

Aerial appliance / Ladder trucks	
Crashtender	
Forest fire engine	1
Municipal fire truck	1
Ambulance	1
nternational responder	1

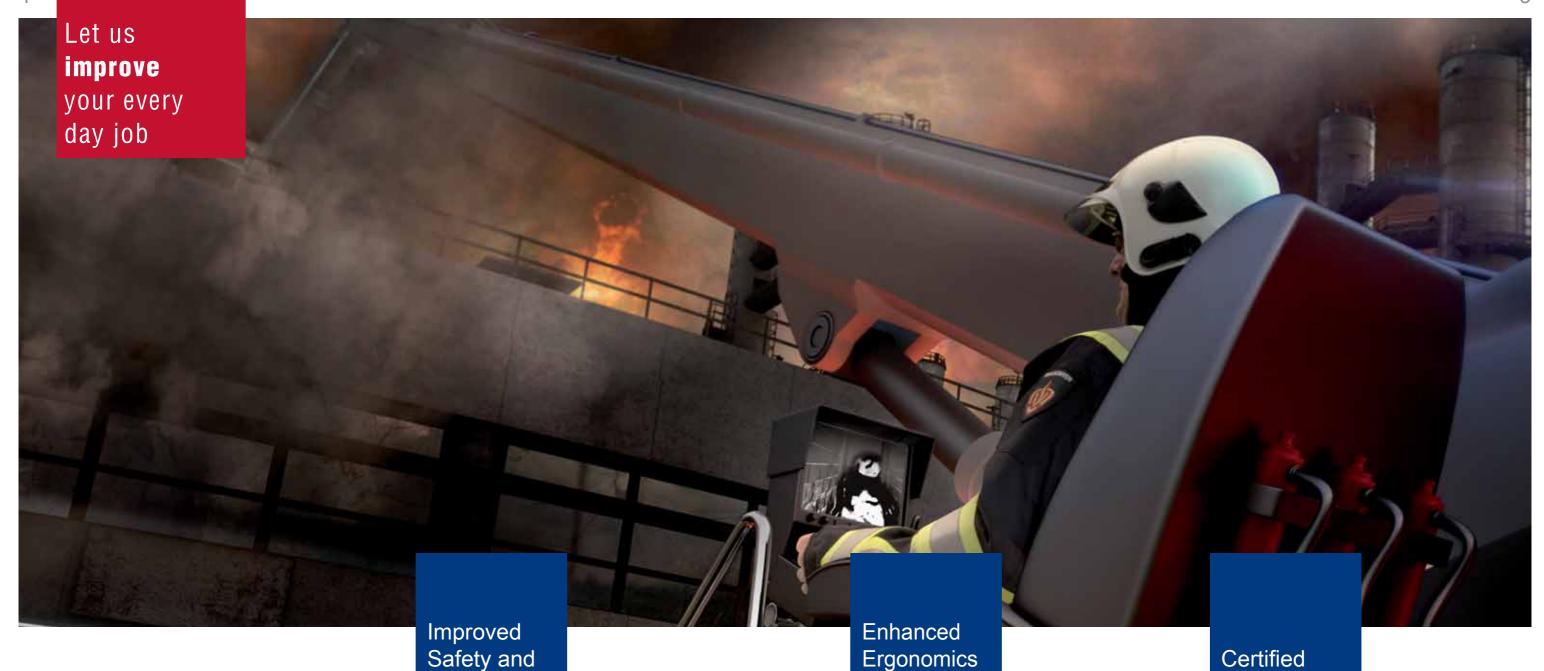


Why Orlaco?

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.









Emergency vehicles are complex machines that require clear vision which allows the operation to progress smoothly and safely. Especially when an emergency attracts a large audience and or press, maneuvering into a correct position is not an easy task. Drivers have minimal vision around the vehicle. It is essential to solve large blind spots in a professional matter. This is where Orlaco's camera monitor solutions will help to improve operational efficiency and safety. Together with our zoom and/or thermal imaging cameras on the basket, analyzing the overall situation will go much faster and efficient.

Efficiency

A driver of an emergency vehicle is required to follow what is occurring around his vehicle. Frequently he must maneuver into a contorted position. The vehicles are reversing repeatedly. The driver 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. He feels safe, secure and in control of the vehicles' environment, reducing stress and providing comfort.

and 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 opera-

tion that works right, every time.

Quality

Why Orlaco

MC1101 - PAGE 14

Being able to see the people working in the basket cannot be taken for granted, especially if you are working

above or behind high buildings or objects where the basket will be out of sight. With the mast camera, you will always be able to see them. That is a prerequisite for wellcoordinated collaboration and maximum safety.

Mastcam

Emergency sight solutions





CC2001 - PAGE 15



CC1001 - PAGE 14

Aerial appliances or ladder trucks are used to provide the most effective location possible for extinguishing fires. This has one disadvantage: It is difficult to follow operations from the ground. The safe and effective use of the aerial appliance or ladder truck therefore depends on the viewing system. Orlaco can help you get the best possible view using a camera system.



Frontview



FC1001 - PAGE 19

The new EU mirror directive came into force in 2006 and was extended in January 2007. It includes frontview 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.





RC1001 - PAGE 19

The rearview camera helps you get your vehicle into the correct position quickly and safely. Especially when reversing, you enjoy improved an increased field of view. This is more efficient for you and it can improve safety for bystanders. Recommendation: Add RadarEye to increase safety & efficiency. (see page 24-25)



8 Crashtender DEVS Compliant 9

Rearview



DEVS SETS - PAGE 16-17

The rearview camera lets you see the area immeditely behind the crash tender. This is safer when you are on the way to the location and ideal when you are moving your vehicle into position.





DEVS SETS - PAGE 16-17

With the camera system recommended by the Federal Aviation Administration (FAA) (AC No: 150/5210-19A), consisting of a thermal imaging camera and a zoom camera on the roof of the vehicle, you can fight fires more effectively as a result of your improved field of view. In addition, you can record these images digitally with the integrated recorder. That can be an important function when analyzing the disaster. This set is also fitted with rearview and sideview cameras.



[•REC]



Sideviev



DEVS SETS - PAGE 16-17

Given the dimensions of the crash tender and your position as the driver, adequate view is not something you can take for granted. The side cameras provide greater vision of the areas to the sides of the vehicle.

1 Information

Crash tenders are large, cumbersome vehicles. An Orlaco camera system is a welcome addition. You can easily combine this with a thermal imaging camera and a zoom camera. These DEVS (Driver's Enhanced Vision Systems) for ARFF (Aircraft Rescue and Fire Fighting) are recommended by the FAA. Two cameras are positioned on the Pan & Tilt unit. The zoom camera, capable of up to 432X zoom, lets you see the

location and brings objects into crystal-clear focus. The thermal imaging camera helps you see through the smoke to localize the seat of the fire. You can view the images from both the zoom and thermal imaging cameras and the side- and rearview cameras on the monitor in the cab.

Vision solutions

Vision solutions

10 Forest fire engine



Vision solutions

Vision solutions

12 Municipal fire truck
Ambulance 13

Rearview



RC1001 - PAGE 19

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

Recommendation: Add RadarEye to increase safety & efficiency. (see page 24-25)







CORLACO O



CornerEye



PAGE 19

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.



Combination set

Front- and Rearview FR1001 - PAGE 20

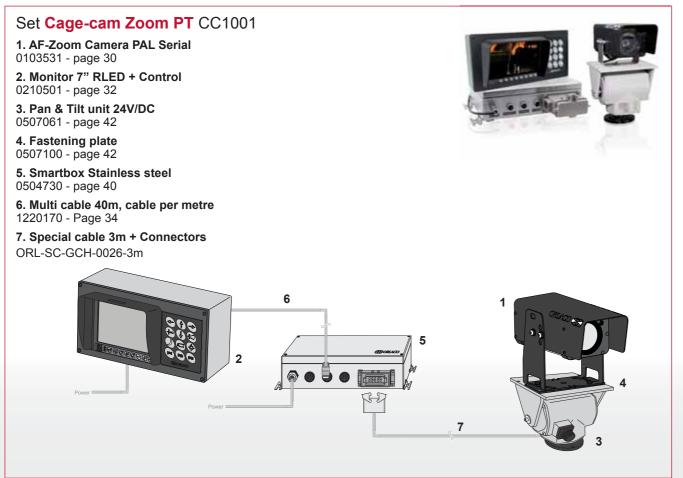
1 INFORMATION

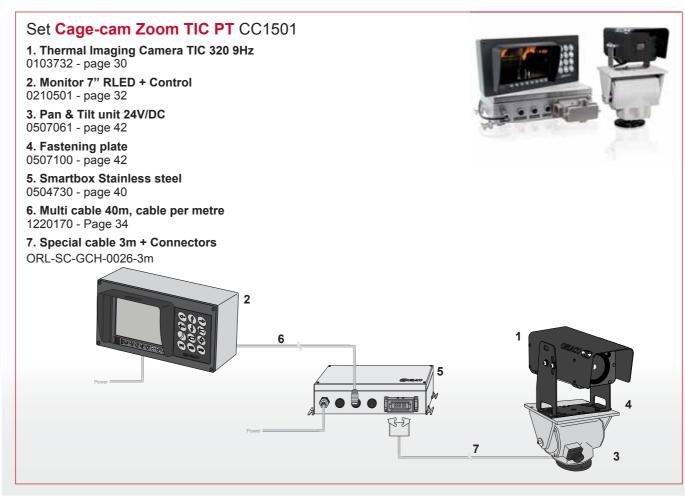
The frontview mirror may be replaced by a front camera provided it meets, among others, the following requirements:

- Mandatory front vision at forward speeds of between 0 and 10km per hour.
- It must be possible to see the class VI field of vision. (2m in front of and 2m across the entire width of the cab)
- The monitor may only display the class VI field of vision at forward speeds of between 0 and 30km per hour.
- The monitor and camera must meet all technical requirements.

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

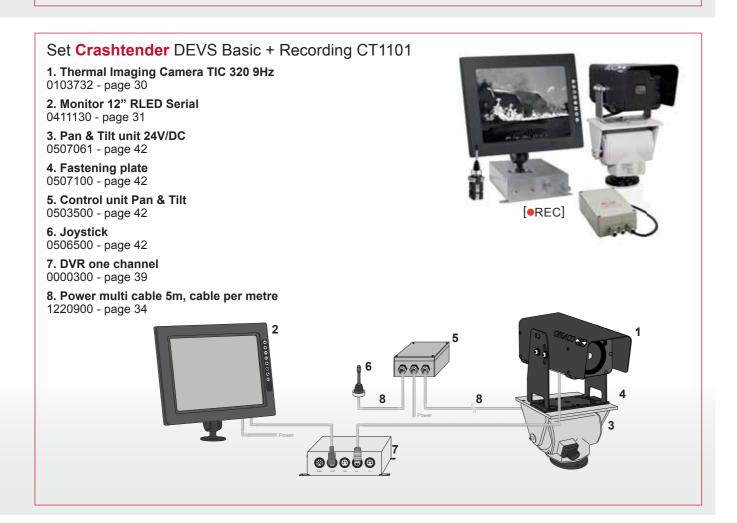


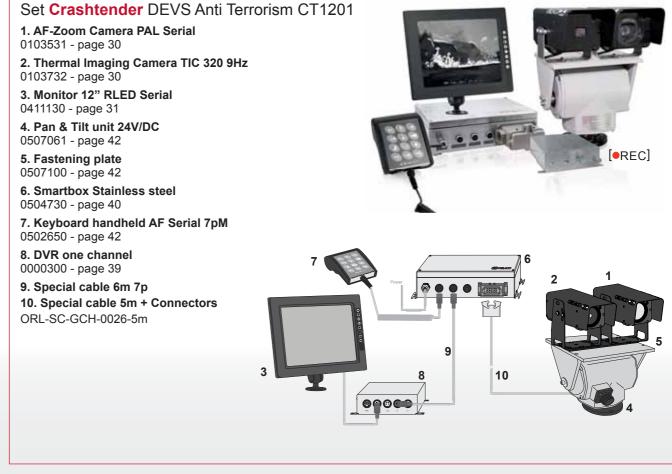


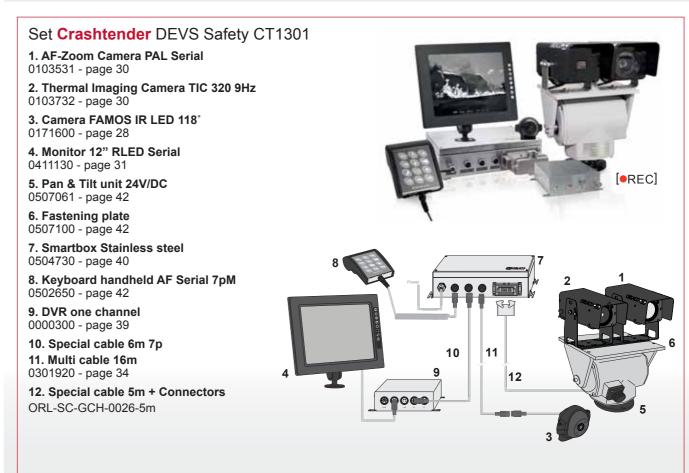








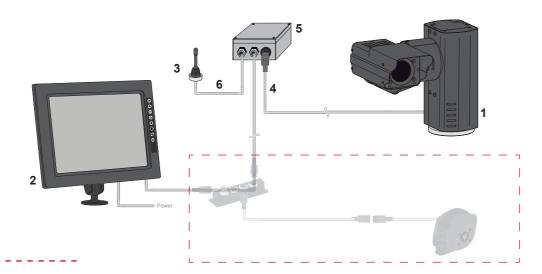




Set Forest Fire FF1001

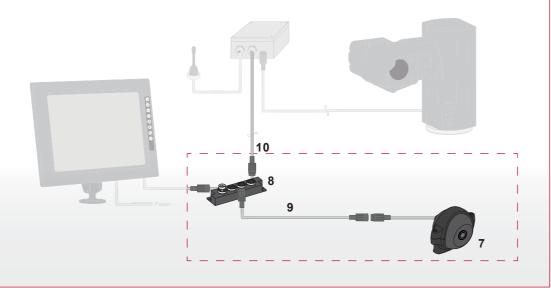
- **1. Camera PT TIC Aluminium** 0506972 page 30
- **2. Monitor 12" RLED Serial** 0411130 page 31
- **3. Joystick** 0506500 page 42
- **4. Multi cable 6m 7p** 0304410 page 34
- 5. Junction Box Special
- **6. Power multi cable 5m, cable per metre** 1220900 page 34

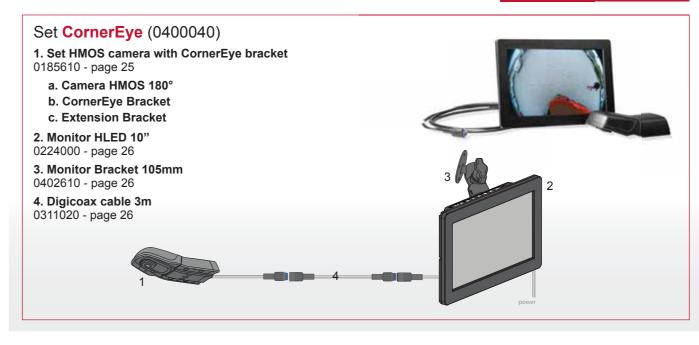


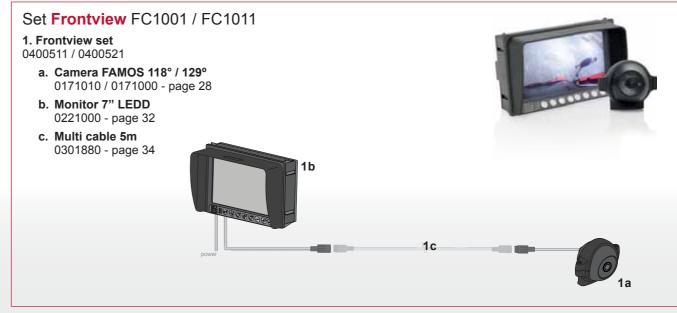


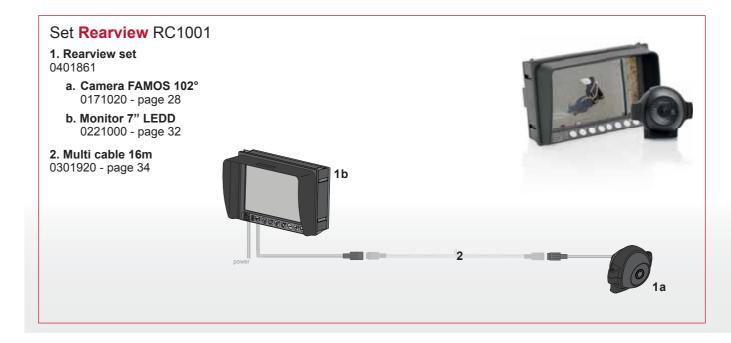
Optional Rearview

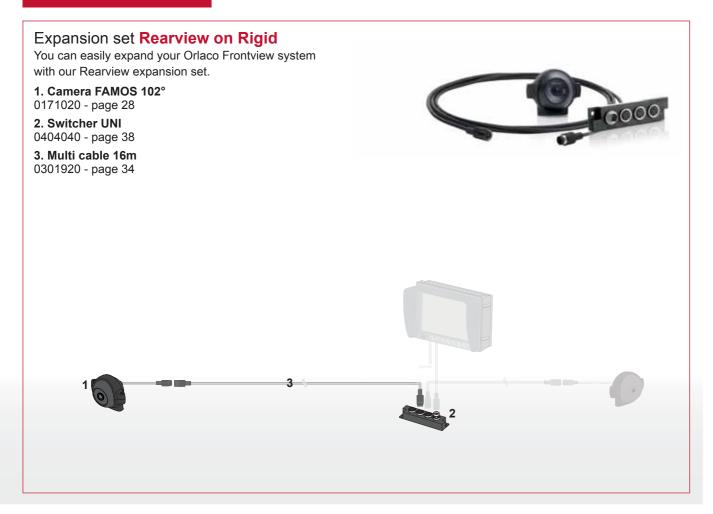
- **7. Camera FAMOS IR LED 118°** 0171600 page 26
- 8. Switcher Serial 0404060 - page 38
- **9. Multi cable 16m** 0301920 page 34
- **10. Multi cable 6m 7p** 0304410 page 34

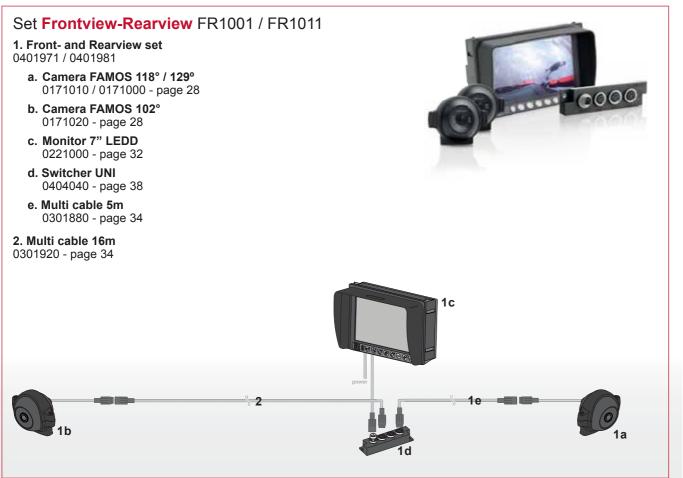


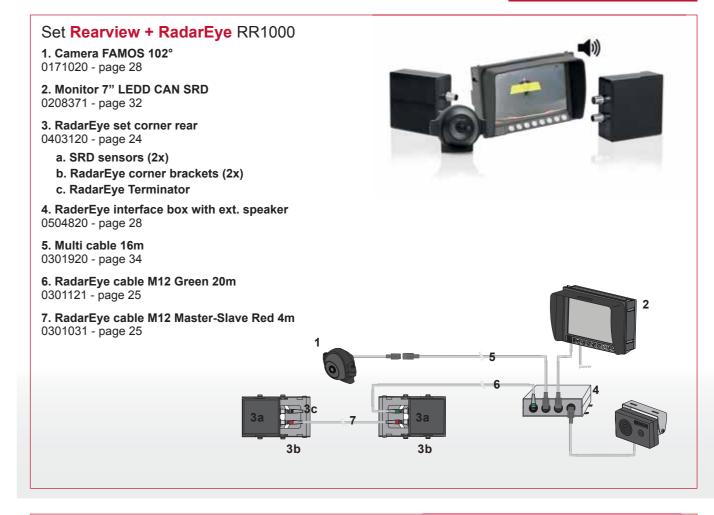


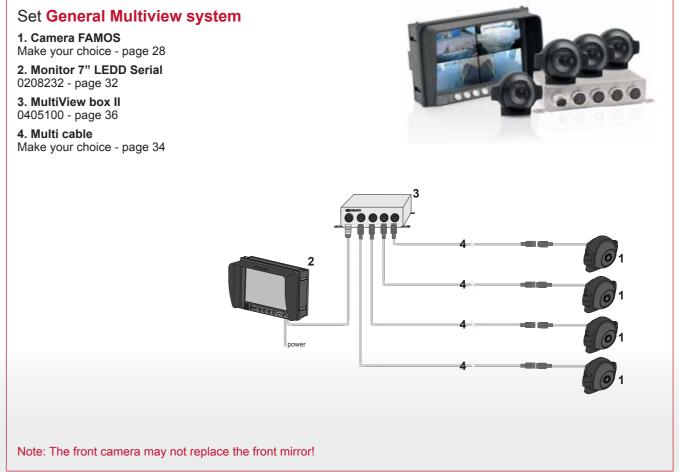












Set Surround view 1. Camera FAMOS 129° (4x) 0171000 - page 28 2. Monitor 7" LEDD Serial 0208232 - page 32 3. Multiview box II 0405100 - page 38 4. Multi cable 16m 0301920 - page 34 Note: Example of design, contact Orlaco for the required cable lengths.

Surround view



The dimensions and design of emergency vehicles make it difficult for a driver to have a complete overview of the situation. Surround View gives a three hundred and sixty degrees field of view around the vehicle, enabling the driver to maneuver safely under the most difficult and hectic circumstances. The positioning of the vehicle is often essential in order to attend to emergency situations on time in a safe and efficient way. The system shows a maximum view of all four sides of the vehicle on one monitor. The camera images overlap, allowing the driver to have a complete overview at all times, without missing any obstacles. By providing the driver an immediate clear overview of the situation, Surround View significantly increases safety and efficiency.

- Surround view can be applied on any type of vehicle.
- Increased view when manoeuvring in narrow spaces and crowded 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.



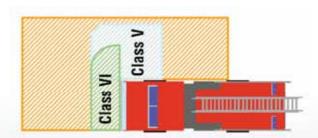


CornerEye covers field of vision Class V & VI with one camera



Get excellent view on blind spots around trucks with the revolutionary new CornerEye camera monitor system. Ultimate digital technology and effective application come together in this unique vision system. The system has a wide angle lens that, combined with the latest technologies, delivers a field of vision of 270°. CornerEye covers the obligatory Class V & VI and even beyond, increasing your vision.

- 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





Check our CornerEye video on the Orlaco YouTube channel.

CornerEye Set

0400040 Set CornerEye

 Including HMOS camera with bracket, 10" monitor with A pillar bracket and 3m digicoax cable.



CornerEye Parts

0185610 Set HMOS camera with bracket

• Including camera HMOS 180°



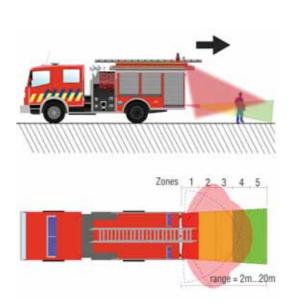
RadarEye unites visibility and active detection



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.

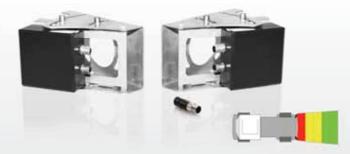
RadarEye is an integrated active view system designed to detect and see objects in zones obscured from the operator's view. The radar system detects stationary as well as moving objects in a designated coverage area. With this view system the operator is actively warned with audible tones that increase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

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



You Tube

Check our demo RadarEye videos on the Orlaco YouTube channel.



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

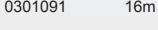
Connection cable between Interface box and master SRD sensor or connection cable between slave SRD sensor and next SRD sensor

0301051	5m	0301061	10m
0301071	15m	0301121	20m
0301131	25m	0301141	30m

Cable M12 Master-Slave Red

Connection cable between master SRD sensor and slave SRD sensor.

0301081	0,25m	0301021	1m
0301031	4m	0301041	8m
0004004	40		



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

0350111 M12 Terminator 120 Ohm

120 Ohm resistor for terminating CAN bus.

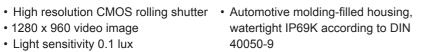




Products Products

The qualifications of our Digital Cameras

- 1280 x 960 video image
- · Light sensitivity 0.1 lux
- · Excellent impact- and vibrationresistance
- · Improved EMC-standards



· Operating temperature between -40°C to +85°C

- · IP68 dust- and waterproof according to IEC 60529
- The camera has a 0.5m cable including a digicoax waterproof molded 4p male connector

Cameras HMOS

Compact, industrial high definition digicoax camera.

Туре	Art. no.
30°	0185040
60°	0185030
90°	0185020
120°	0185010
180°	0185000
Including camera bracket	

Including camera bracket



Monitor HLED

- · Automotive TFT liquid crystal display module, LED backlight
- 1m multi cable (power) open wired, 1m multi cable (video) including 4p molded female digicoax connector
- 1280 x RGB x 800 video image

0224000 Monitor 10" HLED

· Suitable for CornerEye

0224010 Monitor 10" HLED MR1

0402610 Monitor Bracket 105mm

Suitable for Monitor 10" HLED



Digicoax cable

Designed for use with HMOS cameras.

0311000	1m	0311010	2m
0311020	3m	0311030	5m
0311040	7,5m	0311050	8m
0311060	9m	0311070	11m
0311080	16m	0311090	21m



Digicoax switcher

Input and power supply for a maximum of 4 Digicoax HMOS cameras.

· Cameras can be switched over automatically with a HLED MR1 monitor

0404240 Switcher Digicoax - 4 channel

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.

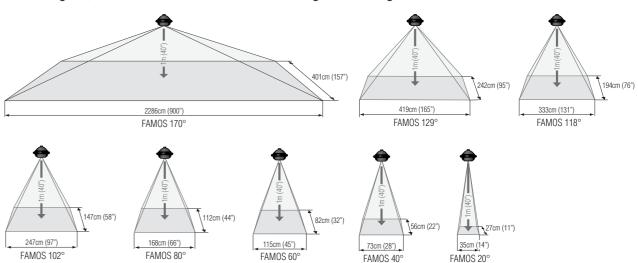
Note: For two or more cameras a switcher, 4Cam RLED Monitor or MultiView Box and additional cables are required. Contact us for support.

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
- Operating temperature between -40°C to +85°C
- · Heated lens glass, therefore no
- IP68 dust- and waterproof according to IEC 60529

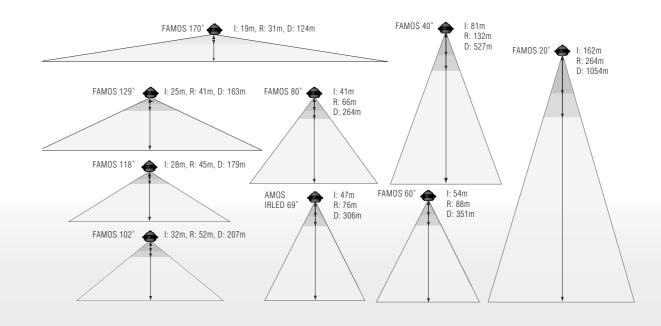
problems with condensation or frost

- The camera has a 0,5m cable including a waterproof molded 4p connector male
- · Automotive molding-filled housing,
- watertight IP69K according to DIN 40050-9
- · Improved EMC-standards
- · Optimized impact- and vibrationresistance



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

Туре	Art. no. PAL	Art. no. NTSC
20°	0171060	0171160
40°	0171050	0171150
60°	0171040	0171140
60° MIRROR	0171960	-
80°	0171030	0171130
102°	0171020	0171120
102° MIRROR	0171220	0171240
118°	0171010	0171110
118° MIRROR	0171210	0171230
129°	0171000	0171100
129° MIRROR	0171880	-
170°	0171070	0171170



Camera FAMOS MIRROR SW1

Camera with mirrored image and guiding lines.

Туре	Art. no. PAL	Art. no. NTSC
102° MIRROR	0171250	0171260



Cameras FAMOS IR LED

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

Туре	Art. no. PAL	Art. no. NTSC
80°	0171610	0171630
118°	0171600	0171620
118° MIRROR	0171900	0171910

· UV-transparent front cover

Mounting means

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 155mm

0402270 Camera extension 250mm



0401270 Camera bracket

Compact bracket specially designed for the Compact Camera.

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



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.



0403400 Magnet Bracket Compact Camera

For quick mounting of Compact Camera on steel profiles.



2015500 Adjustable mounting bracket

Length 132mm

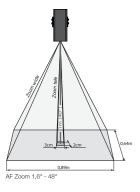
2015600 Adjustable mounting bracket

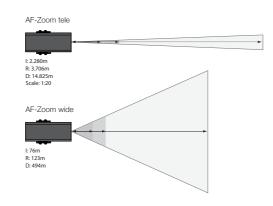
• Length 190mm



The qualifications of our zoom cameras

- Operating temperature between -40°C to +85°C
- Built-in brightness function to ensure better view 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





D

AF-Zoom Cameras

- Power supply 12V 24V/DC when cable is <50m
 Power supply 18V 24V/DC when cable is >50m
- 2,6kg
- Dimensions: 260x140x122mm (without bracket)

0103531 AF-Zoom Camera Serial

· Including 6m multi cable fitted with 7p connector (female)

0103512 AF-Zoom Camera Hard wired

• Including 10m multi cable (1220250)



Thermal Imaging Camera

- Thermal Imager Uncooled VOx microbolometer
- 25° lens (up to 450m detection)
- 12-30V/DC max 8W
- 2x and 4x zoom

0103732 TIC-camera 320 9Hz

• Including 6m multi cable fitted with 7p connector (female)

The qualifications of our Pan & Tilt Zoom Cameras (PTZ)

- Operating temperature between -40°C to +85°C
- Built-in brightness function to ensure better view on dark areas
- 40x optical zoom, 1,6° to 48° horizontal opening angle
- Built-in night vision function (0 lux mode)
- Nitrogen-filled camera housing, 100% watertight (IP 69K)
- Heated lens glass, therefore no problems with condensation or frost
- · Shock and vibration resistant
- Dimensions: HxWxD 284x307x141mm
- Including 5m cable with 7p connector
- 6 presets for camera positions
- Pan angle 360° (180° to left, 180° to the right)
- tilt angle 180° (90° up, 90° down)
 Pan & tilt speed 12,5°/sec
- Power supply 18V to 30V/DC

Pan & Tilt Zoom Camera

- · Aluminium housing
- Weight: 5kg (including 5m cable)

0506953 PTZ Camera Aluminium PAL

0506962 PTZ Camera Aluminium NTSC

Pan & Tilt Thermal Image Camera

0506972 PT TIC Camera Aluminium PAL

• Weight: 6,8kg (including 5m cable)



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
- High resolution pixel WVGA 800xRGBx480
- · Power protected against:
- Induction voltages
- Load dumps
- Over- and undervoltage
- Mirror image setting
- Brightness automatically adjusts to the ambient light
- · Integrated sun visor

- Option of a marker line per camera on the screen for the optimum determination of distance
- IP67 according to IEC 60529
- Full On-Screen-Display (OSD) in 12 languages
- Watertight molded connectors
- Open wired power cable

Monitors RLED 12"

Art. no.	Туре	Video cable / connector	Power cable	Bracket
0411000	12"	4m / 4p fem.	4m	190mm
0411130	12" Serial	6m / 7p fem.	6m	190mm
0411300	12" CAN SRD	6m / 7p fem.	6m	190mm

Serial For serial connection (Zoom- & TIC cameras or MultiView box)

CAN SRD Specially designed for RadarEye systems. (see page 24-25)









Standard bracket

Monitors RLED 7"

• Input Voltage 18...30V/DC +/-10%

Art. no.	Туре	Video cable / connector	Power cable	Bracket
0223000	7"	2m / 4p female	2m open wired	132mm
0223100	7"	4m / 4p female	4m open wired	standard
Input Voltage 12	60V/DC +/-10%			
Art. no.	Туре	Video cable / connector	Power cable	Bracket

Art. no.	Type	Video cable / connector	Power cable	Bracket
0208603	7"	2m / 4p female	2m open wired	132mm
0208632	7" Serial	6m / 7p female	6m open wired	132mm
0208691	7" Serial	6m / 7p female	6m open wired	standard
0208871	7" CAN SRD	6m / 7p female	6m open wired	132mm

Monitors LEDD 7"

- For double DIN slide opening in the dashboard
- Input Voltage 18...30V/DC +/-10%

Art. no.	Туре	Video cable / connector	Power cable	Bracket
0221000	7"	2m / 4p female	2m open wired	-
Input Voltage 1	260V/DC +/-10%			
Art. no.	Туре	Video cable / connector	Power cable	Bracket
0208203	7"	2m / 4p female	2m open wired	-
0208232	7" Serial	6m / 7p female	6m open wired	-
0208371	7" CAN SRD	6m / 7p female	6m open wired	-
Serial	For serial connection (Zoom- & TIC cameras or MultiView bo	ox)	
CAN SRD	Specially designed for	RadarEye systems. (see page 24-25)		



0210501 Monitor 7" LEDD Serial + Keyboard

- · Aluminium/stainless steel housing
- 10p Harting connection

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 /FE).

ABS

0400630 DDIN Adapter

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

• ABS



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°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		

Including 7p molded connectors:

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

Cable per metre (connectors not included)

1220170	Multi cable 1x coax + 5x wire	
1220250	Multi cable 1x coax, 12x wires PUR	
1220280	Multi cable armored 1x coax, 5x wire	
1220350	Multi cable 2x coax + 5x wire PUR	
1220900	Power Multi cable 7x wire AWG20	
1222000	Coaxcable 75 Ohm RG50	
Any required connectors can be ordered separately (page 31).		

Connectors

1310841 Connector 4p female Gold

• Recommended for multi cable

1312001 Connector 4p male Gold

• Recommended for multi cable

1310850 Connector 4p female PG9 Gold

• Recommended for dynamic and armored cable

1312050 Connector 4p male PG9 Gold

• Recommended for dynamic and armored cable

1311201 Connector 7p female Gold

• Recommended for multi cable

1322401 Connector 7p male Gold

· Recommended for multi cable

1311250 Connector 7p female PG9 Gold

• Recommended for dynamic and armored cable

1322450 Connector 7p male PG9 Gold

• Recommended for dynamic and armored cable

1310861 Connector 8p female Gold

• Recommended for dynamic and armored cable

Adapter plugs

0357500 Adapter plug 4p male - 7p female

0357510 Adapter plug 4p female - 7p male

Adapter cables

0304000 Adapter cable 4p female - 4p female

0304050 Adapter cable 4p male - 4p male



































Interface cables

To connect an Orlaco MIRROR Compact Camera to a third party monitor. Note: with sideview camera always use adapter cable in combination with 0404300 Switcher 4Cam. Visit www.orlaco.com for a complete overview.

	·
0303770	Adapter cable 4pF - Cinch / power wires (Iveco Connect rearview, Alpine, Pioneer, Kenwood, JVC,
	Trimble, TomTom, Garmin Fleet 670V)
0303860	Adapter cable 4pF - BNC

Adapter cable 4pF - 3,5mm Jack plug	
(Snooper 7000/8000/8500, Mercedes Telematics-Fleet	
board dispo pilot II, TomTom Bridge pro 827x)	

0308430	Adapter cable b4F - 2,5mm Jack plug (Snooper 5700/5800/6400/6800/8100)	
0304000	Adapter cable m/F	

J30 4 330	Adapter Cable III-I
	(Volvo FH 4 / FM 4 SID High, Renault T 6YR02)
	(1 adapter cable per camera, up to 4 camera's possible)

0303090	Adapter cable 4pF - Bosch
	(MAN/DAF/SCANIA) radio
0004070	

0304870	Adapter cable m4F - r4M MAN MMT Monitor
	(For vehicles with camera preparation 351LZ)

0308400	Adapter cable MAN MMT.2 / 2016 - r4M m4
	(For vehicles with camera preparation 351 MA/MC/ME/MF)

0308410	Adapter cable MAN MMT.2 / 2016
	r4M RA m4F
	(For vehicles without camera preparation)

0306980	Adapter cable r4F - m4F Scania Premium
	radio next generation

0308440	Adapter cable b4F - 3,5mm Jack plug
	(Garmin Truck navigation DEZL770 LMT)

Mercedes interface cables

Note: The monitor automatically switches to rearview when reversing. Additional cameras require manual switching (on steering wheel or radio) from navigation to camera view.

	on to camera view.
0304660	Adapter cable 4pF - Mercedes-Benz radio/navigation

	(For 7" multimedia system without camera preparation)
0306680	Adapter cable b4F - HMI Fakra Male b4F

Adapter Cable D4F - Hivii Fakra iviale D4F
(For vehicles with camera preparation J9J in combination
with an instrument-display or multimedia system)

Cable disconnection sets

0351070 7p 0351130 13p

- Watertight
- With caps



0351100 10p harting

- Watertight
- With caps



Interconnection cables

0304020 Cab cable

- 1 x coax + 5 x wire PVC Ex
- Including 4p molded male connector & 10p harting female
- Operatng temperature between -40°C to +85°C



0303630 Spiral interconnection

3,5m spiral cable between tyre carrier and adjustable bumper.

- · Oil and petrol resistant
- · With double coax
- · Including 10p harting plugs



0303740 Cable trailer

- 25m multi cable
- Including 4p molded female connector
- Including 10p harting male



Multiview boxes

The MultiView box II 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 II can only be connected to an Orlaco Serial Monitor. Or via the Serial Cable 6m (8976330) when a non-serial monitor is used



0405100 MultiView box II

• 4 camera inputs (4x Compact Camera)

0405110 MultiView box II. serial

• 4 camera inputs (3x Compact Camera 1x AF-Zoom Camera)





Switchers

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

• Cameras can be switched over automatically or manually

0404040 Switcher UNI

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

0404080 Switcher UNI IP67

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



0404060 Switcher Serial IP67

- Waterproof IP67 according to IEC 60529
- 7p output for monitor
- · Only in combination with a Serial monitor

0404300 Switcher 4Cam

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 (only applicable for third party monitors)
- Including 3,85m power cable



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
- 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)
- Automatic timestamp
- 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



Video distributors

· For connecting a second monitor.

0407070 Video distributor 1 in - 2 out

• Including 0,2m cables and 4p connectors

0407090 Video distributor 1 in - 2 out, Serial

• Including 0,2m cables and 7p connectors



0407001 Video distributor 1 in - 3 out

For connecting a second and third Orlaco monitor.

- 7-32 V/DC
- · Cables and connectors are not included



0407050 Video distributor 4 in - 12 out

· Cables and connectors are not included



Video control unit

0504730 Orlaco Smartbox

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

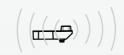
- IP67
- · Stainless steel housing

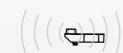
Spectrum Scanner wireless video transmitter & receiver

- Including powercable 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



- Omnidirectional antenna with horizontal orientation
- Maximum range 150m (dependent on surroundings)





0004091 LineMax 300

- · Directional antenna with vertical orientation
- Maximum range 300m (dependent on surroundings)







Junction Box

0504840 Junction Box AF-Zoom/PTZ

- For use with AF-Zoom and Pan & Tilt cameras
- 10p



Power supply

0004601 Power supply 9-36V

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









Pan & Tilt

0507061 Pan & Tilt max 6kg

- IP68
- · Aluminium housing
- 24V/DC
- · Weight 2,3kg
- Pan speed 30° per sec, tilt speed 10° per sec

0507040 Pan & Tilt max 12kg

- IP68
- · Aluminium housing
- 24V/DC
- · Weight 6,5kg
- Pan speed 32° per sec, tilt speed 12° per sec

0507100 Fastening plate

For quick mounting of camera on Pan & Tilt unit.



Control

0503500 Control unit Pan & Tilt

Power supply and control for Pan & Tilt unit (0507061).

- Joystick (0506500) is required
- Power input 24V/DC
- Aluminium housing



0506500 Joystick

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



0502650 Handheld control AF (serial)

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

- 7 pins
- Zoom function
- Including 5m power supply cable

0502620 Control panel mount

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

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

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.







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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:















Check our website for all our brochures (pdf).



