

**Vision is
our mission®**



**Vision Solutions for:
Ship to Shore cranes (STS) and Straddle Carriers (SC)**

**PORT
VISION SOLUTIONS**

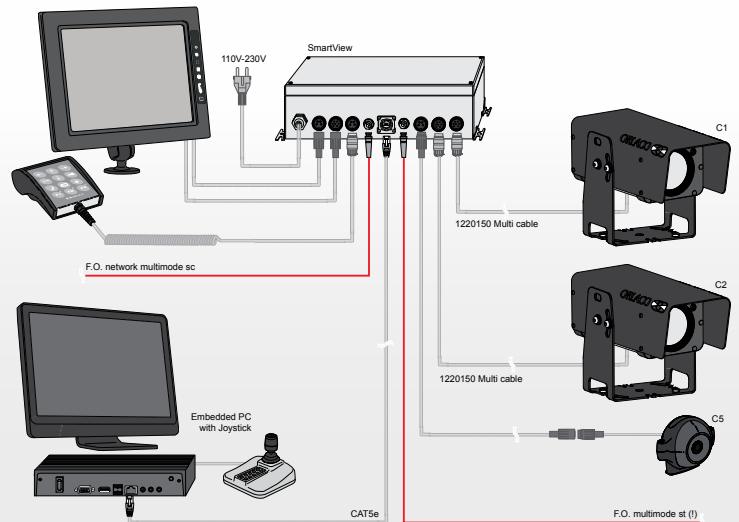
Ship to Shore crane (STS)



Basic analog module

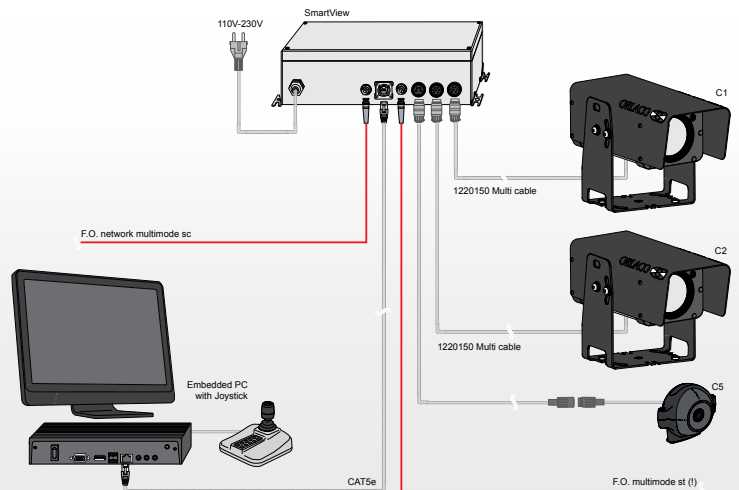
This operator cabin module combines the best of both worlds when it comes down to analogue and digital technology. It gives the operator a real-time camera view on his operation, and at the same time can transfer digital camera data to another part of the crane using data or Fiber Optic cable.

The unit has the possibility to connect two zoom-cameras, one compact color camera and through the F.O input for instance, another two compact color cameras mounted on the spreader. (See Spreader module)



Basic digital module

This basic digital operator cabin module uses digital technology. The digital data can be transferred to another part of the crane using data or Fiber Optic cable. It has the possibility to connect two zoom-cameras, one compact camera and through the F.O input for instance another two compact cameras mounted on the spreader. (See Spreader module)



camera possibilities

Orlaco cameras

- Fixed or zoom lens (432x zoom)
- High resolution
- Waterproof IP69
- Corrosion resistant
- Heated lens surface
- Shockproof and vibration resistant
- EMC approved and certificated
- -40°C to +85°C operating temperature



FAMOS Camera

- Aperture angle for every solution
- Next generation CMOS sensor

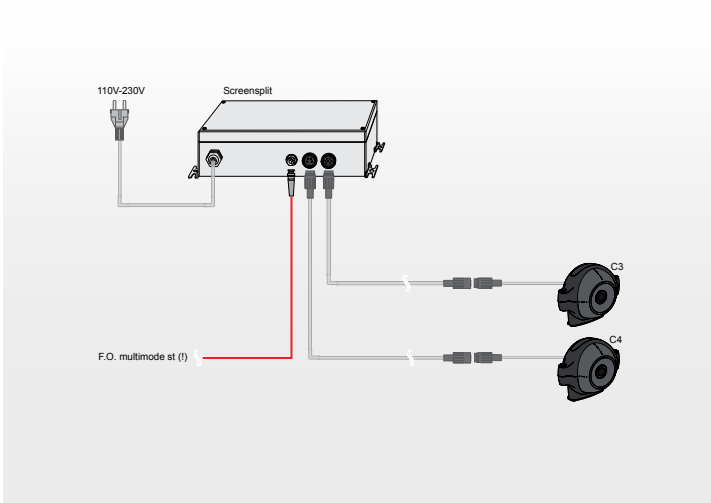


Camera AMOS InfraRed LED

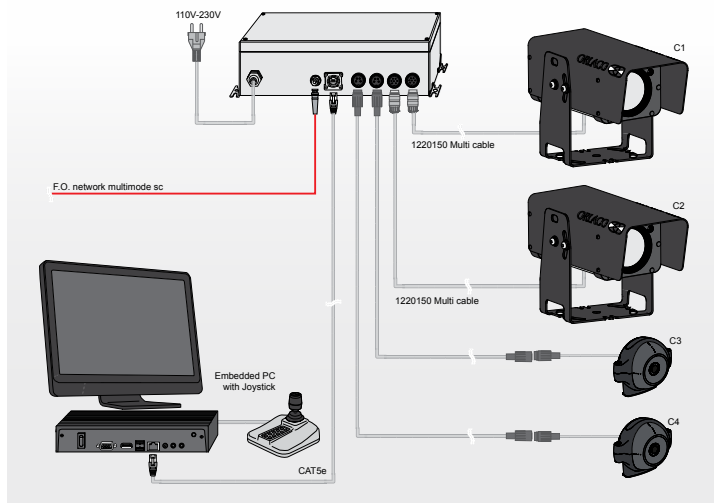
- Lens angle 69° / 118°, 24V/DC
- 16 High Power Infrared LEDs 850nm



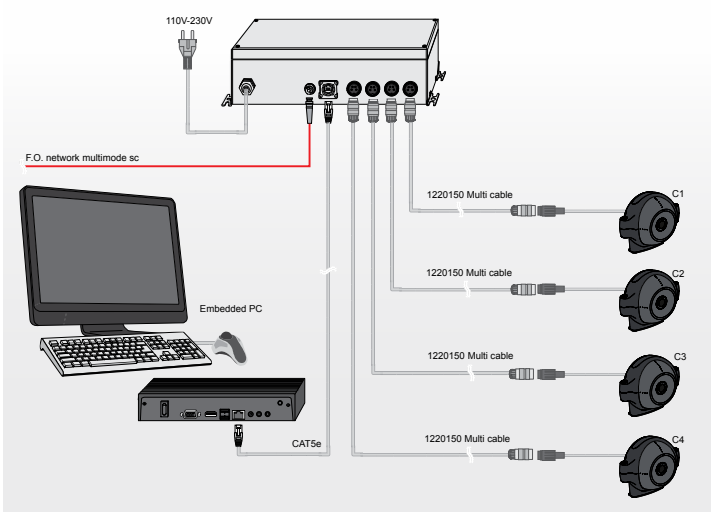
Module 1 (Spreader module)



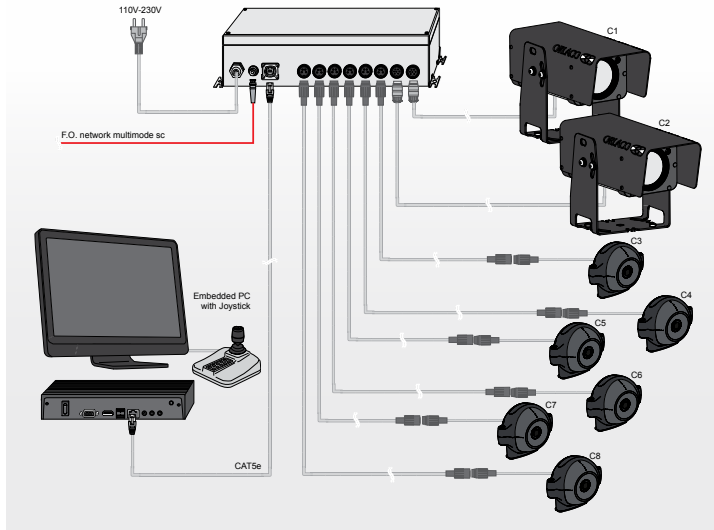
Module 2



Module 3



Module 4



AF Zoom Camera

- Aluminium black or stainless steel
- Optional oil damped bracket



Pan & Tilt AF Zoom Camera

- Aluminium black or stainless steel
- Pan angle 340°, tilt angle 180°

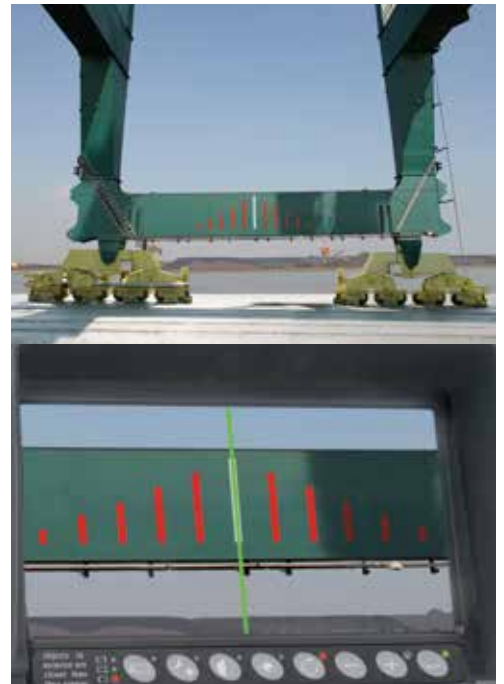


P&T Thermal Image Camera (PTTIC)

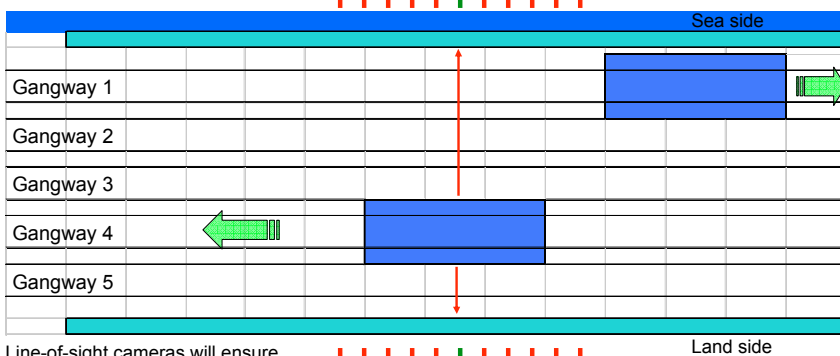
- Aluminium black or stainless steel
- 4x zoom, Pal/NTSC, 5 color palettes

Not only safe reversing, but also knowing what is happening behind and near the vehicle. The chance of an accident is greatly reduced by a **Side-Rearview** System.

This **Positioning System** for Straddle Carriers works independently from the STS Crane and enables a straddle carrier driver to position the container exactly in the middle of the crane by using two cameras mounted in the middle of the spreader and two monitors in the cabin.



Positioning System SC Cranes

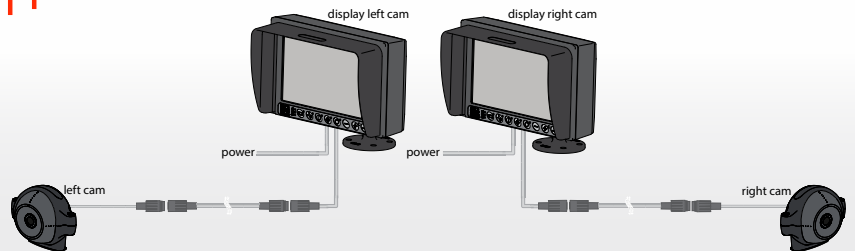


Line-of-sight cameras will ensure that container is placed on centre line of the two middle points of the crane.

The two cameras mounted in the middle of the spreader are an excellent way to pinpoint the middle of the crane. When the mark at the sill beam and the vertical marker in the Orlaco monitor are aligned, the exact middle of the crane is located and the perfect position to put down the container is reached. The STS can pick up the container with no additional sideways movements of any kind.

Straddle Carrier Positioning set

Consists of two compact color cameras with a 16 degree angle and two 7" RLED monitors.



Dealer:

monitor possibilities

Orlaco monitors

- LED Backlight technology
- High resolution bright image
- Full On-Screen-Display (OSD)
- Input voltage 12...60V/DC +/- 10%
- Brightness automatically adjust to light
- Shockproof and vibration resistant
- IP67 according to IEC 60529
- -40°C to +85°C operating temperature



7" RLED



12" RLED