

# Operation manual LEO Sound Generator



**PANTHERA**  
Connect App



Next page

## Safety instructions

The product described in this manual has been developed, manufactured and subjected to checks in compliance with the necessary safety requirements. To ensure safe function and rule out danger for persons and objects, this product must be installed properly.

This manual is designed using the example of a vehicle model. Deviations from the individual models are possible.

It applies the German warranty law. For personal and material damage, caused by non-observance of these operating instructions, PANTHERA Automotive GmbH assumes no liability.



Important information



Information

For your own safety, our instruction must be strictly followed.

The applicable safety regulations for protective labor legislation in each country must be observed. The user is responsible for compliance with the current legislation itself.

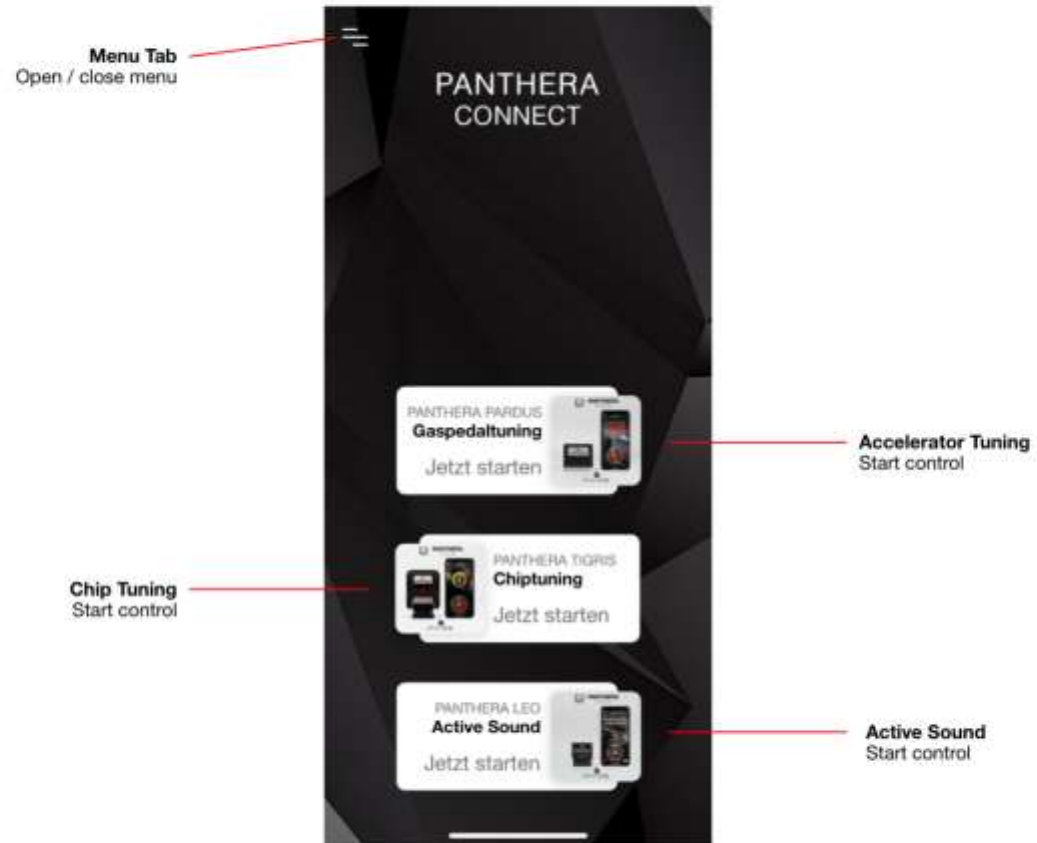
Technical Hotline



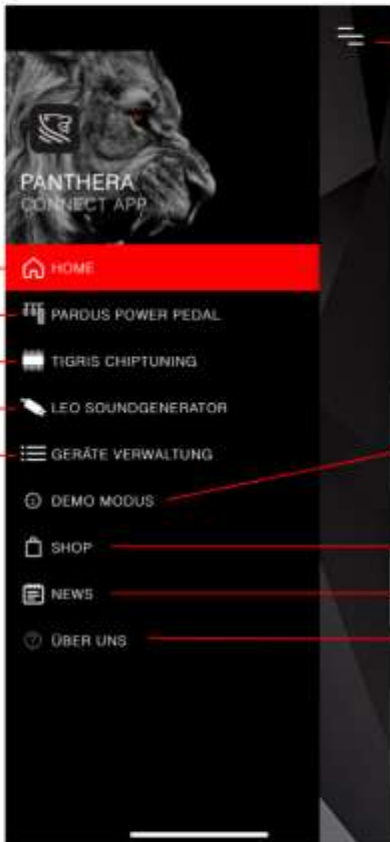
If you have questions or suggestions for installation of our PANTHERA Sound Generator, you can reach us Monday to Saturday from 9:00am till 5:00pm.

**Hotline number: +49 163 33 66 5**

## PANTHERA CONNECT HOME SCREEN



## PANTHERA CONNECT MENU SCREEN



The screenshot shows the Panthera Connect app menu screen. At the top, there is a header with the Panthera logo and 'PANTHERA CONNECT APP'. Below this is a list of menu items, each with an icon and text. Red lines connect these items to descriptive labels on the left and right sides of the page.

- Menü Tab**: Open / close menu
- Homescreen**: Overview of the Panthera Connect products
- Speed dial Pardus Power Pedal**
- Speed dial Tigris Chip Tuning**
- Speed dial Leo Active Sound Generator**
- Device management**: Manage your Panthera Connect products (install, delete, rename)
- Connect App Demo**: To see all the functions of the app, a Panthera Connect product must be connected. With the demo mode you can test the functions without a product.
- Panthera Shop Link**
- Panthera News Blog Link**
- Panthera Automotive GmbH Contact**


## PANTHERA CONNECT DEVICE CONNECTION



The screenshot shows the 'PANTHERA CONNECT' app interface with the following elements and callouts:

- Header:** 'PANTHERA CONNECT' and 'LEO SOUND GERÄT HINZUFÜGEN'.
- Code Entry:** A text input field labeled 'CODE-EINGABE' with a callout: **Enter product code** (This is located on the back of each product and on the connection card included with the product).
- Scan Button:** A large circular button with a camera icon, labeled 'HIER TIPPEN' and 'TIPPEN SIE, UM ZU SCANNEN'. A callout: **Scan product code** (After scanning, the code is automatically entered at the top. Then tap on search to connect the product).
- Search Option:** The text 'OR SCANNEN' is located below the scan button.
- Navigation:** Two buttons at the bottom: 'SUCHE' (Search) and 'ABBRECHEN' (Cancel). A callout for 'Abort' (Cancel and return to the previous screen.) points to the 'ABBRECHEN' button.
- Product Search:** A callout: **Product Search** (Searches for the product to be connected with the ignition or engine switched on, then the system automatically switches to the product screen.) points to the 'SUCHE' button.

## PANTHERA CONNECT DEVICE MANAGEMENT



The screenshot shows the 'PANTHERA CONNECT LEO SOUND GERÄTELISTE' screen. At the top, there is a hamburger menu icon. Below it, the title 'PANTHERA CONNECT LEO SOUND GERÄTELISTE' is displayed. The main content area contains a section titled 'AUSGEWÄHLTES GERÄT' with a white input field. Below this is a section titled 'GERÄT BENENNEN' with another white input field. Two buttons, 'SPEICHERN' and 'LÖSCHEN', are positioned below the input fields. A list of devices is shown below the buttons, with each entry consisting of a device ID followed by 'NEW'. At the bottom of the screen, there are two buttons: 'STANDARD' and 'ABBRECHEN'.

**Save device names**  
Saves previously made changes to the device name.

**Saved devices**  
Shows all devices connected to the app. Tap to rename a device or to set it as a standard device for auto-connect.

**Selected device**  
Displays the currently selected device.

**Name the device**  
Changes the name of the device selected from the list below.


**Delete device**  
Deletes the device from the Panthera Connect app.

**Abort**  
Cancel and return to the previous screen.

## PANTHERA LEO ACTIVE SOUND SCREEN



## PANTHERA LEO ACTIVE SOUND SETTINGS



**Leo Active Sound Settings**  
General settings for the Active Sound System, please consult a technician before use.

**Teach radio remote control**  
Tap and press a button on the radio remote control to connect it to the Active Sound System. Just to learn a new remote control, a remote control has already been taught in as delivered.

**Calibrate accelerator pedal settings**  
The „MISFIRE“ and „REAL MODE“ for a more realistic exhaust sound requires the accelerator pedal position and enables quieter driving at a lower position and louder roar the further the accelerator pedal is pressed. To calibrate, press the button and press the accelerator fully once as indicated on the screen.

**Display input speed**  
The speed transmitted from the engine to the Active Sound System in real time.


**Output speed display**  
The speed adjusted by our sound module and adjustable via the Panthera Connect app in real time.

**Simulated speed slider**  
In order to accelerate in demo mode, simply slide the slider slowly to the right.

**Speed simulation**  
Active sound demonstration, for situations in which the vehicle cannot / may not be started, such as tuning meetings, in exhibition halls, etc.



## PANTHERA LEO ACTIVE SOUND SETTINGS



**Number of misfires triggered**  
The misfires, popping, blopping are randomly generated from 0 (none) to (entered value) dived and triggered in real time.

**Minimum speed for misfires**  
Range start in which the misfires are triggered. If the engine speed reaches a lower value, no simulated misfires are triggered.

**Minimum accelerator pedal position for misfires**  
Range start in which the misfires are triggered. At a lower accelerator pedal position, no simulated misfires are triggered.

**Save misfire settings**  
Saves the values set above for triggering the simulated misfires.

**Misfires**  
Activates or deactivates simulated misfires when changing loads. „REAL MODE“ must also be activated for use.

**Maximum speed for misfires**  
End of range in which the misfires are triggered. If the engine speed reaches a higher value, no simulated misfires are triggered.

**Maximum accelerator pedal position for misfires**  
End of range in which the misfires are triggered. At a higher accelerator pedal position, no simulated misfires are triggered.

**EFFECTS**

MISFIRE

MAX AMOUNT  
4

The maximum number of misfires generated randomly.

MIN RPM 1500      MAX RPM 3000

RPM range in which the misfires can be started.

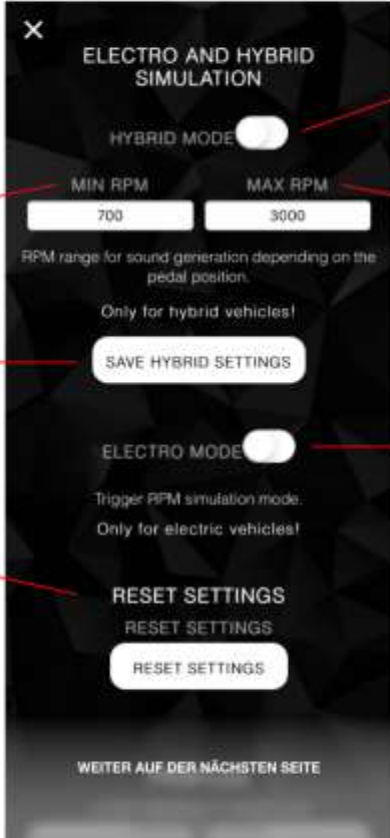
MIN THROTTLE 20      MAX THROTTLE 50

Pedal position in percent in which the misfires are triggered. If within the RPM range.

SAVE MISFIRE SETTINGS

WEITER AUF DER NÄCHSTEN SEITE

## PANTHERA LEO ACTIVE SOUND SETTINGS



**Minimum speed in E mode**  
Value for idle speed of the simulated Active Sound noise in hybrid vehicles in electrical operation. It makes sense. For example 500 to 1000 revolutions per minute.

**Save hybrid settings**  
Save active sound settings for hybrid vehicles.

**Reset settings**  
Caution! All settings of the Panthera Leo Active Sound Generator are reset to factory settings.

**Hybrid vehicle mode**  
In hybrid vehicles which switch back and forth between the electric motor and the combustion engine, this mode must be activated so that the active sound can be heard permanently.

**Maximum speed Speed in E mode**  
Value for maximum speed of the simulated active sound noise in hybrid vehicles in electrical operation. It makes sense. For example 3000 to 5000 revolutions per minute.

**Electric vehicle mode**  
This mode must be activated for Active Sound Simulation for electric vehicles. For hybrid vehicles, please select the hybrid mode.

**ELECTRO AND HYBRID SIMULATION**

HYBRID MODE

MIN RPM 700      MAX RPM 3000

RPM range for sound generation depending on the pedal position.

Only for hybrid vehicles!

SAVE HYBRID SETTINGS

ELECTRO MODE

Trigger RPM simulation mode.

Only for electric vehicles!

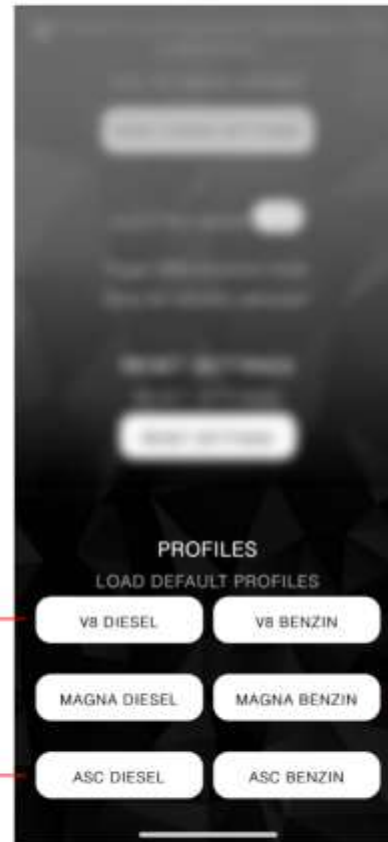
RESET SETTINGS

RESET SETTINGS

RESET SETTINGS

WEITER AUF DER NÄCHSTEN SEITE

## PANTHERA LEO ACTIVE SOUND SETTINGS



**Standard Profile Leo V8**  
Load preset sound profiles for the power amplifier you are using and the engine variant in your vehicle.

**Standard Profile Leo Active Sound Cube**  
Load preset sound profiles for the power amplifier you are using and the engine variant in your vehicle.

**Standard Profile Leo Magna**  
Load preset sound profiles for the power amplifier you are using and the engine variant in your vehicle.

## PANTHERA CONNECT QUICK SWITCH PRODUCT SCREENS



The Panthera team wishes you lots of fun and a good trip!