

**Vision is
our mission**

**ON ROAD TRUCKS
VISION SOLUTIONS**



See more
Work more



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Select your vehicle

Why Orlaco?

Welcome to the product catalogue of Orlaco. We are personally committed to bring you the best camera and monitor solutions to help create safer and more secure workplaces around the world. Our professional team has spent over twenty five years to design and manufacture a variety of certified, reliable and complete camera display solutions eliminating the blind spots around machinery. We are confident that the options offered in this catalogue will not only help you to improve safety, security and efficiency for your fleet of machinery, but also to provide better ergonomics and comfort for your operators. That is what Orlaco stands for. Please feel free to share your ideas and experiences with us.

On behalf of the entire team,
Henrie van Beusekom, Executive Director Orlaco
h.beusekom@orlaco.com



That's why!

Let us **improve** your every day job



Improved Safety and Efficiency

Enhanced Ergonomics and Comfort

Certified Quality

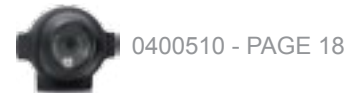


Traffic is becoming increasingly busier. Not only are you expected to have a good view of the situation, but you are also expected to arrive at your destination safely, on time and without damage. Good visibility around a truck is not possible without help. Orlaco's vision solutions improve the efficiency of your actions. Getting out of your vehicle to determine the distance each time you load and unload is a thing of the past. This results in immediate economic benefits. An Orlaco camera system enables you to do your job more efficiently while reducing the risk of you overlooking someone or something. Less risk and improved safety and efficiency.

Good visibility is just as important as good posture. TNO was asked by Orlaco to produce a report on the optimum position of the monitor in the cab. This report takes into consideration the diagonal size of the image on the monitor and the position of the mirrors, the windscreen and the driver. The test results have been included in the installation manual for each system. They ensure that the driver can carry out his work ergonomically, without the need for additional actions.

At Orlaco, quality is never taken lightly. We keep a clear and persistent focus on customer satisfaction. We maintain this focus throughout the manufacturing process of our quality products, which are custom designed in various formats. We are able to uphold our level of quality by providing detailed servicing. To top it all off, we have secured the highest achievable automotive certification: TS16949. At Orlaco, we invest in continuous improvement in order to secure a long term, satisfied customer base. We believe that compatibility in products, systems and operations is the key element to creating reliable partnerships. All our products are controlled and clearly documented to give our customers a zero-defect product with operation that works right, every time.

Frontview



0400510 - PAGE 18

The Frontview camera provides the required visibility at the front of the truck. A quick look at the monitor and you will know whether you can drive off safely without overlooking a cyclist, pedestrian or object.

The monitor can be integrated or surface-mounted, depending on the vehicle. It is also equipped with handy options, such as automatic brightness adjustment. No matter how brightly the sun is shining or how dark it is, you always have good visibility.



Rearview



0401860 - PAGE 19

The Rearview camera lets you see the area immediately behind the truck. The monitor in the cab automatically switches over to this camera if you select reverse gear, allowing you to reverse safely.

Recommendation: Add RadarEye to increase safety & efficiency. (see page 42-43)



RadarEye setting: Transparent visualization of the radar-zones on the monitor.

Monitor mounting bracket

0400610 - PAGE 36



For fitting the monitor to the dashboard or on the roof of the cab.

Class VI camera support

0401270 - PAGE 37



The class VI camera support has been specifically designed for the Frontview camera. It enlarges the field of vision. Cables are well protected and tucked away neatly.

INFORMATION

The new **EU mirror directive** came into force in 2006 and was extended in January 2007. It includes front view mirrors for all new trucks in Europe. Only an approved camera system may replace the front view mirror. The front camera provides a perfect view of the blind spot in front of the cab. This makes it possible to notice cyclists and pedestrians in time.



The front view mirror may be replaced by a front camera provided it meets, among others, the following requirements:

- Mandatory front vision at forward speeds of between 0 and 30km per hour.
- It must be possible to see the class VI field of vision. (2 m in front of and 2 m across the entire width of the cab)
- The monitor may only display the class VI field of vision at forward speeds of between 0 and 30 km per hour.
- The monitor and camera must meet all technical requirements.

The EG*2003/97*2005/27 directive describes the specifications that a truck's mirrors must comply with. Orlaco's front view system meets all these requirements. (See page 47)

Combined sets

Front-Rearview

0401970 - PAGE 19

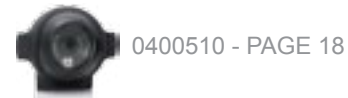
The Frontview system can be expanded with a Rearview camera, for example, and a navigation computer. This makes optimum use of your monitor.

Frontview set with navigation

0400590 - PAGE 18

Good visibility and clear navigation instructions can be combined on one monitor. This combination is approved in accordance with the European mirror directives. As you would expect from Orlaco, the system is plug & play.

Frontview



0400510 - PAGE 18

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Camera setting: Horizontal line mark. This option shows a reference line on the monitor.

Rearview



PAGE 28-29

The Rearview camera lets you see the area immediately behind the truck. The monitor in the cab automatically switches over to this camera if you select reverse gear, allowing you to reverse safely.

A longer and heavier truck combination (LHV), is a truck that can and may transport more freight than an ordinary truck combination. Various LHV models are available, which is why the cables are always customised to order.

Recommendation: Add RadarEye to increase safety & efficiency. (see page 42-43)



Frontview



0400510 - PAGE 18

The Frontview camera provides the required visibility at the front of the truck. A quick look at the monitor and you will know whether you can drive off safely without overlooking a cyclist, pedestrian or object.



Rearview



PAGE 21

The Rearview camera lets you see the area immediately behind the truck. The monitor in the cab automatically switches over to this camera if you select reverse gear, allowing you to reverse safely. The rear view camera on the rigid provides visibility when the drawbar-trailer or center axle-trailer is not connected. Orlaco has special cable sets (with or without spiral interconnection) for Rearview cameras on your rigid and drawbar- / center axle-trailer.

Recommendation: Add RadarEye to increase safety & efficiency. (see page 42-43)



Camera setting: Horizontal and vertical line marks. With this option the camera on the back of the rigid is also an affetive aid when connecting the trailer.

Trailer switcher

0405600 - PAGE 39



The switcher is included in the special cable set. This trailer switcher ensures that the monitor automatically displays the rearmost camera. This is one less thing for the driver to think about and he can reverse the entire combination safely.



Combined sets

Front-Rearview

PAGE 28-29

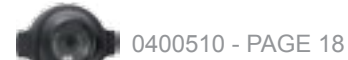
The Frontview system can be expanded with a Rearview camera, for example, and a navigation computer. This makes optimum use of your monitor.

Frontview set with navigation

0400590 - PAGE 18

Good visibility and clear navigation instructions can be combined on one monitor. This combination is approved in accordance with the European mirror directives. As you would expect from Orlaco, the system is plug & play.

Frontview



0400510 - PAGE 18

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The monitor can be integrated or surface-mounted, depending on the vehicle. It is also equipped with handy options, such as automatic brightness adjustment. No matter how brightly the sun is shining or how dark it is, you always have good visibility.



Axle view



View of the axles. These truck combinations must comply with very specific safety requirements. Although a camera system is not mandatory, it certainly adds significant value. Please contact Orlaco for a system tailored to your requirements.



Combined sets

Front-Rearview

0401970 - PAGE 19-22

The Frontview system can be expanded with a Rearview camera, for example, and a navigation computer. This makes optimum use of your monitor.

Frontview set with navigation

0400590 - PAGE 18

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INFORMATION

The transportation of hazardous materials by road is regulated in Europe in the **ADR**. The vehicle must comply with a significant number of safety requirements, just like the camera system. Safety is of paramount importance for these companies, and cameras provide a significant amount of support in this regard. The ADR regulations contain stringent requirements for cabling. All of Orlaco's cameras and cables meet these stringent requirements, and have been marked "**ADR approved**" by the TÜV.

Rearview



0401860 - PAGE 19

The Rearview camera lets you see the area immediately behind the truck. The monitor in the cab automatically switches over to this camera if you select reverse gear, allowing you to reverse safely.

Recommendation: Add RadarEye to increase safety & efficiency. (see page 42-43)



Sideview

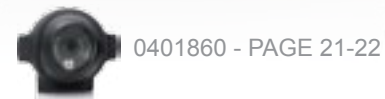


PAGE 26-28

Extra visibility when manoeuvring and swinging out. As these trucks enter farmyards, they have to be able to manoeuvre accurately between the farmhouse and the sheds which often have low roofs. The outer mirrors do not provide a direct view of the side of the trailer in bends. It is important for the driver to be able to see whether he can swing the rear of the vehicle out safely. Orlaco's Sideview camera provides a clear image of this.



Rearview



0401860 - PAGE 21-22

The Rearview camera lets you see the area immediately behind the truck. The monitor in the cab automatically switches over to this camera if you select reverse gear, allowing you to reverse safely.

Recommendation: Add RadarEye to increase safety & efficiency. (see page 42-43)



Rearview - Hookliftview

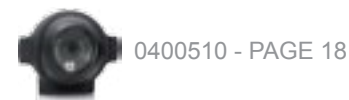


Hooking up a container requires several critical actions to be carried out in a short space of time. As the driver, it is important for you to check that the container is hooked up properly, positioned onto the rollers correctly and locked securely. The Orlaco camera brings it all into view. A camera with a small angle on the rear of the cab. How well you see is especially important. A camera with a wide angle on the rear bumper. What you see is especially important. The horizontal and vertical line marks shown on the monitor will enable you to position your vehicle correctly.



Camera setting: Horizontal line mark. This option shows a reference line on the monitor.

Frontview



0400510 - PAGE 18

The Frontview camera provides the required visibility at the front of the truck. A quick look at the monitor and you will know whether you can drive off safely without overlooking a cyclist, pedestrian or object.

The monitor can be integrated or surface-mounted, depending on the vehicle. It is also equipped with handy options, such as automatic brightness adjustment. No matter how brightly the sun is shining or how dark it is, you always have good visibility.



Combined sets

Front-Rearview

PAGE 19/26-28

The Frontview system can be expanded with a Rearview camera, for example, and a navigation computer. This makes optimum use of your monitor.

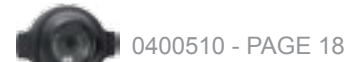


Frontview set with navigation

0400590 - PAGE 18

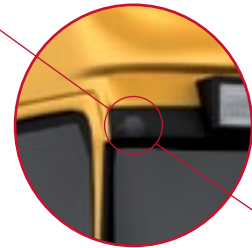
Good visibility and clear navigation instructions can be combined on one monitor. This combination is approved in accordance with the European mirror directives. As you would expect from Orlaco, the system is plug & play.

Frontview



0400510 - PAGE 18

The Frontview camera provides the required visibility at the front of the truck. A quick look at the monitor and you will know whether you can drive off safely without overlooking a cyclist, pedestrian or object.



Dumpview - Rearview

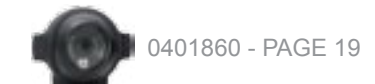


0401860 - PAGE 21-22

If you want to keep an eye on the load, then the solution is to install a camera in the dumper. The camera also provides an accurate indication of whether your vehicle is positioned correctly and whether the container is sufficiently filled. Put simply, it eliminates the need for extra staff and the driver no longer has to keep climbing in and out. The cameras are heated and waterproof (IP69K). The cameras can be cleaned with a high pressure cleaner, for example, when the vehicle is being washed.



Rearview



0401860 - PAGE 19

The Rearview camera lets you see the area immediately behind the truck. The monitor in the cab automatically switches over to this camera if you select reverse gear, allowing you to reverse safely.

In accordance with NEN 1501, rear vision is always mandatory for refuse collection trucks, even when driving forwards.



Combined sets

Front-Rearview

0401970 - PAGE 19-20

The Frontview system can be expanded with a Rearview camera, for example, and a navigation computer. This makes optimum use of your monitor.

Frontview set with navigation

0400590 - PAGE 18

Good visibility and clear navigation instructions can be combined on one monitor. This combination is approved in accordance with the European mirror directives. As you would expect from Orlaco, the system is plug & play.

INFORMATION

Vehicles used in the environmental sector often operate in busy residential areas. Within this sector, the problem of blind spots is a crucial issue. It is therefore logical that cameras are mandatory on the back of refuse collection vehicles. They enable the driver to not only keep sight of the situation behind the truck, but also to maintain contact with the loaders. Orlaco cameras also provide visibility around side loaders, street sweepers, drain cleaning vehicles and container trucks. Orlaco cameras comply with **NEN-EN 1501**, the European safety standard for refuse vehicles.

Rearview



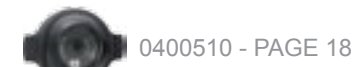
0401860 - PAGE 19

The Rearview camera increases the safety of professional response personnel and bystanders. You can manoeuvre more easily because you can see the area behind the vehicle. The monitor in the cab automatically switches over to the rear view camera if you select reverse gear.

Recommendation: Add RadarEye to increase safety & efficiency. (see page 42-43)



Frontview

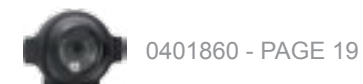


0400510 - PAGE 18

Buses may not be covered by the mirror directive, but this does not mean front view cameras are an unnecessary luxury. When approaching a bus stop along the street or at the station, the front view camera will ensure no passengers are overlooked.



Rearview

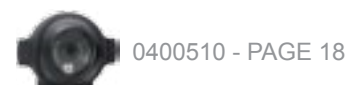


0401860 - PAGE 19

The rear view camera lets you see the area immediately behind the bus. The monitor in the cab automatically switches over to this camera if you select reverse gear, allowing you to reverse safely.



Frontview



0400510 - PAGE 18

The Frontview camera provides the required visibility at the front of the truck. A quick look at the monitor and you will know whether you can drive off safely without overlooking a cyclist, pedestrian or object.



Combined sets

Front-Rearview
0401970 - PAGE 19-20

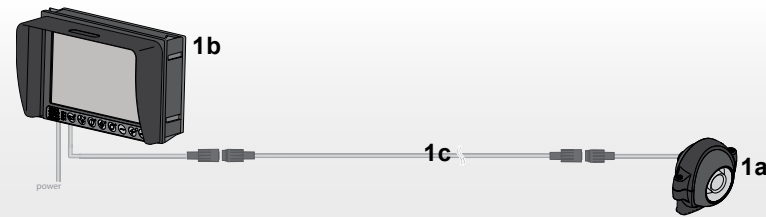
The Frontview system can be expanded with a Rearview camera, for example, and a navigation computer. This makes optimum use of your monitor.

Frontview set with navigation
0400590 - PAGE 18

Good visibility and clear navigation instructions can be combined on one monitor. This combination is approved in accordance with the European mirror directives. As you would expect from OrLaco, the system is plug & play.

Set Frontview

- 1. Frontview set
0400510 - page 31
 - a. Camera AMOS 118°
 - b. Monitor 7" LEDD
 - c. Multicable 5m



Expansion set Navigation

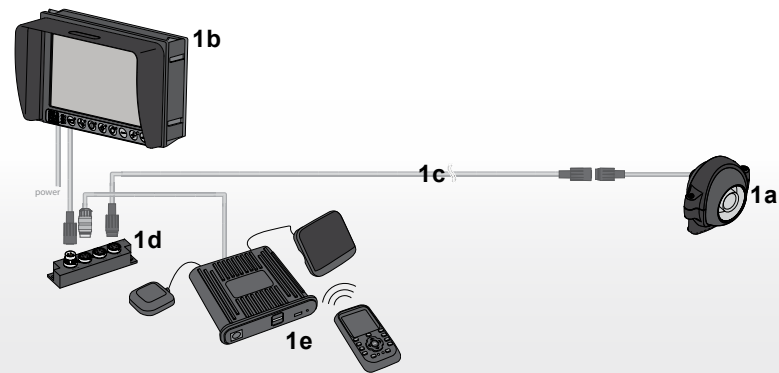
You can easily expand your Orlaco Frontview system with our navigation expansion set.

- 1. Switcher UNI
0404040 - page 39
- 2. VCA Navigation
0277010 - page 41



Set Frontview + Navigation

- 1. Frontview set with navigation
0400590 - page 31
 - a. Camera AMOS 118°
 - b. Monitor 7" LEDD
 - c. Multicable 5m
 - d. Switcher UNI
 - e. VCA Navigation



Set Rearview on Rigid

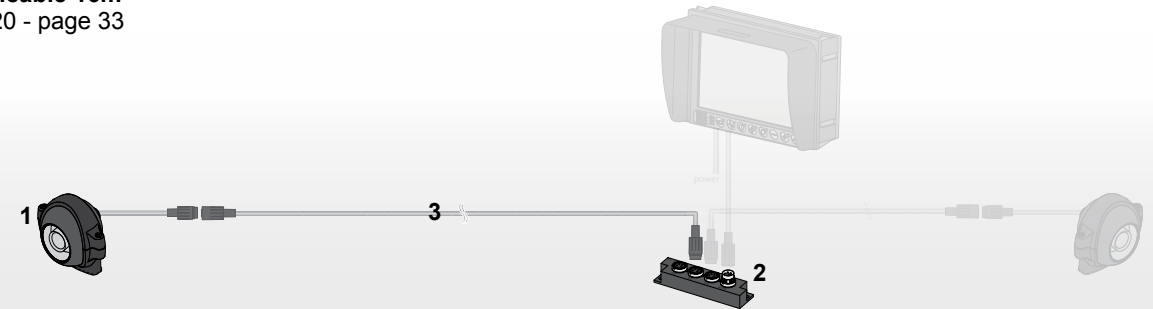
- 1. Rearview set
0401860 - page 31
 - a. Camera CMOS 115°
 - b. Monitor 7" LEDD
- 2. Multicable 16m
0301920 - page 33



Expansion set Rearview on Rigid

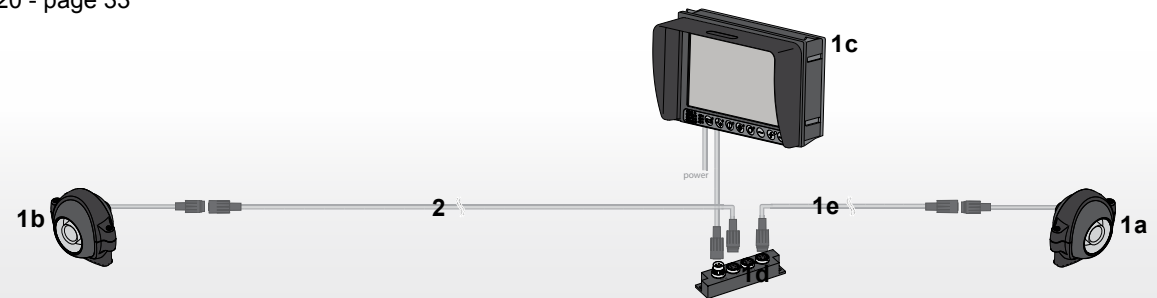
You can easily expand your Orlaco Frontview system with our Rearview expansion set.

- 1. Camera AMOS 102°
0135020 - page 32
- 2. Switcher UNI
0404040 - page 39
- 3. Multicable 16m
0301920 - page 33



Set Frontview-Rearview on Rigid

- 1. Front- and Rearview set
0401970 - page 31
 - a. Camera AMOS 118°
 - b. Camera AMOS 102°
 - c. Monitor 7" LEDD
 - d. Switcher UNI
 - e. Multicable 5m
- 2. Multicable 16m
0301920 - page 33



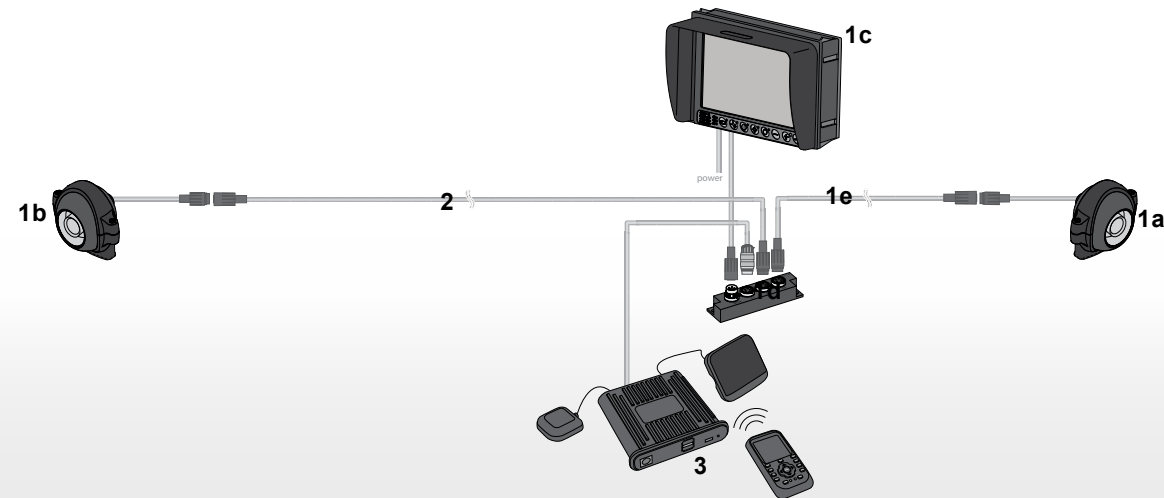
Set **Frontview-Rearview on Rigid + Navigation**

1. Front- and Rearview set
0401970 - page 31

- a. Camera AMOS 118°
- b. Camera AMOS 102°
- c. Monitor 7" LEDD
- d. Switcher UNI
- e. Multicable 5m

2. Multicable 16m
0301920 - page 33

3. VCA Navigation
0277010 - page 41

Set **Rearview on Rigid + Radar**

1. Camera AMOS 102°
0135020 - page 32

2. Monitor 7" LEDD CAN Radar
0208371 - page 35

3. RadarEye set corner rear
0403120 - page 42

- a. RadarEye units (2x)
- b. RadarEye corner brackets (2x)
- c. RadarEye Interfacebox
- d. RadarEye Terminator

4. Multicable 16m
0301920 - page 33

5. RadarEye cable M12 Green 20m
0301120 - page 43

6. RadarEye cable M12 Master-Slave Red 4m
0301030 - page 43

Set **Truck with Rearview on Trailer**

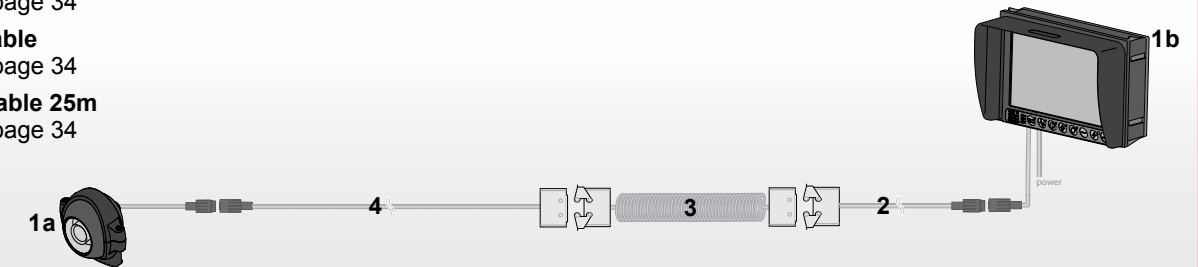
1. Rearview set
0401860 - page 31

- a. Camera CMOS 115°
- b. Monitor 7" LEDD

2. Cabin cable 8m
0304020 - page 34

3. Spiral cable
0303630 - page 34

4. Trailer cable 25m
0303740 - page 34

Expansion set **Truck with Rearview on Trailer**

You can easily expand your Orlaco Frontview system with our Rearview expansion set.

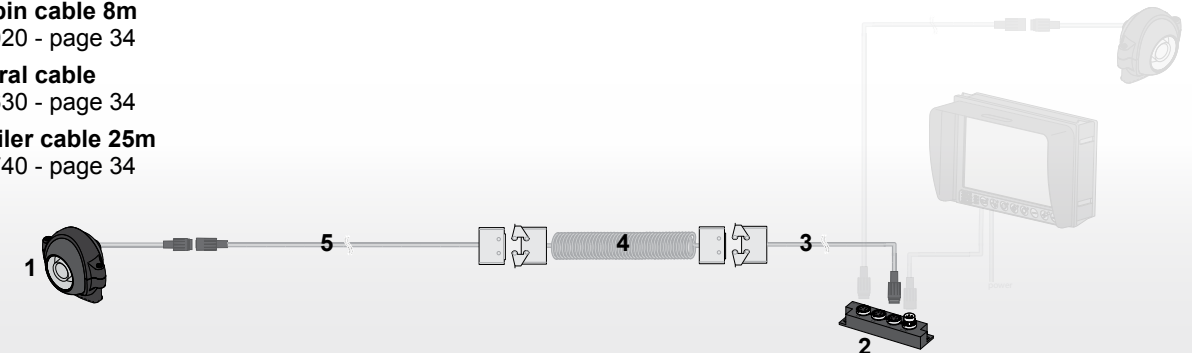
1. Camera AMOS 102°
0135020 - page 32

2. Switcher UNI
0404040 - page 39

3. Cabin cable 8m
0304020 - page 34

4. Spiral cable
0303630 - page 34

5. Trailer cable 25m
0303740 - page 34

Set **Frontview on Truck with Rearview on Trailer**

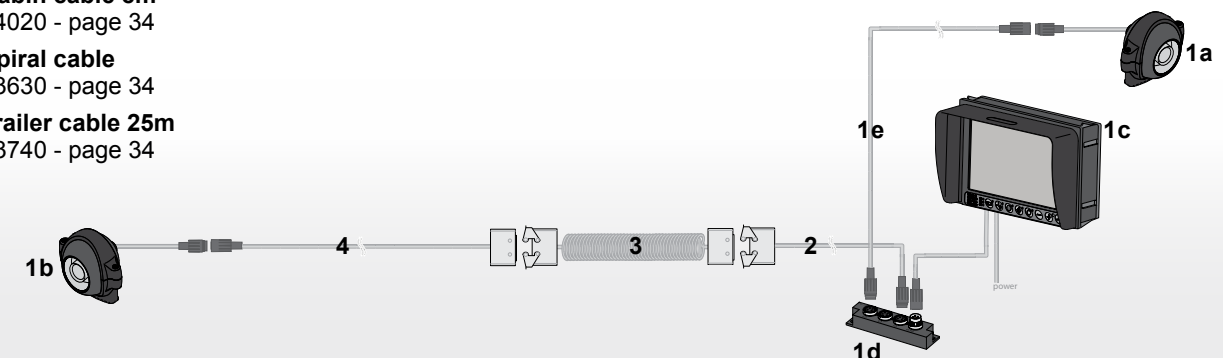
1. Front- and Rearview set
0401970 - page 31

- a. Camera AMOS 118°
- b. Camera AMOS 102°
- c. Monitor 7" LEDD
- d. Switcher UNI
- e. Multicable 5m

2. Cabin cable 8m
0304020 - page 34

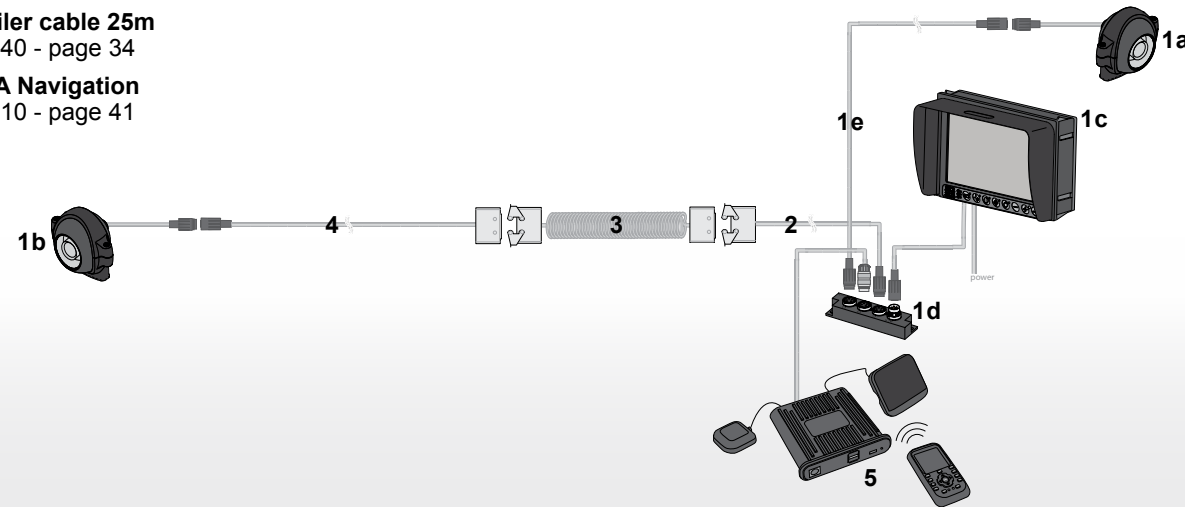
3. Spiral cable
0303630 - page 34

4. Trailer cable 25m
0303740 - page 34



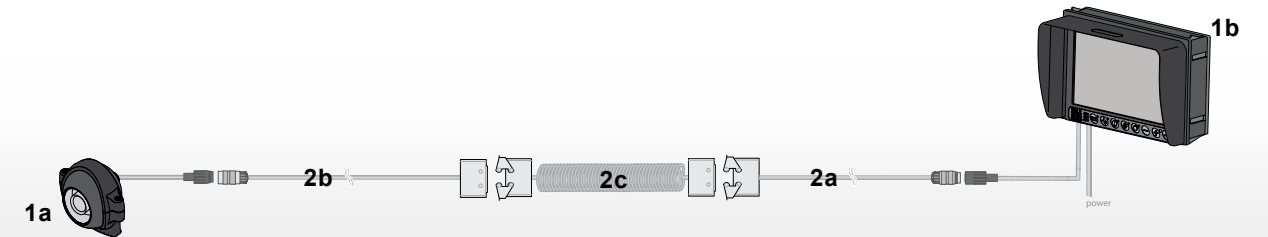
Set Frontview on Truck with Rearview on Trailer + Navigation

- 1. Front- and Rearview set
0401970 - page 31
 - a. Camera AMOS 118°
 - b. Camera AMOS 102°
 - c. Monitor 7" LEDD
 - d. Switcher UNI
 - e. Multicable 5m
- 2. Cabin cable 8m
0304020 - page 34
- 3. Spiral cable
0303630 - page 34
- 4. Trailer cable 25m
0303740 - page 34
- 5. VCA Navigation
0277010 - page 41



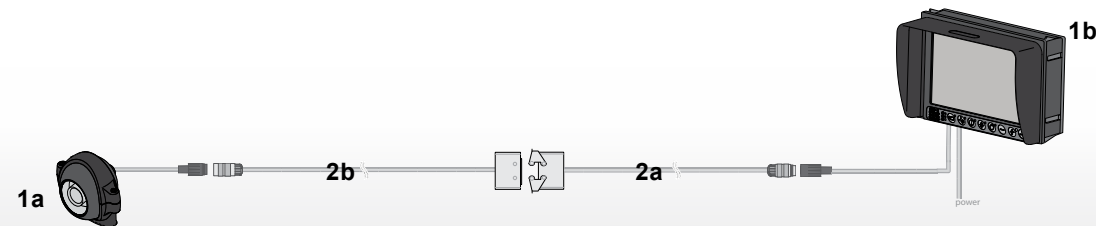
Set Rigid with Rearview on Center axle-trailer

- 1. Rearview set
0401860 - page 31
 - a. Camera CMOS 115°
 - b. Monitor 7" LEDD
- 2. Cable expansion set
0303980 - page 44
 - a. Rigid cable 16m
 - b. Trailer cable 21m
 - c. Spiral cable



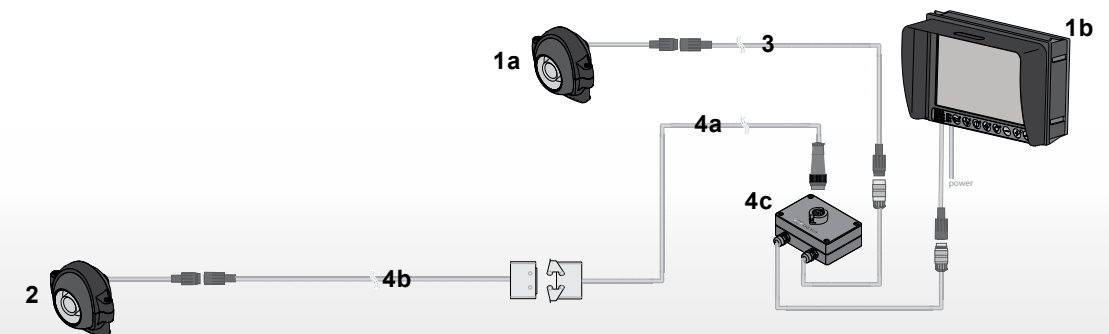
Set Rigid with Rearview on Drawbar-trailer

- 1. Rearview set
0401860 - page 31
 - a. Camera CMOS 115°
 - b. Monitor 7" LEDD
- 2. Cable expansion set
0303960 - page 44
 - a. Rigid cable 16m
 - b. Trailer cable 21m



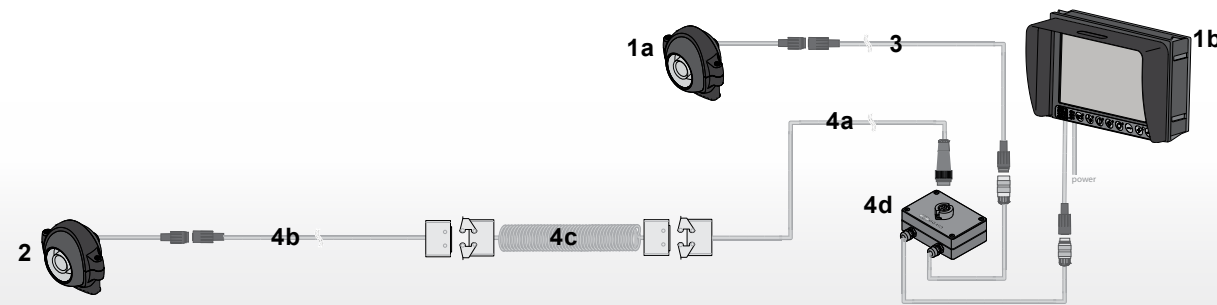
Set Rearview on Rigid with Rearview on Drawbar-trailer

- 1. Rearview set
0401860 - page 31
 - a. Camera CMOS 115°
 - b. Monitor 7" LEDD
- 2. Camera CMOS 115°
0146060 - page 32
- 3. Multicable 16m
0301920 - page 33
- 4. Cable expansion set
0303970 - page 44
 - a. Rigid cable 16m
 - b. Trailer cable 21m
 - c. Trailer switcher



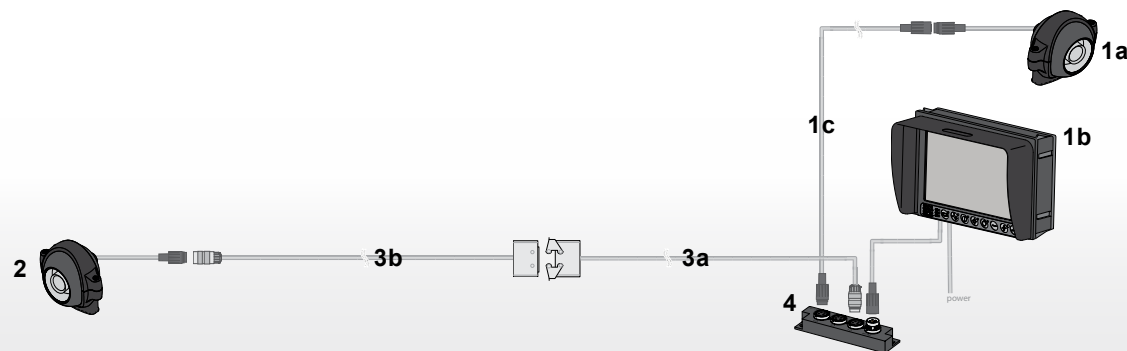
Set **Rearview on Rigid with Rearview on Center axle-trailer**

1. Rearview set
0401860 - page 31
 - a. Camera CMOS 115°
 - b. Monitor 7" LEDD
2. Camera CMOS 115°
0146060 - page 32
3. Multicable 16m
0301920 - page 33
4. Cable expansion set
0303990 - page 44
 - a. Rigid cable 16m
 - b. Trailer cable 21m
 - c. Spiral cable
 - d. Trailer switcher



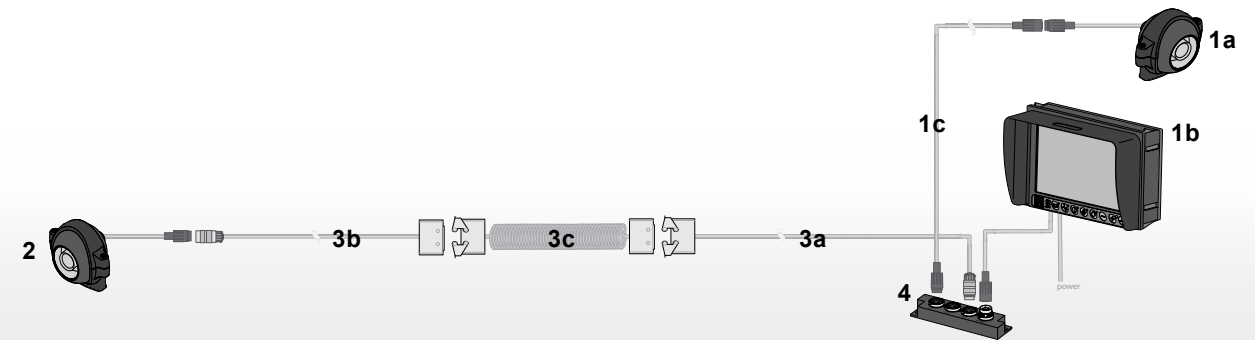
Set **Frontview on Rigid with Rearview on Drawbar-trailer**

1. Frontview set
0400510 - page 31
 - a. Camera AMOS 118°
 - b. Monitor 7" LEDD
 - c. Multicable 5m
2. Camera AMOS 102°
0135020 - page 32
3. Cable expansion set
0303960 - page 44
 - a. Rigid cable 16m
 - b. Trailer cable 21m
4. Switcher UNI
0404040 - page 39



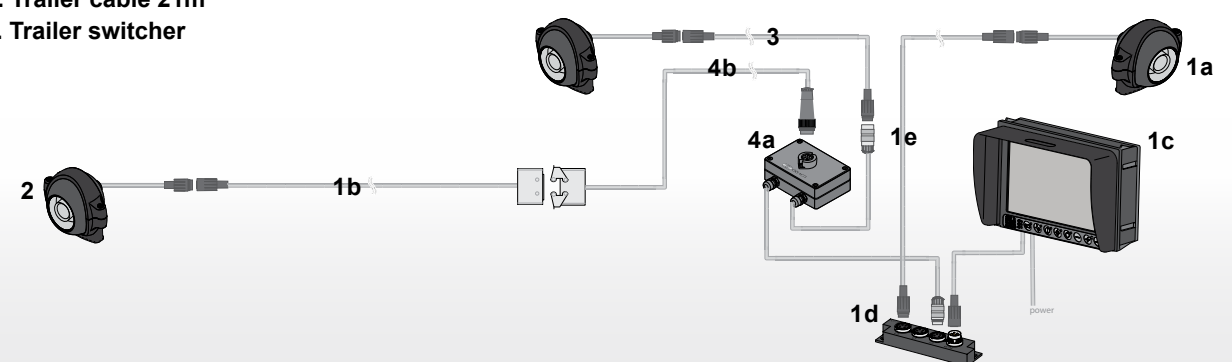
Set **Frontview on Rigid with Rearview on Center axle-trailer**

1. Frontview set
0400510 - page 31
 - a. Camera AMOS 118°
 - b. Monitor 7" LEDD
 - c. Multicable 5m
2. Camera AMOS 102°
0135020 - page 32
3. Cable expansion set
0303980 - page 44
 - a. Rigid cable 16m
 - b. Trailer cable 21m
 - c. Spiral cable
4. Switcher UNI
0404040 - page 39



Set **Frontview-Rearview on Rigid with Rearview on Drawbar-trailer**

1. Front- and Rearview set
0401970 - page 31
 - a. Camera AMOS 118°
 - b. Camera AMOS 102°
 - c. Monitor 7" LEDD
 - d. Switcher UNI
 - e. Multicable 5m
2. Camera AMOS 102°
0135020 - page 32
3. Multicable 16m
0301920 - page 33
4. Cable expansion set
0303970 - page 44
 - a. Rigid cable 16m
 - b. Trailer cable 21m
 - c. Trailer switcher



Set **Frontview-Rearview on Rigid with Rearview on Center axle-trailer**

1. Front- and Rearview set
0401970 - page 31

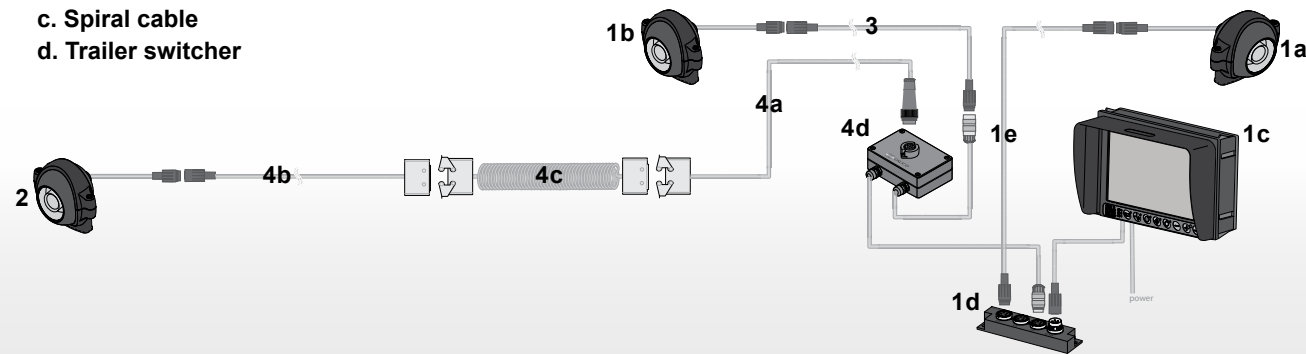
- a. Camera AMOS 118°
- b. Camera AMOS 102°
- c. Monitor 7" LEDD
- d. Switcher UNI
- e. Multicable 5m

2. Camera AMOS 102°
0135020 - page 32

3. Multicable 16m
0301920 - page 33

4. Cable expansion set
0303990 - page 44

- a. Rigid cable 16m
- b. Trailer cable 21m
- c. Spiral cable
- d. Trailer switcher

Set **Truck with 2x Sideview and 1x Rearview on Trailer**

1. Rearview set
0401860 - page 31

- a. Camera CMOS 115°
- b. Monitor 7" LEDD

2. Camera CMOS 115° (2x)
0146060 - page 32

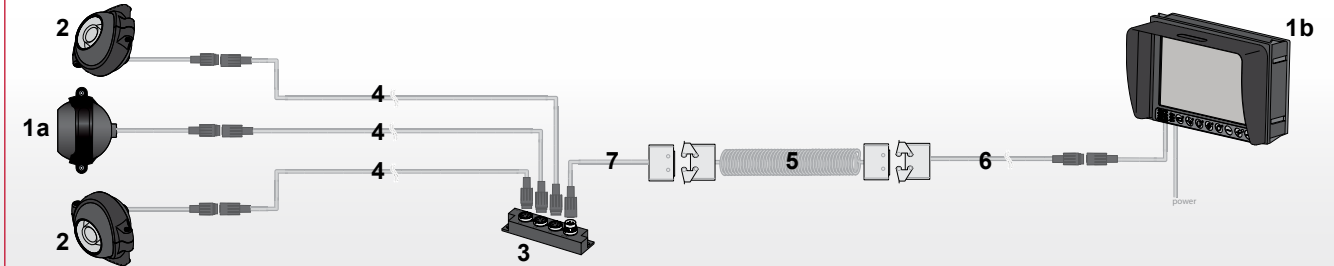
3. Switcher UNI
0404040 - page 39

4. Multicable 21m (3x)
0301940 - page 33

5. Spiral cable
0303630 - page 34

6. Cabin cable 8m
0304020 - page 34

7. Trailer cable 2m
0301770 - page 34

Set **Truck with 2x Sideview on Trailer**

1. Rearview set
0401860 - page 31

- a. Camera CMOS 115°
- b. Monitor 7" LEDD

2. Camera CMOS 115°
0146060 - page 32

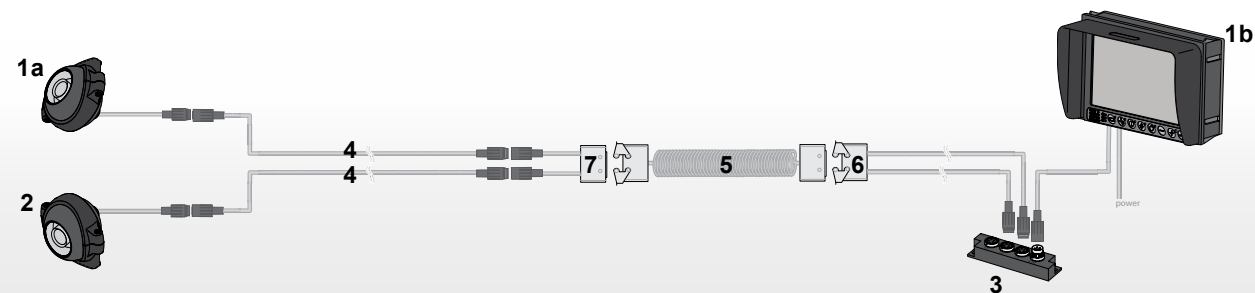
3. Switcher UNI
0404040 - page 39

4. Multicable 21m (2x)
0301940 - page 33

5. Spiral cable
0303630 - page 34

6. Cabin 2Cam cable 8m
0301780 - page 34

7. Trailer 2Cam cable 0,5m
0301790 - page 34

Set **Frontview on Truck with 2x Sideview on Trailer**

1. Frontview set
0400510 - page 31

- a. Camera AMOS 118°
- b. Monitor 7" LEDD
- c. Multicable 5m

2. Camera CMOS 115° (2x)
0146060 - page 32

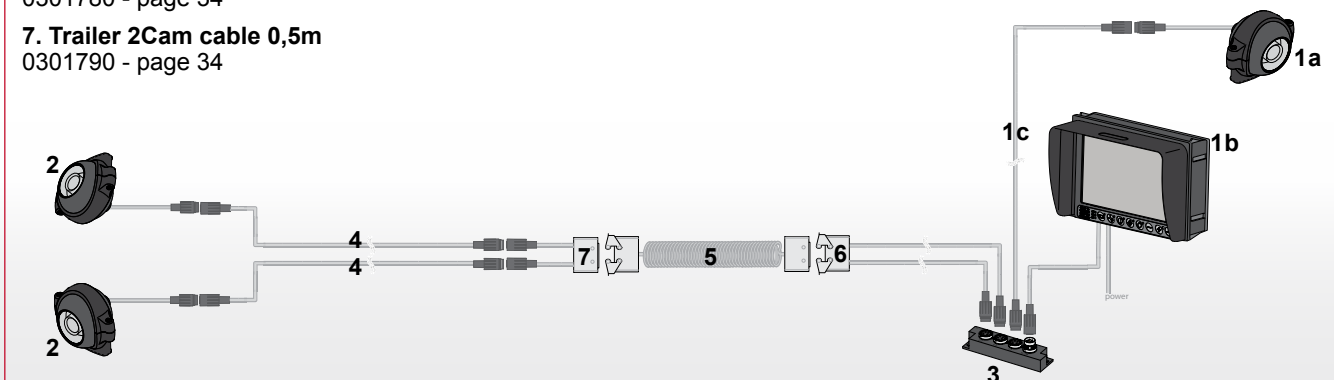
3. Switcher UNI
0404040 - page 39

4. Multicable 21m (2x)
0301940 - page 33

5. Spiral cable
0303630 - page 34

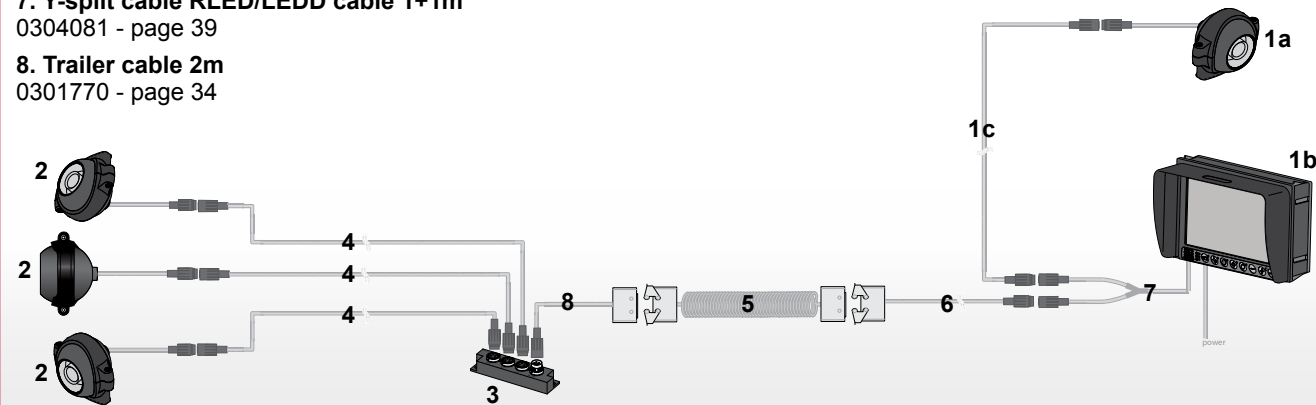
6. Cabin 2Cam cable 8m
0301780 - page 34

7. Trailer 2Cam cable 0,5m
0301790 - page 34



Set Frontview on Truck with 3x Rearview on Trailer

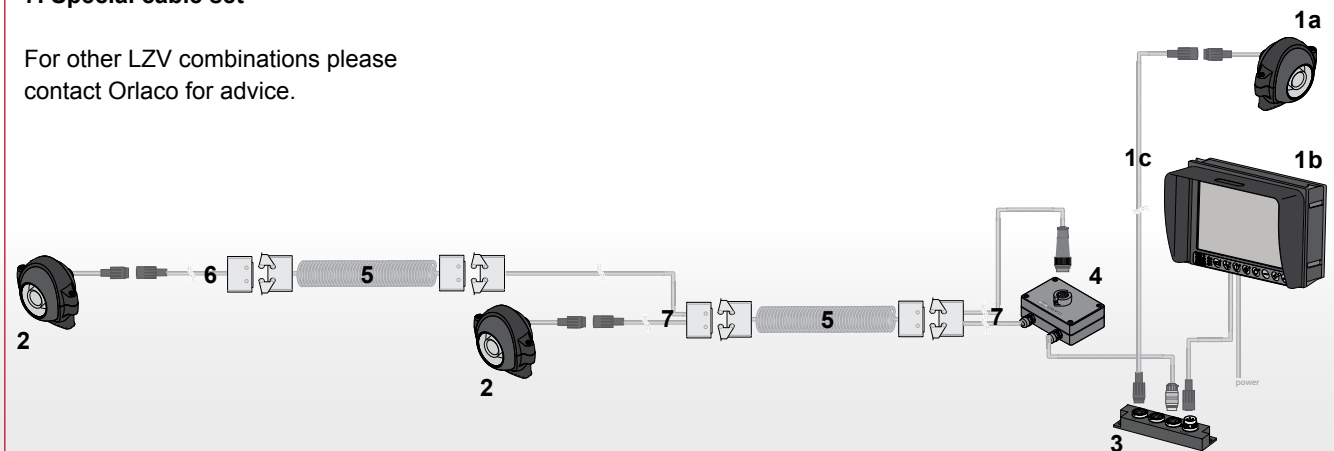
1. Frontview set
0400510 - page 31
 - a. Camera AMOS 118°
 - b. Monitor 7" LEDD
 - c. Multicable 5m
2. Camera CMOS 115° (3x)
0146060 - page 32
3. Switcher UNI
0404040 - page 39
4. Multicable 21m (3x)
0301940 - page 33
5. Spiral cable
0303630 - page 34
6. Cabin cable 8m
0304020 - page 34
7. Y-split cable RLED/LEDD cable 1+1m
0304081 - page 39
8. Trailer cable 2m
0301770 - page 34



Note: The front camera may not replace the front mirror!

Set Frontview -2x Rearview on LZV / Ecocombi

1. Frontview set
0400510 - page 31
 - a. Camera AMOS 118°
 - b. Monitor 7" LEDD
 - c. Multicable 5m
2. Camera AMOS 102° (2x)
0135020 - page 32
3. Switcher UNI
0404040 - page 39
4. Trailer switcher
0405600 - page 39
5. Spiral cable (2x)
0303630 - page 34
6. Trailer cable 25m
0303740 - page 34
7. Special cable set



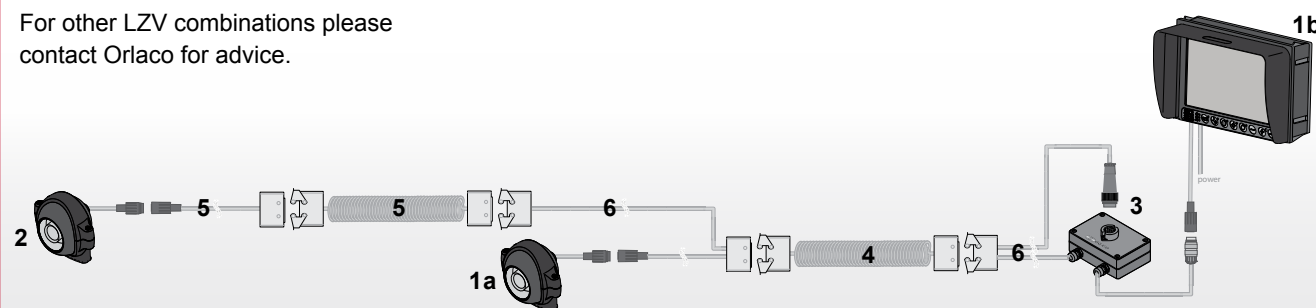
For other LZV combinations please contact Orlaco for advice.

Set 2x Rearview on LZV / Ecocombi

1. Rearview set
0401860 - page 31
 - a. Camera CMOS 115°
 - b. Monitor 7" LEDD
2. Camera CMOS 115°
0146060 - page 32
3. Trailer switcher
0405600 - page 39
4. Spiral cable (2x)
0303630 - page 34
5. Trailer cable 25m
0303740 - page 34
6. Special cable set

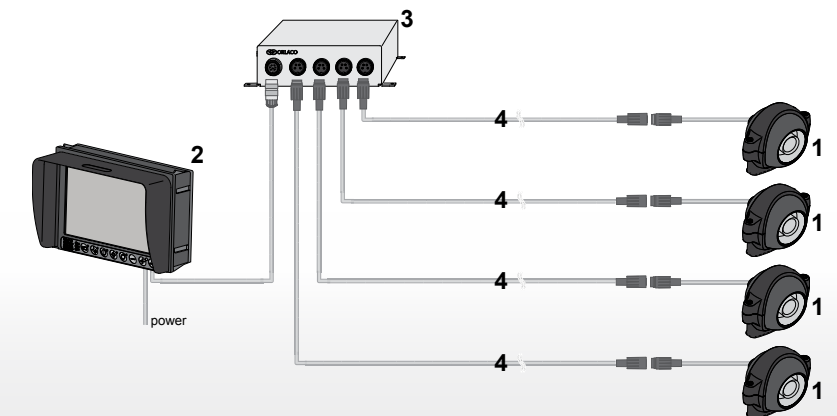


For other LZV combinations please contact Orlaco for advice.



Set General Multiview system

1. Camera AMOS
Make your choice - page 32
2. Monitor 7" LEDD Serial
0208232 - page 35
If a non-serial monitor is used, please use the serial monitor cable 8976330 - page 46
3. MultiView box
0404110 - page 39
4. Multicable
Make your choice - page 33



Note: The front camera may not replace the front mirror!

Set Rearview on Rigid connected to a third party monitor

1. Camera AMOS 118° MIRROR
0135210 - page 32

2. Multicable 16m
0301920 - page 33

3. Adapter cable 4pF
Make your choice:

Groeneveld	0303820 - page 45
Iveco Connect	0303770 - page 45
JVC	0303770 - page 45
Kenwood	0303770 - page 45
Mercedes-Benz Radio/Nav	0304660 - page 45
<small>NTSC camera (0146180) is required</small>	
MMT (MAN/SCANIA/DAF)	0303090 - page 45
Pioneer	0303770 - page 45
SCANIA Interactor	0303830 - page 45
Snooper S7000 / S8000	0304060 - page 45
Snooper S6400 / S9000	0303770 - page 45
Trimble	0303770 - page 45
Volvo Pop-Up	0303810 - page 45



For more advice about extensions of these systems with a second and third camera, please contact Orlaco.



Set Truck with Rearview on Trailer connected to a third party monitor

1. Camera AMOS 118° MIRROR
0135210 - page 32

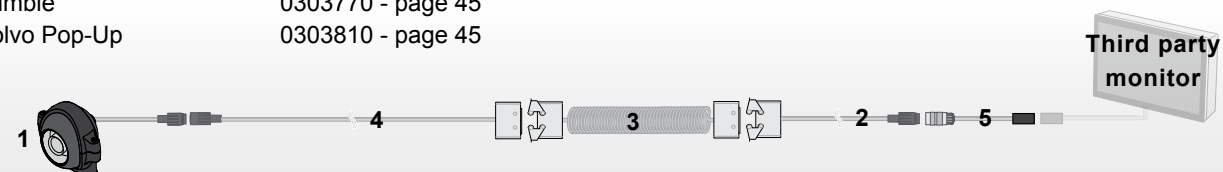
2. Cabin cable 8m
0304020 - page 34

3. Spiral cable
0303630 - page 34

4. Trailer cable 25m
0303740 - page 34

5. Adapter cable 4pF
Make your choice:

Groeneveld	0303820 - page 45
Iveco Connect	0303770 - page 45
JVC	0303770 - page 45
Kenwood	0303770 - page 45
Mercedes-Benz Radio/Nav	0304660 - page 45
<small>NTSC camera (0146180) is required</small>	
MMT (MAN/SCANIA/DAF)	0303090 - page 45
Pioneer	0303770 - page 45
SCANIA Interactor	0303830 - page 45
Snooper S7000 / S8000	0304060 - page 45
Snooper S6400 / S9000	0303770 - page 45
Trimble	0303770 - page 45
Volvo Pop-Up	0303810 - page 45



For more advice about extensions of these systems with a second and third camera, please contact Orlaco.



Standard sets

0400510 Frontview set

The Orlaco Frontview set provides the required visibility at the front of the truck.

This set contains:

- Camera AMOS PAL 118° (0135010 - page 32)
- Monitor 7" LEDD (0208203 - page 35)
- Multicable 5m (0301880 - page 33)



0400590 Frontview set with navigation

Good visibility at the front of the truck and clear navigation instructions can be combined on one monitor.

This set contains:

- Camera AMOS PAL 118° (0135010 - page 32)
- Monitor 7" LEDD (0208203 - page 35)
- Multicable 5m (0301880 - page 33)
- Switcher UNI (0404040 - page 39)
- VCA Navigation (0277010 - page 41)



0401970 Front- and Rearview set

The Orlaco Front- and Rearview set provides the visibility at the front and the back side of the truck.

This set contains:

- Camera AMOS PAL 118° (0135010 - page 32)
- Camera AMOS PAL 102° (0135020 - page 32)
- Monitor 7" LEDD (0208203 - page 35)
- Multicable 5m (0301880 - page 33)
- Switcher UNI (0404040 - page 39)

Any required cables for the Rearview camera can be ordered separately. (see page 33)



0401860 Rearview set

The Orlaco Rearview camera lets you see the area immediately behind the truck. The monitor in the cab automatically switches over to this camera if you select reverse gear.

This set contains:

- Camera CMOS PAL 115° (0146060 - page 32)
- Monitor 7" LEDD (0208203 - page 35)

Any required cables for the Rearview camera can be ordered separately. (see page 33)



Or design your system yourself

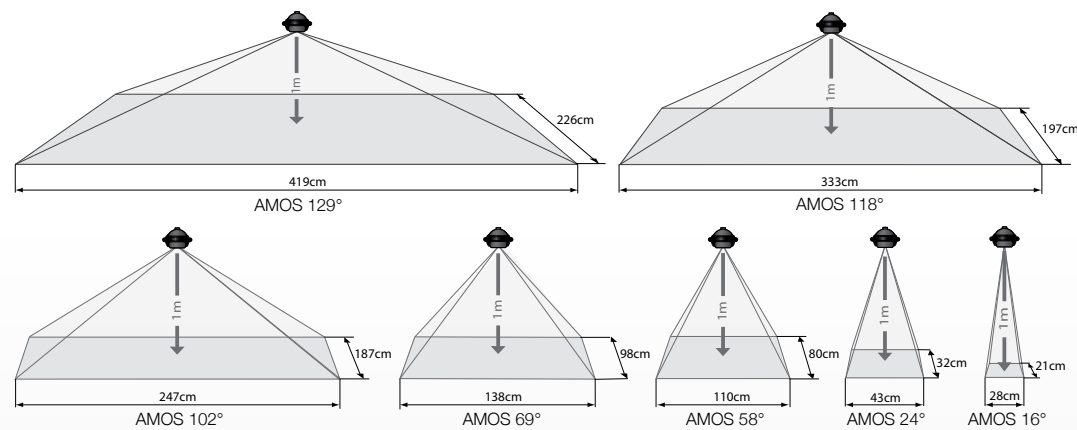
- Step 1:** Select your camera
- Step 2:** Select your desired cable
- Step 3:** Select your monitor
- Step 4:** Select the required options

Whatever you select, the system can be easily installed and is plug-and-play.

Note: For two or more cameras a Switcher, Y-split cable or MultiView Box and additional cables are required. Contact us for support.

The qualifications of our AMOS Compact Cameras

- Next generation CMOS sensor
- Light sensitivity 0.05 lux
- Integrated *Safety ticker* to show that camera is running and active
- Operating temperature between -40°C to +85°C
- Chemically hardened glass
- Nitrogen-filled housing, watertight IP69K according to DIN 40050-9
- Heated lens glass, therefore no problems with condensation or frost
- Impact and vibration proof
- Fixed lens
- The camera has a 0,5m cable including a waterproof molded 4p connector
- There is an aperture angle for every vision solution



The measurements given above are theoretical. Practical situations may deviate.

Cameras AMOS

Type	Art. no. PAL	Art. no. NTSC
16°	0135060	0135160
24°	0135050	0135150
58°	0135040	0135140
69°	0135030	0135130
102° MaxView	0135020	0135120
118°	0135010	0135110
118° MIRROR	0135210	0135310
129°	0135000	0135100

Cameras AMOS IR LED

Day/Night camera including 15 High Power Infrared LEDs 850nm.

Type	Art. no. PAL	Art. no. NTSC
69°	0146200	0146220
118°	0146210	0146230

Cameras CMOS

Type	Art. no. PAL	Art. no. NTSC
78°	0146000	0143650
115°	0146060	0143660
115° MIRROR	0146190	0146180



The advantages of Orlaco cables

- All cables are specially developed by Orlaco
- ADR approved
- Special cables are available for various circumstances
- Resistant to oil and petrol
- Watertight cable connectors
- Operating temperature -40°C to +85°C

Multi cable standard

This standard cable can be used if no special requirements like mechanical protection or dynamic movement of the cable is needed.

Including 4p molded connectors:

0301960	1m
0301870	2m
0301890	3m
0301880	5m
0301930	8m
0301900	11m
0301920	16m
0301940	21m



Dynamic cable

Designed for dynamic use.

- Soft cover with small bend radius

Including 4p connectors (1310850 & 1312050):

0304370	0,5m
0304280	1m
0305340	3,5m
0304340	5m
0304380	6m
0304390	8m
0304430	9m
0304440	10m
0301810	11m
0304450	12m
0301730	15m
0301830	20m



Cable per metre (connectors not included)

1220150	Multicable UNI 1x coax, 5x wires
1220250	Multicable 1x coax, 12x wires PUR
1220350	Multicable 2x coax, 5x wire PUR
1220600	Dynamic cable 1x coax, 5x wire PUR
1220900	Power cable 7x wire AWG20
1222000	Coax cable 75 OHM RG59

Any required connectors can be ordered separately. (see page 46)





Truck- and Trailer cables

0304020 Cabin cable 8m

Cable suitable for lead through on truck.

- Fitted with 4p molded male and 10p Harting female connectors
- Oil and petrol resistant
- IP67 Watertight
- Including extra mounting housing

0301780 Cabin 2Cam cable 8m

Two camera cable suitable for lead through on truck.

- Fitted with two 4p molded male and 10p Harting female connectors
- Oil and petrol resistant
- IP67 Watertight
- Including extra mounting housing



0303630 Spiral cable 3,5m

3,5m spiral cable between truck and trailer.

- Fitted with 10p Harting connectors
- Double coax
- Oil and petrol resistant
- IP67 Watertight



0301770 Trailer cable 2m

0303740 Trailer cable 25m

Cable suitable for lead through on trailer.

- Fitted with 4p molded female and 10p Harting male connectors
- Oil and petrol resistant
- IP67 Watertight

0301790 Trailer 2Cam cable 0,5m

Two camera cable suitable for lead through on trailer.

- Fitted with two 4p molded female and 10p Harting male connectors
- Oil and petrol resistant
- IP67 Watertight



0303870 Swivelling arm cable 11m

Cable suitable for lead through on truck/cabin.

- Fitted with 4p male connector and 10p Harting female connector
- Multicable fitted with 10m protection hose
- Oil and petrol resistant
- IP67 Watertight

0303880 Swivelling trailer cable 21m

Cable suitable for lead through on trailer.

- Fitted with 4p female connector and 10p Harting male connector
- Multicable fitted with 1,5m protection hose
- Oil and petrol resistant
- IP67 Watertight

The possibilities offered by Orlaco LED monitors

- Automotive 7inch TFT liquid crystal display module, LED backlight
- Operating temperature between -40°C to +85°C
- Impact and vibration resistance meet the stringent requirements
- Power protected against:
 - Induction voltages
 - Load dumps
 - Over- and undervoltage
- Mirror image setting
- High resolution pixel WVGA 800xRGBx480
- Brightness automatically adjusts to the ambient light
- Option of a marker line per camera on the screen for the optimum determination of distance
- Integrated sun visor
- IP67 according to IEC 60529
- Full On-Screen-Display (OSD) in 12 languages
- Input Voltage 12...60V/DC +/-10%
- Watertight molded connectors

Monitors

0208203 Monitor 7" LEDD

- For double DIN slide opening in the dashboard
- 2m multicable (power) open wired, 2m multicable (video) including 4p molded female connector

0208232 Monitor 7" LEDD Serial

- For double DIN slide opening in the dashboard
- 6m multicable (power) open wired, 6m multicable (video) with 7p female connector
- For serial connection (MultiView box)

0208371 Monitor 7" LEDD CAN Radar 6

- For double DIN slide opening in the dashboard
- 6m multicable (power) open wired, 6m multicable (video) with 7p female connector
- Specially designed for RadarEye systems (see page 42-43)

0208603 Monitor 7" RLED R 2

- 2m multicable (power) open wired, 2m multicable (video) including 4p molded female connector
- User-adjustable 132mm mounting bracket



Mounting means - LEDD monitor

Brand	Model	DDIN slot	Necessary mounting brackets
DAF	CF / XF	Yes	None
DAF	LF	No	0400610 or 0400600
Iveco	<i>All models</i>	No	0400610 or 0400600
MAN	<i>All models</i>	No	0400610 or 0400600
Mercedes-Benz	<i>All models</i>	No	0400610 or 0400600
Renault	Premium	Yes	None
Renault	Magnum	Yes	0400630
Renault	<i>Other models</i>	No	0400610 or 0400600
Scania	<i>All models</i>	Yes	None
Volvo	FM / FH	Yes	0400680
Volvo	FE / FL	No	0400610 or 0400600


0400610 Monitor mounting bracket

For assembly of the Monitor 7" LEDD.

- ABS + aluminium


0400600 Monitor mounting bracket flexible

For flexible assembly of the Monitor 7" LEDD.

- ABS + aluminium


0400680 DDIN Adapter

For fitting the monitor to a Volvo dashboard (FH/FM).

- ABS


0400630 DDIN Adapter

For fitting the monitor to the dashboard of a Renault Magnum.

- ABS

Mounting means - Compact Cameras
0401270 Camera bracket

Compact bracket specially designed for the Compact Camera.

- Cap can be resprayed in the color of the vehicle
- Including mounting kit
- Compact Camera is not included


0401210 Camera bracket with extension

Extended bracket specially designed for Volvo FM / FH Frontview and Mercedes-Benz.

- Including mounting kit
- Rubber extension part
- Compact Camera is not included


0402280 Camera Extension 155 Stainless steel

Extended heavy duty bracket specially designed for Rearview.

- 155mm extension
- Including camera bracket (0401270)
- Stainless steel housing
- Including mounting kit
- Compact Camera is not included

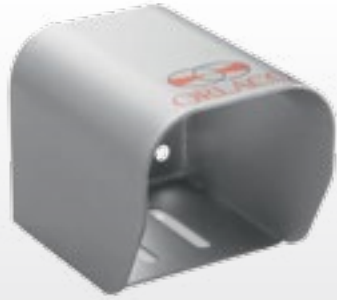

8400600 Compact Camera bracket

Assembly set for Compact Camera.


0403310 Shock-absorbers for Compact Camera

In situations where shock absorption plays a major role, we recommend that the specially developed shock absorbers are used when installing the Compact Camera.





- 0402320 Protective cover**
Cover specially designed for the Compact Camera.
- Stainless steel housing



- 0402360 Aerodynamic cover**
Cover specially designed for the Compact Camera.
- Stainless steel



- 0401260 Quick coupling Compact Camera**
For moving the Compact Camera between various objects.
- Including two attachment plates
 - Stainless steel
 - Compact Camera is not included



- 0401300 Attachment baseplate**
For moving the Compact Camera between various objects.
- Stainless steel



- Camera extension brackets**
Specially designed for the Compact Camera. Matches the hole pattern of the Compact Camera bracket.
- Stainless steel

0402250 Camera extension 155mm

0402270 Camera extension 250mm

Switchers

Input and power supply for three cameras and in combination with a Y-split cable: four cameras.

- Cameras can be switched over automatically or manually

0404040 Switcher UNI

- Waterproof IP54 according to IEC 60529
- 4p output for monitor

0404080 Switcher UNI IP67

- Waterproof IP67 according to IEC 60529
- 4p output for monitor



0304081 Y-Split cable LEDD

- With two 4p molded female connectors (video) and open wire cable (power)
- For connections 2 to 4 cameras (with Switcher)



0405600 Trailer switcher

For connecting the Rearview cameras to the rigid and trailer

- Switches automatically on connection
- Including 16m multicable 7p - 10p Harting



The MultiView box is an advanced video imaging system for up to 4 cameras. There are many possibilities of different split views in 5 selectable video channels.

- Stainless steel housing
- A MultiView box can only be connected to an Orlaco Serial Monitor or via the Serial Cable 6m (8976330) when a non-serial monitor is used

0404110 MultiView box

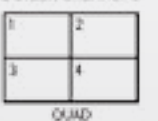
- 4 camera inputs (4x Compact Camera)



Presel view options for channel 1-4:



Default channel 5:





Video distributor

0407000 Orlaco video distributor
For connecting a second and third Orlaco monitor.

- 12V/DC
- Cables and connectors are not included

Interface / power supply



0270500 Uni Power Interface

To connect three Orlaco cameras to third party monitors (in combination with a UNI switcher), for instance navigation and fleet management systems.

- Including 0,5m power cable and 1m cable between UNI switcher and interface



0004600 Power supply 9-36V

- Maximum cable length 200m
- Power input 9-36V/DC
- Power output 12V/DC



0256270 Monitor activator

This activator can be adjusted for automatic activation of the front camera at speeds between 0 and 30 km per hour.

- Including connector for tachometer/speed meter output



0270010 Interface Dynafleet

For connecting the Dynafleet driver tool to the UNI switcher for Volvo.

- Including 1m multicable with 4p connectors and cable adapter Dynafleet

0256055 Interface Blaupunkt

For connecting a maximum of two cameras to the Blaupunkt radio/navigation system.

- The Blaupunkt monitor is approved for Frontview when combined with the CMOS 115° and CMOS 131°
- Rearview camera must be mirror



0256030 Interface MB Actros & Antos

For connecting a maximum of two cameras to the Mercedes-Benz Actros & Antos J2D Truck navigation system.

- Including interface cable and 2Cam 4p female cable
- Cameras must be NTSC



Navigation

0277010 VCA Truck Specific Navigation

- Easy to connect on an Orlaco LEDD or RLED monitor
- Internal memory
- European map; SD-card slot for updates
- Including TMC computer, speaker, remote control with touchpad and GPS receiver
- Adjustable parameters: i.a. total weight, axle load, length of vehicle, height of vehicle, dangerous goods



Digital MPEG2 video recorder

0000200 Easysolid Recorder

- CompactFlash storage
- Compact stainless steel housing
- Video loop function
- 10-36V/DC
- Automatic timestamp
- Including 32GB CF-card for max 72 hours of storage and CF-card reader



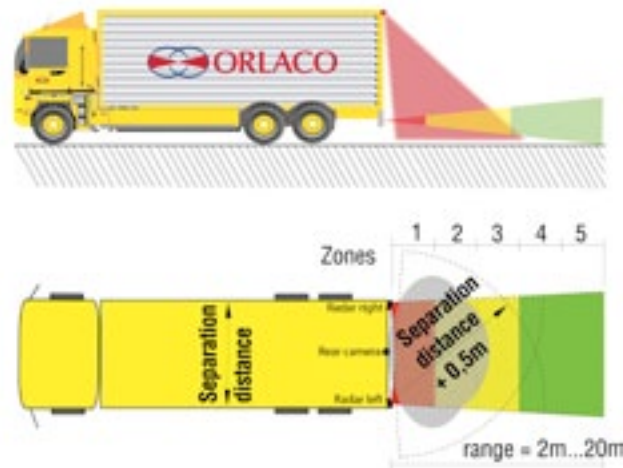
RadarEye unites visibility and active detection



Orlaco has developed this radar unit in addition to the camera-monitor systems. By combining the vision solution with an active signaling system, RadarEye offers additional safety and efficiency.

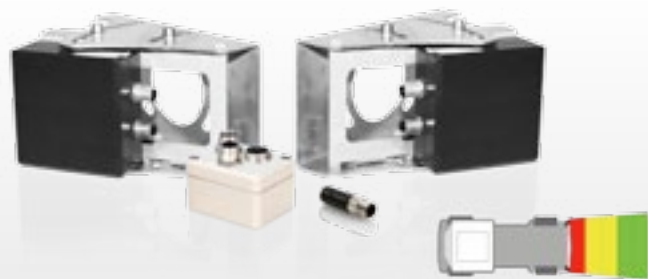
RadarEye is an integrated active view system designed to detect and see objects in zones obscured from the driver's view. The radar system detects stationary as well as moving objects in a designated coverage area. With this view system the driver is actively warned with audible tones that increase in rate as objects come closer. When an object is detected it can be seen on the monitor and the driver can respond immediately. This prevents damage to the drivers truck and any other equipment he may reverse into. The radar units have a rugged design, are shockproof, waterproof and is not influenced by the environment, such as snow, rain, mud and or temperature changes.

- RadarEye can be used on various trucks
- RadarEye is capable of visualizing the radar-zones on the display. As soon as an object enters the zone it will activate colored dots (default setting) or a transparent visualization (standard/custom preset settings) to make the driver aware of the potential danger
- 2...20m detection area, divided in 5 equally sizes segments
- Separation distance: 1-4m (configurable)
- Antenna beam horizontal: 70°(typ.), vertical: 11°(typ.)
- Operating temperature between -40°C to +85°C
- Obstacle reaction delay 50ms
- Orlaco CAN bus Radar monitor is required (0208371)
- RadarEye can be extended with multiple radar and camera units for all around detection and visibility
- Please contact Orlaco for advice and installation



YouTube

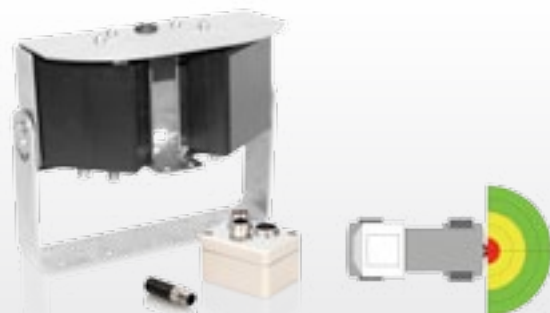
[Check our demo RadarEye videos on the Orlaco YouTube channel.](#)



RadarEye sets

0403120 RadarEye set corner rear
Active Rearview system for corner mounting.

- Including RadarEye units, brackets, interface box and terminator
- Cables, Camera and Monitor are not included

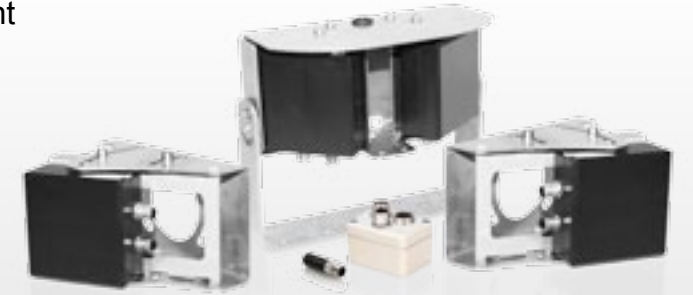


0403100 RadarEye set center rear
Active Rearview system for center mounting.

- Including RadarEye units, bracket, interface box and terminator
- Cables, Camera and Monitor are not included

0403110 RadarEye set center rear and side/front
Active Center Rear and Side/Front view system.

- Including RadarEye units, brackets, interface box and terminator
- Cables, Camera and Monitor are not included



RadarEye Cables

RadarEye Cable M12 Green

Connection cable between RadarEye Interface box and master RadarEye unit or connection cable between slave RadarEye unit and next RadarEye unit.

0301050	5m
0301060	10m
0301070	15m
0301120	20m
0301130	25m
0301140	30m



RadarEye Cable M12 Master-Slave Red

Connection cable between master RadarEye unit and slave RadarEye unit.

0301020	1m
0301030	4m
0301040	8m
0301090	16m



RadarEye parts

0004310 RadarEye unit

Active detect unit for integration in active view system (RadarEye).



0256010 RadarEye Interface box

RadarEye Interface is designed to connect RadarEye units to camera and monitor.



0350110 RadarEye Terminator M12 120 Ohm
120 Ohm resistor for terminating CAN bus.





Cable extension sets

0303960 Cable extension rigid - drawbar trailer (manual)

Two cables suitable for lead through on rigid and drawbar trailer.

This set contains:

- 16m multicable 4p male - 10p female Harting
- 21m multicable 4p female - 10p male Harting
- Including push button (for manually switching between cameras)



0303970 Cable extension rigid - drawbar trailer (automatic)

Two cables suitable for lead through on rigid and drawbar trailer.

This set contains:

- 16m multicable 7p male - 10p female Harting
- 21m multicable 4p female - 10p male Harting
- Including Trailer switcher (Switches automatically on connection)



0303980 Cable extension rigid - center axle trailer (manual)

Two cables suitable for lead through on rigid and center axle trailer.

This set contains:

- 16m multicable 4p male - 10p female Harting
- 21m multicable 4p female - 10p male Harting
- Spiral cable 3,5m, 10p Harting connectors
- Including push button (for manually switching between cameras)



0303990 Cable extension rigid - center axle trailer (automatic)

Two cables suitable for lead through on rigid and center axle trailer.

This set contains:

- 16m multicable 7p male - 10p female Harting
- 21m multicable 4p female - 10p male Harting
- Spiral cable 3,5m, 10p Harting connectors
- Including Trailer switcher (Switches automatically on connection)

Adapter cables

To connect an Orlaco Compact Camera to a third party monitor.

0304000 Adapter cable 4pF - 4pF

0304050 Adapter cable 4pM - 4pM

0303770 Adapter cable 4pF - Cinch / power wires

0303810 Adapter cable 4pF - Volvo ECU Uni

0303830 Adapter cable 4pF - Scania Interactor

0303840 Adapter cable 4pF - GreenCat Top IQ1

0303820 Adapter cable 4pF - GreenCat Top IQ2

0303860 Adapter cable 4pF - BNC

0304060 Adapter cable 4pF - Snooper monitor

0303090 Adapter cable 4pF - Bosch (MAN/DAF/SCANIA) monitor

0304660 Adapter cable 4pF - Mercedes-Benz radio/navigation





Device cables

8975171 Cable LEDD 2m

- 2m multicable (power) open wired, 2m multicable (video) including 4p molded female connector

8976330 Cable Serial 6m

A non-serial LEDD monitor can be connected to de MultiView (0404110) box via this cable.

- 6m multicable (power) open wired, 6m multicable (video) including 7p female connector



Connectors

1310841 Connector 4p female Gold

This connector is recommended for the multicable 6mm.

1312001 Connector 4p male Gold

This connector is recommended for the multicable 6mm.

1310850 Connector 4p female PG9 Gold

This connector is recommended for the dynamic cable 9mm.

1312050 Connector 4p male PG9 Gold

This connector is recommended for the dynamic cable 9mm.



Cable disconnection sets

0351070 7p

- Watertight
- With caps

0351100 10p harting

- Watertight
- With caps



Spare parts 10p Harting

1399510 Mounting housing

1399610 Female insert

1399500 Housing

1399600 Male insert

2200250 Reducer

2205200 Cable gland

ISO Certifications

All Orlaco products are manufactured according to the latest *Quality Management System Standards*:

ISO/TS 16949 : 2009

ISO 9001 : 2008

All Orlaco products are manufactured according to the latest *Environmental Management System Standard*:

ISO 14001 : 2004

Type-Approval Certifications

Regulation 10 and 46 are used to determine the Type-Approval for **EMC** and **Indirect Vision** (Mirror Directive). **R46** describes the specifications that a truck's mirrors must comply with. Orlaco Frontview systems meet all these requirements. **R10** describes the **EMC** behaviour of the Orlaco Camera- monitor systems.

TÜV Automotive Certifications

The *European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR)* demands additional equipment. Orlaco Camera- monitor systems and connection cables comply with these regulations.

Compliance

Our Camera- monitor systems are produced entirely in line with the **CE-marking** and the most recent applicable directives and products standards (e.g. **EMC**, **Machinery**, **R&TTE**). Orlaco products are compliant with **RoHS** and **REACH**.





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It is Orlaco's viewpoint that optimal vision around every vehicle and vessel should be the norm. It provides safety, less damage, comfort and efficiency. *Vision is our mission.* A revealing mission. We develop professional vision solutions for every situation:



HEAVY EQUIPMENT



ON ROAD TRUCKS



CRANES



FORKLIFTS



MARITIME



EMERGENCY VEHICLES

