

**Vision is  
our mission®**



**DEFENSE  
VISION SOLUTIONS**

See more  
Work more

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Select  
your  
solution

### Why Orlaco?

Welcome to the Orlaco product brochure. 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 brochure 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.

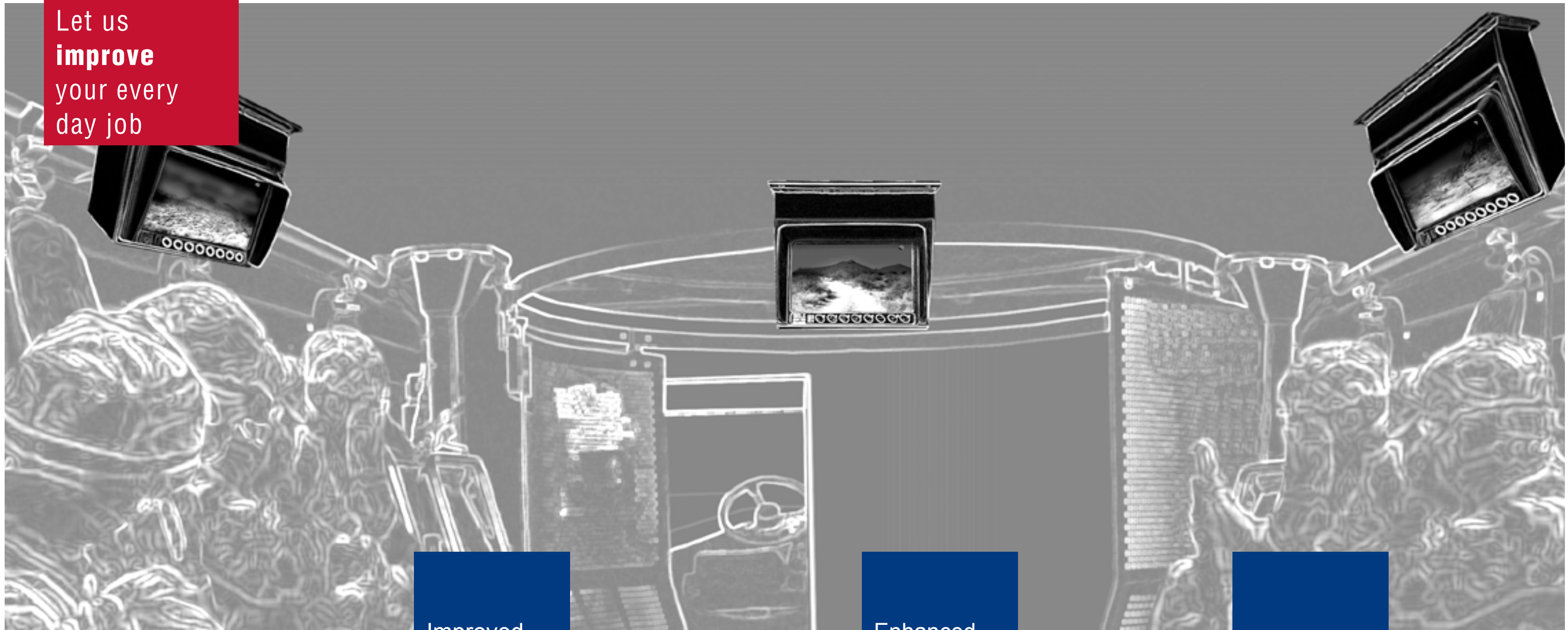
On behalf of the entire team,  
Henrie van Beusekom  
Executive Director Orlaco



That's  
why!



Let us  
**improve**  
your every  
day job



### Improved Safety and Efficiency

Military vehicles are complex machines that require clear vision. An instant overview that allows the operation to progress smoothly and safely. Especially when the vehicles are maneuvering in small alleys and crowded environments. Drivers have minimal vision around the vehicle, and that is why it is essential to solve large blind spots in a professional manner. This is where Orlaco's camera monitor solutions could help to improve your operational efficiency and safety. Together with our IR NightView cameras and illumination, the driver can analyze the overall situation and operate the vehicle faster and more efficiently. As a Dutch Manufacturer Orlaco is also your Offset partner.



Why Orlaco

### Enhanced Ergonomics and Comfort

At Orlaco, we understand that military vehicle drivers are required to take in what is happening around the vehicle at all times. Vehicles which mostly have very small windows and any number of blind spots. The driver has to turn their body this way and that to get a relative overview the situation, 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 then feels more safe, secure and in control of the vehicle, which could reduce stress and provide comfort.

### Certified Quality

Quality always wins. Orlaco lies a heavy focus on customer satisfaction through servicing and consistent manufacturing of high quality products in various custom designed formats. Quality control is an important priority at Orlaco. We work at the topmost achievable automotive levels within **TS16949, ISO9001 with AQAP and ISO14001** certification. By investing in continuous improvement, we aim for long term, satisfied customers. We firmly believe that compatibility in products, systems, and operations is a key component to creating a reliable partnership. All aspects of our products are documented clearly to achieve a zero-defect and first-time-right operation. As an official NATO Supplier (**NCAGE H1H24**) most of our quality products also include a Nato Stock Number.

Why Orlaco

**Frontview**

0400511 / 0400920 - PAGE 14 - 15

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.

**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 10 km per hour.
- It must be possible to see the class VI field of vision. (2 m in front of and 2m across the entire width of the cab)
- 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 39)

**Combined set****Front-Rearview**

0401971 - PAGE 15

The Frontview system can be expanded with a Rearview camera. A perfect complement to the driver's vision. It provides a comfortable field of vision to the front and rear of the truck.

**Rearview**

0401861 - PAGE 14

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.

**Surround view**

PAGE 18

Blind spots are a thing of the past thanks to surround view. Surround view offers 360 degrees visibility around a vehicle. When manoeuvring through narrow streets or busy areas, surround view gives the driver maximum visibility on all sides of the truck via a single, central monitor. Because the camera images overlap, the driver is able to see every person and object around his vehicle.

Contact Orlaco for more information about surround view and the EU standards.

**INFORMATION**

Are you looking for something else? All kinds of configurations are possible! The systems described here can be combined to suit customers' requirements and can be expanded with additional cameras and monitors. Find out about the various options and configurations that are already in use and benefit from Orlaco's 25 years of experience!



For more information about our vision solutions for on road trucks: [check our website and download our other brochures \(pdf\)](#).



Rearview



PAGE 16

The monitor in the cab automatically switches over to this camera when you select a reverse gear, allowing you to reverse safely.



Rear IR Nightview



RNV1000 - PAGE 16

In infrared blackout situations Orlaco cameras (AMOS IR LED) will still give a perfect image. With the same color camera and with 850nm illumination you still can reverse safely.



Crew Space Awareness System



PAGE 17

APCs are increasingly being used for short Direct Action and short-duration strikes. The crew must be prepared for anything, and be aware of the environment and situation outside the vehicle. Therefore, cameras and displays are mounted throughout the cabin, to give the crew an all-round view.



Crew Space Awareness System IR Nightview



PAGE 17

Of course these actions do not just take place in daylight. The same awareness is needed in the dark. Our MILMOS COTS cameras and IR illumination provide the solution, along with integrated rear-view cameras for the driver.



INFORMATION

The Orlaco assortment includes COTS and many other vision solutions. The 0507300 (page 32) provides a small, highly robust civil IR illumination, available in 870nm with a reach of 40m and the IR LED cameras have a range of 15m. We can also provide switching, video distribution, and MultiView solutions in PAL or NTSC for your safety around the vehicle. Ask us about recording, zoom, thermal imaging, and ruggedized displays.

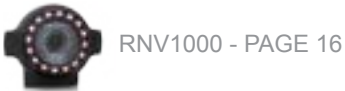
Rearview



The monitor in the cab automatically switches over to this camera when you select a reverse gear, allowing you to reverse safely.



Rear IR Nightview



In infrared blackout situations Orlaco cameras (AMOS IR LED) will still give a perfect image. With the same color camera and with 850nm illumination you still can reverse safely.



Surroundview



Instead of or in addition to using periscopes, you can gain a clear view around the vehicle. Mostly projected to a bigger display in quad mode with the possibility to switch to full screen view.

Surround IR Nightview



Of course these actions do not just take place in daylight. The same awareness is needed in the dark. Our MILMOS COTS cameras and IR illumination provide the solution, along with integrated rear-view cameras for the driver.





Frontview Zoomcam



PAGE 20

The zoomcam has a 480x zoom function, which enables proper facial recognition. This zoom consists of 40x optical zoom and 12x digital zoom. The footage can be saved on an SD card. The footage can be live streamed via a cloud service, a must for taking correct decisions from a distance.



Riot view



PAGE 20

During emergencies it is vital to have proper vision on the situation. The Riot View provides a broad field of vision. The integrated led light enables vision up to 25m ahead without blinding bystanders.



Rearview



RC2100 - PAGE 16

The monitor in the cab automatically switches over to this camera when you select a reverse gear, allowing you to reverse safely.



Surroundview recording



PAGE 19

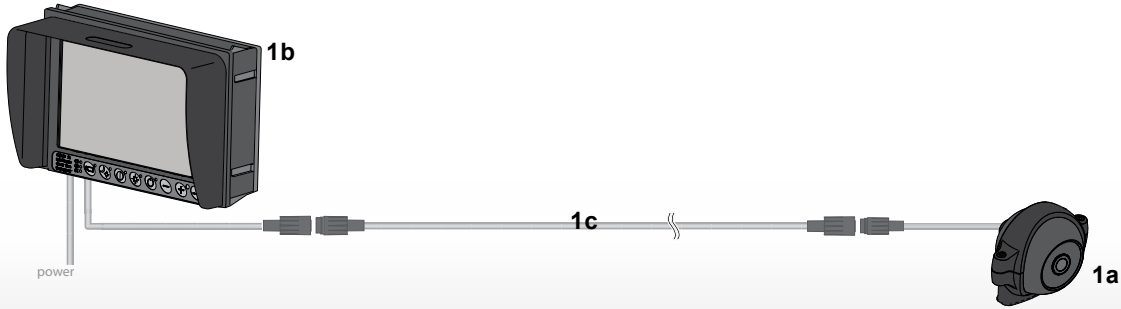
Of course these actions do not just take place in daylight. The same awareness is needed in the dark. Our AMOS IR LED cameras provide the solution.



Set **Frontview**, built-in

1. Frontview set, 24V  
0400511

- a. Camera FAMOS 118°
- b. Monitor 7" LEDD, 24V
- c. Multicable 5m

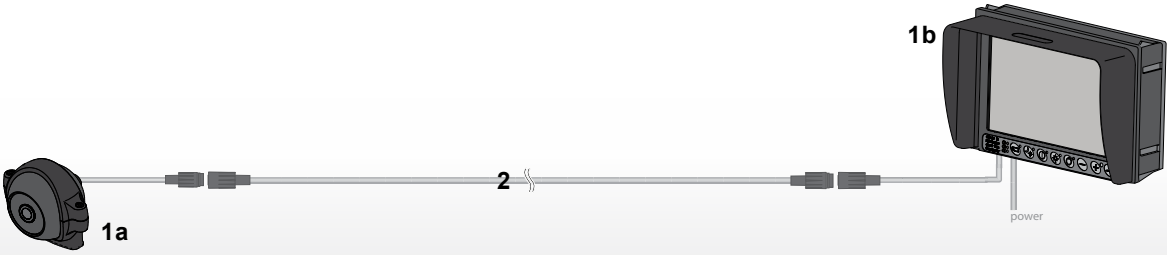


Set **Rearview**, built-in

1. Rearview set, 24V  
0401861

- a. Camera FAMOS 102°
- b. Monitor 7" LEDD, 24V

2. Multicable 16m  
0301920 - page 27

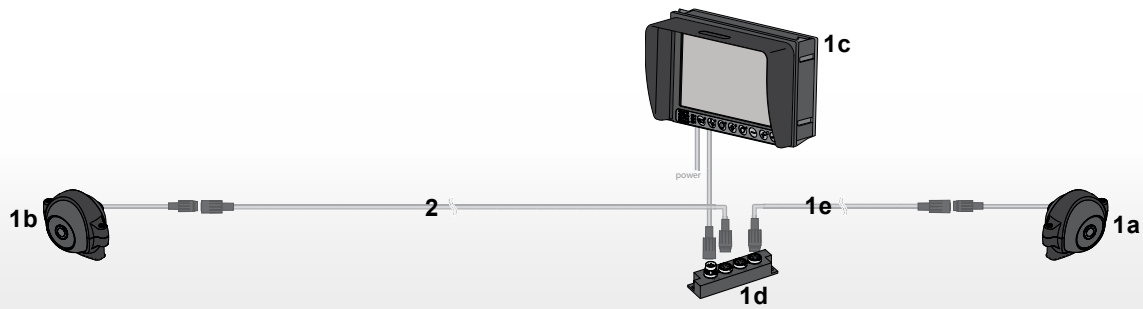


Set **Frontview-Rearview**, built-in

1. Front- and Rearview set, 24V  
0401971

- a. Camera FAMOS 118°
- b. Camera FAMOS 102°
- c. Monitor 7" LEDD, 24V
- d. Switcher UNI
- e. Multicable 5m

2. Multicable 16m  
0301920 - page 27

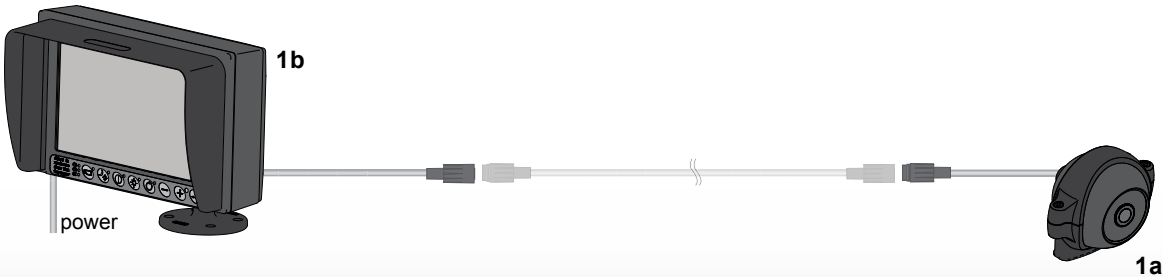


Set **Frontview**, stand-alone

1. Frontview set, 24V  
0400920

- a. Camera FAMOS 118°
- b. Monitor 7" RLED, 24V

Cables  
To be ordered separately, see page 27.





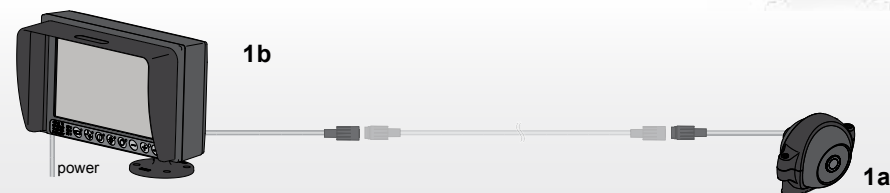
Set **Rearview**, stand-alone

1. Rearview set, 24V  
0400920

- a. Camera FAMOS 102°
- b. Monitor 7" RLED, 24V

**Cables**

To be ordered separately, see page 27.

Set **Frontview-Rearview**, stand-alone

1. Camera FAMOS 118°  
0171010 - page 22

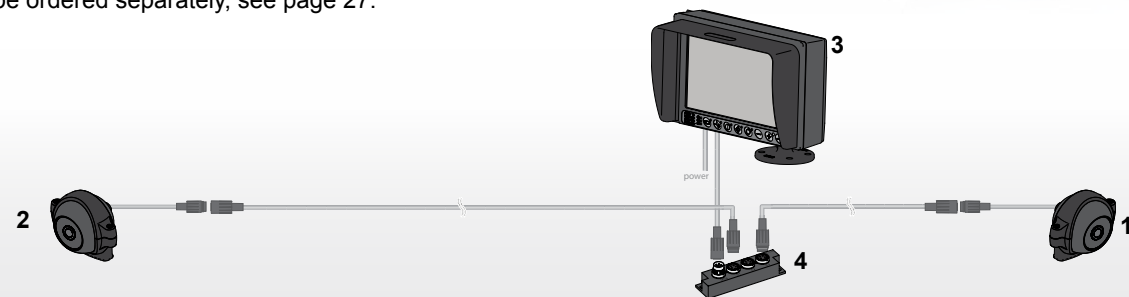
2. Camera FAMOS 102°  
0171020 - page 22

3. Monitor 7" RLED, 24V  
0223000 - page 25

4. Switcher UNI  
0404040 - page 30

**Cables**

To be ordered separately, see page 27.

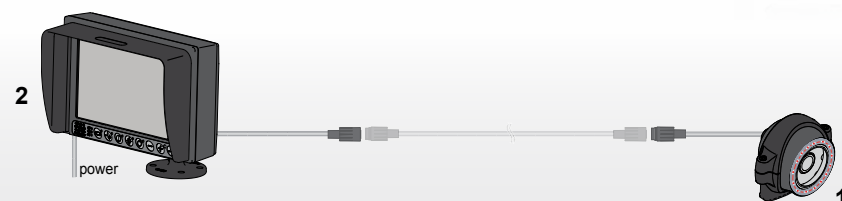
Set **Rear IR Nightview** RNV1000

1. Camera AMOS IR LED 118°  
0146210 - page 22

2. Monitor 7" RLED, 24V, including adjustable bracket 132mm  
0223000 - page 25

**Cables**

To be ordered separately, see page 27.

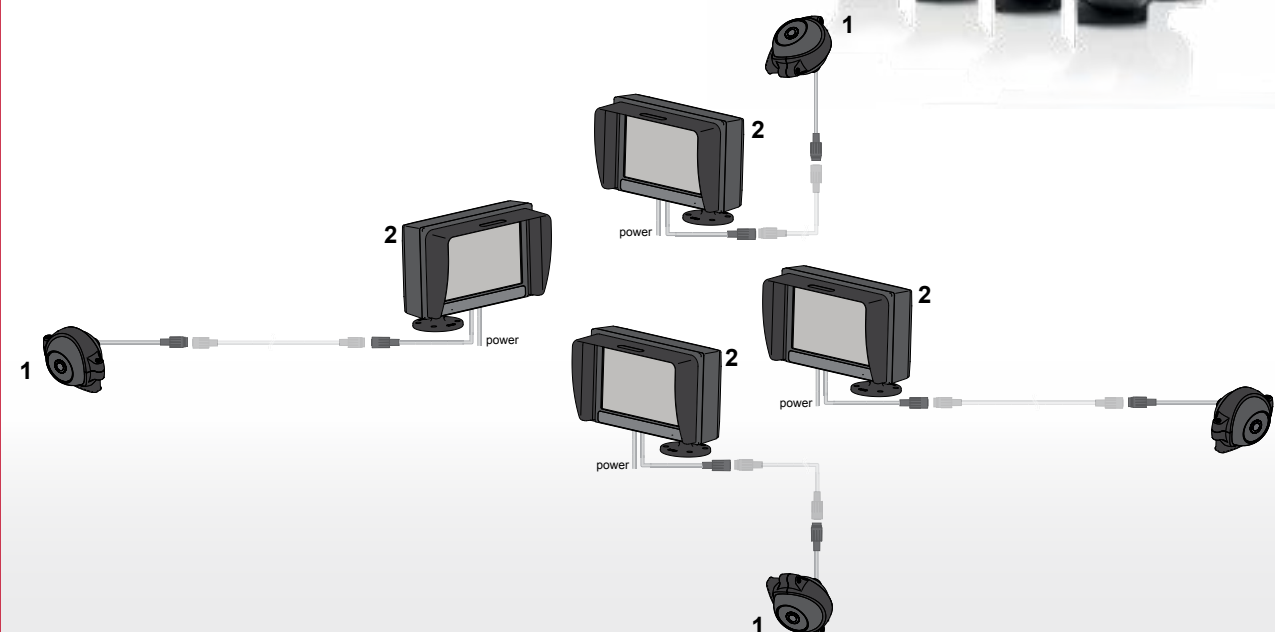
Set **Crew Space Awareness System**

1. Camera FAMOS 118° (4x)  
0171010 - page 22

2. Monitor 7" RLED, 24V, including standard bracket (4x)  
0223100 - page 25

**Cables (4x)**

To be ordered separately, see page 27.

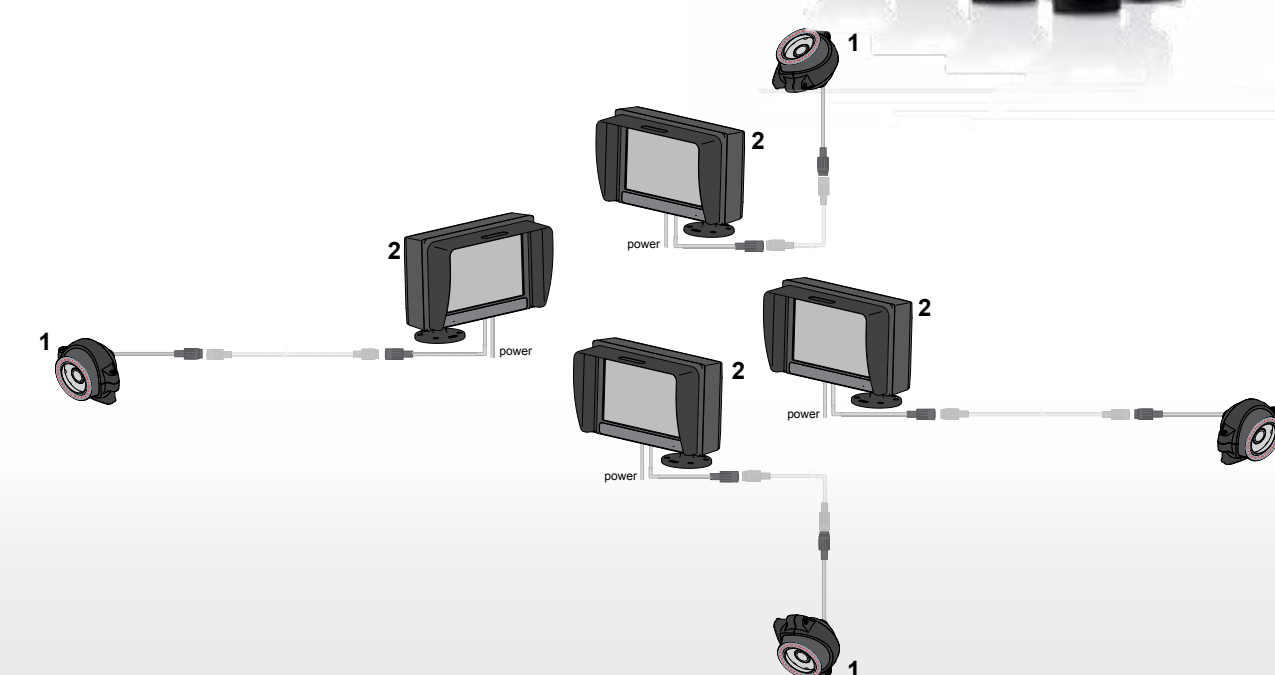
Set **Crew Space Awareness System IR Nightview**

1. Camera AMOS IR LED 118° (4x)  
0146210 - page 22

2. Monitor 7" RLED, 24V, including standard bracket (4x)  
0223100 - page 25

**Cables (4x)**

To be ordered separately, see page 27.



Set **Surroundview** AR6500M (0406511)

1. Camera FAMOS 118° (4x)

0171010 - page 22

2. Monitor 12" RLED Serial, including adjustable bracket 190mm

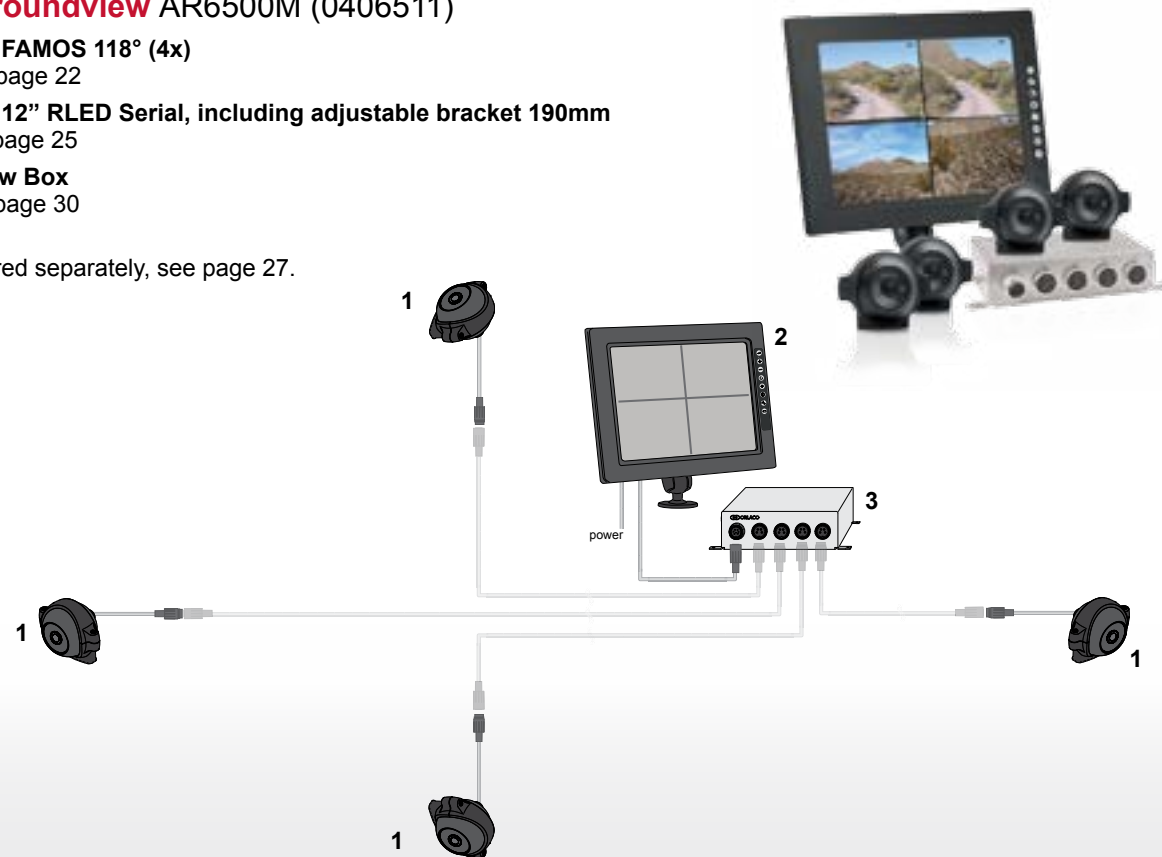
0411130 - page 25

3. MultiView Box

0404110 - page 30

**Cables**

To be ordered separately, see page 27.

Set **DEVS Safety**

1. AF-Zoom Camera PAL Serial

0103531 - page 23

2. Thermal Imaging Camera TIC 320 9Hz

0103730 - page 23

3. Camera AMOS IR LED 118°

0146210 - page 22

4. Monitor 12" RLED Serial, including adjustable bracket 190mm

0411130 - page 25

5. Pan &amp; Tilt unit 24V/DC

0507060 - page 34

6. Fastening plate

0507100 - page 34

7. Smartbox Stainless steel

0504730 - page 31

8. Keyboard handheld AF

0502610 - page 32

9. Easysolid recorder

0000200 - page 31

10. Multi cable 6m 7p

0304410 - page 27

11. Multi cable 16m

0301920 - page 27

12. Special cable 5m + Connectors

Set **Surround IR Nightview**

1. Camera MILMOS 118° (4x)

0146310 - page 22

2. Monitor 12" RLED, including adjustable bracket 190mm

0411130 - page 25

3. MultiView Box

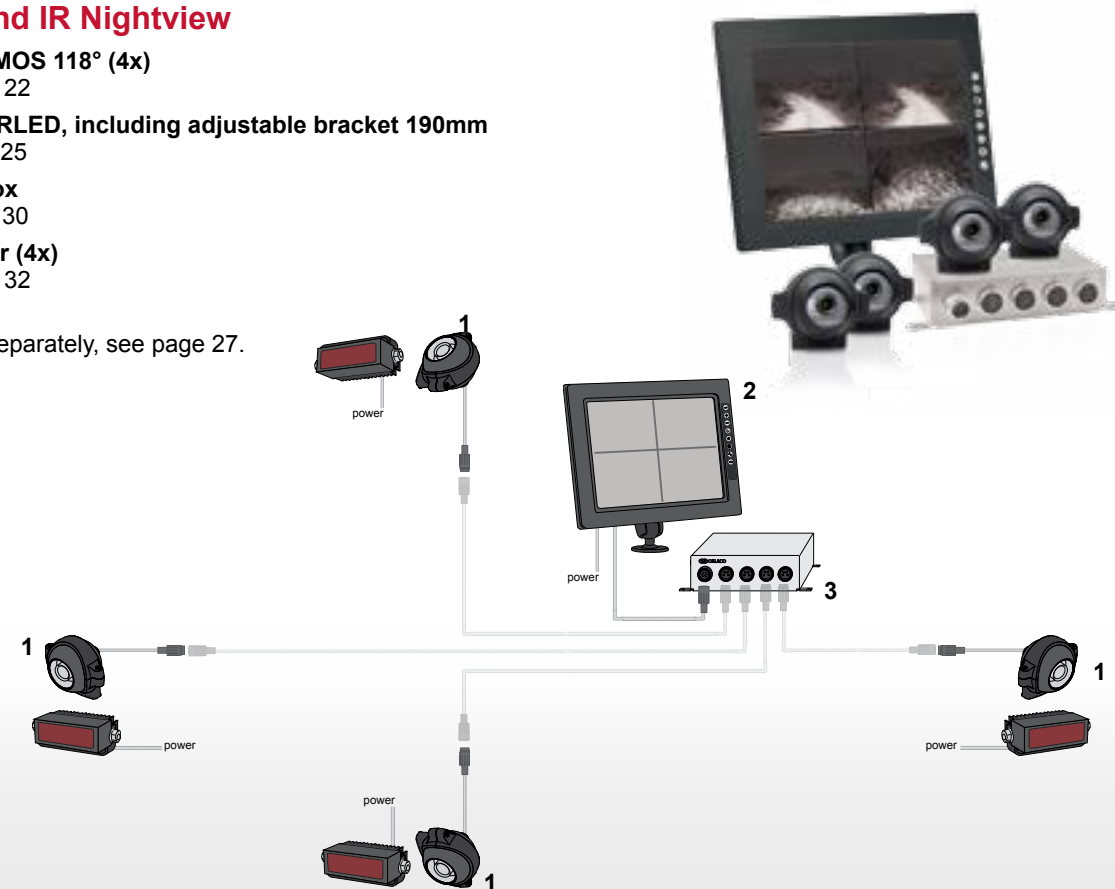
0404110 - page 30

4. IR illuminator (4x)

0507300 - page 32

**Cables**

To be ordered separately, see page 27.

Set **Surroundview Recording**

1. Camera AMOS IR LED 118° (4x)

0146210 - page 22

2. Monitor 12" RLED Serial, including adjustable bracket 190mm

0411130 - page 25

3. MultiView Box

0404110 - page 30

4. Video Distributor 4 Channel

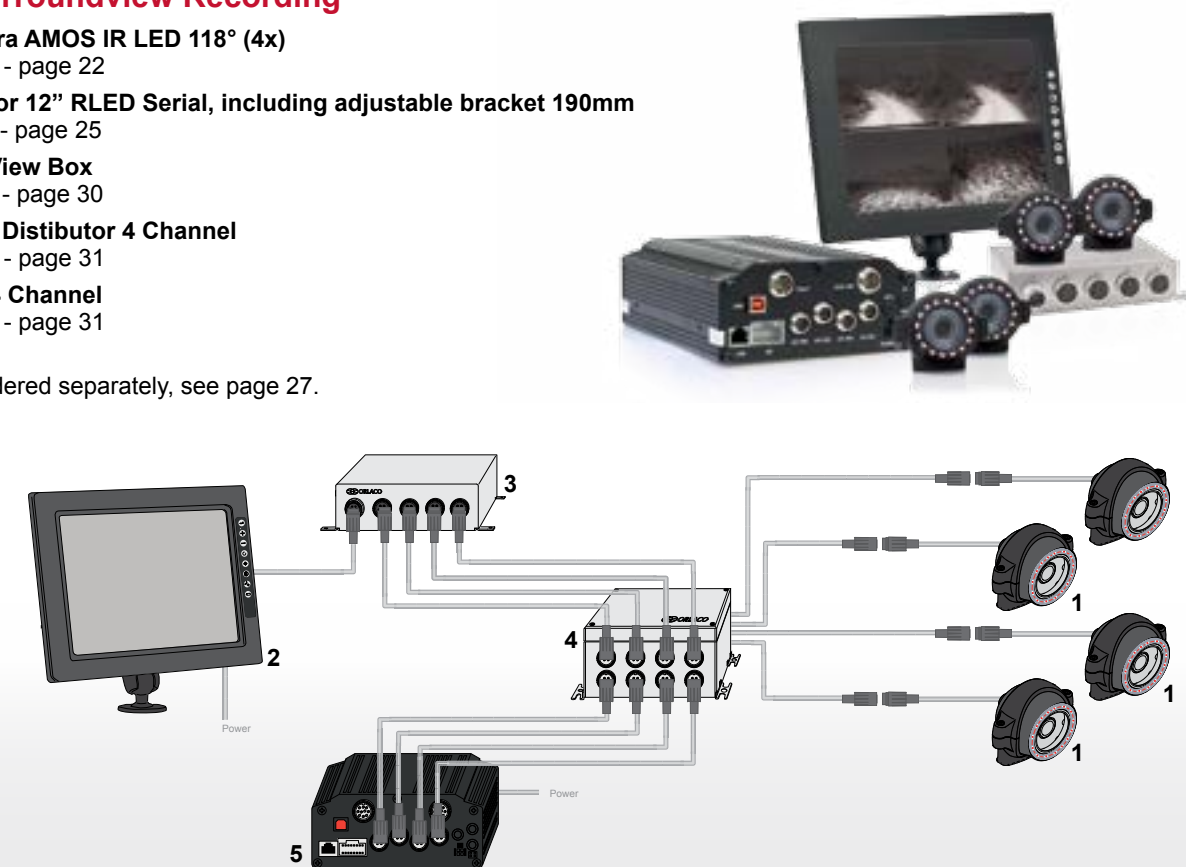
0407330 - page 31

5. DVR 4 Channel

0407100 - page 31

**Cables**

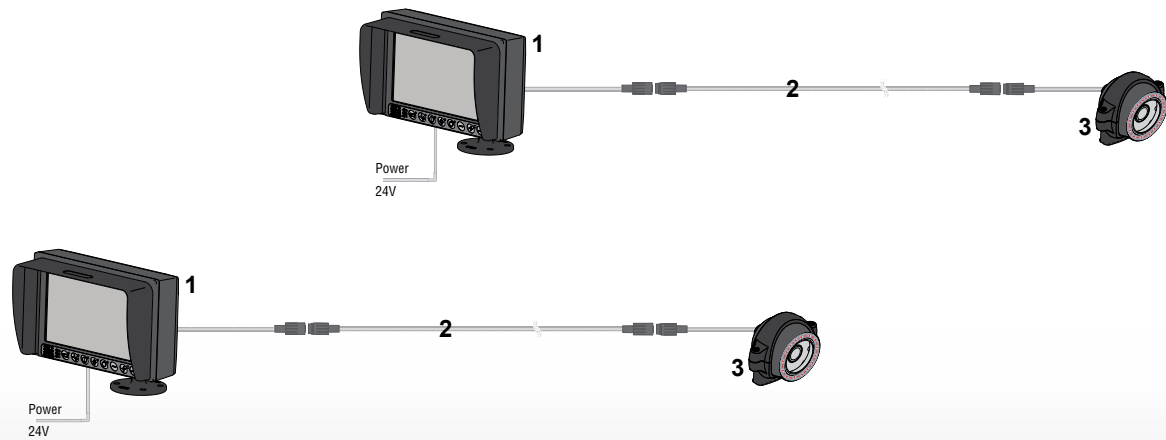
To be ordered separately, see page 27.





Riot view

- 1. Camera AMOS IR LED 69° (2x)  
0146200 - page 22
- 2. Monitor 7" RLED, 24V, including bracket (2x)  
0223000 - page 25
- 3. Multicable 16m (2x)  
0301920 - page 27



Set Frontview Zoomcam

- 1. AF-Zoom Camera PAL Serial  
0103531 - page 23
- 2. Monitor 12" RLED Serial  
0411130 - page 25
- 3. Pan & Tilt unit 24V/DC  
0507060 - page 34
- 4. Fastening plate  
0507100 - page 34
- 5. Smartbox Stainless steel  
0504730 - page 31
- 6. Easysolid recorder  
0000200 - page 31
- 7. Control panel mount  
0502620 - page 32
- 8. Joystick  
0506500 - page 33
- 9. IR illuminator  
0507300 - page 32
- 10. Multi cable 6m  
0304410 - page 27
- 11. Special cable 5m + Connectors
- 12. Special IR Illuminator Switch



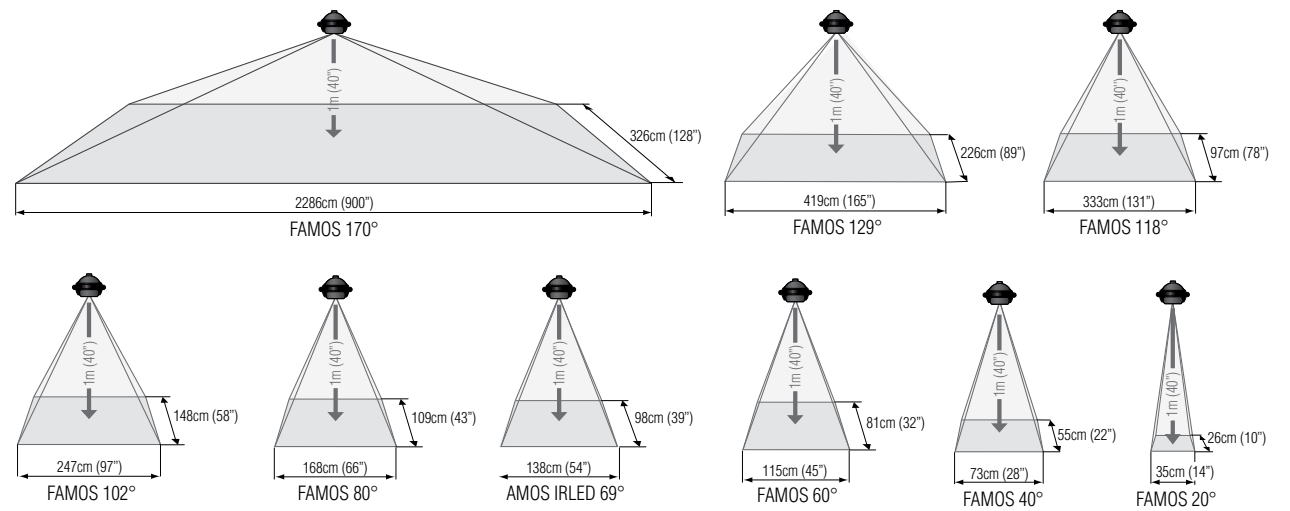
Or design your system yourself

- 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.oriaco.com](http://www.oriaco.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.

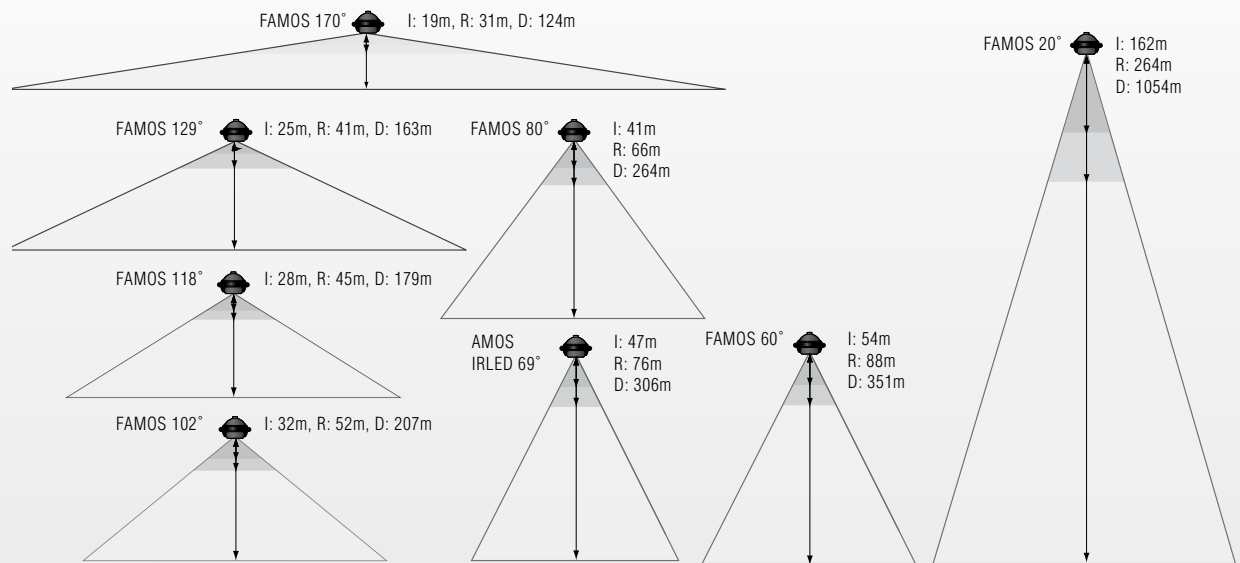
The qualifications of our AMOS and FAMOS Compact Cameras

- 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



Johnson's Criteria

The Johnson's criteria defines what is meant by "seeing a target". The minimum required resolution according to Johnson's criteria are expressed in terms of image resolution across a target, in terms of several tasks: Detection (4px), Recognition (16px) and Identification (26px). The measurements are based on optimal conditions with an object size of 2.3m x 2.3m and are theoretical. Practical situations may deviate.





Cameras FAMOS

Type	Art. no. PAL	Art. no. NTSC
20°	0171060	0171160
40°	0171050	0171150
60°	0171040	0171140
80°	0171030	0171130
102°	0171020	0171120
118°	0171010	0171110
118° MIRROR	0171210	0171230
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



Camera FAMOS MIRROR SW

Camera with mirrored image and guiding lines.

Type	Art. no. PAL	Art. no. NTSC
102° MIRROR	0171250	-



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



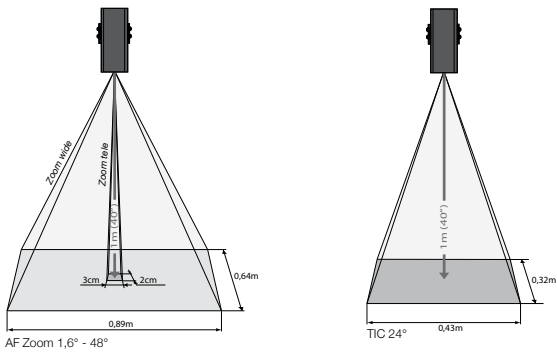
Cameras MILMOS

870 / 940nm IR sensitive camera.

Type	Art. no. PAL	Art. no. NTSC
69°	0146300	-
118°	0146310	-

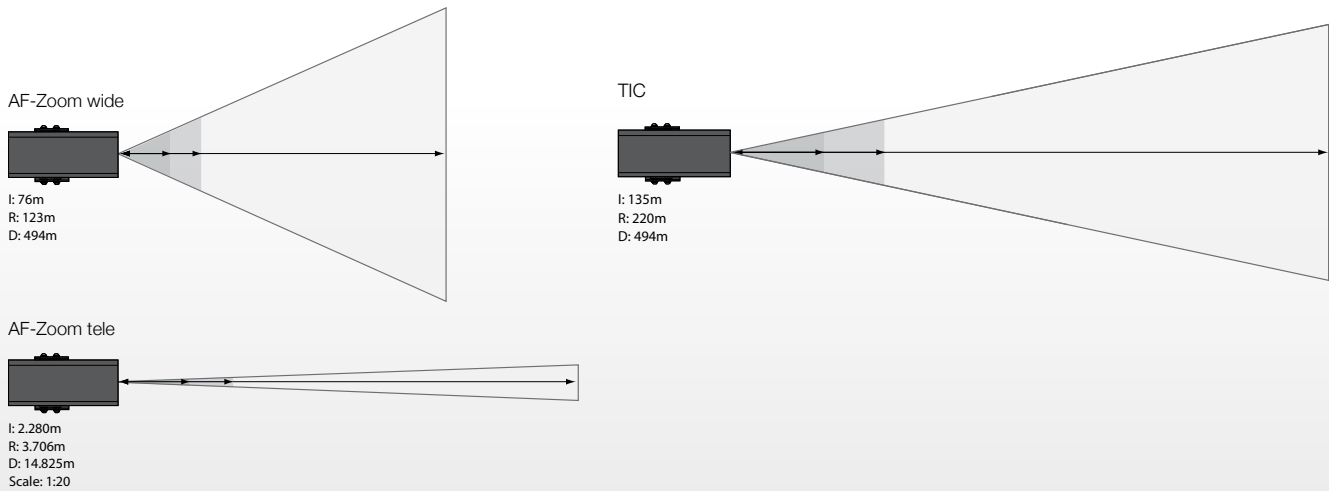
The qualifications of our Zoom Cameras

- Operating temperature between -40°C to +85°C
- Built-in brightness function to ensure better visibility on dark areas
- 480x zoom, 1.6° to 48° horizontal opening angle
- Built-in night vision function ( 0 lux mode)
- Nitrogen-filled housing, 100% watertight (IP 69K)
- Heated lens glass, therefore no problems with condensation or frost
- Shock and vibration resistant



Johnson's Criteria

The Johnson's criteria defines what is meant by "seeing a target". The minimum required resolution according to Johnson's criteria are expressed in terms of image resolution across a target, in terms of several tasks: Detection (4px), Recognition (16px) and Identification (26px). The measurements are based on optimal conditions with an object size of 2.3m x 2.3m and are theoretical. Practical situations may deviate.



AF-Zoom Cameras

- Including 6m multicable fitted with 7p connector (female)
- Power supply 12V - 24V/DC when cable is <50m
- Power supply 18V - 24V/DC when cable is >50m

0103531 AF-Zoom Camera Aluminium (PAL)



Thermal Imaging Cameras (TIC)

- Thermal Imager Uncooled VOx microbolometer
- Including 6m multicable fitted with 7p connector (female)
- 24° lens (up to 450m detection)
- 12-30V/DC max 8W
- 2x and 4x zoom

0103730 TIC Aluminium 9Hz







### Camera AMOS CFMC

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

- Waterproof camera IP69K according to DIN 40050-9
- Next generation CMOS sensor
- Including 1m multicable 4p connectors

0198710 Camera AMOS CFMC 51° (PAL)

0198700 Camera AMOS CFMC 51° + LEDs (PAL)

Camera with two integrated high bright LEDs.



### Camera AMOS CPH

Extremely robust small camera for mounting on a vulnerable position.

- Waterproof camera IP69K according to DIN 40050-9
- Fixed lens, angle of aperture: 51°
- Next generation CMOS sensor
- The camera has a 0,6m cable including a waterproof 4p connector male

0199700 Camera AMOS CPH 5100P (PAL)

0199730 Camera AMOS CPH 5100N (NTSC)

### 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 are 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

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.



### 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
- Watertight molded connectors

### Monitors 7" LEDD

- For double DIN slide opening in the dashboard

0221000 Monitor 7" LEDD, 24V

- 2m multi cable (power) open wired, 2m multi cable (video) including 4p molded female connector
- Input Voltage 18...30V/DC +/-10%

0208232 Monitor 7" LEDD Serial

- For serial connection (Zoom- , PTZ- or TIC cameras)
- 6m multicable (power) open wired, 6m multicable (video) including 7p female connector
- Input Voltage 12...60V/DC +/-10%

### Monitors 7" RLED

- User-adjustable 132mm mounting bracket

0223000 Monitor 7" RLED R2, 24V

- 2m multicable (power) open wired, 2m multicable (video) including 4p female connector
- Input Voltage 18...30V/DC +/-10%

0208632 Monitor 7" RLED Serial

- For serial connection (Zoom- , PTZ- or TIC cameras)
- 6m multicable (power) open wired, 6m multicable (video) including 7p female connector
- Input Voltage 12...60V/DC +/-10%

### Monitors 12"

- User-adjustable 190mm mounting bracket

0411000 Monitor 12"

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

0411130 Monitor 12" Serial

- For serial connection (Zoom- , PTZ- or TIC cameras)
- 6m multicable (power) open wired, 6m multicable (video) including 7p female connector



Mounting means - LEDD monitor

Brand	Model	DDIN slot	Necessary mounting brackets
DAF	Euro 5 CF/XF	Yes	None
DAF	Euro 6 CF/XF/LF	Yes	None
Iveco	All models	No	0400610 or 0400600
MAN	All models	No	0400610 or 0400600
Mercedes-Benz	Actros Euro 5	Yes	0400610 or 0400600
Mercedes-Benz	Actros Euro 6	No	0400610 or 0400600
Mercedes-Benz	Other models	No	0400610 or 0400600
Renault	Euro 5 Premium / Euro 6 Renault T	Yes	0400610 or 0400600
Renault	Magnum	Yes	0400630
Renault	Other models	No	0400610 or 0400600
Scania	Long dashboard: Euro 5 / Euro 6	Yes	None
Volvo	Euro 5 FM / FE	Yes	None
Volvo	Euro 5 FH	No	0400680
Volvo	Euro 6 FM	Yes	None
Volvo	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



Sun masks

**2291230 Sun mask 12" Monitor Horizontal**  
ABS Sun mask specially designed for the 12" RLED Monitor.

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



Armored cable (type 1220280)

This cable offers good protection against severe conditions. This is due to the additional internal galvanised braided steel wire armor.

- For EMC 100V/m

Including 4p molded connectors:

0303342	1,5m	0303352	3m
0303472	5m	0303362	7,5m
0303372	9m	0303482	11m
0303492	16m	0305021	20m
0305011	28m		



Cable per metre (connectors not included)

1220110	Standard Multicable 1x coax, 3x wires
1220170	Multicable 1x coax, 5x wires
1220280	Multicable armored 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
1210300	Control cable 8 x 0.25mm <sup>2</sup>

Any required connectors can be ordered separately. (see page 28)







Connectors

- Recommended for multicable (1220170)
- 1310841 Connector 4p female Gold
- 1312001 Connector 4p male Gold
- 1311201 Connector 7p female Gold
- 1322401 Connector 7p male Gold



- Recommended for dynamic cable (1220600)
- 1310850 Connector 4p female PG9 Gold
- 1312050 Connector 4p male PG9 Gold
- 1311250 Connector 7p female PG9 Gold
- 1322450 Connector 7p male PG9 Gold



SPECIAL Military Connector

- Female and male connectors available on request, please contact Orlaco.



- 0357010 Bulkhead connector
- 4p
- Suitable for lead-through on bodywork
- 0357050 Bulkhead connector
- 7p
- Suitable for lead-through on bodywork



Cable disconnection sets

- 0351070 7p
- 0351130 13p
- Watertight
- With caps
- 0351100 10p
- Watertight
- With caps



Spare parts 10p

- 1399510 Mounting housing
- 1399610 Female insert
- 1399500 Housing
- 1399600 Male insert
- 2200250 Reducer
- 2205200 Cable gland

Adapter cables

- 0304000 Adapter cable 4p female - 4p female
- 0304050 Adapter cable 4p male - 4p male
- 0304210 Adapter cable 4p female - 7p male
- 0304220 Adapter cable 4p male - 7p female
- 0303860 Adapter cable 4p female - BNC
- 0303770 Adapter cable 4p female - Cinch (if OEM monitor is used)
- SPECIAL Military Adapter cable 4p female - 6p male



Device cables

- 0303781 Y-Split cable RLED
- With two 4p female connectors (video) and open wire cable (power)
- For connections 2 to 4 cameras (with Switcher)
- 0304860 Y-Split cable 12" RLED
- With 4p and 7p female connectors (video) and open wire cable (power)
- For connections 2 to 4 cameras (with Switcher)
- 8976330 Cable Serial 6m
- A non-serial LEDD monitor can be connected to the MultiView Box (0404110) via this cable.
- 6m multicable (power) open wired, 6m multicable (video) including 7p female connector



### Multiview

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

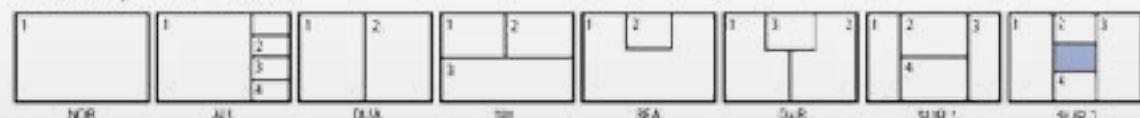
- 4 camera inputs (4x Compact Camera)

#### 0404120 MultiView box

- 4 camera inputs (3x Compact Camera, 1xAF-Zoom Camera)



Preset view options for channel 1-4:



Default channel 5:



### 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

#### 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)

#### 0404080 Switcher UNI IP67

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



### Video control unit

#### 0504730 Orlaco Smartbox

For connect and control the Orlaco AF-Zoom camera, Pan & Tilt and TIC camera.

- IP67
- Stainless steel housing



### Video distributor

#### 0407001 Orlaco video distributor

For connecting a second and third Orlaco monitor.

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



#### 0407330 Video distributor 4 channel

- Cables and connectors are not included

### 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



#### 0407100 DVR 4 Channel

- Total resources: 4 channels D1 at real time (100fpa / 120fps)
- Supports 2.5" 1 TB hard disk storage and SD card for mirror recording
- Built-in GPS, WIFI and 3G







### Infrared illuminator

#### 0507300 IR-CIV870 Lamp

For NightView in combination with a MILMOS or AF-Zoom Camera.

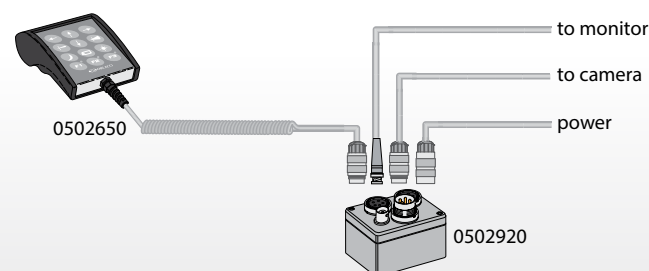
- 870nm IR light
- Max. 15W
- IP67
- Maximum range 40m

### Interface Control panel

#### 0502920 Interface Controlpanel Serial 2x7p

This interface is designed to connect the Handheld control AF to a Camera AF-Zoom or PTZ.

- Including 3,85m 8p power supply cable and connectors
- Can control each type of monitor



### Control

#### 0502620 Control panel mount

Built-in keyboard for activating of the Pan & Tilt / AF-Zoom / TIC camera.

- Joystick (0506500) is not included
- Power input 24V/DC
- Dimensions: 140x116x80mm



#### 0502610 Handheld control AF (serial)

For activating of the Pan & Tilt / AF-Zoom / TIC camera.

- Zoom function
- Including 5m power supply cable



#### 0506500 Joystick

- Built-in
- Operating temperature between -30°C to +75°C
- IP40
- Telemanique

#### 0702000 Compact joystick

- Operating temperature between -30°C and +75°C
- To assemble on control column
- IP40
- 12V/24V



#### 0502630 Foot switch

- Zoom in and out



#### 0702100 Zoom control box

Operating zoom in and out function of the camera AF-Zoom on a crane.

- Including hardware, tyrap and locktape
- IP54



#### 8975760 Push button yellow

For manually switching between cameras.



Pan & Tilt units

0507060

- IP 68 watertight
- Maximum weight 6 Kg
- Left/right reach 360° speed: 30° sec.
- Reach up 30° down 90° speed: 10° sec.
- 24V/DC

0507040

- IP 68 watertight
- Left/right reach 360° speed: 32° sec.
- Reach up 25° down 90° speed: 12° sec.
- Maximum weight 16 Kg
- 24V/DC

0507100 Fastening plate

For quick mounting of camera on Pan & Tilt unit.

Mounting means

0403400 Compact Camera magnet bracket

For quick mounting of Compact Camera on steel profiles.

8400610 Compact Camera bracket

Assembly set for Compact Camera.

0402320 Protective cover

Cover specially designed for the Compact Camera.

- Stainless steel housing

ISO Certifications

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

ISO/TS 16949 : 2009

ISO 9001 : 2008, with AQAP

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**.







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dealer:

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



DEFENSE



[Check our website for all our brochures \(pdf\).](http://www.orlaco.no)