



# Camera AMOS 118° PAL/NTSC Mirror



Article no 0135210 0135310





### **Technical Specifications**

## Camera AMOS 118° PAL/NTSC Mirror

Article number PAL 0135210 **Article number NTSC** 0135310

Description AMOS 118° Mirror

Lens specified 118° Horizontal lens angle 118° Vertical lens angle 89°

PAL = 720(H)x576(V) 50fld/s. NTSC = 720(H)x480(V) 60fld/s. 1 Vtt composite video into 75 Ohm. Video signal

Sensor element 1/4" CMOS Digital image sensor. 680 H x 480 V.

Light sensitivity < 0,05 Lux. **Dynamic Range** 80dB.

Housing Anodised aluminium, black, UV resistant, light fastness >8, corrosion

proof according IEC 60068-2-52 salt mist, cyclic.

**Ingress protection** IP68 according to IEC 60529 (up to 10 m under water), IP69k according

to DIN 40050-9: camera can withstand a high pressure cleaning with

water: 14-16L/min. 80°C and 100 bars flow.

Nitrogen filled Filled with overpressure 1 bar.

Lens glass Chemically hardened, toughed, tempered float glass: 5 to 7 times stronger

than ordinary glass, protected against acid: class 2-3; DIN 12116, passed

flying stone test.

Mounting hardware Standard stainless steel.

Shock constancy Shock and vibration resistant for usage on trucks, cranes, fork-lifts,

maritime applications, machinery. Random vibration test 15,3Grms at

frequency: 24 to 2000, PSD (g<sup>2</sup>/Hz) 0,04 to 0,10.

Material: glass reinforced polyamide, test: 50 Nm at -40°C to +85°C. Camera bracket

0,21kg, 0,29 in standard packing. Weight

Truck use Withstand all fluids and materials used in and around trucks like:

ammonia solution 5%, ethanol 80-100%, isopropanol 5-10%, soapy water (min. 50% soap per volume), alkaline degreasing compounds(used

in high pressure washing equipment).

Power input\* 12..24V/DC.

**Power consumption** Heating off: 1,2W at 24V; Heating on (max. Power at -40°C): 3,6W at 24V.

**Transient protection** Camera may be powered directly from 12V or 24V battery without

additional electrical protection since camera has an integrated circuit that protects the camera against

over- and undervoltage, spikes, ripples and loaddumps.

2,4W max. Puls Width Modulated, activated from +30°C (min) to -40°C. Heater

-40°C to +85°C. Operating temperature

Storage temperature -40°C to +125°C.

**Connectors** 0,5m cable with 4p male connector (camera power input and video output). Min. cable bend radius

Approvals in compliance with all relevant EMC- and Automotive directives. **Approvals** 

> This device complies with Part 15 of the FCC Rules. Operation is subject to the following conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference

received, including interference that may cause undesired operation.

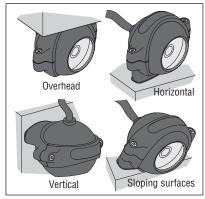
Certificates available upon request.

All materials are compliant to Green Passport requirements according IMO resolution MEPC.197(62) as **Green Passport** 

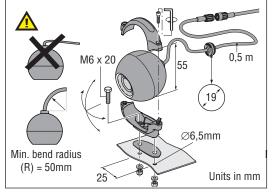
adopted on 15 July 2011 (Maritime sector: International Maritime Organization concerning the functions of

the Marine Environment Protection Committee).

#### **Universal camera Bracket**



#### **Camera attachment and dimensions**



### Front side of molded 4p male connector

Power input\*

Below 6V: camera is non

functional. Between 7V heating

element automatically activated (20% capacity). At 8V the

camera is fully functional and

the heating is at 40% of its

capacity. At 12V the heating

12V and 33V camera and

heating element are fully

functional. Above 33V the

overvoltage protection is activated and camera plus

is deactivated below 32V.

Circuit Protected.

values; a tolerance of

+/-10% is applied.

Powercircuit is protected up

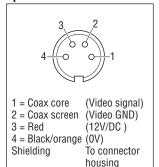
to 80V/Dc. Outputs are Short

In all these above mentioned

heating element are switched

off. This overvoltage-protection

is at 100% capacity. Between



All data subject to change without notice. All dimensions are for commercial purpose only. The camera/display systems from Orlaco comply with the latest CE, ADR, EMC and mirror-directive regulations. All products are manufactured in accordance with the ISO 9001 quality management system, ISO/TS16949 quality automotive, ISO 14001 environmental management systems and all Ex products with the IECEx scheme and ATEX directives





