



**Commercial Vehicle / Up-fitter
Safety Equipment**

North America

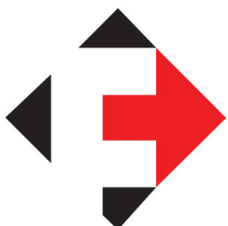


Proudly American Designed, Engineered, Owned and Operated

Product Catalog 2024



Obstacle Detection | OEM LVDS Camera Relocation | Cameras | Monitors | Mirror Monitors
OEM Vehicle Interface Harnesses | Wireless Systems | Trailer | Video Cables | Installation Parts



MS FOSTER

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About Zorg North America

Zorg North America LLC. was formed in late 2020, bringing together a team with over 125 combined years of proven experience in Automotive Electronics design and Development, manufacturing, installation, and sales.

Our company culture is built upon a foundation of experience that comes from years of working in the trenches with customers and industry partners.

We promise to:

- Listen to and work closely with our business partners.
- Continue to design, engineer, develop, and test products here in the USA.
- Deliver these quality products at a fair price.
- Maintain a quality standard that can be relied upon year after year.
- Stay in touch with and ahead of new technology.
- React and respond quickly to our customer's needs.

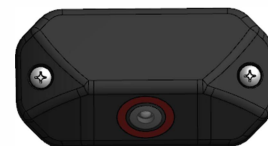
We maintain direct interaction with our business partners that involve hands-on experiences with vehicles, solving industry problems with cost-effective solutions at a rapid pace. These actions, coupled with the long term relationships we have built over the years, provide the core motivation for everyone involved at Zorg North America LLC.

By combining Zorg Industries with our team here at Zorg North America, we have become one of the strongest focused groups in Commercial / Heavy Duty Vehicle Safety Products. Zorg Industries and SmartPark were founded in 1998 to focus on being a solution provider through research & development in advanced slow maneuvering safety solutions for all vehicle types.

Now you, as a Zorg North America Customer, by partnering with a manufacturing group that is IATF 16949 and ISO 9001 certified, will receive many advantages over countless me-too brands in the marketplace that only source products, not develop them. This allows us to meet/exceed most government standards such as DOT and FMVSS and prove this by providing actual test results and certified test reports for final vehicle certification. Smart Park currently supplies some of the largest distributors and car manufacturers at both aftermarket and ODM/OEM levels.

Zorg / Smart Park products are distributed worldwide, and the Zorg family of companies now has offices in the USA, Australia, UK, Thailand, Japan, Hong Kong, China & India and has R&D and manufacturing facilities in the United States & China. Facilities responsible for the development, validation, and manufacture of the Smart Park Brand are IATF 16949 and ISO 9001 certified. ZORG-NA product is certified to all major standards (FCC, CE, E-Mark, RoHS, JASO, etc..)

Products

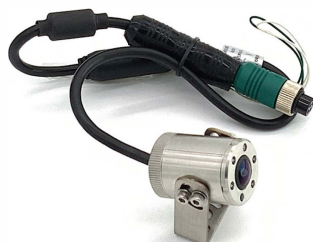


Obstacle Sensing Systems

Obstacle Sensing Systems Designed for Heavy and Light Duty Vehicles

OEM LVDS Camera Relocation Kits

OEM Rear Camera Relocation Kits



Cameras

Rear, Front, and Side View Cameras

Monitors / Mirrors

Monitors for any application & Rearview Mirror/Monitor combinations



Trailer Connect Kits

Trailer Camera Connection Kits and Parts

OEM Vehicle Wire Interface Harnesses

Camera and Power Interface Harnesses that connect directly to OEM wiring

Wireless Systems

Industrial Wireless Camera / DVR System

Video Cables / Installation Parts

Obstacle Sensing Systems

Front And Rear Compatible Obstacle Sensing Systems that have been designed and built specifically for Heavy Duty and Light Duty Truck/Vehicles. Object detection range of up to 8 feet ensures time and space to react before a collision occurs.

8101 Heavy Duty



- Waterproof Module for Rear Mounting
- 8' Detection Range
- 45' extendable cable to Driver Compartment
- In or Under Bumper Mounting
- Digital Learning for vehicle mounted

8001 Light Duty



- System Allows 2 or 4 Sensor Operation
- Designed for Light to Medium Vehicle Applications
- Mounts in Plastic or Metal Bumpers

The 8101 Is the **ONLY** rear sensing system on the market where sensor harnesses can be extended to make installation possible on utility bodies. Extend one or all up to 6' with our 8101EXT2M Extension Cables.

8101RM2 Rubber Mounts available for Metal up to 1/4" Thick (8101 Only).

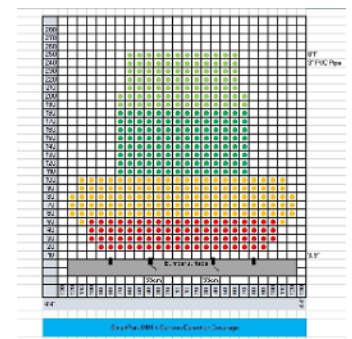
Testing and Specifications

All Sensing systems are testing in Zorg's own facility.

DOT and FMVSS standards are used as guidelines and testing generally exceeds the suggested level by 3 times.

Object Detection testing (shown to the right) is done using a 3" round PVC pole. The Patterns shown represent the detection pattern of a single sensor.

Complete testing results, specifications, and product details are available at our website.



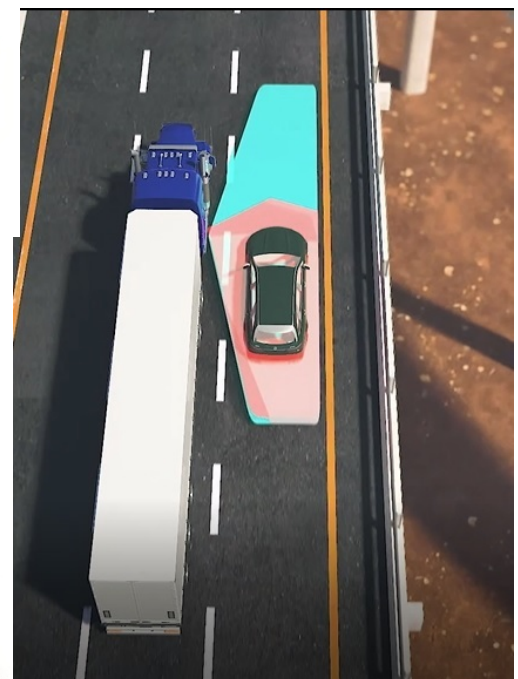
Obstacle Sensing Systems

9001 Blind Spot Object Detection System

Change Lanes Safely in Any Utility or Large Vehicle.

- **No CAN/LAN Connection Required**
- **Compatible with Any Vehicle**
- **Right or Left Side Protection**
- **Visual and Audible Warnings**

The Zorg Blind Spot Monitoring System scans the area alongside the truck at all times and in all weather conditions. It will warn the driver, with visual and audible alerts to objects in the system's detection zone, and assist in preventing a collision when changing lanes or turning at intersections*





Obstacle Sensing Systems

Back-up Alarms

Zorg Back-up Alarms Meet all OSHA and DOT standards for today's work environments.

8903 Automatic Rear Back-up Alarm

Adjusts volume level based on the surrounding noise level

77 – 97 +/-3dB Beeper designed for Heavy Vehicles

- IP68 Rated Water Resistant Housing
- It can be installed on any vehicle
- Meet all DOT and OSHA requirements
- Requires connection to back up circuit/lamps

8902 Standard Rear Back-up Alarm

- 97 +/-3dB Beeper designed for Heavy Vehicles
- IP68 Rated Water Resistant Housing
- It can be installed on any vehicle
- Meet all DOT and OSHA requirements
- Requires connection to back up circuit/lamps

8904 Direct Connect Cable

Connects the 8902 or 8903 directly to the 8101 Obstacle Sensor Harness.

OEM LVDS Camera Relocation Kits

ZORG North America; The Industry Leading in OEM Camera Relocation Systems

4220 Universal 3rd Brake Lamp / LVDS Camera Relocation Kit

4250 3rd Brake Lamp / LVDS Camera Relocation Kit For GM 1500 Refresh Models



4210 LVDS Kit



OEM LVDS Cameras



4240 LVDS Camera Relocation Kit For GM 1500 Refresh Models



Today's Vehicles include upgraded camera systems that use a newer camera technology called LVDS.

LVDS (Low-voltage differential signaling) Cameras are specifically designed for the original vehicle and its monitor screen. It is impossible to replace this type of camera with a traditional analog camera.

When Upfitting the vehicle with a utility body or other hardware, you may need to move the existing camera or even replace it. Our kits include everything required to re-locate the OEM LVDS camera from a tailgate to a utility body to retain all OEM screen views, options, and image quality in standard or 360-degree systems.

Additionally, Zorg designed the LVDS cable so that ONLY ONE universal LVDS cable style is required for use with any LVDS tailgate camera (instead of the multiples required by other vendors). This design reduces required SKUs and stocking headaches. The cable and housing kits minimize labor time associated with LVDS camera relocation. Zorg North America also stocks OEM LVDS cameras when a customer may not want to remove the original camera from the tailgate. CHMSL Lamp / Camera combinations are licensed under US Patent 7,609,961

Cameras

Zorg Cameras are built to survive the everyday abuse of a commercial vehicle life. All products are tested to exceed DOT and FMVSS requirements to ensure they keep your equipment on the road.

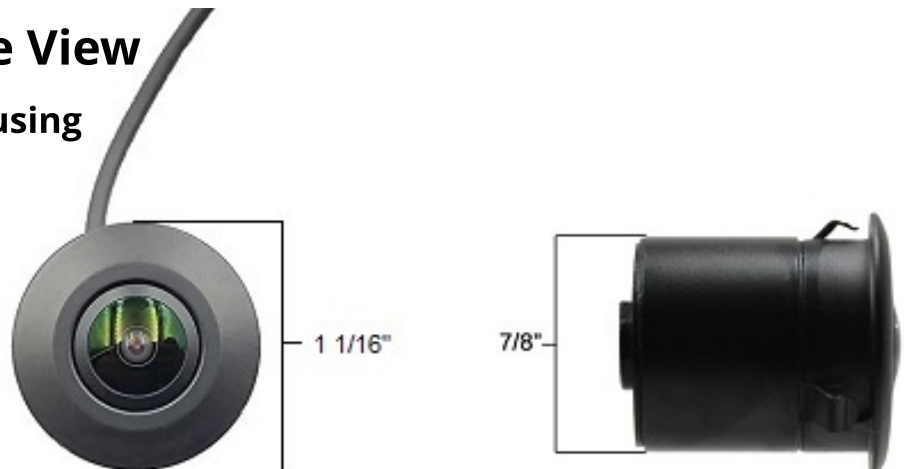
Standard Features:

- **4 Pin HD Aviation Standard Connectors**
- **18" Wire Harness**
- **6 - 24 Volt Operation**
- **IP68/69 Rated**
- **3 Year Warranty**
- **UV Inhibited Cables**
- **Select-able Image (Reverse/Standard)***
- **Parking Lines***
- **Aluminum Housings**
- **DOT Certification**
- **Programmable viewing Angles***
- **Up to 190 Degree viewing Angle***

*** See Camera specifications for specific model details**

2103 180 Degree View

- **Flush Mount, 7/8" Housing**
- **Select-able Park Lines**
- **Reversible Image**
- **Aluminum Housing.**



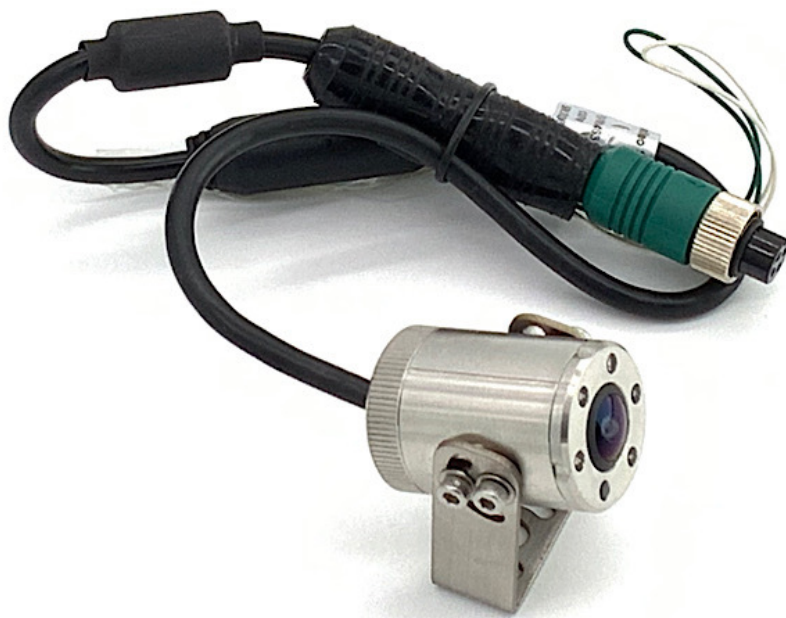


2003 180 Degree AHD/CVBS

- HD 720P 1280*720 Image
- Select-able AHD or CVBS compatibility (Shipped in CVBS Mode)
- Rear View Only, No Park Lines
- Micro Chassis (w/Bracket 2.5"x 2.25"x 2")
- Aluminum Alloy Chassis

2001 White, 2002 Black

- IR Assisted 150 Degree Camera
- 700 TVL CCD Imager
- 18 IR Assisted Night View
- Built In Microphone,
- Select-able Park Lines
- Reversible Image
- Aluminum Housing.



2005 Stainless Steel Camera

- IR Assisted 170 Degree Camera
- 700 TVL CCD Imager
- Select-able Park Lines
- Reversible Image
- -35c -80c Operational Range
- 5Vdc - 28Vdc Operational Voltage
- IP69K Waterproof Rated
- Designed for Severe Working Conditions

2301 190 Degree Programmable View Surface Mount Cube

- Digital Angle Adjustment - UP, Down, Right, Left & Roll
- HD 720P 1280*720 Image
- Rear View Only, No Park Lines
- Micro Chassis (w/Bracket 2.5"x 2.25"x 2")
- Aluminum Alloy Chassis
- Reversible image for Front or Rear Mounting.



2302 190 Degree Programmable View Flush Mount

- Digital Angle Adjustment - UP, Down, Right, Left & Roll
- HD 720P 1280*720 Image
- 7/8" Mounting Hole Size
- Rear View Only, No Park Lines
- Micro Chassis (23x31mm)
- Aluminum Alloy Chassis
- Reversible image for Front or Rear Mounting.



2303 190 Degree Camera Programmer

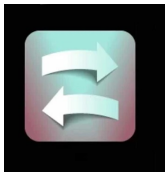
- Programmer for 2301 & 2302 Allows Digital Angle Adjustment - UP, Down, Right, Left & Roll
- 20 Foot Extension Lead
- Connects anywhere between the Camera and Monitor



180 Degree HD Lip Mount Cameras



Reverse



Inverted



2402 - Reversible Image for Front or Rear Mounting

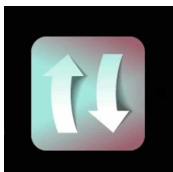
2403 - Inverted View for side mounting

- 720P 1280*720 Image
- Chassis (29x33x27mm)
- Aluminum Alloy Chassis
- .01 Lux Low Light Vision
- UV Rated Poly Exterior and Molded Connectors
- Select-able Park Lines (On/Off) Green Loop

150 Degree HD Lip Mount Camera



Inverted



2404 - Inverted View for side mounting

- 720P 652*504 Image
- Chassis (28x30x23mm)
- Aluminum Alloy Chassis
- .05 Lux Low Light Vision
- UV Rated Poly Exterior and Molded Connectors
- Select-able Park Lines (On/Off) Green Loop
- Reversible Image

2501 150 Degree View Blind Spot / Anywhere Camera



- 600TVL 976*592 Image
- 3M VHB Tape Backed Mounting
- Flexible Rubber Housing
- Lens Rotates 180 Degrees
- Chassis (48x30x22mm)
- UV Rated Poly Exterior and Molded Connectors
- Select-able Park Lines (On/Off) Green Loop
- Reversible Image

180 Degree HD Lip Mount Cameras

2401 - 180 Degree License Plate Bracket Mount Camera



2407 - 180 Degree Hinge Mount Camera

- HD 720P 1280*720 Image
- Chassis (24x24x27mm)
- PVC Chassis
- IP69K Waterproof rated
- .01 Lux Low Light Vision
- UV Rated Poly Exterior and Molded Connectors
- Select-able Park Lines (On/Off)
- Reversible Image for Front or Rear Mounting
- Select-able Park Lines (On/Off) Green Loop



Zorg North America Exclusive

2201 Universal Thin Line 3rd Brake Lamp

150 Degree Camera (CHMSL)

Features

- Thin Line CHMSL W/150 Degree Viewing Angle HD Camera
- Provides an FMVSS 111 Compliant View From 30 Inches to 102 Inches Above Ground
- HD 800TVL High Resolution, 150 Degree Viewing Angle
- SAE / DOT / FMVSS Certified
- Select-able Mirror Image; Mirror/Standard (Blue Loop)
- Select-able Park Lines; ON/OFF Default is OFF(Green Loop)
- High Strength PVC Housing w/ Anti-UV Coating
- 12" Video Cable W/ 4 Pin Screw Lock Connector
- 40" Power Cable for CHMSL with plug, 3m Power Extension Wire
- Three Year Warranty
- Licensed Under US Patent 7,609,961

2203

170 Degree Universal CHMSL W/ Camera

- Provides an FMVSS 111 Compliant View From 30 Inches to 102 Inches Above Ground
- Adjustable Camera Angle
- Super CMOS 644*488 Image
- Low Profile (200x50x25mm)
- LED Illumination
- Built-in Microphone
- Patent # 7,609,961



2204

170 Degree Chevrolet Express Van CHMSL W/ Camera

- Fits Chevy Express and GMC Savana 2003 – 2018
- Provides an FMVSS 111 Compliant View
- Adjustable Camera Angle
- Super CMOS 644*488 Image
- Low Profile (200x50x25mm)
- LED Illumination
- Built-in Microphone
- Patent # 7,609,961



2205

150 Degree Ford Transit High Top Van CHMSL W/Camera

- Fits 2014 -2019 Transit Vans 150,250,350
- Provides an FMVSS 111 Compliant View
- Adjustable Camera Angle
- Super CMOS 644*488 Image
- Low Profile (200x50x25mm)
- LED Illumination
- Built-in Microphone
- Patent # 7,609,961



2206

150 Degree Nissan NV CHMSL W/Camera

- Fits Nissan NV Van 1500, 2500, 3500, 2012 – 2019
- Provides an FMVSS 111 Compliant View
- Adjustable Camera Angle
- Super CMOS 644*488 Image
- Low Profile (200x50x25mm)
- LED Illumination
- Built-in Microphone
- Patent # 7,609,961



Monitors

3109 9" HD Quad View Monitor

- Select-able 1, 2, 3, or 4, camera view
- Audio Input (Ch2)
- OSD Menu's
- High Brightness Panel
- Independent Input Triggers
- Heavy Duty Mounting Bracket
- Removable Sun-Shade
- Remote Control
- Select-able Camera View Delay
- 12-24 Vdc Operation



3005 7" HD 3 Input AHD/CVBS Monitor

- Compatible with Both AHD and CVBS type Cameras
- OSD Menu's
- High Brightness Panel
- Independent Input Triggers
- Heavy Duty U-Type Mounting Bracket
- Removable Sun-Shade
- Remote Control
- Select-able Camera View Delay
- Auto-Brightness Panel Adjusts for Night Viewing
- 10-36Vdc Operation



3004 7" Water Resistant Quad View Monitor

- Select-able 1, 2, 3, or 4, camera view
- IP67 Rated Aluminum Housing
- OSD Menu's
- Remote Control
- High Brightness Panel
- Independent Input Triggers
- Heavy Duty U-type Mounting Bracket
- Remote Control
- Select-able Camera Rotation Angle for Each Input
- Select-able Camera View Delay
- 12-24Vdc Operation



3003 7" HD 4 Input Quad View Monitor W/ DVR

- Built-in DVR
- Select-able 1, 2, 3, or 4, camera view
- 1 Audio Input
- OSD Menu's
- High Brightness Panel
- Independent Input Triggers
- Remote Control
- Select-able Camera View Delay
- Select-able Camera Image Rotation
- Supports NTSC & PAL Cameras
- Includes Fan Style Mounting Bracket
- 12-24Vdc Operation



3002 7" HD 4 Input Quad View Monitor

- Select-able 1, 2, 3, or 4, camera view
- 1 Audio Input
- OSD Menu's
- High Brightness Panel
- Independent Input Triggers
- Remote Control
- Select-able Camera View Delay
- Select-able Camera Image Rotation
- Supports NTSC & PAL Cameras
- Includes Fan Style Mounting Bracket
- 12-24Vdc Operation



3001 7" HD 2 Input Monitor

- 2 Camera Inputs
- 1 Audio Input
- OSD Menu's
- High Brightness Panel
- Independent Input Triggers
- Remote Control
- Select-able Camera View Delay
- Select-able Camera Image Rotation
- Supports NTSC & PAL Cameras
- Includes Fan Style Mounting Bracket
- 12-24Vdc Operation



Optional Monitor Mounts



Rearview Mirror Monitors

3302 Full View Rearview Mirror Monitor / DVR

- 1080P AHD Front and Rear Cameras Included
- Rear Camera with Interior and Exterior Mounts
- 140 Degree Viewing Angle Front DVR Camera
- 120 Degree Rear Camera
- 23' Rear Camera Harness (From Mirror to cam)
- 11' Mirror Power Harness (From Mirror to Pwr Src)
- 30' Rear Camera Extension Cable for Commercial Vehicles
- Touch Frame Technology Keeps the Mirror Smudge Free
- On-Screen Menus
- HD Automatic Image correction and dimming
- HD DVR Records Front and Rear Cameras
- Integrated App for iPhone & Android WiFi connect
- DVR Parking Mode and G-Force Shock Sensor Recording
- Includes 64GB Class 10 SD Card
- Mirror Supplies Camera Power
- Ultra-High Brightness Panel (1500cd/m2)
- Independent Reverse Mode Input Trigger
- Includes Tombstone & Tri-Lobe Mounting Brackets



3302 CCAM

Commercial Camera Designed for our 3302 Rear View Mirror.

Coming soon to allow the addition of a rear view mirror/monitor to any obstructed view vehicle.



Vehicle Specific Mounting Adapters Available

Rear View Mirror Monitors

3305 4 Way Input, 7.2" Full Screen

**Direct connect to Turn Signals, Reverse,
And Touch Screen Controls.**



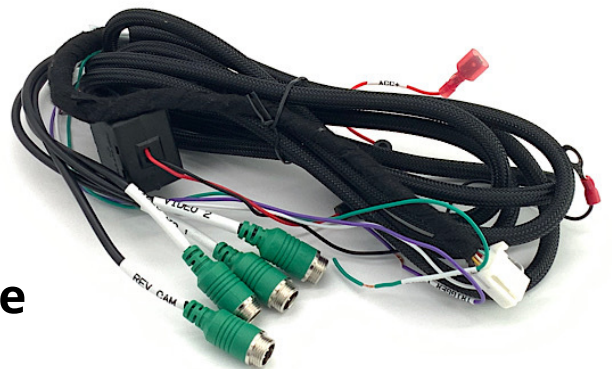
3304 6.5" Full /Split View Mirror

3301 4.3" Monitor / Mirror

- 2 Camera Inputs
- 4 Pin HD Camera Connections / Supplies Camera Power
- High Brightness Panel (1200cd/m2)
- Independent Input Triggers
- One-Touch On for 2nd input
- 9' Wire Harness (Mirror to Cam/PWR Src)

- 2 Camera Inputs
- Full or Split Screen Options
- OSD Menu's
- High Brightness Panel (1200cd/m2)
- Independent Input Triggers
- Remote Control for Setup
- 9' Wire Harness (Mirror to Cam/PWR Src)

All Zorg Mirrors are designed for Rough Service Use. All connectors are screw lock 4 pin Aviation Grade to ensure a stable connection and image.



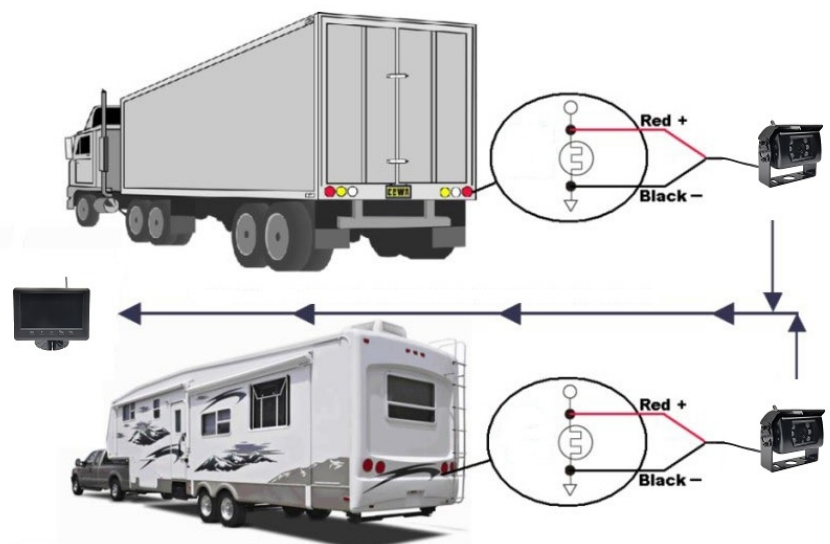
Wireless Camera Solutions

3210 High Definition Commercial Digital Wireless Monitor/Camera System with Built-in DVR. Specifically designed for Rough Service and locations with difficult installations.



This Wireless Monitor and Camera System comes installation ready with all of the components included for a single camera system. The wireless monitor can pair with up to 4 different wireless cameras and has a wireless range of up to 200m (line of sight). This system is designed for rough service environments and tested to 10g vibration rating, IP68 waterproof rating, and its -20°C ~ 70°C operating temperature.

- 7" LCD color monitor with HD 1280 x 720P high-resolution
- Expandable 4/2/1 channel camera input with Quad, split, or single-screen display
- Automatic pairing function of monitor & camera(s)
- Night-vision With IR LED's
- Max 128GB SD card data storage for DVR Recording
- Mirror and Normal image switch
- Built-in microphone in Camera
- Operation Range: DC 12V - 24V



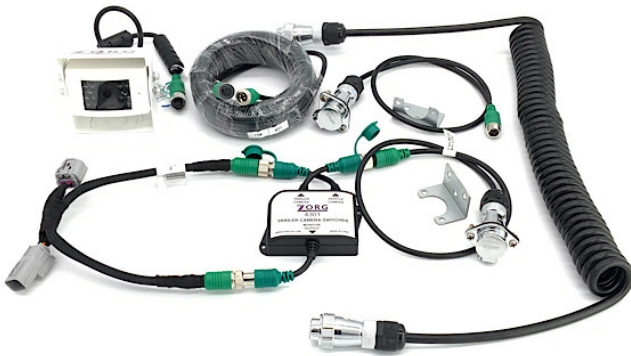
Connect the camera power to the Parking Lamp circuit of the trailer

Trailer Camera Solutions

Trailer Camera Systems, 5th Wheel Connect Cameras
Cargo Cameras and Custom Solutions



A complete Zorg Trailer Kit allows the driver to automatically switch their OEM screen from backup camera to trailer camera just by plugging in the trailer connect coil cord.



Complete Auto Switch Kit



**4313 Manual Activation
5th Wheel Kit**



4302 Trailer Connect Kit



4301 Auto Switcher



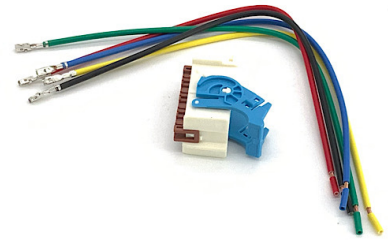
**4305 GM
Interconnect**

Specialty Harnesses and Connectors

7 Pin Extension

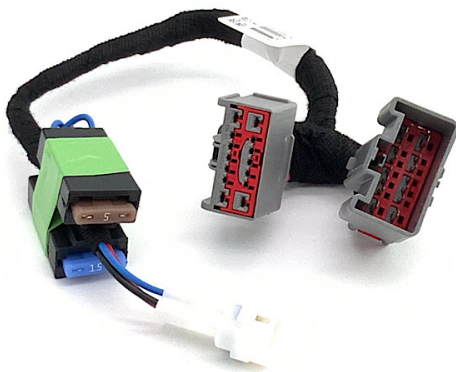
30' Body Main Harness

GM UpFitter
Switch Conn



PBG Harnesses

Power Brake Ground T-Harness



GM 45-6500

Chassis Connect



At ZORG we are continually adding new products to our line-up. We are also available to work directly with our customers to develop new solutions.

ZORG

OEM Vehicle Wire Interface Harnesses

Zorg North America Designs, builds, and supplies OEM Grade wire harness products for the Up-fitter.

Our Solutions Include.

- Camera Interface Harnesses
- Utility Body / Cap Power Interface Harnesses For CHSML & Power Locks
- UP-Fitter Switch Connections
- Trailer Connect Extensions
- Customer Harnesses per the customers requirements.

Vehicle Brands: General Motors, Ford, Ram, Toyota, Jeep, Nissan and Universal Applications.

Camera Interconnect Harnesses Feature :

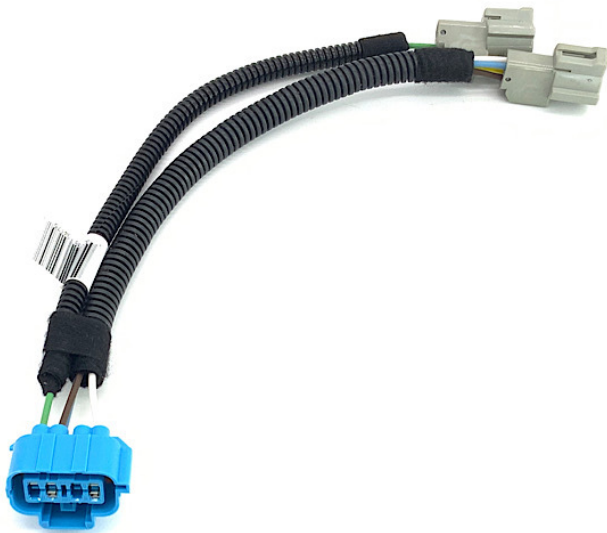
- OEM Connectors
- 20Ga Wire
- UV Resistant Cable
- All Cavities are sealed to be waterproof
- All are packed with a package of Protective Dielectric Grease



See Our Website or ask your Sales Mgr for the latest list of Applications.

Zorg Body Harness / Adapters

CM Body, Knapheide, Reading Body, We have body adapters for most major body brands, chassis side connectors, and pigtails available too.



Video Cables and Installation Parts

Heavy Duty Video/Audio Extension Cables.



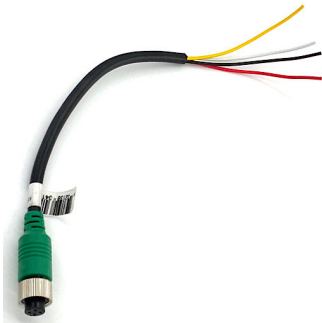
Available in Length from 2m to 20m all Zorg extension harnesses are built for rough service environments.

Features:

- Aviation 4 Pin Water Tight Connectors
- UV Resistant Jacket and molded connectors
- 22ga Stranded Copper Wire
- Nitrile O-Rings



Video/Audio Cable Adapters / Parts



Parts



Adapters



Converters

A full line of installation parts are available including Harness adapters to convert, adapt, modify, or build a custom solution for vehicle safety.

ZORG[™]

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