

## Video signal converter

### CI-FI21

Compatible with

**Fiat Ducato 8**

**Jeep Wrangler**

**Vehicles with factory rear-view camera**



**Combined interface for converting the digital video signal of the factory rear-view camera to an according FBAS signal for after-market devices and for providing the factory rear-view camera with power.**

#### **Product features**

- **Video signal converter for factory rear view camera**
- **1 Fakra input for factory rear view camera**
- **Power supply for factory rear view camera**
- **1 CVBS output for after-market head units or monitors**

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## Legal Information

By law, watching moving pictures while driving is prohibited, the driver must not be distracted. We do not accept any liability for material damage or personal injury resulting, directly or indirectly, from installation or operation of this product. Apart from using this product in an unmoved vehicle, it should only be used to display fixed menus or rear-view-camera video when the vehicle is moving (for example the MP3 menu for DVD upgrades).

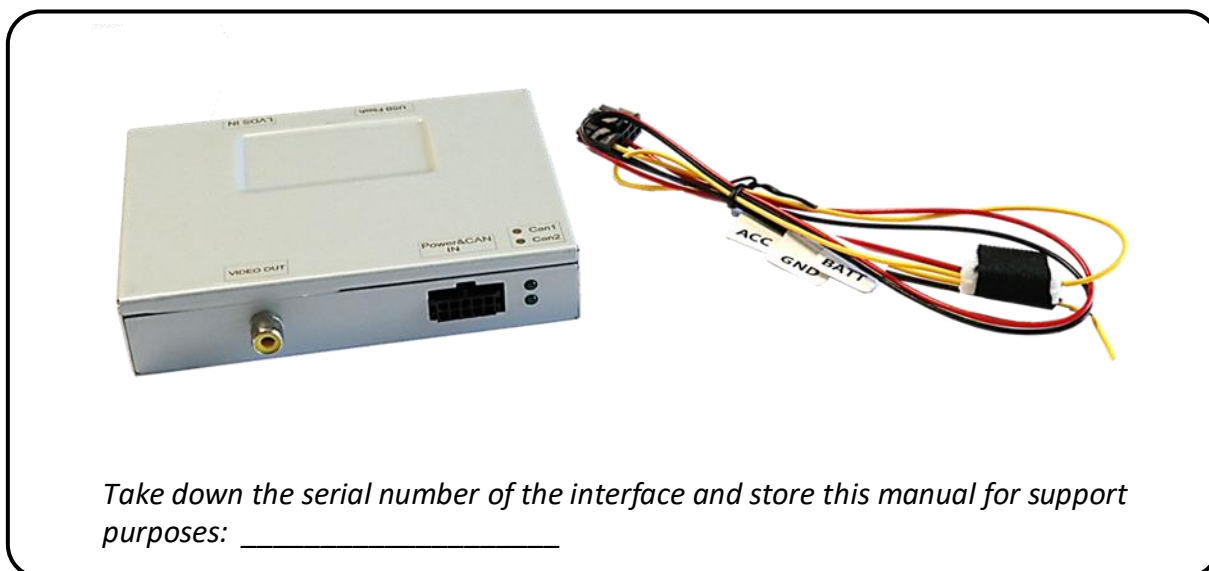
Changes/updates of the vehicle's software can cause malfunctions of the interface. Up to one year after purchase we offer free software-updates for our interfaces. To receive a free update, the interface has to be sent in at own cost. Wages for de-and reinstallation and other expenditures involved with the software-updates will not be refunded.

## 1. Prior to installation

Read the manual prior to installation. Technical knowledge is necessary for installation. The video interface's place of installation must be free of moisture and away from heat sources.

**Before the final installation in the vehicle of the video sources, we recommend a test-run to ensure the compatibility of vehicle and interface. Due to changes in the production of the vehicle manufacturer there's always a possibility of incompatibility.**

### 1.1. Delivery contents

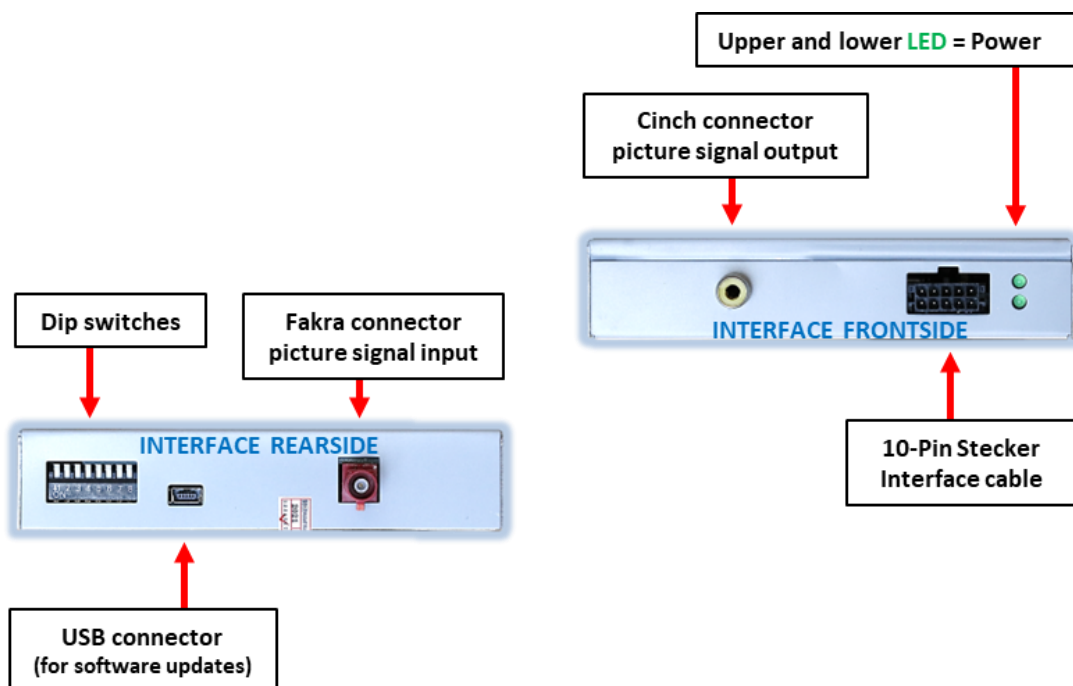


## 1.2. Checking the compatibility of vehicle and accessories

Requirements		
Brand	Compatible vehicles	Infotainments
Fiat	e.g. Ducato 8 since model year 2021	Version with Fakra connector only (with phantom power)
Jeep	e.g. Wrangler model year 2022	Version with Fakra connector only (with phantom power)

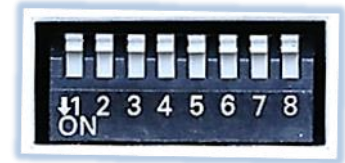
## 1.3. Boxes and connectors – video interface

The video interface converts the digital video signal of the factory rear view camera into a corresponding FBAS signal for after-market devices and supplies power to the rear-view camera.



## 1.4. Settings of the 8 Dip switches

Some settings have to be selected by the dip-switches on the video interface. Dip position **UP = OFF** and **DOWN = ON**.



All 8 dip switches must be set to OFF

Fahrzeug/Navigation	Dip 1	Dip 2	Dip 3	Dip 4	Dip 5	Dip 6	Dip 7	Dip 8
All vehicles	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF



**Note:** Some of the vehicles are equipped with different camera types. If the picture quality is unsatisfying, set **dip switch 8 to ON** and perform a power reset.

## 2. Installation

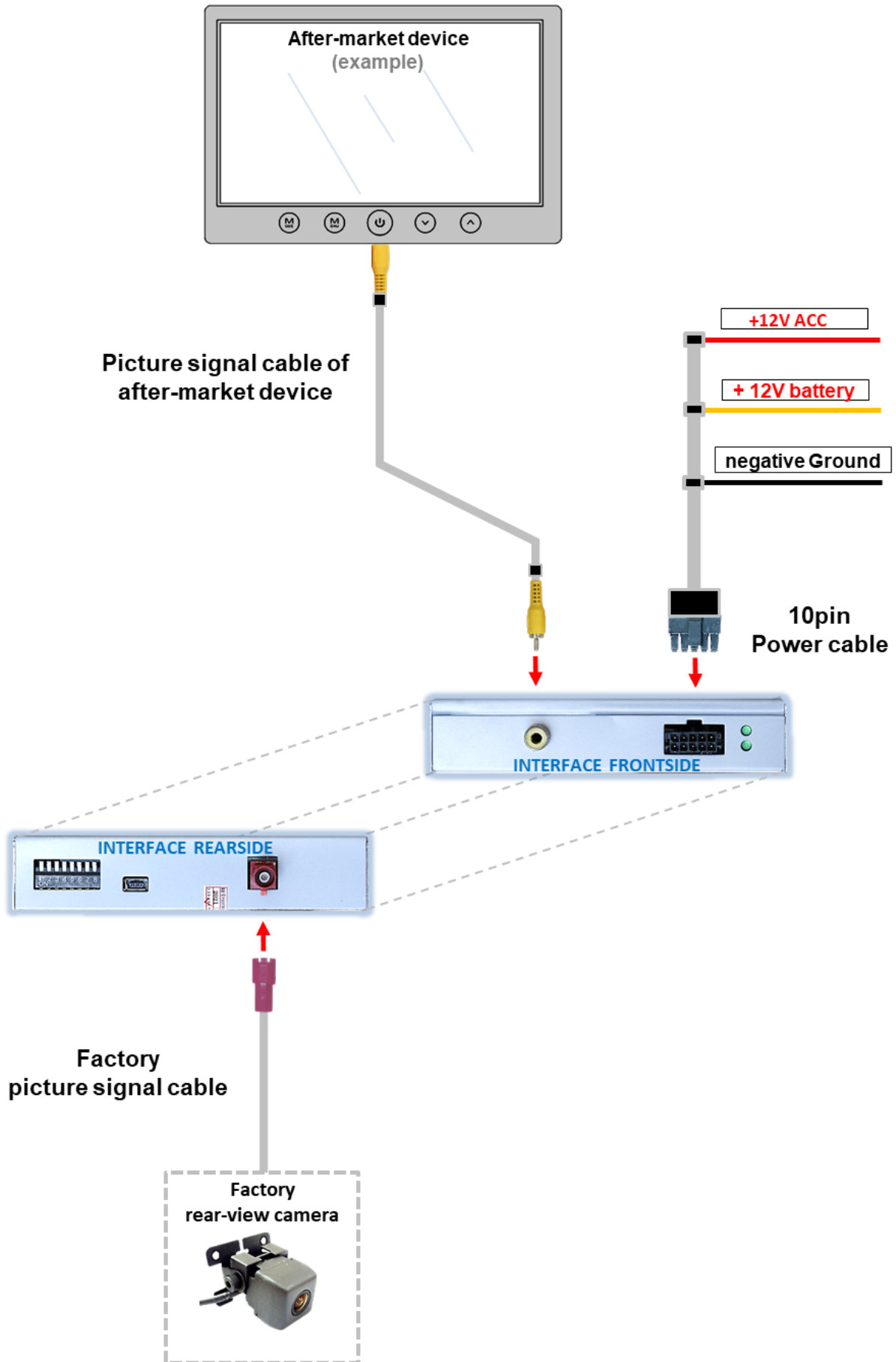
**To install the interface, first switch off the ignition and disconnect the vehicle's battery. Please read the owner's manual of the car, regarding the battery's disconnection! If required, enable the car's Sleep-mode (hibernation mode)**

**In case the sleep-mode does not succeed, the disconnection of the battery can be done with a resistor lead. If the necessary stabilized power supply for the interface is not taken directly from the battery, the chosen connection has to be checked for being constantly stable. The interface needs a permanent 12V source!**

### 2.1. Place of connection

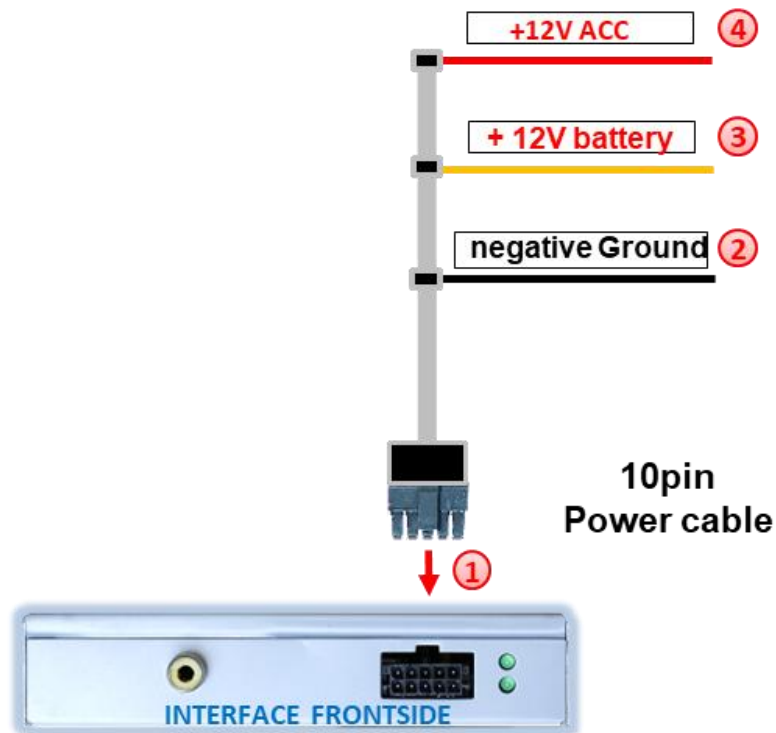
The connection is has to be done at a suitable location near the factory fakra cable (e.g. behind the cockpit or under the seats).

## 2.2. Connection schema



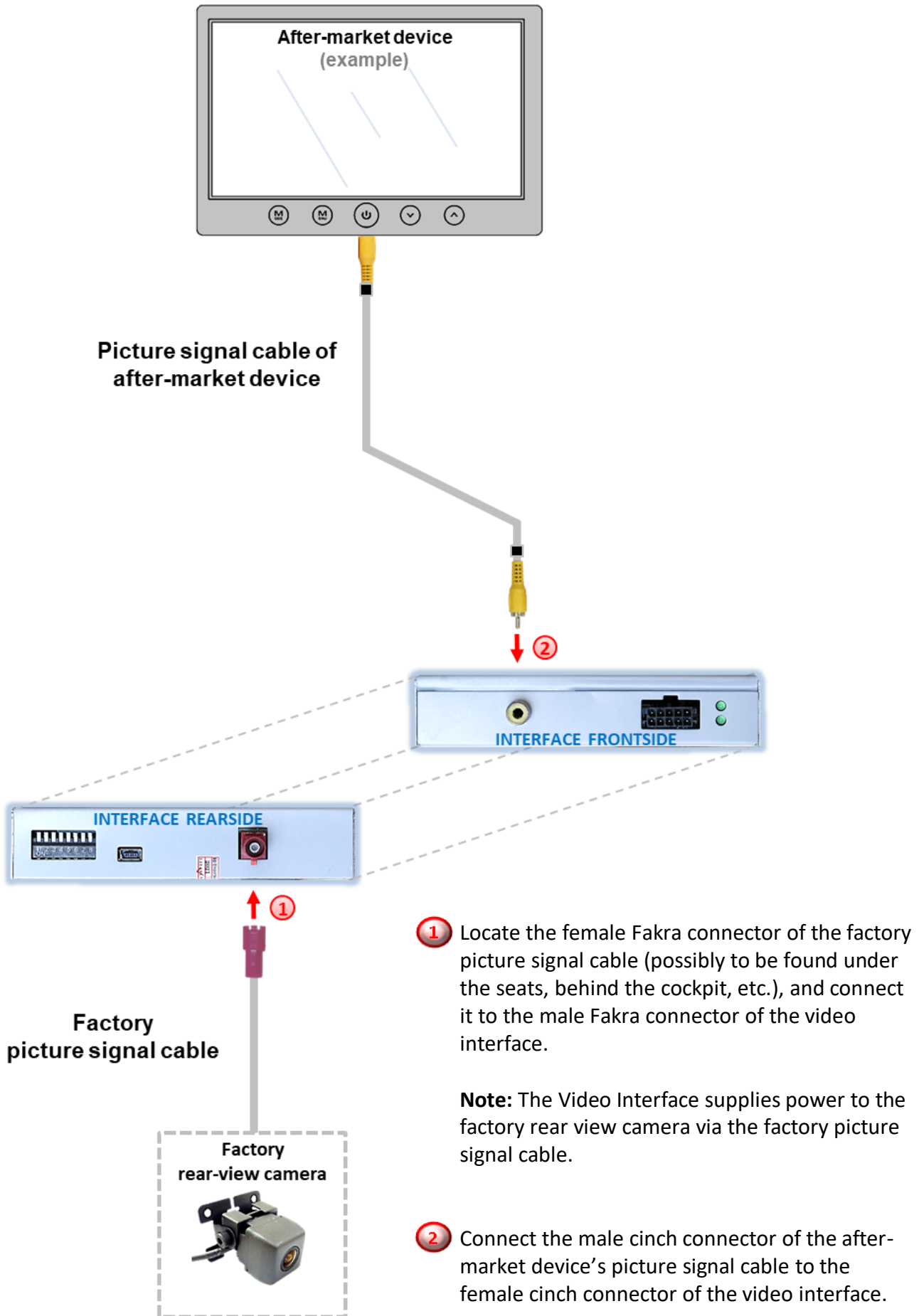
## 2.3. Connection

### 2.3.1. Connection - Power



- 1 Connect the 10pin power cable's female 10pin connector to the 10pin connector of the video interface.
- 2 Connect the single **black wire** of the 10pin power cable to vehicle's stable negative ground.
- 3 Connect the single **yellow wire** of the 10pin power cable to +12V permanent and stable power supply.
- 4 Connect the single **red wire** of the 10pin power cable to +12V ACC accessory power.

## 2.3.2. Connection – factory rear-view camera and after-market device



### 3. Specifications

BATT/ACC range	7V - 25V
Stand-by power drain	6mA
Power	120mA @12V
Temperature range	-40°C to +85°C
Dimensions video-box	118 x 25 x 105 mm (W x H x D)

### 4. Technical Support

Please note that direct technical support is only available for products purchased directly from NavLinkz GmbH. For products bought from other sources, contact your vendor for technical support.

**NavLinkz GmbH**  
**distribution/tech dealer-support**  
Heidberghof 2  
D-47495 Rheinberg

Tel +49 2843 1759500  
Email [mail@navlinkz.de](mailto:mail@navlinkz.de)