





## **TECHNICAL DATA**

## Camera FAMOS 20°/129° PAL/NTSC

Article number PAL Article number NTSC Lens specified Horizontal lens angle Vertical lens angle	<b>Description</b> 0171060 0171160 FAMOS 20° 20° 20° 15°	<b>0171050</b> <b>0171150</b> FAMOS 40° 40° 31°	<b>0171040</b> <b>0171140</b> FAMOS 60° 60° 44°	<b>0171030</b> <b>0171130</b> FAMOS 80° 80° 80° 57°	<b>0171020</b> <b>0171120</b> FAMOS 102° 102° 73°	<b>0171010 0171110</b> FAMOS 118° 118° 89°	<b>0171000 0171100</b> FAMOS 129° 129° 129° 97°
Video signal Sensor element Light sensitivity Dynamic Range	Sensor PAL = 720(H)x576(V) 50fld/s. NTSC = 720(H)x480(V) 60fld/s. 1 Vtt composite video into 75 Ohm. ¼" CMOS digital image sensor. 640 H x 480 V. <0,05 Lux. 80dB.						
Power input Power consumption Inrush current Heater element Transient protection Connectors Min. cable bend radius	<b>Electrical</b> 1224V/DC. 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. <i>In all these above mentioned values; a tolerance of +/-10% is applied.</i> Heating off: 1.1W at 12V, 1.2W at 24V; Heating on: Max. power at 24V 0,15A = 3,6W. Max. power at 12V 0.28A = 3.4W. At 12V: 4.5A, 300us. At 24V: 12.0A, 300us. 2.4W max. Pulse width modulated, activated from +30°C (min) to -40°C. 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. 0,5m cable with 4p molded male connector (camera power input and video output). 50mm.						
Housing Ingress protection Mounting hardware Shock constancy Camera bracket Weight Truck use Operating temperature Storage temperature	MechanicalCycoloy (PC + ABS). Filling: Camera is potted with Polyurethane elastomer.IP67 according to IEC 60529; dust tight and protected against the effects of continuous immersion in water up to 1mfor 30 minutes. IP69k according to DIN 40050-9: camera can withstand a high pressure cleaning with water:14-16L/min. 80°C and 100 bars flow.Standard stainless steel.Shock and vibration resistant for usage on trucks, cranes, fork-lifts, maritime applications, machinery. Random vibrationtest 15,3Grms at frequency: 24 to 2000, PSD (g²/Hz) 0,04 to 0,10.Material: glass reinforced polyamide, test: 50 Nm at -40°C to +85°C.0,21kg, 0,29 in standard packing.Withstand all fluids and materials used in and around trucks like: ammonia solution 5%, ethanol 80-100%, isopropanol5-10%, soapy water (min. 50% soap per volume), alkaline degreasing compounds(used in high pressure washing equipment)40°C to +85°C40°C to +100°C.						
Approvals	<b>Certification</b> 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.						

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

Green Passport

Electrical connections Front side of molded 4p male connector

1 = Coax core= Video signal2 = Coax screen= Video GND3 = Red= 12...24V/DC4 = Black/orange= 0VShieldingTo connector housing

All data subject to change without notice. All dimensions are for commercial purpose only.

Committee).

The camera/display systems from Orlaco comply with the latest CE, ADR, EMC and mirror-directive regulations, where applicable. All products are manufactured in accordance with the ISO 9001 quality management system, IATF 16949 quality automotive, ISO 14001 environmental management systems and all Ex products with the IECEx scheme and ATEX directives, where applicable.





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