

TV-Free Video-in-motion Interface

TF-LR12

for Landrover and Jaguar touch-screen navigation systems version 3 since 2012

**ATTENTION! The TF-Free
is installed on the backside
of the monitor!!!**

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. This product should only be used while standing or 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. We offer free software-updates for our interfaces for one year after purchase. To receive a free update, the interface must be sent in at own cost. Labor cost for and other expenses involved with the software-updates will not be refunded.

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1. Prior to installation

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

1.1. Delivery contents

Take down the SW-version and HW-version of the interface boxes, and store this manual for support purposes.

CAN-box TV-400
HW_____ SW_____



Harness
TV-LR02



1.2. Check compatibility of vehicle and accessories

Requirements

<i>Vehicle</i>	Jaguar XF X250, Jaguar XJ X351 (2011-), Land Rover Range Rover Evoque L538, Range Rover Sport, Discovery 4 from year 2012
<i>Navigation</i>	Touch-screen navigation version 3



1.3. Setting the Dip-switches of the Can-Box TV-400

Jaguar, Land Rover with rear-view camera

Dip 1 ON, dip 2 ON, dip 3 ON



Land Rover without rear-view camera

Dip 1 OFF, Dip 2 ON, Dip 3 ON



Note: On Land Rover setting dip 1 to ON codes the factory rear-view camera input which is located on the brown Fakra male connector of the factory monitor. When reverse gear is engaged, the navigation will automatically switch to this input. On vehicles with factory rear-view camera set Dip 1 to ON, too.

1.4. Pin-assignments

Pin-assignment factory monitor connector

Cable colour	Assignment
● Orange/grey	CAN-HIGH Pin 2
● Orange/purple	CAN-LOW Pin 1

No liability for vehicle wire colors and pin definition! Possible changes by the vehicle manufacturer. The given information must be verified by the installer.

Pin-assignment of the CAN-Box TV-400 (Molex 8pin)

●	Red	+12V battery power	Pin 4
●	Black	Ground	Pin 8
●	Yellow	CAN High Navi	Pin 1
●	Blue	CAN Low Navi	Pin 2
●●	Yellow/Black	CAN High Vehicle	Pin 5
●●	Blue/Black	CAN Low Vehicle	Pin 6

2. Installation

Switch off ignition and disconnect the vehicle's battery! If according to factory rules disconnecting the battery has to be avoided, it is usually sufficient to put the vehicle in sleep-mode. In case the sleep-mode does not show success, disconnect the battery with a resistor lead.

Place of installation is at the back of the factory monitor.

3. Activation of the video-in-motion function

The video-in-motion function is activated permanently without disturbing the navigation performance.

4. Specifications

Operation voltage	10.5 – 14.8V
Stand-by power drain	<2mA
Operation power drain	~60mA
Power consumption	~0,08W
Temperature range	-30°C to +80°C
Weight	44g
Measurements (box only) B x H x T	70 x 20 x 47 mm

5. Technical Support

Caraudio-Systems Vertriebs GmbH

manufacturer/distribution

Rheinhorststr. 22

D-67071 Ludwigshafen am Rhein

NavLinkz GmbH

corporate sales/tech dealer-support

Eurotec-Ring 45

D-47445 Moers

phone +49 180 3 907050

email support@caraudio-systems.de

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