



LDS-MINI INTERFACE

German Engineering. Out of the ordinary.

Version 1

Bedienungsanleitung



Bitte lesen Sie die komplette Anleitung aufmerksam durch bevor Sie mit der Installation beginnen.
Before attempting to connect or operate this product, please read the instructions completely.

Users Manual

Precautions

- Pay utmost attention if you install the LDS Interface into the driver's compartment.
- Use only in cars with a 12 Volt negative ground.
- Before wiring, disconnect the cable from the negative battery terminal to avoid short circuits or electrical shocks. Make the correct connections.
- Do not damage pipe or wiring when drilling holes.
- Arrange the wiring so it is not crimped or pinched by a sharp metal edge.
- Do not install the LDS Interface in locations which might hinder vehicle operations and do not install in locations with any moisture. Use the installation materials provided with the LDS Interface.
- Do not use bolts or nuts in the brake, airbags or other safety relevant systems to make ground connections.
- Attention! This LDS Interface is developed for motor vehicle use only.
- WARNING: DO NOT WATCH MOVIES WHILE DRIVING TO AVOID DANGER!

Environmental Reference

- Old electronic devices do not belong in the garbage can.
- If you later want to dispose of this device, remove all cables and batteries and dispose of them separately at a recycling facility in your area.
- Alternatively, you can return this device to Ampire for disposal.
- The packaging is recyclable. Dispose of the packaging in a designated collection system.



Environmental instructions and information on the disposal of electrical and electronic equipment including batteries (applicable to countries that have adopted a separate collection system)

If you want to dispose of this product, do not dispose of it with your normal household waste. There is a separate collection system for used electronic equipment in accordance with legal requirements that require appropriate treatment, recovery and recycling. Contact your local authority for details on finding a recycling facility in your area. Proper recycling and disposal helps to conserve resources and prevent harmful effects on our health and the environment.



User Manual

HOW TO SWITCH FROM ORIGINAL TO ADD ON INTERFACE

Remark: Take BMW NBT system for example, other models pls check the wiring diagram.

- 1) Press and hold "BACK" button nearby Knob for 3S to switch menu.
- 2) Short press "MENU" button to open "Siri".
- 3) iDrive knob to control up/down/right/left/ok.



NOTE! Make sure source switch to "AUX" mode on original car stereo for audio transmission before using the integration.

Quick explanation of the menu items

CarPlay

Allows you to control your phone, messages, navigation, and music using Siri. You can also control other supported apps. Both wireless and wired connections are supported.

Android Auto

Allows you to control your phone, messages, navigation, and music via Hey Google. It also allows you to control other supported apps. Both wireless and wired connections are supported, as well as wireless screen mirroring for Android smartphones.

MiraCast

Supports wired and wireless screen mirroring for Android smartphones.

AirPlay

Supports wired and wireless screen mirroring for iPhones.

HDMI

Supports HDMI signal input with a maximum resolution of 1920×1080 pixels.

NOTE: Audio output via AUX / 3.5mm jack only.

USB Video

Media playback: Connect a USB flash drive to play video files directly.

NOTE: Audio output via AUX / 3.5mm jack only.

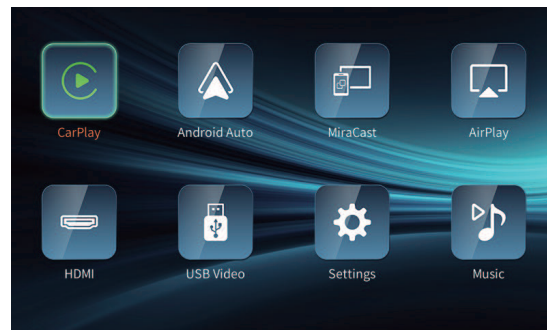
Settings

This takes you to the menu where you can adjust the interface settings.

Music

Media playback: Connect a USB flash drive to play audio files directly.

NOTE: Audio output via AUX / 3.5mm jack only.





User Manual / Settings Menü



In the Settings menu, you can customize various system settings.

The following sections are available:

Language – Select and change the system language.

Connectivity – Manage connection and pairing settings.

Wifi – WLAN connection settings.

System – Software updates.

Display – Adjust display settings.

Bluetooth – Bluetooth connection settings.

Reverse – Camera function settings.

Factory Settings – Access settings and system reset.

User Manual / Language

The device supports 13 languages, which can be selected in this menu.



User Manual / Connectivity

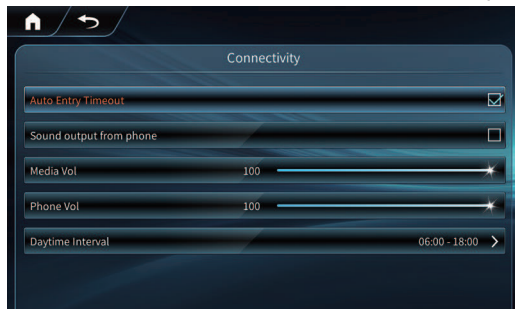
Auto Entry Timeout:

When enabled, the interface automatically switches to the CarPlay or Android Auto screen after 5 seconds of inactivity, provided a device is connected.

Sound output from phone:

When enabled, audio from CarPlay and Android Auto is output through the vehicle's OEM Bluetooth.

Note: If there is no Bluetooth audio connection on the phone, the sound will come from the phone.



Media Vol:

This setting allows you to adjust the media volume. You can set the value between 0 and 100 to customize the playback volume.

Phone Vol:

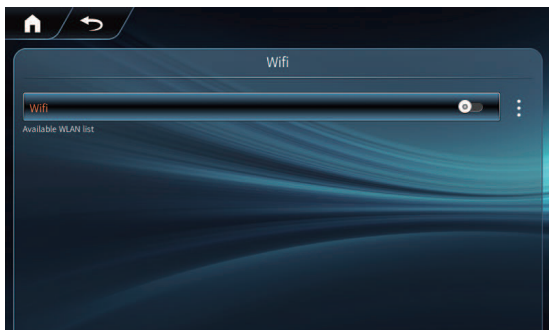
This setting allows you to adjust the phone volume. You can set the value between 0 and 100 to customize the volume during phone calls.

Daytime Interval:

This setting determines the time window for the automatic light/dark mode switch in CarPlay and Android Auto.

User Manual / WLAN

This is required for screen mirroring (mirror function) and software updates. Connect the interface to your smartphone's Wi-Fi hotspot here.



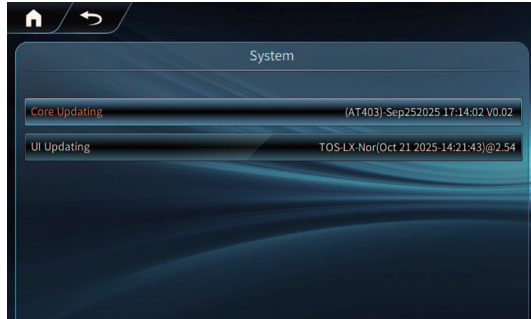


User Manual / System (Firmware Update)

Note: Before updating, connect the LDS Interface to a Wi-Fi network or your smartphone's hotspot!
To install the update, your smartphone must not be connected to the interface via CarPlay or Android Auto!

The passwords for the update process are:

MCU-Upgrade (MCU): cpty0001 **System-Upgrade (Linux/UI):** cplds0001



Attention! Some modules have updates for special cases; you can find the corresponding passwords in the vehicle-specific installation manual.

Attention! If Chinese letters appear on the screen instead of your password while you're typing, delete what you've entered and click the globe icon on the virtual keyboard to change the language. Then re-enter your password. Otherwise, no available updates will be displayed!

User Manual / Display



In this menu, you can customize the display settings.

The following settings are available:

Luminance – Adjusts the display's brightness.

Saturation – Adjusts the intensity of the colors.

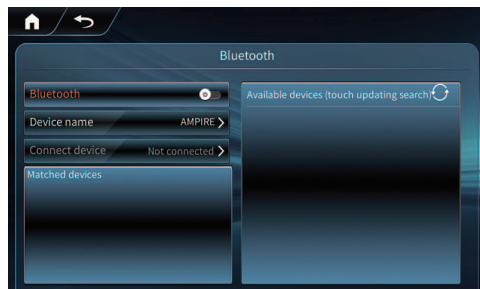
Hue – Allows you to adjust the color display.

Contrast – Adjusts the difference between light and dark areas of the image.

User Manual / Bluetooth

Here you can view the interface's Bluetooth name. If necessary, you can also rename the device yourself.

NOTE: It is not recommended to change the name.



User Manual / Reverse

This is where you configure the camera settings.

Front view camera:

Activate this feature if you are retrofitting a front camera, and set the display duration for the period after reverse gear is engaged to a value between 1 and 30 seconds.

Rearview camera:

Activate this feature if you are retrofitting a rearview camera. The camera image and guide lines are configurable.



Notes:

If you are using the vehicle's original rearview camera (OEM RVC) or original front camera (OEM FVC), these options must not be enabled.

The guide lines feature is not supported on all vehicles; if the necessary information is not available, the LDS will not switch to the camera. In this case, please use the "Image Only" option (without guide lines).

In some cases, reverse gear information may not be available on the CAN bus; in this case, in addition to the "Image Only" option, a manual tap must be made on the reverse signal (orange cable of the LDS module).



User Manual / Factory Settings

Main function CFG:

Determines which features are available on the home screen.



These settings can also be configured.

Left Hand Drive:

Enable for left-hand drive vehicles; disable for right-hand drive vehicles.

Restore Factory Settings:

After selecting and confirming, all settings will be reset to their factory defaults.

Car icon:

Select the appropriate vehicle logo for the CarPlay home screen.

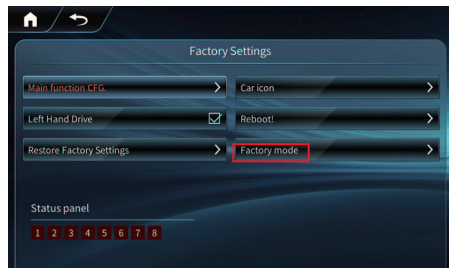


Reboot:

After selection and confirmation, the interface will restart.

User Manual / Factory Mode

You can adjust the camera settings in Factory Mode. To access Factory Mode, you must enter a password.
The password is: 6666



Camera settings:

By default, the camera inputs are set to the high-resolution AHD 1080P 25 format and are compatible with all Ampire AHD cameras. If you want to use cameras with lower resolution, select the appropriate camera format in these settings. Otherwise, the camera images will not be displayed. **Please note that this setting always affects both camera inputs. You cannot use different formats for the rearview and front cameras!**

Note: Not required for the OEM camera





User Manual / Factory Mode

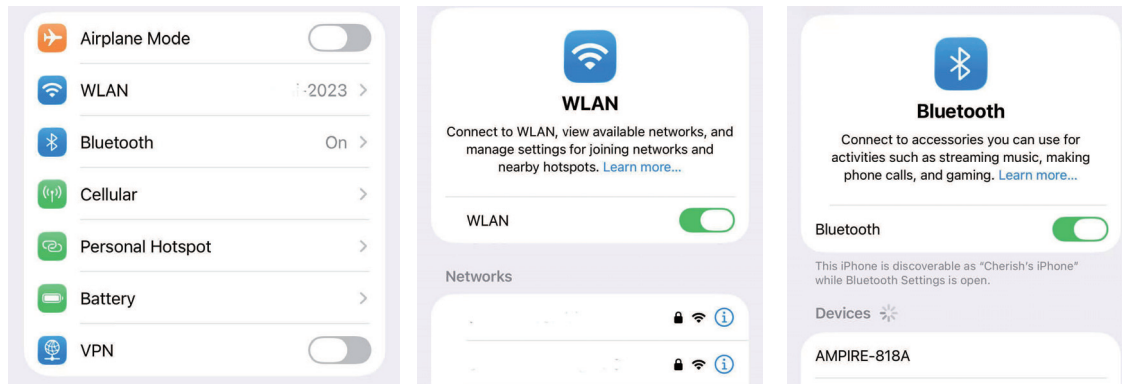
Note: The fields marked in red are intended solely for factory use and should not be modified by the user.



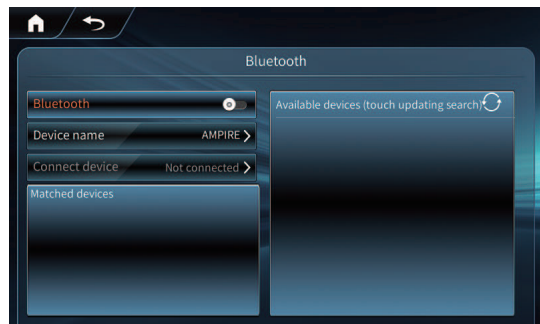
Wireless Apple CarPlay

Note: CarPlay is available only on the iPhone 5 and later models

Turn on Wi-Fi and Bluetooth on your iPhone, then open the Bluetooth settings.



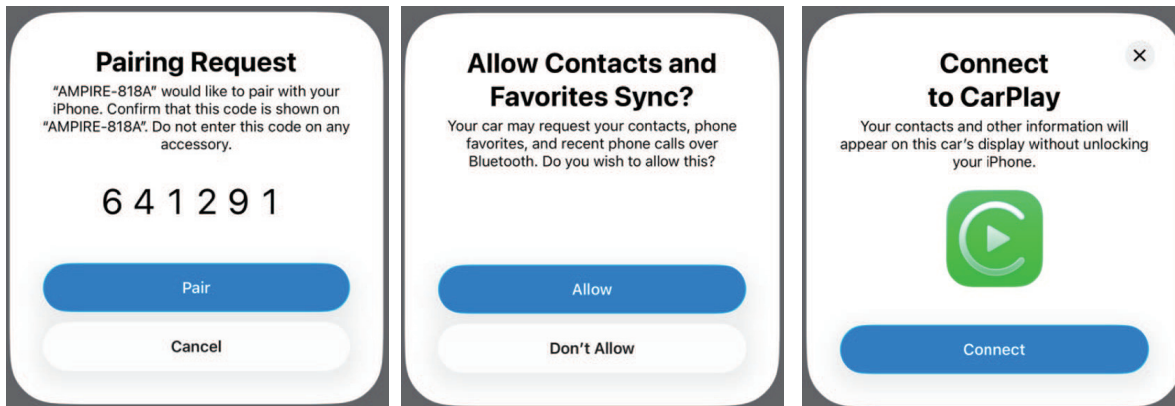
Launch the LDS interface, open the main menu, and go to “Settings”→“Bluetooth”.



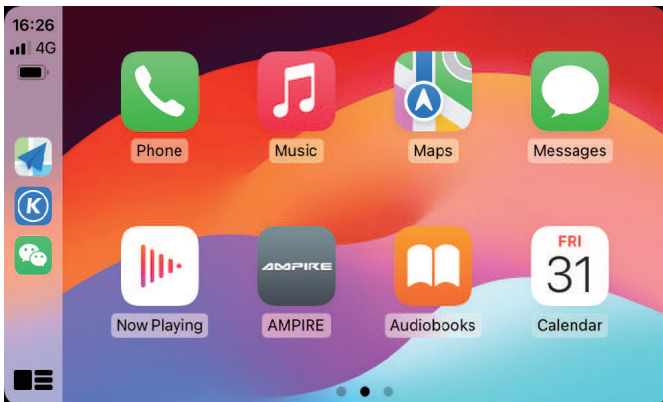


Wireless Apple Carplay

Connect your iPhone to “AMPIRE-XXXX” via Bluetooth. The following prompts will appear on your smartphone one after another—please confirm them as indicated.



Once the connection is established, the LDS interface automatically switches to the CarPlay screen.

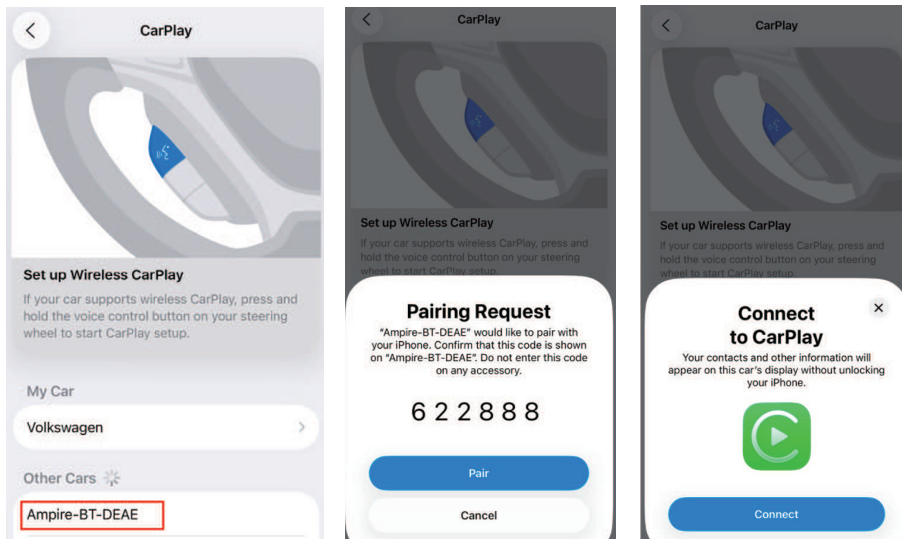


Note: If you are unable to connect to CarPlay, repeat the steps above.

Wireless Apple CarPlay

Note: If you are using iOS 16 or later, you may need to perform this additional step.

On your iPhone, open: Settings → General → CarPlay → My Car → Ampire-XXXX. Then establish the connection—the interface will automatically switch to the CarPlay screen.



Disconnect from CarPlay

Tap “Ampire-XXXX” in the CarPlay interface and return to the system's main menu.

Turn off Wi-Fi on your iPhone—this will disconnect the Wireless CarPlay connection. Turning it back on will reconnect the interface.

Reconnect CarPlay

If your smartphone's Bluetooth and Wi-Fi settings remain unchanged, Wireless CarPlay will connect automatically the next time you start the vehicle.

If your Bluetooth or Wi-Fi settings have been changed, remove the device from the device list and perform the initial pairing again.

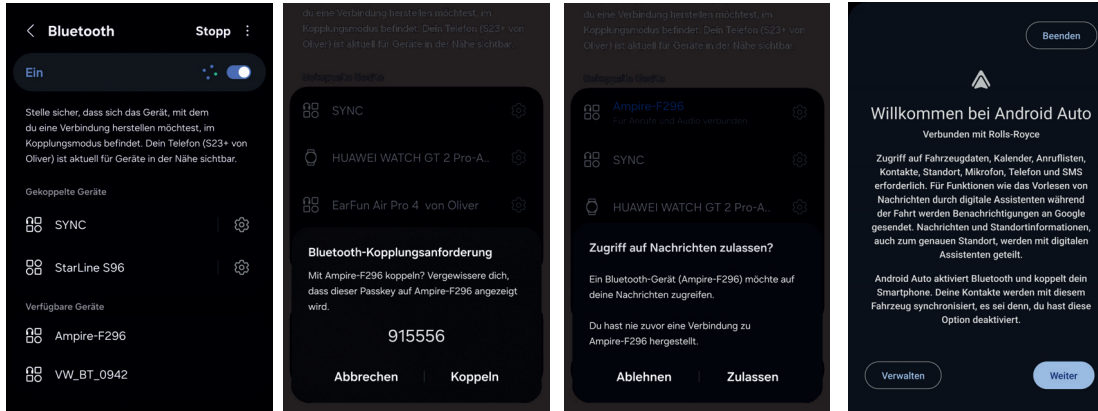


Wireless Android Auto

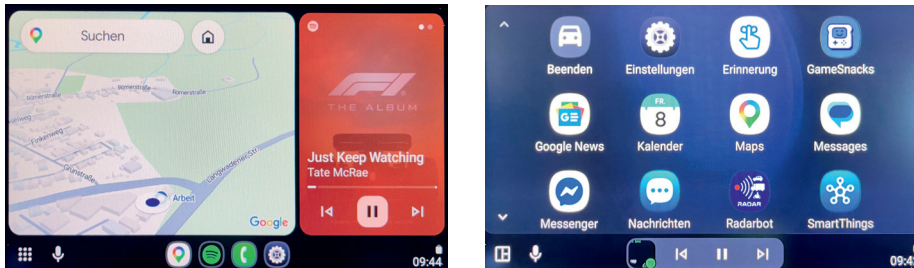
Note: Wireless Android Auto is only supported on Pixel and Nexus smartphones (Android 8.0 or higher) and Samsung smartphones (Android 9.0 or higher). Other brands of Android smartphones are supported starting with Android 11. You must have at least version 4.7 of the Android Auto app installed.

Note: Disconnect your smartphone's Bluetooth connection to other devices before using Android Auto.

Turn on Wi-Fi and Bluetooth on your smartphone. In the Bluetooth settings, search for “Ampire-xxxx” and pair the device. Wait 3–5 seconds until a confirmation message appears, tap “OK”—the connection is established. Then open the Android Auto app on your smartphone—the system will connect automatically.

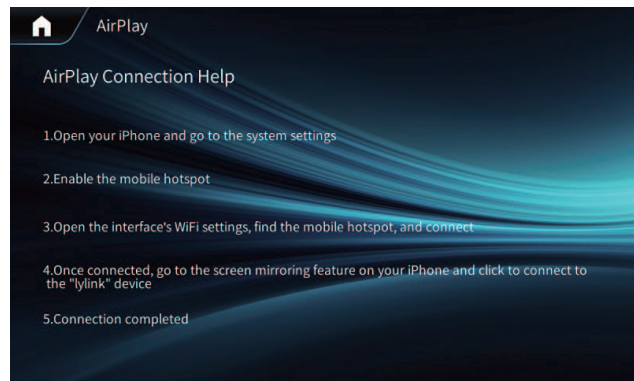


Once the connection is established, the LDS interface automatically switches to the Android Auto interface.



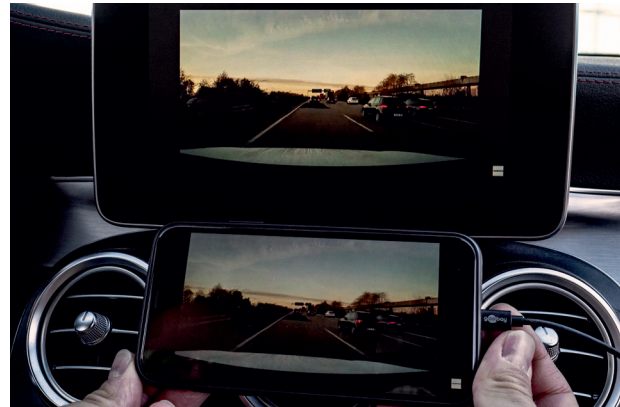
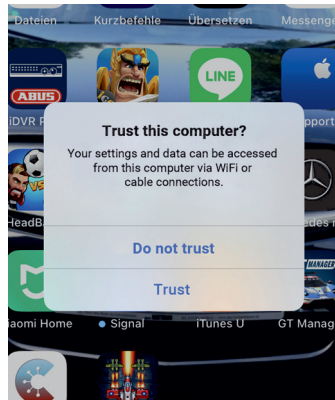
AirPlay connection

In the LDS Interface main menu, open the “AirPlay” icon and follow the connection instructions on the screen:



Alternatively: Wired AirPlay connection

Connect the original Apple data cable to the interface's USB port. A prompt will appear on your iPhone—tap “Trust.” AirPlay is now ready to use.

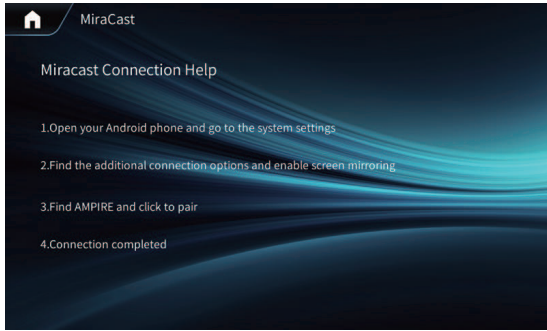




MiraCast connection

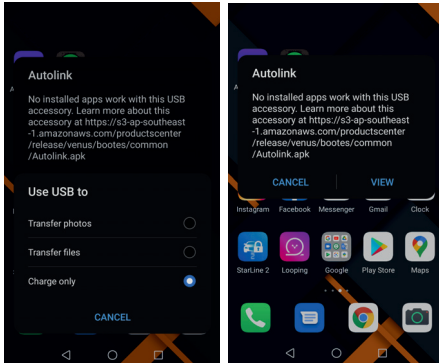
In the LDS Interface main menu, open the “MiraCast” icon and follow the connection instructions on the screen:

Note: Depending on your Android smartphone, the “Screen Mirroring” feature may have different names. Manufacturers often use their own terms for the same feature. It may be called Smart View, Screen Mirroring, or something similar. Since the names and menus vary by brand and model, we recommend checking the user manual or settings of your specific smartphone. There you will find the exact name and instructions for enabling the feature.



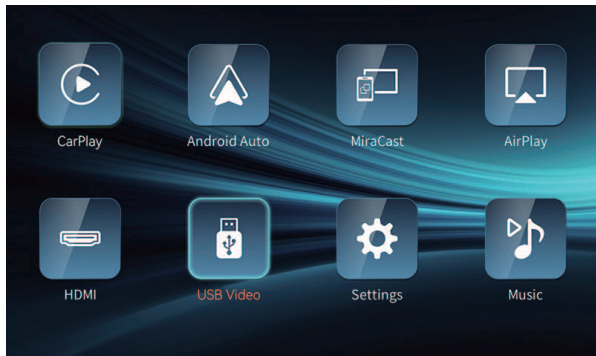
Alternatively: Wired Miracast connection

Connect the original Android data cable to the interface's USB port. On your smartphone, select “File Transfer” and confirm by tapping “Allow.” Screen mirroring will then be enabled.

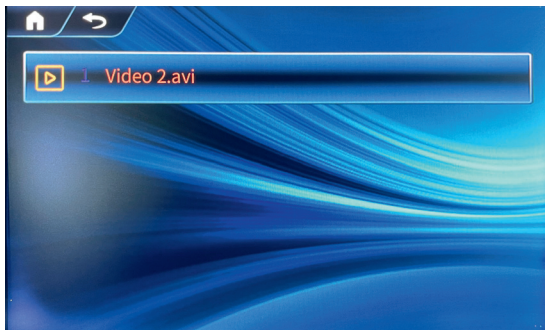


USB HD-Media Playback

Plug the USB flash drive into the interface's USB port. The USB icon in the main menu will light up in light blue as soon as the drive is detected.



Tap the “USB Video” icon to select your media files and start playback.



Note: In the USB Video and Music menu, you cannot navigate through a folder structure. As a result, content cannot be organized or filtered by folder.

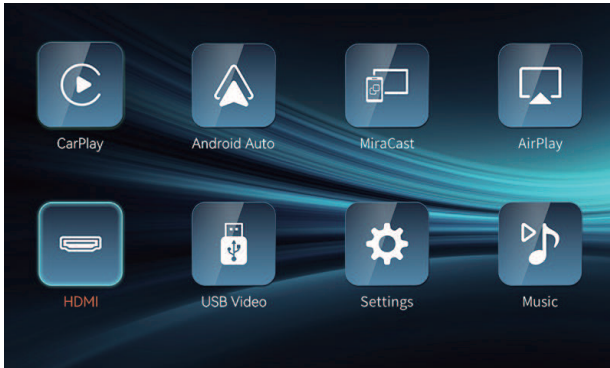
Note: Supported video formats: MPG, MPEG, DAT, MP4, 3GP, MOV, RM, RAM, RMVB. Supported audio formats: MP3, WMV, WAV, MID

Audio output via AUX / 3.5mm jack only



HDMI Input

Connect an HDMI output device (such as a laptop or media player) to the HDMI port on the LDS Interface. The HDMI icon in the main menu will light up.



Tap the “HDMI” icon to start playback. Note: The HDMI input supports a maximum resolution of 1920×1080 pixels (Full HD).

Audio is output only via the AUX / 3.5mm jack.

Wiring Diagram / Wiring

Different vehicle models have different wiring diagrams. Please carefully review the wiring diagram for your specific vehicle model before beginning the installation. If you have any questions, please contact your dealer.

Technical specifications

Operating voltage	9-16 VDC (typically 12V)
Current consumption	421 mA
Quiescent current	1.4 mA
Transmission frequency	2.4MHz
Transmission power	>100mW EIRP (sum power)



Hereby Ampire Electronics GmbH & Co.KG declares that the LDS smartphone interface complies with the directives 2014/30/EU, 2014/53/EU, 2014/35/EU and 2011/65/EU. The full text of the EU Declaration of Conformity in German language is available at the following Internet address: <https://www.ce.ampire.de>

Seit der Firmengründung im Jahr 1987 hat AMPIRE ELECTRONICS nur das eine Ziel, dem Kunden die bestmöglichen Autoalarm-, Autohifi- und Multimediaprodukte zu liefern, die auf dem internationalen Markt erhältlich sind.

Alle Fertigungsstätten und Zulieferer sind nach ISO-9001 bzw. QS-9000 zertifiziert.
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Wir fokussieren auf zukunftsorientierte Entwicklung anwenderfreundlicher Produkte.
Unser hoher Anspruch an Qualität, Funktionalität und Design zeichnet unsere Erzeugnisse aus. "German Development" wird bei AMPIRE wörtlich genommen.

Since its founding in 1987 Ampire Electronics has only one goal, to provide the best possible Caralarm-, Carhifi- and Multimedia products, which are available on the international market. All manufacturing facilities and suppliers are certified according to ISO 9001 and QS-9000.
Ampire quality products are sold worldwide.

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We are focused on future oriented development of user friendly products.
The outstanding high quality standards, functionalities and designs of our products are unique in the market. "German Development" is taken literally in AMPIRE.

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