

Product

DATA

Data sheet no DS0135000 EN
2013 • R1-4



Camera AMOS 129° PAL/NTSC



Article no 0135*00

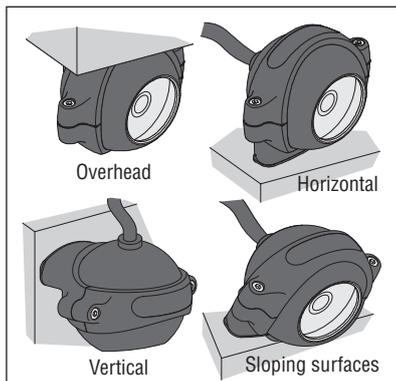
Technical Specifications

Camera AMOS 129° PAL/NTSC

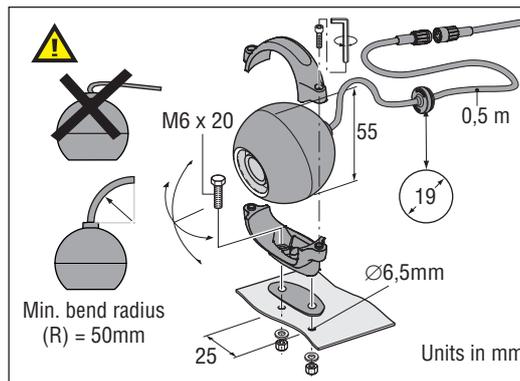
Article numbers PAL	0135000
Article numbers NTSC	0135100
Description	AMOS 129°
Lens specified	129°
Horizontal lens angle	129°
Vertical lens angle	97°
Video signal	PAL = 720(H)x576(V) 50fld/s. NTSC = 720(H)x480(V) 60fld/s. 1 Vtt composite video into 75 Ohm.
Sensor element	1/4" CMOS digital image sensor. 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	SLR Glass: Patented lens glass technology darkening/lightening itself under low light/sunlight exposure from ±10% to ±75% in full -40°C to +85°C temperature range.
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 ² /Hz) 0,04 to 0,10.
Camera bracket	Material: glass reinforced polyamide, test: 50 Nm at -40°C to +85°C.
Weight	0,21kg, 0,29 in standard packing.
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 load dumps.
Heater	2,4W max. Puls Width Modulated, activated from +30°C (min) to -40°C.
Operating temperature	-40°C to +85°C.
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	50mm.
Approvals	Approvals In compliance with all relevant EMC- and Automotive directives. 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. Mirror directive only applies for Art No. 0135010 and Art No. 0135000
Green Passport	All materials are compliant to Green Passport requirements according IMO resolution MEPC.197(62) as adopted on 15 July 2011 (Maritime sector: International Maritime Organization concerning the functions of the Marine Environment Protection Committee).

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 is at 100% capacity. Between 12V and 33V camera and heating element are fully functional. Above 33V the overvoltage protection is activated and camera plus heating element are switched off. This overvoltage-protection is deactivated below 32V. Powercircuit is protected up to 80V/Dc. Outputs are Short Circuit Protected.
In all these above mentioned values; a tolerance of +/-10% is applied.

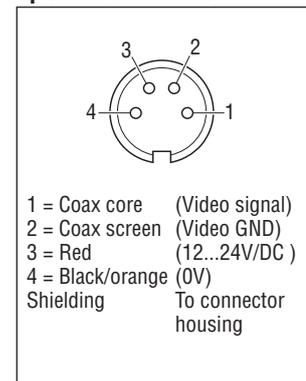
Universal camera Bracket



Camera attachment and dimensions



Front side of molded 4p male connector



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.

