

Product information



Part number: A.005203 / A.005204 / A.005205 / A.005206 A.005207 / A.005208 / A.005209

Camera Compact Color FAMOS PAL

Description

The FAMOS Camera is an extreme sturdy, compact industrial camera that can be used in virtually all vision solutions on machines, vehicles and vessels. The Advanced CMOS sensor camera is shock and vibration-proof, 100% waterproof, has heated lens glass and provides the best possible image in all weather conditions. In addition, the integrated Safety ticker detects 'frozen' images, so that you definitely know that the camera is active.

The new FAMOS cameras are characterized by hardware enhancements. The redesign has reduced the number of parts, which has increased the reliability of the camera further. This has allowed the camera to achieve the highest EMC standards. With its advanced CMOS sensor, the camera has a light sensitivity of 0.05 lux. The new lens in this camera has heated glass as standard, with a special hard coating to prevent scratches.

Angles								
Part.nr	A.005203	A.005204	A.005205	A.005206	A.005207	A.005208	A.005209	
Lens	20°	40°	60°	80°	102°	118°	129°	
Hor.ang	20°	40°	60°	80°	102°	118°	129°	
Vert.ang	15°	31°	44°	57°	73°	89°	97°	
Sensor								
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. 640 H x 480 V					
Light sensitivity			< 0,05 Lux					
Dynamic Range			80dB					
Electrica	al							
Power input			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 functio-					
			nal. 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 mer	tioned values; a tole	rance of +/-10% is a	oplied.		
Power consumption			Heating off: 1.1W at 12V, 1.2W at 24V; Heating on: Max. power at 24V 0,15A = 3,6W					
			Max. power at 12V 0.2	8A = 3.4W				
Inrush C	Inrush Current		At 12V: 4.5A, 300us. At 24V: 12.0A, 300us					
Heater E	Heater Element		2.4W max. Pulse width modulated, activated from +30°C (min) to -40°C					
Transient Protection			Camera may be powered directly from 12V or 24V battery without additional electrical protection					
			since camera has an ii	ntegrated circuit that	protects the camera	against over- and u	ndervoltage,	
			spikes, ripples and loa	ddumps				
Connectors			0,5m cable with 4p molded male connector (camera power input and video output)					
Min. Cal	ole Bend Radius		50mm					

a sheet

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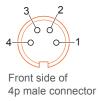
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Mechanical					
Housing	Cycoloy (PC + ABS). Filling: Camera is potted with Polyurethane elastomer.				
Ingress protection	IP68 according to IEC 60529; dust tight and protected against the effects of continuous immer-				
	sion in water up to 10m under water for 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.				
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 (g²/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).				
Operating Temperature	Operating temperature -40°C to +85°C.				
Storage Temperature	Storage temperature -40°C to +100°C.				
Certification					
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, includ-				
	ing interference that may cause undesired operation. Certificates available upon request.				
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).				
Electrical Connections					



1 = Coax Core 2 = Coax Screen 3 = Red 4 = Black/Orange Shielding

Video signal Video GND 12...24VDC 0V To connector housing



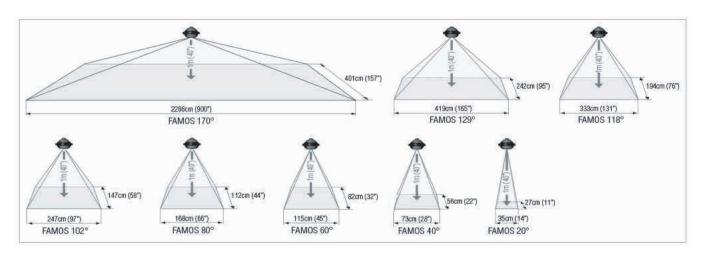
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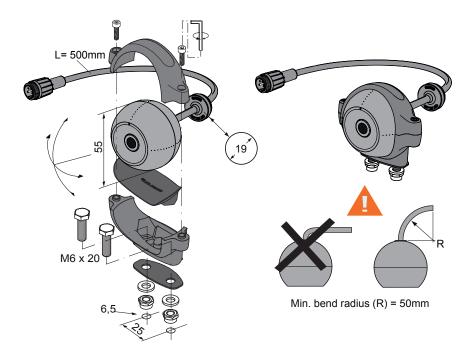
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Field of Vision



Dimensions

All units in mm



NOTE NTSC models also available. For more information, please contact us.