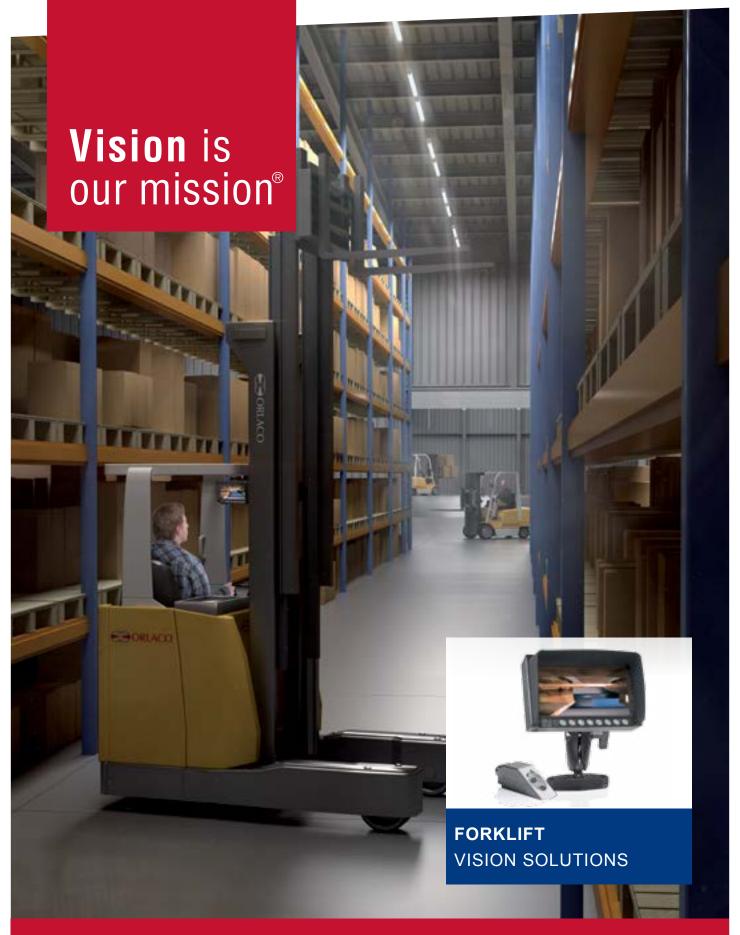
www.orlaco.no







Reach truck	
VNA Truck	
Counterbalance truck	1
Sideloader	1
Telehandler	1
Reach Stacker	1
Empty Container Handler	1



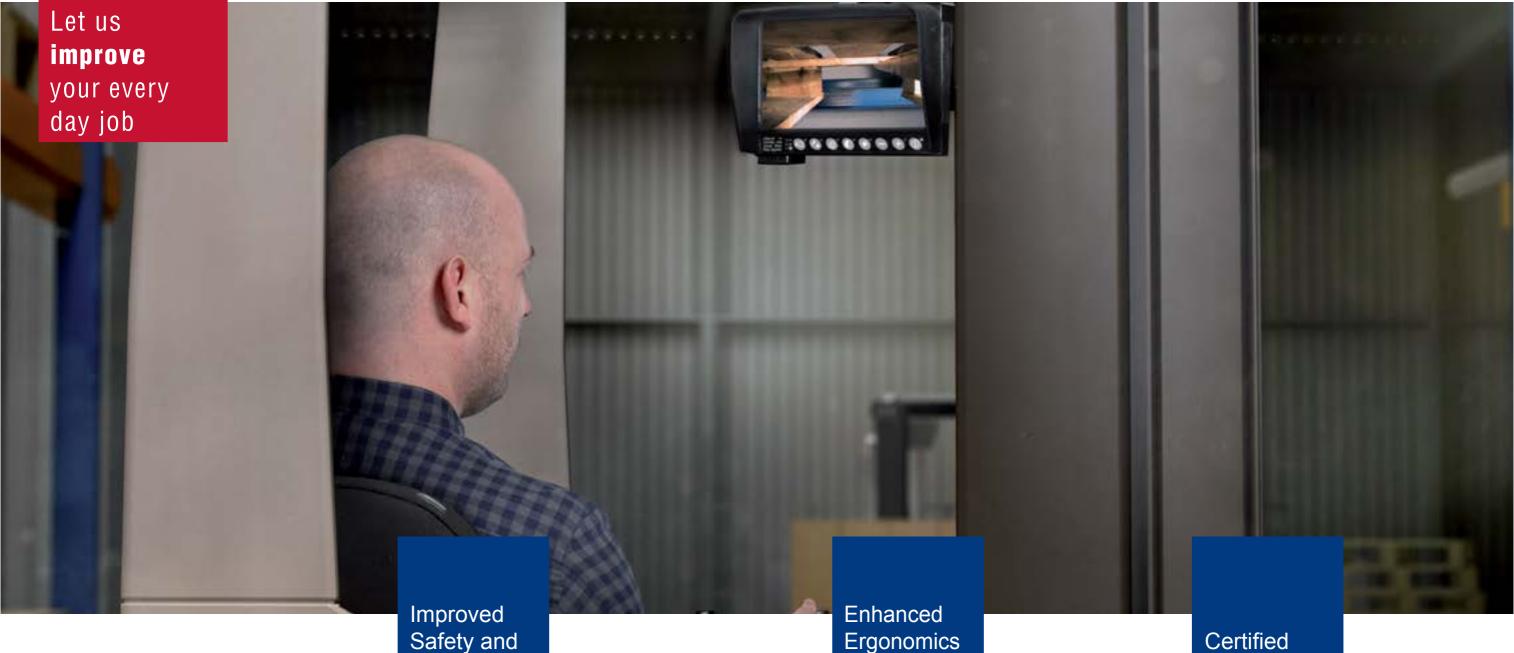
Why Orlaco?

Welcome to the Orlaco product catalogue. We are personally committed to bringing you the best camera and monitor solutions possible. To help create safer and more secure workplaces around the world. Our professional team has spent over twenty five years designing and manufacturing a variety of certified, reliable and complete camera display solutions that effectively eliminate the blind spots around vehicles, machinery and vessels. We are confident that the options offered in this catalogue will not only help you to improve the safety, security and efficiency of your fleet, but also to enhance the ergonomics and comfort for your operators. That is what Orlaco stands for. We invite you to share your ideas and experiences with us.

On behalf of the entire team, Henrie van Beusekom Executive Director Orlaco



That's why!





Forklift and forklift truck working environments can get very hectic. Today's lifts extend higher, making it more difficult for the driver to see the position of the forks. And maneuvering between racks while moving pallets from place to place can prove challenging. Orlaco can help. Orlaco produces a line of vision systems for forklifts and forklift trucks. These cameras give the drivers a reliable, crystal-clear image of the forks and their surroundings. From up high to down low; the position of the forks, the load, and the surroundings. A better view increases the driver's awareness, improves safety and reduces risks. An ideal solution for a more productive day on the job.

Efficiency

The repetition of looking quickly up and down, from side to side, can take its toll on a forklift driver's neck and back. Fatigue reduces concentration, precision, speed, and efficiency. The Orlaco vision system helps to improve a forklift driver's performance. Physical turning and twisting is no longer necessary with the Orlaco vision system. A quality system that allows the driver to see all that is required by simply looking at the mounted dashboard monitor in front of them. A system that supports a correct, more comfortable driving posture.

and Comfort

Certified Quality

At Orlaco, quality is never taken lightly. We keep a clear and persistent focus on customer satisfaction. A focus that is maintained 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.

Why Orlaco Why Orlaco

Forklift sight solutions



Mid-mastview



The Mid-mastview system shows the driver on the monitor the view along the fork after the freelift stage. This allows correct positioning. Also, this configuration provides a view on the racking when non-Euro pallets are used

With a Mid-mastview system the camera is mounted (mostly on an additional bracket) on the cross member of the inner mast stage. The sturdy monitor comes with a fully adjustable clamp bracket that is mounted on the reach truck's guardrail.



Forkview



PAGE 18-21

On the monitor the **Forkview** system shows the operator the view along the fork. This allows correct positioning of the fork. Shoulder- and neck muscles need not be strained anymore. Also correct positioning of loads reduces damages.

The Forkview system has a camera mounted at the inside of the right-hand side fork. The sturdy monitor comes with a fully adjustable clamp bracket that is mounted on the reach trucks guardrail.

Important

Drilling holes in the fork is only allowed with formal permission of the fork manufacturer. To mount the camera with M6 bolts, holes of 11mm deep are drilled, resulting in 9mm effective thread. This is 1.5 times the length of a M6 bolt and is sufficient to hold the M6 bolt.

Orlaco can not be held responsible for any damage to the forks or damage resulting from malfunctioning forks.





Telescopic forks allow flexibility when moving pallets of different sizes. The long forks allow for double-deep storage of pallets. The greater reach of the truck requires the driver to pay even closer attention. The area that needs to be scrutinized is even larger. This is simplified with an Orlaco camera mounted in the fork carriage. In cooperation with the supplier of the telescopic forks, the camera may also be integrated on the fork.



View-on-forks



PAGE 20-21

The View-on-forks system allows the driver to see on the monitor an optimal view along the fork. This allows correct positioning, without making the fork wider.

With the View-on-forks system, the camera is mounted under the fork carriage. The sturdy monitor comes with a fully adjustable clamp bracket that is mounted on the reach trucks guardrail.



Orlaco systems are suitable for 12...60V power supply

Vision solutions Vision solutions

9 **VNA Truck**

ORLACO

₩ORLACO



Rearview



PAGE 21

The Rearview system allows the driver to see the area behind the truck on the monitor. This enables the driver to see what is happening behind the truck, as well as in the aisle when backing out of the racking. This helps to reduce risks for goods and personnel.

With a Rearview system, the camera is mounted on the back of the mast on one of the cross members. The sturdy monitor comes with a fully adjustable clamp bracket that is mounted on the cabin roof, or inside the cabin.



Frontview



PAGE 23

The **Frontview** system allows the driver to see the area directly in front of the truck on the monitor. When the cabin is raised the driver maintains a direct view of the aisle below. This helps to reduce risks for goods and personnel.

The **Frontview** system has a camera mounted at the bottom of the chassis. The sturdy monitor comes with a fully adjustable clamp bracket that is mounted on the cabin roof, or inside the cabin.



Orlaco systems are suitable for 12...60V power supply

11 10 **Counterbalance Truck**

Frontview



The Frontview system allows the driver to see the area in front of the forklift truck. Even with a load on the forks, the driver maintains a view of what happens in front. This helps to reduce risks for goods and personnel.

With a Frontview system the camera is mounted on the mast's fixed outer stage. The sturdy monitor comes with a fully adjustable clamp bracket that is mounted in the truck's cabin.



View-on-forks





PAGE 20-21

Loading and unloading of trucks often requires the forks to be at a height where the view of the forks is blocked by the fork carriage. The View-on-forks system allows the driver to maintain a view of the forks.

With a View-on-forks system the camera is mounted in or under the fork carriage so that the driver gets a complete overview of the area around the forks. The sturdy monitor comes with a fully adjustable clamp bracket that is mounted on the reach truck's guardrail.







PAGE 23-24

In confined areas or unclear situations it is often difficult to estimate the space behind the forklift truck accurately. Also, frequent driving in reverse causes strain on the driver's neck- and shoulder muscles. The **Rearview** system ensures a safe environment in which the physical strain for the driver is minimal.

With a Rearview system the camera is mounted on the back of the truck. The sturdy monitor comes with a fully adjustable clamp bracket that is mounted in the truck's cabin.



Recommendation:

Add RadarEye to increase safety & efficiency. (see page 25)





Orlaco systems are suitable for 12...60V power supply

Vision solutions Vision solutions 12 Sideloader Telehandler 13

Frontview / Rearview





In confined areas or unclear situations it is often diffficult to estimate the space in front of the forklift truck accurately. Using a **Frontview** / **Rearview** system ensures a safe environment. The driver can see on the monitor what is happening around the sideloader which enables correct and safe maneuvering.







With a View-on-forks system the camera is mounted on the end of the boom. This allows the driver to see the attachment on the monitor which enables optimal positioning.

The sturdy monitor comes with a fully adjustable clamp bracket that is mounted in the truck's cabin. The installation of the cable on the boom depends on the configuration of the telehandler.





•

Orlaco systems are suitable for 12...60V power supply



PAGE 18-21

When handling loads with a sideloader it is often not possible for the driver to see the forks. Using a **Forkview** or **View-on-forks** system allows the driver to see on the monitor where the forks are to be positioned. This helps to reduce risks for goods and equipment.

The **Forkview** system has a camera mounted at the inside of the right hand side fork. The camera of the **View-on-forks** system is mounted in or under the fork carriage. The sturdy monitor comes with a fully adjustable clamp bracket that is mounted in the truck's cabin.





PAGE 23

In confined areas or unclear situations it is often difficult to estimate the space behind the telehandler accurately. The **Rearview** system ensures a safe and concise environment in which the physical strain of the driver is minimal.

With a **Rearview** system the camera is mounted at the back of the telehandler. The sturdy monitor comes with a fully adjustable clamp bracket that is mounted in the cabin.

14 Reach Stacker 15

Topview Rearview PAGE 24 The **Topview** system allows the driver to see the area in front of the container. When When maneuvering with a reach stacker it is often diffia container has been picked up, the driver maintains a view of what happens in front. cult to estimate the space behind the vehicle accurately. This helps to reduce risks for goods and personnel. With a Rearview system the camera is mounted at the With a **Topview** system the camera is mounted at the top of the boom. The camera back of the Reach Stacker. The sturdy monitor comes is aimed so that the monitor shows an image of the area in front of the reach stacker. with a fully adjustable clamp bracket that is mounted in The installation of the cable on the boom depends on the configuration of the Reach the cabin. Stacker. Recommendation: Add RadarEye to increase safety & efficiency. (see page 25) ORLACO Orlaco systems are suitable

View-on-twistlocks





PAGE 22

When picking up containers the correct positioning can be difficult. The **View-on-twistlocks** system can assist the driver and simplify this task.

With a **View-on-twistlocks** system a camera is mounted on each side of the spreader, aimed at the twist locks. Each camera's image is shown on its own monitor.

Combined sets

The **View-on-twistlocks** or **Topview** system is often extended with an extra camera for **Rearview**. By using the truck's driving direction signal, the image from the **Rearview** camera can automatically be shown when the truck is put in reverse.

for 12...60V power supply

Vision solutions

Vision solutions

16 **Empty Container Handler** 17







View-on-twistlocks

PAGE 22



When maneuvering with an ECH it is often difficult to estimate the space behind the vehicle accurately. Due to the frequency of driving in reverse the operators neck and shoulder muscles are under strain. The **Rearview** system ensures a safe environment in which the physical strain for the driver is minimal.

With a **Rearview** system the camera is mounted at the back of the Empty Container Handler. The sturdy monitor comes with a fully adjustable clamp bracket that is mounted in the cabin.

Recommendation:

Add RadarEye to increase safety & efficiency. (see page 25)

system can assist the driver and simplify this task. With a View-on-twistlocks system a camera is mounted on each side of the spreader, aimed at the

Empty containers are stacked to save space. When

picking up containers the correct positioning of the

spreader can be difficult. The View-on-twistlocks

hooks. Each camera's image is shown on its own



Orlaco systems are suitable for 12...60V power supply

Combined sets

The View-on-twistlocks system is often extended with an extra camera for Rearview. By using the truck's driving direction signal, the image from the Rearview camera can automatically be shown when the truck is put in reverse.

Vision solutions Vision solutions

Products

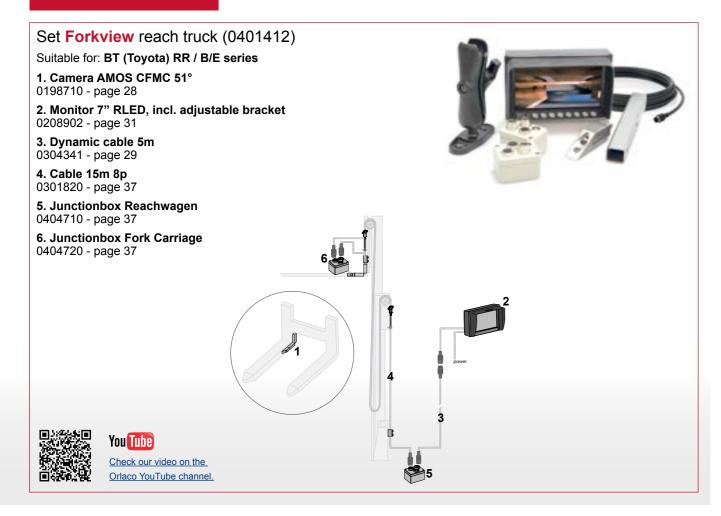


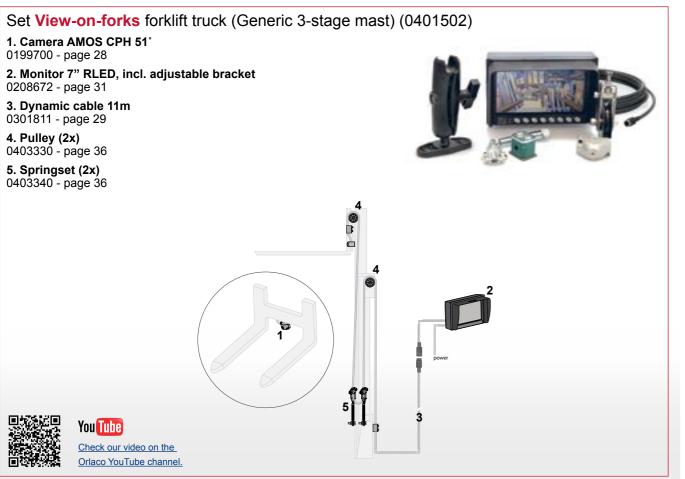


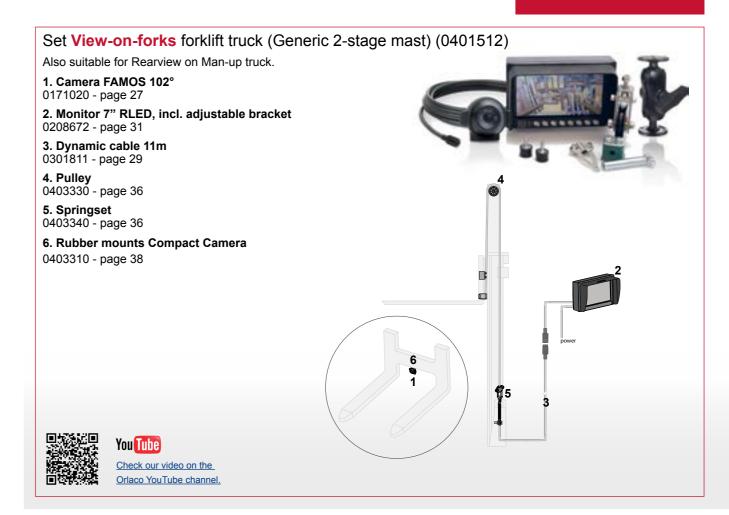




Products









Products

Set View-on-twistlocks reach stacker

1. Camera FAMOS 102° (2x)

0171020 - page 27

2. Monitor 7" RLED, incl. adjustable bracket (2x) 0208672 - page 31

3. Dynamic cable 11m* (4x)

0301811 - page 29

4. Dynamic cable 20m* (2x)

0301831 - page 29

5. Protection cap male (6x)

1350200 - page 34

6. Protection cap female (6x)

1350300 - page 34

7. Rubber mounts Compact Camera (2x)

0403310 - page 38

* Typical example cable lengths are to be checked!

Note: It is assumed that the cabling within the spreader is installed by the spreader manufacturer.





Check our video on the Orlaco YouTube channel.



1. Camera FAMOS 80° (2x)

0171030 - page 27

2. Monitor 7" RLED, incl. adjustable bracket (2x)

0208672 - page 31

3. Dynamic cable 10m* (4x)

0304441 - page 29

4. Dynamic cable 20m* (2x)

0301831 - page 29

5. Camera extension 250mm (2x)

0402270 - page 38

6. Protection cap male (6x) 1350200 - page 34

7. Protection cap female (6x)

1350300 - page 34

8. Rubber mounts Compact Camera (2x)

0403310 - page 38

9. Springset (2x)

0403340 - page 36

* Typical example cable lengths are to be checked!





Check our video on the Orlaco YouTube channel.



Set Camera expansion (0401451)

Orlaco YouTube channel.

The Orlaco camera monitor system offers a variety of possibilities. Besides offering a view on the situation in front of the truck an Orlaco system can simply be extended with a second or even a third camera for a complete overview around the forklift. The driver can have the camera images shown on the monitor as desired, there are numerous possibilities. To name one, the monitor can show the Rearview camera's image automatically when reversing.



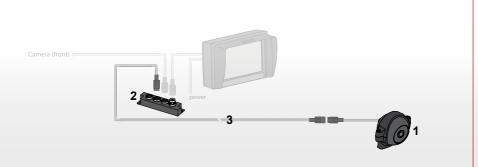
1. Camera FAMOS 118°

0171010 - page 27

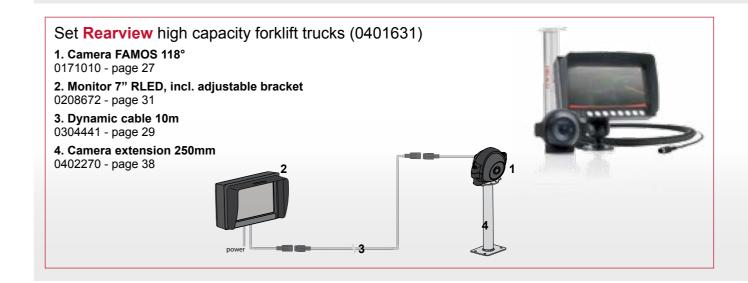
2. Switcher UNI 0404040 - page 36

3. Multi cable 5m

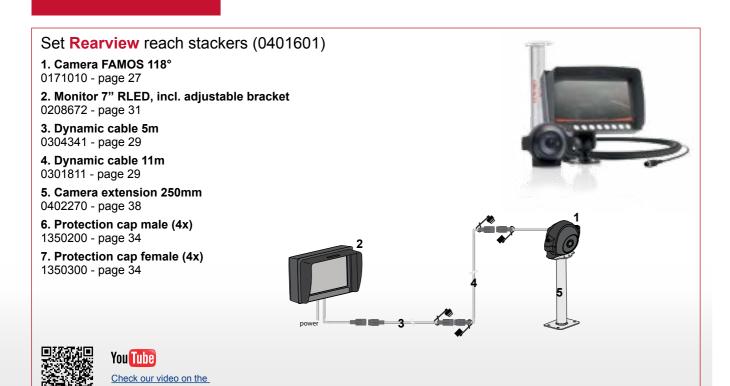
0301880 - page 29







SETS



Set RadarEye center rear reach stackers

Suitable for reach stackers with a sliding cabin.

Orlaco YouTube channel.

1. Camera FAMOS 118°

0171010 - page 27

2. Monitor 7" RLED CAN Radar, incl. adjustable bracket 0208871 - page 31

3. RadarEye set center rear

0403100 - page 32

- a. SRD sensors (2x)
- b. RadarEye center bracket
- c. RadarEye Terminator
- d. RadarEye cable M12 Master-Slave Red 0,25m
- 4. RadarEye Interface box with ext. speaker

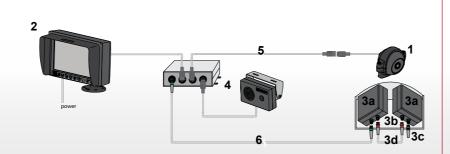
0504820 - page 33

5. Dynamic cable 10m

0304441 - page 29

6. RadarEye cable M12 Green 10m

0301060 - page 33





Check our video on the Orlaco YouTube channel.





Set Three cameras on fork (carriage) 1. Camera AMOS CFMC 51° 0198710 - page 28 2. Camera FAMOS 80° (2x) 0171030 - page 27 3. Monitor 7" RLED, incl. adjustable bracket 0208902 - page 31 4. Pulley (2x) 0403330 - page 36 5. Springset (2x) 0403340 - page 36 6. Switcher UNI 0404040 - page 36 7. Dynamic cable 15m 0301731 - page 29 8. Dynamic cable 5m (3x) 0304341 - page 29

Set Four cameras on fork (carriage) 1. Camera FAMOS 102° (4x) 0171020 - page 27 2. Monitor 7" RLED Serial, incl. adjustable bracket 0208632 - page 31 3. Pulley (2x) 0403330 - page 36 4. Springset (2x) 0403340 - page 35 5. MultiView Box 0404110 - page 35 6. Multi cable 5m (4x) 0301880 - page 29 7. Dynamic cable 17m 0304590 - page 29

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

It is also possible to configure your system online on our website: www.orlaco.com

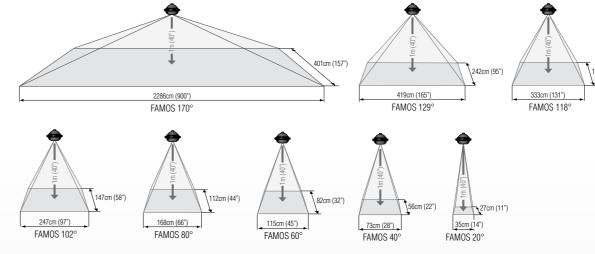
Whatever you select, the system can be easily installed and is plug-and-play.

Note: For two or more cameras a switcher, 4Cam RLED Monitor or MultiView Box and additional cables are required. Contact us for support.

The qualifications of our AMOS and FAMOS Compact Cameras

- · Next generation CMOS sensor
- · Light sensitivity 0.05 lux
- Integrated Safety ticker to show that camera is running and active
- · Impact and vibration proof
- Operating temperature between -40°C to +85°C
- Heated lens glass, therefore no problems with condensation or frost
- Fixed lens

- IP68 dust- and waterproof according to IEC 60529
- The camera has a 0,5m cable including a waterproof molded 4p connector male







Cameras FAMOS

Туре	Art. no. PAL	Art. no. NTSC
20°	0171060	0171160
40°	0171050	0171150
60°	0171040	0171140
80°	0171030	0171130
102°	0171020	0171120
118°	0171010	0171110
129°	0171000	0171100
170°	0171070	0171170

- Chemically hardened lens
- Automotive molding-filled housing, watertight IP69K according to DIN 40050-9
- Improved EMC-standards
- · Optimized impact- and vibration-resistance

Cameras AMOS Communicator

Camera with additional features: PAL / NTSC setting, digital zoom, guiding lines, fisheye correction, mirror/flip settings and text features.

 Type
 Art. no. PAL / NTSC

 69°
 0135830

 118°
 0135810

 129°
 0135800

- · Chemically hardened glass
- Nitrogen-filled housing, watertight IP69K according to DIN 40050-9

Products Products

Cameras AMOS IR LED

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

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

- · Chemically hardened glass
- · Nitrogen-filled housing, watertight IP69K according to DIN 40050-9

Cameras AMOS IR LED Communicator

Camera with additional features: PAL / NTSC setting, digital zoom, guiding lines, fisheye correction, mirror/flip settings and text features.

Туре	Art. no. PAL / NTS
69°	0146800
118°	0146810

- · Chemically hardened glass
- Nitrogen-filled housing, watertight IP69K according to DIN 40050-9



Cameras AMOS ATVC Set (All Time Vision Camera)

Self cleaning camera system by a rotating glass tube and fluid.

Туре	Art. no. PAL	Art. no. NTSC
118° MIRROR	0400160	0400260

- Including control unit for Input/Output ATVC
- Excluding water pump with 6 liter reservoir (3500810)
- Excluding water hose (2270140)
- Excluding extension cable camera to Input/Output ATVC

The qualifications of our AMOS CFMC and CPH cameras

- Next generation CMOS sensor
- Light sensitivity 0.05 Lux
- Operating temperature -40°C to +85°C



- Waterproof camera IP69K according to DIN 40050-9
- · Heated lens glass, therefore no problems with
- condensation or frost
- · High resolution
- Fixed lens, angle of aperture: 51°
- · Impact and vibration proof

Camera AMOS CFMC

Camera for mounting at the inside of the right-hand side fork.

0198710 Camera AMOS CFMC 51° (PAL)

• Including 1m multi cable 4p connectors

Camera AMOS CFMC + LEDs

Camera with two integrated high bright LEDs.

0198700 Camera AMOS CFMC 51° + LEDs (PAL)

• Including 1m multi cable 4p connectors

Camera AMOS CPH

Extremely robust small camera for mounting on a vulnerable position.

Туре	Art. no. PAL	Art. no. NTSC
51°, 0,2m cable	0199710	0199740
51°, 0,6m cable	0199700	0199730

The advantages of Orlaco cables

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

Dynamic cable (Mast cable)

Designed for dynamic use as mast cable.

· Soft cover with small bend radius

Including 4p molded connectors:

1m	0304281	0,5m	0304371
5m	0304341	3,5m	0305341
8m	0304391	6m	0304381
10m	0304441	9m	0304431
12m	0304451	11m	0301811
20m	0301831	15m	0301731

Including 7p molded connectors

		-	_
4m	0304470	3m	0304460
8m	0304490	5m	0304480
10m	0304570	9m	0304560
17m	0304590	11m	0304580



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
0301910	7,5m	0301930	8m
0301950	9m	0301900	11m
0301920	16m	0301940	21m
0301990	40m		

Including 7p molded connectors:

0304420	0,5m	0302820	1m
0304260	2m	0304410	6m
0304610	11m	0304620	16m
0305030	21m		



Products **Products**

Spiral cable 4p

Operating temperature -40°C to +85°C

0303560 4,5m (max streched) 0303570 6,5m (max streched)

Shielded spiral cable 4p (forklift)

0303700 3.5m (max streched)

• Operating temperature -20°C to +80°C



Cable drum

0710240

- · Holds the cable tight
- 7m cable (1220150) and 12m cable (1220600)
- Watertight connector straight (1310850 & 1312001)
- Operating temperature 0°C to +75°C

0710280

 Specification identical to 0710240 except for: operating temperature -40°C to +75°C



Any required connectors can be ordered separately (page 34).

1220600 Dynamic cable per meter

For moving applications.

- 1 x coax + 5 x wires
- Diameter 9mm

1221000 Dynamic cable per meter

For moving applications.

- 1 x coax + 11 x wires
- Diameter 9mm

1221100 Dynamic cable per meter

For moving applications.

- 1 x coax + 14 x wires
- Diameter 9mm

1220110 Multi cable per meter

For non moving applications.

- 1 x coax + 3 x wires
- Diameter 6mm

1220170 Multi cable per meter

For non moving applications.

- 1 x coax + 5 x wires
- Diameter 6mm

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 dumpsOver- 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

0208672 Monitor 7" RLED R 4 CS

- 4m multi cable (power) open wired, 4m multi cable (video) with 4p female connector
- · User-adjustable 132mm mounting bracket
- · Suitable for (open) cold store applications

0208632 Monitor 7" RLED Serial R 6

- 6m multi cable (power) open wired, 6m multi cable (video) with 7p female connector
- · User-adjustable 132mm mounting bracket
- To be used in combination with MultiView box (see page 35) or camera AMOS communicator (see page 28)

0208871 Monitor 7" RLED CAN SRD 6

- 6m multi cable (power) open wired, 6m multi cable (video) with 7p female connector
- · User-adjustable 132mm mounting bracket
- Specially designed for RadarEye systems (see page 32-33)

0208902 Monitor 7" RLED RC 4 CS

- 4m multi cable (power) open wired, 4m multi cable (video) with 4p female connector
- User-adjustable 190mm mounting bracket with clamp
- Suitable for (open) cold store applications

0411000 Monitor 12" RLED R 4

- 4m multi cable (power) open wired, 4m multi cable (video) with 4p female connector
- User-adjustable 190mm mounting bracket

0411130 Monitor 12" RLED Serial R 6

- 6m multi cable (power) open wired, 6m multi cable (video) with 7p female connector
- · User-adjustable 190mm mounting bracket
- To be used in combination with MultiView box (see page 35) or camera AMOS communicator (see page 28)

0411300 Monitor 12" RLED CAN SRD 6

- 6m multi cable (power) open wired, 6m multi cable (video) with 7p female connector
- User-adjustable 190mm mounting bracket
- Specially designed for RadarEye systems (see page 32-33)



RLED 7" (Incl. User-adjustable 132mm mounting bracket)



RLED 7" (Incl. User-adjustable 190mm mounting bracket with clamp)



RLED 12" (Incl. User-adjustable 190mm mounting bracket)



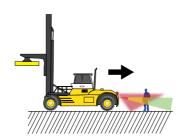
RadarEye unites visibility and active detection

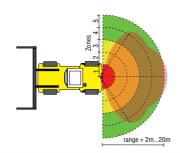


Orlaco has developed this radar unit in addition to the camera- monitor systems. By combining the vision solution with an active signaling system, RadarEye offers additional safety and efficiency.

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 machines
- 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 sized 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 Monitor CAN SRD is required (see page 31)
- · RadarEye can be extended with multiple sensor and camera units for all around detection and visibility
- · Please contact Orlaco for advice and installation







Check our demo RadarEye videos on the



RadarEye Sets

0403120 Set SRD Corner Rear

Active Rearview system for corner mounting.

- · Including SRD sensors, brackets and terminator
- Interface Box CAN/SRD/camera is required (0256010 or 0504820)
- · Cables, camera and monitor CAN SRD are not included



0403100 Set SRD Center Rear

Active Rearview system for center mounting.

- Including SRD sensors, bracket, cable master-slave (0301080) and terminator
- Interface Box CAN/SRD/camera is required (0256010 or 0504820)
- · Cables, camera and monitor CAN SRD are not included

RadarEye Interface boxes

0256010 Interface Box CAN/SRD/camera

The Interface Box is designed to connect SRD sensors to camera and CAN SRD monitor.

0504820 Interface Box with Ext. speaker CAN/SRD/camera

The Interface Box is designed to connect SRD sensors to a camera, CAN SRD monitor and external speaker.

- Set consists of: External speaker and Interface Box
- Sound pressure speaker: 85dB (+/-3dB) distance 1m

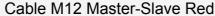


RadarEye Cables

Cable M12 Green

Connection cable between Interface box and master SRD sensor or connection cable between slave SRD sensor and next SRD sensor.

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



Connection cable between master SRD sensor and slave SRD sensor.

0301080	0,25m	0301020	1m
0301030	4m	0301040	8m
0301090	16m		



RadarEye Brackets

0401330 Bracket SRD Sensor Corner Rear

Mounting bracket for SRD Sensor for corner mounting

- · Stainless steel
- · SRD sensor not included

0401320 Bracket SRD Sensor Center Rear

Mounting bracket for SRD Sensor for center mounting

- · Stainless steel
- · SRD sensors not included

RadarEve Parts

Please contact Orlaco for advice

0004310 SRD sensor CAN Horizontal

Short Range Detection (SRD) sensor for integration in active view system (RadarEye).

· Connectors position: Side

0004320 SRD sensor CAN Vertical

Short Range Detection (SRD) sensor for integration in active view system (RadarEye).

Connectors position: Top / Bottom

0350110 M12 Terminator 120 Ohm

120 Ohm resistor for terminating CAN bus.

















Connectors

1310841 Connector 4p female Gold
This connector is recommended for the multi cable 6mm.

1312001 Connector 4p male Gold
This connector is recommended for the multi cable 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.

1311250 Connector 7p female PG9 Gold This connector is recommended for the dynamic cable 9mm.

1322450 Connector 7p male PG9 Gold
This connector is recommended for the dynamic cable 9mm.



Protection caps

1350200 Protection cap - male

1350300 Protection cap - female



Cable disconnection sets

With caps

0351070 7p

0351130 13p



0351100 10p harting

Adapter cables

0304220 Interface cable 4p male - 7p female For use with combination of MultiView box and standard 4p monitor.

0303860 Interface cable 4p female - BNC To connect camera to third-party monitor.

0303770 Adapter cable 4p female - Cinch To connect camera to third-party monitor.



Split cable (2m)

0303781 Y-Split cable UNI RLED

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



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







Multiview split

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
- Serial Orlaco Monitor needed (A regular non Serial Orlaco monitor can be connected to the Multiview box via a 7-to-4-pin adapter cable (0304220), please contact your dealer for futher advice)



0404110 MultiView box

4 camera inputs (4x Compact Camera)



Products

Products



Electrical transformers

0408070 FL DC/DC in 50...150V/DC-24V 5A

- · Galvanically isolated
- Input voltage: 50 to 150 V/DC
- · Output voltage: 24V 5A
- · Including fuses and screw connections



Pulley

0403330 Pulley for dynamic cable

- Diameter: 80mm
- · Stainless steel brackets and anodized aluminum pulley
- Suitable for: -50°C ... +150°C



Spring set

0403340 Spring set for dynamic cable

For pre-tensioning mast cable.



Push button

8975760 Push button yellow

For manually switching between cameras.



Switchers

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

- 4p output for monitor
- Cameras can be switched over automatically or manually

0404040 Switcher UNI

• Waterproof IP54 according to IEC 60529

0404080 Switcher UNI IP67

• Waterproof IP67 according to IEC 60529

Brand specific components

0404750 Pulley conversion set

• Linde 115 Series / OM Pimespo Thesi Series



0404710 Junctionbox Reach carrier

For connection of solenoid valve cabling in the reach carrier.

- BT (Toyota) reflex RR B / E reach truck
- Operating temperature -40°C to + 80°C

0404720 Junctionbox Fork Carriage

For connection of solenoid valve cabling in the Fork Carriage.

- BT (Toyota) reflex RR B / E reach truck
- Operating temperature -40°C to + 80°C

Truck specific mast cables

- · Including Orlaco connectors for connecting the camera system
- · Provided with clamps for the original springs
- · Dynamic cable with a small bending diameter
- Operating temperature -40°C to + 80°C
- Suitable for use in cold storage: max -40°C

0301820 Cable 15m 8p

For connection with Junction boxes (0404710 & 0404720).

- BT (Toyota) reflex RR B / E reach truck
- Cable length: 15m (1220600)

0305970 Cable 15m BT (Toyota) RRE

- Including BT connectors X40 and X37 to connect to the reach truck
- Cable length: 15m (1221100)

0301740 Cable 15m Crown ESR5000

- Including Deutsch connectors DT06 and DT04-12S-12P for connection to the reach truck
- Cable length: 15m (1221100)



0303150 Cable CFMC (Jungheinrich)

For connecting the Orlaco camera to the Jungheinrich board computer.





Mounting means

0403310 Rubber mounts for Compact Cameras For installation on positions where the Compact Camera can suffer impact.

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

0402320 Protective cover

Cover specially designed for the Compact Camera.

· Stainless steel housing

Mounting brackets

2015500 Adjustable mounting bracket

• Length 132mm

2015600 Adjustable mounting bracket

• Length 190mm

2015950 Clamp with ball coupling

2015510 Arm component 90mm

2015800 Arm component 144mm

2015750 Ball joint with connection plate

2015710 Ball joint 3/8" thread

2015900 Ball joint double

ISO Certifications

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

ISO/TS 16949: 2009 ISO 9001: 2008

Additionally, all Orlaco products are manufactured according to the latest Environmental Management System Standard:

ISO 14001: 2004









Type-Approval Certifications

Regulations 10 and 46 are used to determine the Type-Approval for EMC and Indirect Vision (Mirror Directive). R46 describes mirror specifications for truck compliancy. Orlaco Frontview systems meet all these requirements. R10 describes the EMC behavior of the Orlaco Camera and Monitor systems.

TÜV Automotive Certifications

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

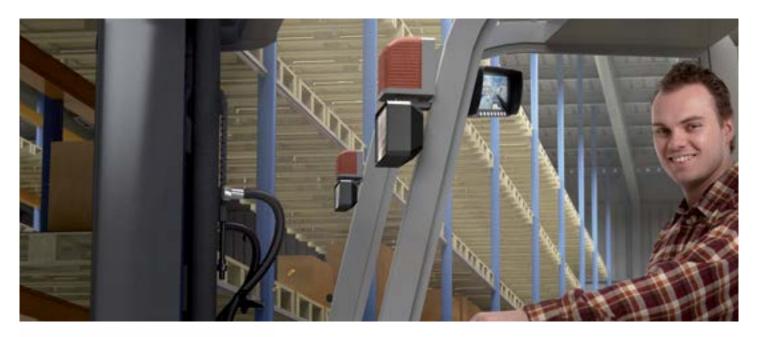
Compliance

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











- ORLACO NORGE AS Nesvegen 552080 Eidsvoll, Norway
- Phone +47 63 96 76 00
- post@orlaco.no
- www.orlaco.no

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deale

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:

















Check our website for all our brochures (pdf).



