Vision is our mission®

HEAVY EQUIPMENT VISION SOLUTIONS

Orlaco Inc - North America
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infoNA@orlaco.com
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,
Hennie van Beuskom
Executive Director Orlaco
Shovels, excavators and dump trucks are examples of complex machines that require clear vision which allows the operation to progress smoothly and safely. Machines are increasingly becoming further advanced with elevated demands on efficiency and output. Still, it is people that are required to handle this equipment correctly. Operators have minimal vision around the vehicle. It is essential to solve large blind spots in a professional manner. This is where Orlaco’s camera monitor solutions will help to improve operational efficiency and safety.

An operator is required to follow what is occurring around his machine. Frequently he must maneuver into a contorted position. Machines are reversing repeatedly. The operator is obliged to turn his body to overview the operation, possibly leading to short or even long term ergonomic injuries. By viewing the Orlaco monitor located on the dashboard, the driver can maintain correct posture and work more comfortably. The driver feels safe, secure and in control of the machines environment, reducing stress and providing comfort.

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.
Earth moving sight solutions

**Rearview / HD**

Not only safe reversing, but also good vision when turning the machine. Available in analog and digital version. The analog system can also be used in combination with Toolview (page 18) or an analog Sideview. (page 17)

**Toolview**

Clear view on a certain process when direct vision is not possible. This can also be used in combination with an analog Rearview. (page 17)

**Sideview / HD**

If you are continually turning, you cannot always see what is happening next to the machine. A Sidecam is then the solution. Available in analog and digital version. The analog system can also be used in combination with an analog Rearview. (page 17)

**CornerEye**

CornerEye offers a complete and detailed view of 270° of the area around the rear of an excavator. The system delivers HD digital image quality in real time.

**INFORMATION**

ISO 5006: 2006 Earth-moving Machinery Directive. The red line must be clearly visible to the operator.
Material Handler

- **Toolview**
  - Page 16
  - Clear view on a certain process when direct vision is not possible. This can also be used in combination with a analog Rearview. (page 16)

- **Rearview / HD**
  - Page 16
  - Not only safe reversing, but also good vision when turning the machine. Available in analog and digital version.

  **Recommendation:** Add RadarEye to increase safety & efficiency. (see page 32-33)

- **Sideview / HD**
  - Page 16
  - If you are continually turning, you cannot always see what is happening next to the machine. A Sidecam is then the solution. Available in analog and digital version.

  The analog system can also be used in combination with a analog Rearview. (page 16)

- **Toolview**
  - Page 16
  - Toolview provides good visibility to look over a load or the bucket.

- **RadarEye**
  - Page 16
  - RadarEye setting: Transparent visualization of the radar-zones on the display. (standard preset setting)

- **Crusher**
  - Page 16
  - Vision solutions

Vision solutions
**Rearview / HD**

Not only safe reversing, but also good vision when turning the machine. Available in analog and digital version. The analog system can also be used in combination with an analog Sideview. (page 20)

Recommendation: Add RadarEye to increase safety & efficiency. (see page 32-33)

**Sideview / HD**

If you are continually turning, you cannot always see what is happening next to the machine. A Sidecam is then the solution. Available in analog and digital version. The analog system can also be used in combination with an analog Rearview. (page 16)

**CornerEye**

CornerEye offers a complete and detailed view of 270° of the area around the cabin. The system delivers HD digital image quality in real time.

**Surroundview**

Surround view offers 360 degrees visibility surrounding a vehicle. It gives the driver maximum visibility on all sides of the truck via one central monitor. This is due to the camera images overlapping. Therefore the driver is able to see every person and object around his vehicle.

Contact Orlaco for more information regarding Surround view.

**Roundview**

The Roundview Set guarantees good all round vision. The set consists of a Rearcam, Frontcam and two Sidecams.

Recommendation: Add RadarEye to increase safety & efficiency. (see page 32-33)
Toolview
Clear view on a certain process when direct vision is not possible. This can also be used in combination with an analog Rearview. (page 18)

Rearview / HD
Not only safe reversing, but also good vision when turning the machine. Available in analog and digital version. The analog system can also be used in combination with Toolview. (page 16)

Bulldozer
Rearview / HD
Not only safe reversing, but also good vision when turning the machine. Available in analog and digital version. The analog system can also be used in combination with Toolview. (page 16)

Motor grader
Toolview
Clear view on a certain process when direct vision is not possible. It can also be used in combination with an analog Rearview. (page 16)
Not only safe reversing, but also good vision when turning the machine. Available in analog and digital version.

Recommendation:
Add RadarEye to increase safety & efficiency. (see page 32-33)
Set Rearview / Sideview
1. Camera FAMOS 118°
   0171110 - page 23
2. Monitor 7” RLED, including adjustable bracket 5.2 inch
   0208672 - page 28
Cables
   To be ordered separately, see page 26-27.

Set HD Rearview / Sideview
1. Camera HMOS 120° incl. bracket
   0185010 - page 25
2. Monitor HLED 10” MR1
   0224000 - page 28
3. Digicoax cable
   Make your choice - page 27

Set Rearview
1. Camera FAMOS 118°
   0171110 - page 23
2. Monitor 7” RLED, including standard bracket
   0208681 - page 28
Cables
   To be ordered separately, see page 26-27.

Set Rear-Sideview
1. Camera FAMOS 118° (2x)
   0171110 - page 23
2. Monitor 7” RLED 4Cam, including adjustable bracket 5.2 inch
   0208612 - page 28
Cables
   To be ordered separately, see page 26-27.
### RadarEye expansion set for SRD Monitor (see above)

You can easily expand your Orlaco SRD Monitor system with our active detection option (see RadarEye beneath).

1. **Camera FAMOS 118° (4x)**
   - 0171110 - page 23
2. **Monitor 7” RLED 4Cam CAN SRD, incl. adjustable bracket 5.2 inch**
   - 0200110 - page 28
3. **Switcher UNI**
   - 0404040 - page 29

*Cables*

To be ordered separately, see page 26-27.

### SRD Monitor (with 4p and 7p connectors)

You can easily expand your Orlaco SRD Monitor system with our active detection option (see RadarEye beneath).

1. **Camera FAMOS 118° (4x)**
   - 0171110 - page 23
2. **Monitor 7” RLED 4Cam CAN SRD, incl. adjustable bracket 5.2 inch**
   - 0200110 - page 28
3. **Switcher UNI**
   - 0404040 - page 29

*Cables*

To be ordered separately, see page 26-27.

### Set Toolview

1. **Camera FAMOS 80°**
   - 0171130 - page 23
2. **Monitor 7” RLED, including adjustable bracket 5.2 inch**
   - 0208672 - page 28

*Cables*

To be ordered separately, see page 26-27.

### Set Rear-Toolview

1. **Camera FAMOS 118° (Rear)**
   - 0171110 - page 23
2. **Camera FAMOS 80° (Tool)**
   - 0171130 - page 23
3. **Monitor 7” RLED 4Cam, including adjustable bracket 5.2 inch**
   - 0208612 - page 28

*Cables*

To be ordered separately, see page 26-27.
Three hundred and sixty degrees of visibility around a vehicle increases safety. The dimensions of a truck make it hard for a driver to get a complete overview of what is happening around his vehicle. Surround view gives him that overview. While manoeuvring, Surround view gives the driver maximum visibility on all sides of the truck via a single central monitor. The camera images overlap, allowing the driver to see every person and all objects around his vehicle. This greatly increases safety and efficiency. At street level, the surrounding area of the vehicle is clearly visible, even the corners. People and objects captured on the camera are shown in real size. This gives the driver an immediate, clear overview of the situation.

Surround view can be applied on any type of vehicle.
- Increased visibility when manoeuvring in narrow spaces and busy areas.
- Images available: 180°, 270° or 360°.
- Surround view offers an overview of objects and people around a vehicle. They are always visible, thanks to overlapping camera images.
- Suitable for both 7” and 12” Orlaco monitors.
- Operating temperature between -40° and +85°C.
- A maximum of four different overviews can be programmed.
- No time-consuming calibration of cameras.
- Surround view can be designed and programmed in accordance with the customer’s wishes.
- Contact Orlaco for more information and advice.
Set CornerEye
1. Set HMOS camera with CornerEye bracket 0185610 - page 22
   a. Camera HMOS 180°
   b. CornerEye Bracket
2. Monitor HLED 10” MR1 02240001 - page 28
3. Monitor Bracket A pillar 0402610 - page 38
4. Digicoax cable
Make your choice - page 27

CornerEye delivers a real-time field of vision of 270°

- HD camera and 10” HD monitor
- 270° field of vision
- Real time: zero latency
- Shock and vibration proof
- Ruggedized design
- Designed to comply with automotive requirements
- Camera IP69K watertight
- Short mounting time
- Custom made bracket per brand on request

Get excellent view on blind spots around heavy equipment with the revolutionary CornerEye camera monitor system. Ultimate digital technology and an effective application deliver a unique vision solution. The system has a wide angle lens that, combined with the latest technology, delivers a field of vision of 270°. An ideal solution for rear or side view on a vehicle.

0185610  Set HMOS with bracket
- Including camera HMOS 180°

PRODUCTS

CornerEye delivers a real-time field of vision of 270°

- HD camera and 10” HD monitor
- 270° field of vision
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Get excellent view on blind spots around heavy equipment with the revolutionary CornerEye camera monitor system. Ultimate digital technology and an effective application deliver a unique vision solution. The system has a wide angle lens that, combined with the latest technology, delivers a field of vision of 270°. An ideal solution for rear or side view on a vehicle.

0185610  Set HMOS with bracket
- Including camera HMOS 180°

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 FAMOS Compact Cameras

- Next generation CMOS sensor
- Light sensitivity 0.05 lux
- Integrated Safety ticker to show that camera is running and active
- Optimized impact- and vibration-resistance
- Chemically hardened lens
- Automotive molding-filled housing, watertight IP69K according to DIN 40050-9
- Improved EMC-standards
- Operating temperature between -40°F to +185°F
- 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 watertight molded 4p male connector

Cameras FAMOS

<table>
<thead>
<tr>
<th>Type</th>
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<th>Art. no. NTSC</th>
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<tr>
<td>129°</td>
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<td>0171100</td>
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<tr>
<td>170°</td>
<td>0171070</td>
<td>0171170</td>
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</table>
Cameras FAMOS MIRROR SW1
Camera with mirrored image and guiding lines.

<table>
<thead>
<tr>
<th>Type</th>
<th>Art. no. PAL</th>
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</thead>
<tbody>
<tr>
<td>102° MIRROR</td>
<td>0171250</td>
<td>0171260</td>
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</tbody>
</table>

- UV-transparent front cover

Cameras FAMOS IR LED
Day-night camera including 4 High Power Infrared LEDs 850nm. The IR LED’s will be automatically activated. Based on the output of the CMOS sensor the IR illumination value will be set to ensure the best possible image.

<table>
<thead>
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</thead>
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<td>118°</td>
<td>0171600</td>
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<tr>
<td>118° MIRROR</td>
<td>0171900</td>
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</table>

- With 0,5m cable including a digicoax waterproof molded 4p male connector

Cameras AMOS CPH
Robust camera for mounting on a vulnerable position.

<table>
<thead>
<tr>
<th>Type</th>
<th>Art. no. PAL</th>
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</thead>
<tbody>
<tr>
<td>51°, 0.66ft cable</td>
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<tr>
<td>51°, 1.97ft cable</td>
<td>0199700</td>
<td>0199730</td>
</tr>
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</table>

For Zoom-, Thermal image- or Pan & Tilt cameras, please visit www.orlaco.com.

The additional qualifications of our High Definition Digital Cameras
- High resolution CMOS rolling shutter
- 1280 x 960 video image
- Excellent impact- and vibration-resistance
- Light sensitivity 0.1 lux
- Excellent EMC performance 100 V/m

Cameras AMOS ATVC Set (All Time Vision Camera)
Self cleaning camera system by a rotating glass tube and fluid.

<table>
<thead>
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<th>Type</th>
<th>Art. no. PAL</th>
<th>Art. no. NTSC</th>
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<tbody>
<tr>
<td>118° MIRROR</td>
<td>0400160</td>
<td>0400260</td>
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</table>

- 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

Cameras AMOS CPH
Low latency, high definition ethernet camera specifically designed for onboard computer systems.

<table>
<thead>
<tr>
<th>Type</th>
<th>Art. no.</th>
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<td>120°</td>
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<tr>
<td>180°</td>
<td>0186000</td>
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</tbody>
</table>

- Image streaming in MJPEG or H.264
- Total system latency less than 100ms
- Communication according to ISO 17215 protocol

Cameras EMOS
Low latency, high definition ethernet camera specifically designed for onboard computer systems.

<table>
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<tr>
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<tr>
<td>30°</td>
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<tr>
<td>120°</td>
<td>0186010</td>
</tr>
<tr>
<td>180°</td>
<td>0186000</td>
</tr>
</tbody>
</table>

- Image streaming in MJPEG or H.264
- Total system latency less than 100ms
- Communication according to ISO 17215 protocol
The advantages of Orlaco cables
- All cables are specially developed by Orlaco
- Special cables are available for various circumstances such as severe off-road conditions
- Resistant to oil and petrol
- Watertight cable connectors
- Operating temperature -40°F to +185°F

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 3.3 ft (1 m)
- 0301870 6.6 ft (2 m)
- 0301890 9.8 ft (3 m)
- 0301880 16.4 ft (5 m)
- 0301910 24.6 ft (7.5 m)
- 0301930 26.2 ft (8 m)
- 0301950 29.5 ft (9 m)
- 0301900 36.1 ft (11 m)
- 0301920 52.5 ft (16 m)
- 0301940 68.9 ft (21 m)
- 0301990 131.2 ft (40 m)

Including 7p molded connectors:
- 0304420 1.6 ft (0.5 m)
- 0302820 3.3 ft (1 m)
- 0304260 6.6 ft (2 m)
- 0304410 19.7 ft (6 m)
- 0304610 36.1 ft (11 m)
- 0304620 52.5 ft (16 m)
- 0304482 68.9 ft (21 m)
- 0301811 36.1 ft (11 m)
- 0304451 39.4 ft (12 m)
- 0301731 45.9 ft (15 m)
- 0301831 65.6 ft (20 m)
- 0305021 65.6 ft (20 m)
- 0301811 36.1 ft (11 m)
- 0304451 39.4 ft (12 m)
- 0305021 65.6 ft (20 m)
- 0301831 65.6 ft (20 m)

Armored cable especially for severe off-road conditions
This cable offers good protection against severe conditions. This is due to the additional internal galvanised braided steel wire armor. Attention: if cable is constantly moving as on a boom or hinged construction, please use the dynamic cable.
- For EMC 100V/m

Including 4p molded connectors:
- 0303342 4.9 ft (1.5 m)
- 0303352 9.8 ft (3 m)
- 0303472 16.4 ft (5 m)
- 0303362 24.6 ft (7.5 m)
- 0303372 29.5 ft (9 m)
- 0303482 36.1 ft (11 m)
- 0303492 52.5 ft (16 m)
- 0305021 65.6 ft (20 m)
- 0305011 91.9 ft (28 m)

Including 7p connectors:
- 0304460 9.8 ft (3 m)
- 0304470 13.1 ft (4 m)
- 0304480 16.4 ft (5 m)
- 0304490 26.2 ft (8 m)
- 0304560 29.5 ft (9 m)
- 0304570 32.8 ft (10 m)
- 0304580 36.1 ft (11 m)
- 0304590 55.8 ft (17 m)

Dynamic cable
Suitable for dynamic use, for instance for a Toolcam mounted on an arm or dipper stick, an excavator boom or in the between the moving part of an articulated dumptruck.
- Soft cover with small bend radius

Including 4p molded connectors:
- 0304371 1.6 ft (0.5 m)
- 0304281 3.3 ft (1 m)
- 0305341 11.5 ft (3.5 m)
- 0304341 16.4 ft (5 m)
- 0304381 19.7 ft (6 m)
- 0304391 26.2 ft (8 m)
- 0304431 29.5 ft (9 m)
- 0304441 32.8 ft (10 m)
- 0301811 36.1 ft (11 m)
- 0304451 39.4 ft (12 m)
- 0301731 45.9 ft (15 m)
- 0301831 65.6 ft (20 m)

Including 7p connectors:
- 0304460 9.8 ft (3 m)
- 0304470 13.1 ft (4 m)
- 0304480 16.4 ft (5 m)
- 0304490 26.2 ft (8 m)
- 0304560 29.5 ft (9 m)
- 0304570 32.8 ft (10 m)
- 0304580 36.1 ft (11 m)
- 0304590 55.8 ft (17 m)

Digicoax cable
Designed for use with HMOS cameras.

Including digicoax molded connectors:
- 0311000 3.3 ft (1 m)
- 0311010 6.6 ft (2 m)
- 0311020 9.8 ft (3 m)
- 0311030 16.4 ft (5 m)
- 0311040 26.2 ft (8 m)
- 0311050 29.5 ft (9 m)
- 0311070 36.1 ft (11 m)
- 0311080 52.5 ft (16 m)
- 0311090 68.9 ft (21 m)
- 0311100 131.2 ft (40 m)
The possibilities offered by Orlaco LED monitors

- Automotive 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
- Brightness automatically adjusts to the ambient light
- Full On-Screen-Display (OSD) in 13 languages
- Water tight molded connectors
- Multiple view options for 12” monitor

Monitor 7” RLED (incl. 132mm bracket)
Monitor 12” RLED (incl. 190mm bracket)
Monitor 10” HLED

Monitors RLED

- High resolution pixel WVGA 800xRGbX480
- Input Voltage 12...60V/DC +/-10%

<table>
<thead>
<tr>
<th>Type</th>
<th>Video cable / connector</th>
<th>Power cable</th>
<th>Bracket</th>
<th>Art. no.</th>
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<tbody>
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<td>7” 4Cam</td>
<td>6.6ft Y-split / 4p female</td>
<td>6.6ft open wired</td>
<td>5.2 inch</td>
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<td>7”</td>
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<td>13.1ft open wired</td>
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<tr>
<td>7” Serial</td>
<td>19.7ft / 7p female</td>
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<td>7” CAN SRD</td>
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<td>3.3ft open wired</td>
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<td>7.5 inch</td>
<td>0411200</td>
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</table>

4Cam Cable can be used to easily extend your system to display two cameras on one monitor or up to four cameras per monitor in combination with a Switcher. (see page 29)

CAN Two dedicated wires are suitable for CAN bus communication.

CAN SRD Specially designed for RadarEye systems. (see page 32-33)

Serial For serial connection (Zoom cameras, MultiView box).

Monitors HLED

- High resolution pixel WXGA 1280xRGbX800
- Input Voltage 12V / 24V/DC
- IP67 according to IEC 60529
- Integrated sun visor

<table>
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<tr>
<th>Type</th>
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<th>Power cable</th>
<th>Bracket</th>
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<td>Monitor 10” HLED</td>
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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
- Connect up to 4 cameras (PAL or NTSC) to a third party monitor
- Including 12.6ft power cable
- Please contact Orlaco for the appropriate cables

040400 Switcher UNI
- Waterproof IP54 according to IEC 60529
- 4p output for monitor

0404060 Switcher Serial
- Waterproof IP67 according to IEC 60529
- 7p output for monitor
- Only in combination with a Serial monitor
- Possibility to connect 1 serial Orlaco camera (AF Zoom)

0404300 Switcher 4Cam (for third party monitor)
This video switcher for third party monitors has 4 video inputs and 1 video output
- Connect up to 4 cameras (PAL or NTSC) to a third party monitor
- Including 12.6ft power cable
- Please contact Orlaco for the appropriate cables

0004601 Power supply 9-36V
- Maximum cable length 656ft
- Power input 9-36V/DC
- Power output 12V/DC

0407001 Orlaco video distributor
For connecting a second and third Orlaco monitor.
- 7 - 32 V/DC
- Cables and connectors are not included
**Digital video recorder**

**0000300 DVR one channel**
- Digital video recorder with one camera input and one video output
- Can be used with a compact camera (4p) or serial camera (7p)
- Video loop function
- 9-30V/DC
- Automatic timestamp
- Including 32GB SDHC-card for max 72 hours of storage and SD-card reader

**0000250 DVR Multi view**
- Digital video recorder with four camera inputs and one video output with multiview options.
- Suitable for compact cameras (4p)
- Including 128GB 80 MB/s SDXC-card for max 72 hours of storage

**0000260 DVR 4Cam**
- Digital video recorder with four camera inputs and four video outputs.
- Suitable for compact cameras (4p)
- Including 128GB 80 MB/s SDXC-card for max 72 hours of storage

**Orlaco IP SmartView**

**0060310 Licence Smartview software**
- View and control of cameras over TCP/IP or a local computer network.
  - Support H.264 digital video codec
  - Multiple display settings (full, split, quadviews, 8 and 16 cams on 1 screen)
  - Individual camera presets and master presets for controlling multiple PTZ simultaneously
  - Sequential camera switcher
  - Motion detection
  - Supplied on USB memory stick
  - Please contact Orlaco for further information

**Multiview**

- Stainless steel housing
- Serial Orlaco Monitor needed

**0405100 MultiView box II**
- 4 camera inputs (4x Compact Camera)

**0405110 MultiView box II**
- 4 camera inputs (3x Compact Camera 1x AF-Zoom Camera)

**0405300 Quad Box II 4Cam**
- 4 camera inputs (4x Compact Camera)
- Stainless steel housing
- Serial Orlaco Monitor needed
- Including powercord

**Push button**

**8975760 Push button yellow**
- For manually switching between cameras.

**Joystick**

**0506500 Joystick**
- Built-in, IP40
- Operating temperature between -22°F to +167°F
- Telematic
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 driver’s 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
• 6.6...65.6ft detection area, divided in 5 equally sized segments
• Separation distance: 3.3-13.1ft (configurable)
• Antenna beam horizontal: 70°(typ.), vertical: 11°(typ.)
• Operating temperature between -40°F to +185°F
• Obstacle reaction delay 50ms
• Orlaco Monitor CAN SRD is required (see page 28)
• RadarEye can be extended with multiple sensor and camera units for all around detection and visibility
• Please contact Orlaco for advice and installation

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 3.3ft

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 16.4ft (5 m) 0301060 32.8ft (10 m)
0301070 45.9ft (15 m) 0301120 65.6ft (20 m)
0301130 82.0ft (25 m) 0301140 98.5ft (30 m)

Cable M12 Master-Slave Red
Connection cable between master SRD sensor and slave SRD sensor.
0301080 0.8ft (0.25 m) 0301090 3.3ft (1 m)
0301030 13.1ft (4 m) 0301040 26.2ft (8 m)
0301090 52.5ft (16 m)

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

RadarEye 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.
Spectrum Scanner wireless video transmitter & receiver
- Including power cable and two adjustable brackets for transmitter and receiver
- 8 video channels
- Full On Screen Display (OSD) functionality for system settings
- Please contact your dealer for further advice

0004061 RoundMax 150
- Omnidirectional antenna with horizontal orientation
- Maximum range 492ft (dependent on surroundings)

0004091 LineMax 300
- Directional antenna with vertical orientation
- Maximum range 984ft (dependent on surroundings)

Split cable (6.6ft)
0303781 Y-Split cable UNI RLED
- With two 4p female connectors (video) and open wire cable (power)
- For connections 2 to 4 cameras (with Switcher)

Cable per metre (without connectors)
1220200 Coax cable 75 OHM RG59
Any required connectors can be ordered separately. (page 35)

Adapter cables
0304000 Interface cable 4p female - 4p female
0304050 Interface cable 4p male - 4p male
0304210 Interface cable 4p female - 7p male
0304220 Interface cable 4p male - 7p female
0303860 Interface cable 4p female - BNC
0303770 Adapter cable 4p female - Cinch/RCA (if OEM monitor is used)
0304090 Adapter cable HMI monitor Fendt

Connectors
1310841 Connector 4p female Gold
- Recommended for multicable
1312001 Connector 4p male Gold
- Recommended for multicable
1310850 Connector 4p female PG9 Gold
- Recommended for dynamic and armored cable
1312050 Connector 4p male PG9 Gold
- Recommended for dynamic and armored cable

Bulkhead Connectors
- Suitable for lead-through on bodywork
0357011 Bulkhead connector 4p
0357051 Bulkhead connector 7p
Mounting means
0402310 Aerodynamic cover + nozzle
Specially designed for the Compact Camera. The nozzle allows high pressure cleaning of the camera lens.
• Hose and water tank are not included
• Stainless steel

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

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

0402250 Camera extension 6.1 inch

0402270 Camera extension 9.8 inch

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.

0402450 Camera Housing Dome
Ceiling mount for Compact Camera.
• Aluminium housing
• Including mounting hardware
• Compact Camera is not included

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 are not included

0403400 Compact Camera magnet bracket
For quick mounting of Compact Camera on steel profiles.

8400610 Compact Camera bracket
Assembly set for Compact Camera.

2015750 Ball joint with connection plate

2015710 Ball joint 3/8" thread
**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 compliance. 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.

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**Products**

- **Ball joint double**
  - 2015900

- **Adjustable mounting bracket 3/8” UNC**
  - 2015700
  - Length 5.1 inch

- **Adjustable mounting bracket**
  - 2015500
  - Length 5.2 inch

- **Adjustable mounting bracket**
  - 2015600
  - Length 7.5 inch

- **Arm component 3.5 inch**
  - 2015510

- **Arm component 5.7 inch**
  - 2015800

- **Monitor Bracket A Pillar**
  - 0402610
  - Suitable for Monitor 10” HLED
It is Orlaco's viewpoint that optimal vision around every vehicle and vessel should be the norm. It provides safety, comfort, efficiency and less damage. **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**
- **DEFENSE**

Check our website for all our brochures (pdf).