

# Technaxx® \* User Manual

## Universal Auto Alarm Pro TX-168

**Please read and keep all safety, security, and use instructions.**



Products marked with this symbol meet all applicable community regulations of the European Economic Area.

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.



This symbol means the product must not be discarded as household waste, and should be delivered to an appropriate collection facility for recycling. Proper disposal and recycling helps protect natural resources, human health and the environment. For more information on disposal and recycling of this product, contact your local municipality, disposal service, or the shop where you bought this product.



**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

## **IMPORTANT SAFETY INSTRUCTIONS**

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this device near water.
6. Clean only with a dry cloth.
7. Only use attachments/accessories specified by the manufacturer.

**This manual will show you how to use your device safely and effectively. Please read, understand and follow these instructions and precautions carefully.**

**WARNING:** Failure to read and follow these warnings and instructions may result in serious injury, including damaged property, so please pay close attention and exhibit the utmost care.

### **IMPORTANT**

- Do not use in a marine application.
- Keep out of reach of children.
- Use of an attachment not recommended or sold by the unit manufacturer may result in a risk of fire, electric shock, or injury to persons.
- To prolong the life of this device, pull it out before starting the engine of the car.
- Keep the device in dry and ventilated environment. Avoid high humidity and high temperature.
- Use this product only with an agency-approved power supply that meets local regulatory requirements (e.g., UL, CSA, VDE, CCC).

### **WARNINGS**

- Do NOT disassemble the unit; take it to a qualified serviceman when service or repair is required. Incorrect reassembly may result in a risk of electric shock or fire.
- To reduce risk of electric shock, unplug unit from outlet before attempting any maintenance or cleaning. Turning off controls will not reduce this risk.
- DO NOT expose this unit to rain or moisture, to reduce the risk of fire or electrical shock. The device should not be exposed to dripping or splashing.

- DO NOT touch the external siren if you, the external siren, the device being operated or any other surfaces that may come into contact with any power source are wet. Water and many other liquids can conduct electricity, which may lead to serious injury or death.
- DO NOT place the external siren on or near heating vents, radiators or other sources of heat or flammable materials.
- Only connect the external siren to a DC12V or DC24V battery for power supply. DO NOT attempt to connect the external siren to any other power source, including an AC power source. Connecting to a 6V or 16V battery will cause damage to the external siren.
- DO NOT use with positive ground electrical systems.
- DO NOT try extending or otherwise changing the power cord supplied with your external siren. Make sure the cord connections are tight.
- DO NOT drop or shake the device, it may break internal circuit boards or mechanics.
- DO NOT make unauthorized alterations to this product.
- Incorrect operation of your Car Alarm and external siren may result in damage and personal injury.
- Keep the device away from little children.

## **PERSONAL PRECAUTIONS**

- Wear complete eye protection and protective clothing when working near lead-acid batteries. Always have someone nearby for help.
- Remove all personal metal items from your body, such as rings, bracelets, necklaces and watches. A lead-acid battery can produce a short circuit current high enough to weld a ring to metal, causing a severe burn.
- Never smoke or allow a spark or flame in the vicinity of the battery or engine.

## **BATTERY SAFETY INSTRUCTIONS**

- DO NOT burn products and their batteries and do not expose them to direct sunlight or to high temperatures (e.g. in hot cars or near hot stoves). Batteries may explode if overheated.
- Only use this product for its intended purpose and follow the general and battery safety instructions as described in this user manual. Any misuse can cause electric shock, burns, fire and other hazards or injuries.
- Charge, use and store the product at a temperature between -10 C and +50 C.
- Always unplug the product when it is fully charged.
- If the product becomes abnormally hot, gives off an abnormal smell, changes color or if charging takes much longer than usual, stop using and charging the product and contact your local dealer.
- DO NOT place products and their batteries in microwave ovens or on induction cookers.
- This product contains a rechargeable battery that is non-replaceable. DO NOT open the product to replace the rechargeable battery.
- When you handle batteries, make sure that your hands, the product and the batteries are dry.
- To prevent batteries from heating up or releasing toxic or hazardous substances, do not modify, pierce or damage products and batteries and DO NOT disassemble, short-circuit, overcharge or reverse charge batteries.
- To avoid accidental short-circuiting of batteries after removal, DO NOT let battery terminals come into contact with metal objects (e.g. coins, hairpins, rings).
- DO NOT wrap batteries in aluminum foil. Tape battery terminals or put batteries in a plastic bag before you discard them.
- If batteries are damaged or leaking, avoid contact with the skin or eyes. If this occurs, immediately rinse well with water and seek medical care.
- Please dispose of used batteries properly, following local regulations. DO NOT incinerate.

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

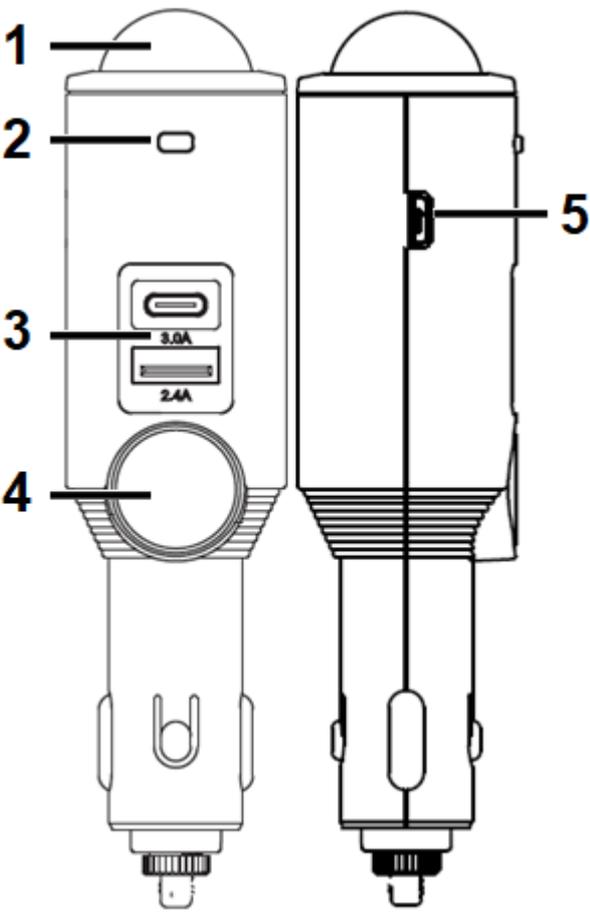
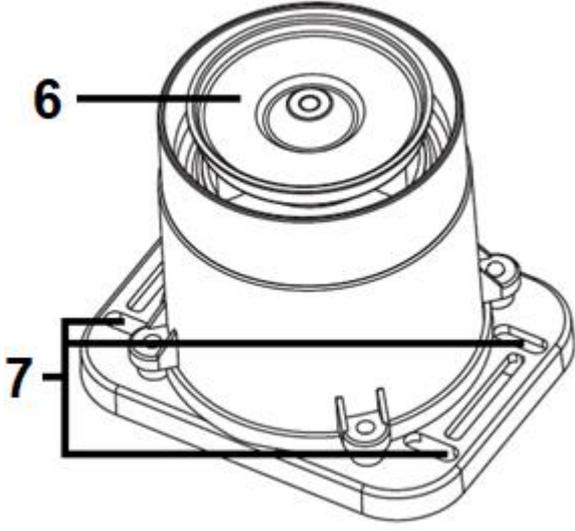
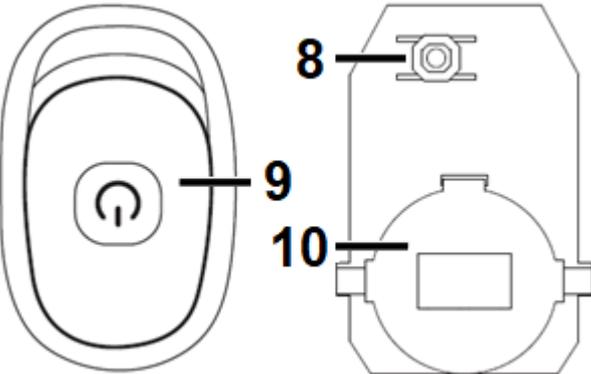
# Contents

IMPORTANT SAFETY INSTRUCTIONS .....	2
WARNINGS .....	2
PERSONAL PRECAUTIONS .....	3
BATTERY SAFETY INSTRUCTIONS.....	4
Features.....	6
Product overview .....	7
Charge the Car Alarm .....	8
Get started.....	9
System Installation and Wiring.....	9
Install the external Siren.....	10
Inserting Car Alarm to the cigartte lighter socket .....	11
Remote Control & Functions .....	12
Activate (Arm) .....	12
Deactivate (Disarm) .....	12
Shut OFF the Car Alarm .....	13
Change remote control battery.....	13
Pair a new remote control .....	13
USB charger function .....	14
Panic mode.....	14
Troubleshooting .....	15
Technical Specification .....	15
Disposal .....	16
Warranty .....	16
Support .....	16

## Features

- DC12 or 24V rechargeable Car Alarm for the cigarette lighter socket
- DC12 or 24V external siren for engine compartment for more attention
- Button for panic alarm (about 105dB)
- 1x USB-C charging port with a total of 5V / 3.0A output power
- 1x USB charging port with a total of 5V / 2.4A output power
- Automatic alarm triggering at motion detection by PIR sensor (Passive Infrared sensor for physical movement detection for the car's interior)
- Built-in 500mAh battery for ~7 days working time ensures alarm triggering even when engine is switched off
- Car Alarm and external siren each about 105dB
- Remote control to activate and deactivate the alarm
- Possibility to connect up to 3 remote controls
- LED status indicator
- Over-current protection & short circuit protection
- Easy handling and installation

## Product overview

Car Alarm		External Siren	
			
		<h3>Remote Control</h3>	
<b>1</b>	PIR (Motion detection) and LED indicator	<b>6</b>	Siren
<b>2</b>	Panic button	<b>7</b>	Mounting holes
<b>3</b>	USB-C charging slot (DC5V/3.0A) USB charging slot (DC5V/2.4A)	<b>8</b>	Pairing button (on circuit board)
<b>4</b>	Siren	<b>9</b>	Remote control button (activate/deactivate)
<b>5</b>	MicroUSB input	<b>10</b>	Battery compartment (on circuit board)

## Charge the Car Alarm

### **⚠ CAUTION**

Charge the device only under supervision and with the recommended equipment (USB charger DC5V/500mA and a MicroUSB cable).

### **NOTICE**

Charge the battery of the device every 2–3 month if it is not used! To counteract deep discharge.

This device has a rechargeable battery. It must be fully charged before first use. Connect an USB cable\* (\*not included) to the MicroUSB Input (5) of the Car Alarm to charge completely. Or use the DC12V/24V cigarette socket of your vehicle for charging. Charge the device for aprox. 2 hours before using it.

<b>Status</b>	<b>LED Indication</b>
<i>Charging</i>	<i>Solid Blue</i>
<i>Charged</i>	<i>Solid Green</i>
<i>Low battery warning</i>	<i>Flash Blue continuously</i>

### **NOTICE**

In some vehicles the cigarette lighter socket is off power when the engine of the vehicle is not started.

## Get started

### System Installation and Wiring

#### **NOTICE**

These installation instructions do not apply to all types of vehicles. They are meant only as a general guide due to the large number of vehicle makes and models. Consult your local motor vehicle laws on the use of this product to be sure it is permitted.

Through installation of this Car Alarm system, you should be sure as to not degrade, damage or compromise the safety of any system or device on your vehicle.

Improper installation and wiring of the external siren may damage the vehicle's electrical system, including vital vehicle computer and operating systems. That could lead to an accident or causing property damage and/or serious personal injury. It is highly recommended to seek professional installation advice from a qualified auto electrician or, in the alternative, to have the installation performed by a qualified auto electrician.

Please ensure that external siren is secured and mounted where it would NOT obstruct any OEM vehicle safety features. In an event of an accident, manufacturer is not responsible for bodily injury or vehicle damage caused by the external siren being a projectile.

The manufacturer assumes no liability for damage caused to your vehicle due to improper installation or use.

#### **⚠ DANGER**

This unit is designed to operate on a 12V or 24V DC negative ground electrical system. Connecting to other types of electrical systems will cause damage to your vehicle. Please contact the manufacturer if you are unaware of the system type in your vehicle.

#### **⚠ DANGER**

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.

#### **⚠ DANGER**

Connecting incorrectly may result in voltage high enough to cause electrocution

**⚠ WARNING**

If the engine has been running for more than 10 minutes, there is a risk of burns. Allow the engine and other parts in the engine compartment to cool down for at least 30 minutes before starting to install the external siren.

**⚠ WARNING**

Loose connectors result in excessive voltage drop and may cause over heated wires and melted insulation, which can lead to electrical fires. Reverse polarity connections (positive to negative) will blow the fuse in the connection cable and may permanently damage the external siren.

**⚠ DANGER**

Mounting the siren in the engine compartment make sure that the ties are secured and the siren is not connected with movable parts. The siren must be mounted with sufficient distance to rotating parts.

**⚠ DANGER**

DO NOT lay the connection cable to the battery in such a way that it runs past hot engine parts where the insulation can melt and cause a short circuit or fire.

**⚠ DANGER**

DO NOT lay the connection cable to the battery in such a way that it runs past moving parts in which it can get caught. Ensure that connection cable is coiled up and securely fastened in the engine compartment with cable ties.

**Install the external Siren**

Before final installation, find a location in the engine compartment where the siren has the best opportunity to transmit the alarm sound to the outside when the hood is closed.

**⚠ DANGER**

DO NOT touch positive and negative terminal of the vehicle battery at the same time. It may result to cause electrocution.

Securely connect red wire to Positive terminal (“+”) of the battery and black wire to Negative terminal (“-”) of the battery. The external siren makes a short alarm sound when it is connected correctly to the vehicle’s battery.

**NOTICE**

When mounting the siren, make sure that the position of the siren does not interfere with the closing of the engine hood.

**NOTICE**

Keep siren far away from engine, the heating of engine may destroy the siren.

Fix the siren with ties to non-movable parts and mount it in suitable position.

**NOTICE**

Make sure that the excess connection cable is coiled up and additionally fastened securely in the engine compartment with cable ties.

**Inserting Car Alarm to the cigarette lighter socket**

After inserting the Car Alarm to the cigarette lighter socket the light will be solid blue for charging. The device is ready for operation and can receive the command from the remote control.

**NOTICE**

The included remote is already paired to the device.

Depending on the current status the Car Alarm’s LED indicator shows below light color.

Status	LED Indication
Charging	Solid Blue
Charged	Sold Green
Low battery warning	Flash Blue continuously
Alarm	Flash Red continuously
Activated	Flash Red once with “Beep”
Deactivated	Flash Red twice with “Beep,Beep”
Armed	Flash Red every 5 seconds
Power off	Flash Red continuously with “Beep,Beep, Beep,Beep”

## Remote Control & Functions

### Activate (Arm)

The Car Alarm can be activated by pressing the remote control button shortly (1x short "beep" and red light flash once). The external siren will "beep" once as well.

Once the PIR sensor of the Car Alarm is activated, it takes about 10 seconds until the device is armed. When armed the red light flashes every 5 seconds. After human action is detected, red light flashes continuously. The siren of the Car Alarm and the external siren are noising loudly together. The external siren will stop alarming after 30 seconds and the siren of the Car Alarm will stop alarming after 120 seconds.

The max. distance to arm the Car Alarm while leaving the vehicle is ~10m on open field.

#### **NOTICE**

It is possible to operate the remote control from outside the closed vehicle through the window.

### Deactivate (Disarm)

To deactivate the Car Alarm and turn off the alarm sound, press the button on the remote control shortly (2x short "beep" and red light flashes twice). The external siren will "beep" twice as well. Then the red light stops flashing.

The max. distance to disarm the Car Alarm before getting back into the vehicle is ~10m on open field.

#### **NOTICE**

It is possible to operate the remote control from outside the closed vehicle through the window.

## Shut OFF the Car Alarm

If you press the remote control button long (4-5 seconds) you will hear 4x short “beep”.

After that the Car Alarm’s battery is turned off. Not just the PIR sensor is shut off, the whole Car Alarm is shut off for long time no use or for transportation.

### **NOTICE**

Shut off does not work when the Car Alarm is connected for charging.

The Car Alarm can only be activated/armed again when you:

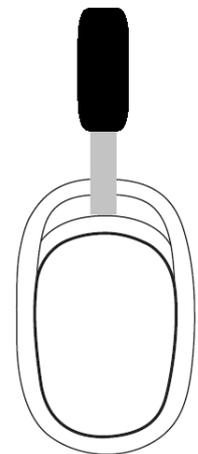
- plug it into the cigarette lighter socket
- connect it via MicroUSB
- as soon as the cigarette lighter socket gives a new charge impuls to the device if it is still plugged into the cigarette ligther socket.

The remote control and the panic button are not working when device is shut off.

## Change remote control battery

When the remote control does not work anymore, change the battery (CR2032).

For changing the battery open the remote control. Use a flat, wide object to remove the rear cover of the remote control. To do so, insert the corresponding object into the groove on the top. Now carefully pry open the back cover. You will now see the circuit board with the battery. Exchange the battery and close the remote control.



## Pair a new remote control

● Open the remote control. Use a flat, wide object to remove the rear cover of the remote control. To do so, insert the corresponding object into the groove on the top. Now carefully pry open the back cover. You will now see the circuit board with the battery.

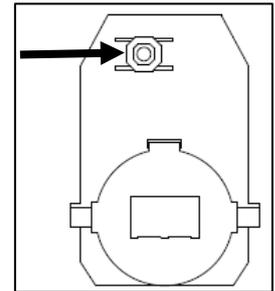
### **NOTICE**

If no battery is inserted, insert a battery (CR2032)

- Press and hold the panic button of Car Alarm for 3-4 seconds till the LED is on. It lights up mixed color flashing (Red/Green/Blue). This activates the pairing mode.

- Press the button (8) on the circuit board once. The light of circuit board will flash blue once.

- Wait for 15seconds until the mixed color light (Red/Green/Blue) of the Car Alarm turns off.



Status	LED Indication
Pair mode	Flash Mixed color (Red/Green/Blue) continuously

- The pairing mode is successful. You can control the Car Alarm with the new remote control.

- Close the back cover of remote control.

## USB charger function

If the Car Alarm is powered from a vehicle cigarette lighter socket, you can connect the USB-C/USB to your mobile phone with a USB cable\* (\*not included). The Car Alarm now is working as mobile phone charger. It is also possible to charge other devices via USB.

### **NOTICE**

Maximum output of USB is 2.4A and USB-C is 3.0A.

## Panic mode

### **▲ WARNING**

The alarm sound will be about 105dB and can harm you or your opponets health.

If you have an emergency press the button of the Car Alarm and the alarm will be nosing loudly to alert people around you. When you press the button again, the alarming will be deactivated.

## Troubleshooting

- Remote does not work:

1. Remove the small plastic strip on the top of the remote control.
2. Open the remote and check if a battery is inserted

## Technical Specification

Detecting distance	~3m car interior (without obstacles (e.g. rear wall in trucks))		
Detecting range	120° cone angle		
Distance IR remote control	~10m (open field)		
Alarm time (Car Alarm)	120seconds maximum		
Alarm volume (Car Alarm)	105dB		
Alarm time (siren)	30 seconds maximum		
Alarm volume (siren)	105dB (lower when mounted in engine compartment)		
USB output	DC5V / 2.4A (total)		
USB-C output	DC5V / 3.0A (total)		
Micro USB input	DC5V / 500mA		
Battery	Built-in rechargeable 500mAh lithium polymer battery 3.7V		
Charging time	~2 hours		
Working time	~7 days (by alarm once a day)		
Standby time	~14 days		
Input voltage (Car Alarm)	DC12 or 24V (cigarette lighter socket)		
Charging current (Car Alarm)	500mA		
Operating current (Car Alarm)	600mA		
Input voltage (siren)	DC12 or 24V (direct connection with car battery)		
Operating current (siren)	100mA		
Remote battery	CR2032		
Blade fuse siren	3A (replaceable); regular size		
Cable length of siren	1.5m		
Transmission frequency	2.4GHz		
Frequency type	ASK		
Radiated output power	maximum 15.85mW (by pressing remote control button, not continuously)		
Material	ABS		
Operating temperature	-10°C – +50°C		

Weight / Dimensions (Car Alarm)	69g / (L) 3.0 x (W) 3.0x (H) 13.5cm
Weight / Dimensions (siren with connection cable and fuse)	120g / (L) 7.3 x (W) 5.7 x (H) 6.2cm
Weight / Dimensions (remote)	16g / (L) 5.9 x (W) 3.7 x (H) 1.0cm
Package Contents	Universal Auto Alarm Pro TX-168: Car Alarm, External Siren with connection cable and 3A Fuse, Remote Control (with CR2032 battery), Mounting material, User Manual

## 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.

## Warranty

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**

## Support

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

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