



ZENEC ZE-RCE3701-MK2-S Brake Light Reversing Camera Installation Guide

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ZENEC ZE-RCE3701-MK2-S Brake Light Reversing Camera



Product Information:

This product is a rear view camera designed for use with FIAT Ducato III based vehicles and motorhomes. It is equipped with high-quality components and materials to ensure reliable operation and durability.

Technical Specifications:

- Image device: 6.09mm SONY IMX225LQR CMOS Sensor
- Lens focal length: f 1.2
- TV system: NTSC/30 fps
- View angle: Not specified
- Native sensor resolution: Not specified
- Resolution of video-out: Not specified
- Frame rate: 30 fields/second
- Signal to noise ratio: >48 dB
- Light sensitivity: 0.3 Lux
- Video output: 1.0 Vp-p, 75 Ohm CVBS
- White balance: Automatic
- Backlight compensation: Automatic
- Gamma correction: 0.45
- Gain control: Not specified
- Sync system: Automatic
- Power supply: DC 6-24V
- Current consumption: 70 mA @12VDC, 840 mW
- IP protection rating: IP69K
- Operating temperature: Not specified

Product Usage Instructions

1. Loosen the two Phillips cross recess screws to remove the brake light reflector housing.
2. Disconnect the white system plug of the vehicle.
3. Screw in and tighten the stainless steel mounting bolts by hand (5Nm) with a dab of Loctite for added security.
4. Route the main cable from the infotainer in the vehicle's dashboard to the upper rear section of the vehicle

through the brake light opening.

5. Connect the camera to the corresponding ports on the infotainer, including Reverse, Speed In, IR In, ext. Mic, Power, Audio In, and CVBS In.
6. Refer to the appropriate sections of the infotainer's user manual for further instructions on configuring and using the rear view camera.

Please note that using any connection cable other than the one included with the product will void the warranty. Additionally, while the camera is water- and dustproof according to IP69K standards, it may still sustain damage from high-pressure water and steam jet devices used for vehicle cleaning. Maintain a distance of at least one meter between the water nozzle and the camera housing to prevent water intrusion.

DEVICE INSTALLATION MANUAL

KEY FEATURES

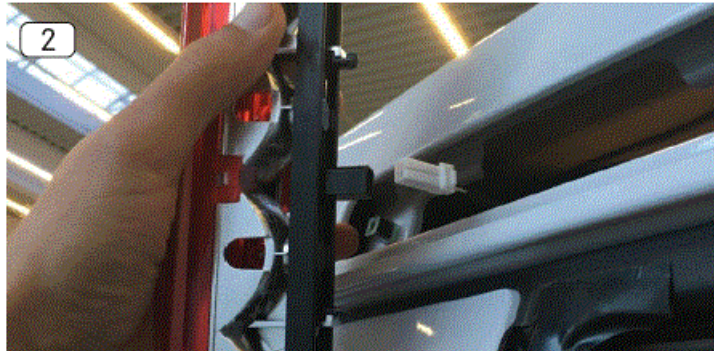
- Compact high-resolution rear view camera for FIAT Ducato III vehicles and type variants
- System design integrating the original Ducato brake light retaining the road use homologation
- High-quality SONY CMOS picture sensor with low power consumption
- Detailed high contrast picture under twilight conditions
- 11 m main wire length
- Mechanically adjustable cam angle, allowing field of view personalization
- Plastic injection main housing with stainless steel fixation bolts

DESCRIPTION

This ZENEC rear view camera model has been developed for use with FIAT Ducato III based vehicle and motor homes in particular. This camera product deploys high quality parts and materials through out, to provide reliable operation and appropriate longevity in the target vehicles mentioned.

The ZE-RCE3701-MK2-S offers a large 160° diagonal viewing angle. The camera complies with a great variety of infotainer models made for CVBS rearview cam signal input.

INSTALLATION



1. Loosen the two Phillips cross recess screws

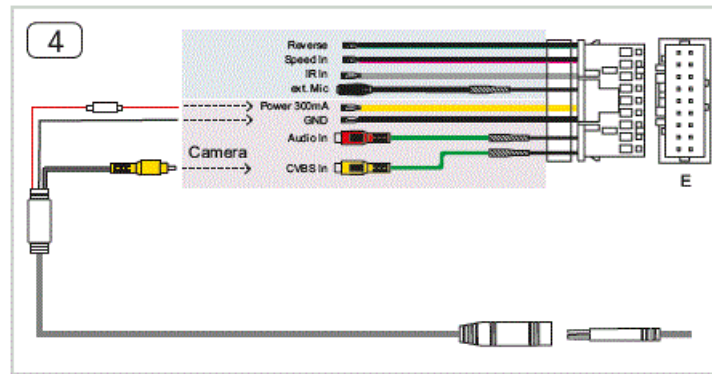
2. Remove the brake light reflector housing

Un-connect the white system plug of the vehicle

3. Screw in and tighten the stainless steel mounting bolts by hand (5Nm). Use a dab of Loctite, if possible



4. Route the main cable from the infotainer in the vehicle cockpit/dashboard to the brake light opening in the upper rear section of the vehicle. For power and RCA video signal, the ZENEC infotainer offers a direct system "connector block E" which offers switched 300mA power out's (see installation guide of ZENEC head unit).



5. Connect the 4PIN mini connector of the camera sensor to the mini connector counterpart of the main wire.
Wrap around some isolating tape to secure the connectors
6. Connect the system plug with the connector counterpart of the brake light reflector housing.



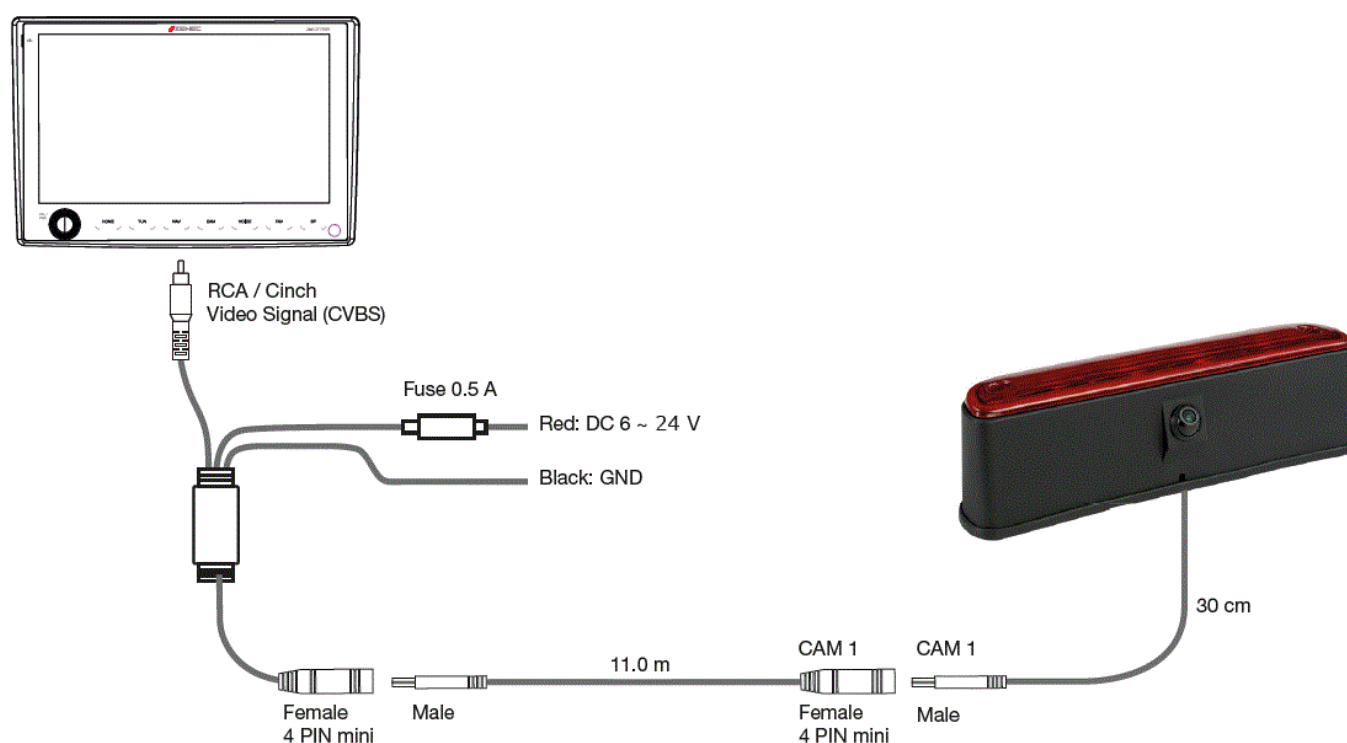
7. Re-mount the brake light reflector housing on top of the main camera housing, using the original Philips cross-recess screws
8. (no picture) After connecting the main cable to the control unit in the dashboard > perform function test



9. Alignment of the camera ball at the bottom side of the camera main body if necessary, using the supplied U-shaped tool

CONNECTION DIAGRAM

COMPATIBLE WITH	MODEL TYPE	MODEL YEAR
Fiat Ducato III	250/251	2006 – 2011
Fiat Ducato III	250/251	2011 – 2014
Fiat Ducato III	250/251 (X290)	2014 – 2021
Fiat Ducato III	Series 8	2021 – 2023
Fiat Ducato III	Series 9	as of 2023
Citroën Jumper II	250/250D/250L	as of 2006
Peugeot Boxer	250/251	as of 2006
Opel Movano	Type C	as of 2021



TECHNICAL SPECIFICATIONS

Image device: 6.09 mm SONY IMX225LQR CMOS sensor

- Lens focal length: f 1.2
- TV system: NT SC / 30 fps
- View angle: 160° (D) x 130° (H) x 120° (V)
- Native sensor resolution: 1305 (H) x 977 (V) pixels
- Resolution of video-out: > 420 TV lines
- Frame rate: 30 fields/sec.
- Signal-to-noise ratio: > 48 dB
- Light sensitivity: 0.3 Lux
- Video output: 1.0 Vp-p, 75 ohms CVBS
- White balance: Auto
- Backlight compensation: Auto
- Gamma correction: 0.45
- Gain control: Auto
- Sync system: Auto
- Power supply: DC 6 – 24V
- Current consumption: 70 mA @12VDC, ≤ 840 mW
- IP protection rating: IP69K
- Operating temperature: -30°C~+75°C, RH 95% max.

CAUTION:

Use the included connection cable exclusively. Altering or replacing it will void your warranty.

The camera is water- and dustproof and has been licensed according to the international standard IP69K.

However, vehicle cleaning using high-pressure water and steam jet devices may still lead to damage of IP69K rated camera models by water intrusion. Keep a distance of at least one meter between the water nozzle and the camera housing.

UK Declaration of Conformity

Hereby, ACR Brändli + Vögeli AG declares that ZENEC

ZE-RCE3701-MK2-S is UKCA compliant – the UK Declaration of Conformity can be accessed via the following Internet address: <http://www.zenec.com> (see link „Product Conformity Documents“ in the footer area of the page).



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Documents / Resources



[ZENEC ZE-RCE3701-MK2-S Brake Light Reversing Camera](#) [pdf] Installation Guide
ZE-RCE3701-MK2-S, ZE-RCE3701-MK2-S Brake Light Reversing Camera, Brake Light Reversing Camera, Light Reversing Camera, Reversing Camera, Camera

References

-  [ZENEC – Touch another World](#)
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Manuals+.