the seal (EXAMPLE):



Wiring of the rearview camera

The pictures below show an example how to lay the video/power cable from the front mirror to the back.

| | | | |
|---|---------------------------------------------------------|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | Mirror with AV-IN port | 3 | Attach rear view camera in the middle of the car above/beneath the license plate. Drill a 5mm sized hole into the body of the car and fasten the camera with the screws enclosed. |
| 2 | Connect red cable with positive pole of reversing light | | |



The 2.5mm plug needs to be plugged in the AV IN of the mirror. Camera plug and the red cable of the camera need to be directed to the back of the car. Connect the red cable with the positive pole of the reversing light.

Note: The image of the rear view camera is not automatically displayed in full screen of the rearview mirror, when you go into reverse gear without the connection to the reversing light.

It will be necessary to drill a 5mm hole in the car body behind the license plate. Insert the connection cable of the rear view camera through the 5mm hole. Connect the plug of the camera cable to the plug of the video/power cable inside the car.

Note: Before drilling the hole for the camera cable into your car make sure that it is the middle of the car. The camera can display with its 160° viewing angle the most area behind your car.

Install the rearview camera

First check areas behind the car body to see if it is clear to drill. To install the rearview camera use two screws to fasten it to the car body above/beneath the license plate next to the 5mm hole.

Note: Before fasten the camera make sure the camera image in the mirror display is not upside down. If the camera image is upside down it is necessary to turn the camera holder by 180° degree and screw it back on.

Mirror setting menu

Important: Before you can make changes to any options make sure the device is not recording. Only when the device is not recording you are able to make changes.

The functions of the mirror menu are listed below. Long press the menu button to enter the menu. Navigate through it by using the up, down and OK button. To get back to the live image press menu button

| | |
|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Resolution | Choose between FHD and HD resolution. FHD resolution is interpolated. |
| Quality | Choose between the quality 1MP, 2MP, 5MP or 8MP for the video record. 2MP and 8MP are interpolated |
| Loop recording | When the MicroSD card storage is full the oldest file will be deleted. Here you can choose between Off, 1Min, 2Min, 3Min. The minutes are the time of the recording length. By default the recordings are 2 minutes and every 2 minutes a new video is started. |

| | |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| White balance | Choose between Auto, Daylight, Cloudy and Tungsten to fit your light situation. |
| Exposure | Fit the Exposure to your current circumstances by choosing -3 to 3 in 1 step values. |
| Motion Detect | Check the box to enable motion detection. |
| Video with sound | Check the box to enable audio recording for video. |
| Reversing the line | Check the box to enable the reverse parking distance lines. |
| Date stamp | Check the box to enable date and time stamp in recordings. |
| Gravity sensing (G-Sensor) | Choose between On=OFF, High, Middle and Low for the G-Sensor. High, Middle and Low enable the function. If the G-sensor is activated, the recording function is activated by a collision. |
| Button sound | Check the box to enable the button sound. |
| Enhanced night vision | Check the box to enable the improved night vision (4x LED). |
| Date / Time | Manually set date and time, to assure that the video recordings have the correct date & time |
| Auto power OFF | Choose between On=OFF, 1Min, 2Min and 3Min. 1Min, 2Min and 3Min enable the function. When for the set time no action (button press or recording) is caused the device will turn off after the set time. |
| Language | Choose between English, German, French, Italian, Czech, Polish, Dutch. |
| Frequency | Choose between 50Hz and 60Hz for video frequency. |
| LCD lighting | Choose between On=OFF, 10Seconds, 1Min and 3Min for LCD lighting. 10Seconds, 1Min and 3Min enable the function. After the set time the display will go in standby. Recordings continue to be recorded. To activate the display again press any button. |

| | |
|-----------------|-----------------------------------------------------------------------------------------------------------|
| Format | Choose format to delete all data stored on the MicroSD card. The deleted files cannot be restored. |
| Default setting | Restore the menu options back to factory settings. |
| Version | Current firmware version is shown. |

Display symbols



| | | | |
|--|--------------------------------------------------------------|--|----------------------------------------------------------------------------|
| | Live image | | Length of the recording |
| | remaining record time | | Resolution set to HD |
| | Resolution set to FullHD | | Motion detection enabled |
| | Enhanced night vision | | Recording disabled; Restart the device or free up MicroSD storage space |
| | MicroSD card inserted | | |
| | Enabled beep sound | | No MicroSD card inserted |
| | Symbol is flashing: Device is connected to a power supply | | Disabled beep sound |
| | Menu | | Current time |

Function of the device

Important: Before you can make changes to any options make sure the device is not recording. Only when the device is not recording you are able to make changes.

Automatic On / Off

Support the connection of vehicle power.

- When car ignition turns on the TX-124 starts automatically recording the video of back and front camera.
- Is the cigarette lighter no longer supplied with power, the TX-124 automatically saves the video and turns off.

Note: It is also possible to stop the automatic started video recording by pressing OK button.

Manual On/Off

- Long press the power button. The display will light on and the Technaxx logo is shown. Shortly after the live image of the front and back camera are shown.
- Long press the power button again the device powers off.

Motion detection

- The TX-124 supports motion detection via G-sensor. When motion detection is enabled a moving process is recorded automatically when the target is moved.

Manually start video recording

- Press OK button to start video recording. The past record time is shown in red while recording. Again, the loop recording applies.
- Press OK button again to stop the video recording.

Video playback

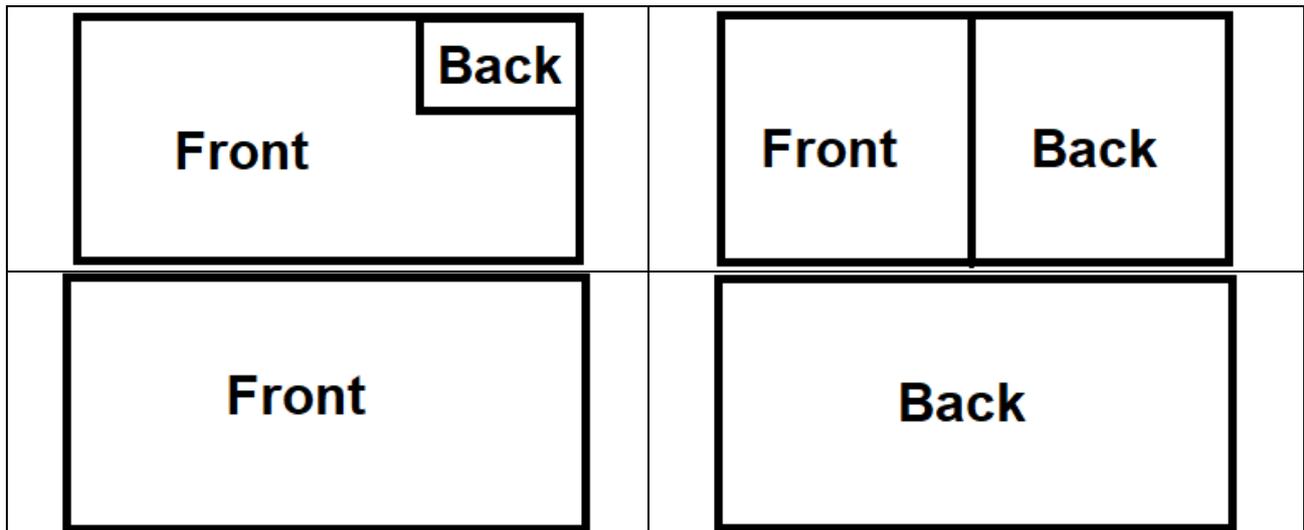
- Short press menu button now you are in playback mode.
- Short press up/down key to select the file.
- Short press OK button to play the selected video file.
- Press menu button again to get back to live image.

Enter menu

- Long press the menu button to enter the menu. In the menu you can go up and down with the selection buttons. To change (enable/disable) the setting press the OK button. If necessary choose from the sub menu the value by confirming with OK button
- To leave the menu and get back to live image press the menu button again.

Change the live image view

There are four options to see the live image on the display.



Front = Dashcam / Front camera

Back = Rearview camera

To change the mode press Up button when you are in live image and no recording is taken.

FAQ

If there are any product problems under normal operating conditions refer to the solution below.

● **Cannot take videos.**

→ Check the MicroSD card if there is enough space. If there are important videos in the storage save them to your PC. Afterwards format the MicroSD in the TX-124 → open the menu and select the item "Format". **Note (#):** Formatting erases all data stored on the MicroSD card. The deleted files can not be recovered.

● **Video recording automatically stops.**

→ Because of the huge high-definition video data, please use high speed MicroSD card. SDHC compatible and high speed class 10.

● **For video replay prompt error "file error" occurs.**

→ Error occurred while the MicroSD card storage of data, according to the files are not complete. Use the "format" option in the menu to reformat the MicroSD card. **Note (#)**

- **Take foggy videos.**

→ Check whether the camera lens is dirt or finger prints are on it. Use glasses cleaning cloth to wipe the lens.

- **In cloudy circumstances the color is not perfect.**

→ Please check the menu "white balance" option is set to automatic.

- **Horizontal stripes / Interference image.**

→ This is due to the error of the "light source frequency", please according to the local power supply frequency, set to "50Hz" or "60Hz". For Europe set to 50Hz. (For USA set to 60Hz.)

- **When the device crashes.**

→ Press the reset button on the back of the device with a thin object (eg paperclip). After a short recovery TX-124 restarts.

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.
- 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.
- IP68 camera protection class (dustproof & protection against temporary immersion). The monitor 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.