

Monochrome Day & Night-Vehicle Mounted Camera with Washer Nozzle and Objective Window Heating

type number 00900



Main Features:

- Ultra low light camera produces clear images on both day and night conditions. The camera can automatically change between day and night modes of operation depending on the intensity illumination.
- No need for artificial illumination in the night mode
- Superior light sensitivity comparable to Image-Intensified CCD cameras is attained by forward looking video processing inside the CCD-Sensor.
- Main advantages over Image-Intensified CCD cameras are:
excellent daylight performance and image sharpness, reliability, long lifetime and better price-performance ratio.
- applicable as rear view camera and for observation of vehicle surroundings
- Rugged, water-proof and extremely shock and vibration resistant camera housing for use under harsh environmental conditions as in armoured wheeled or tracked military vehicles
- Lens window cleaned with high pressure water jet
- Cleaning nozzle and a check valve integrated at the camera housing
- Heating for quick de-icing of the objective lens window with a variety of configuration possibilities:
 - automatic heating at low temperature
In this case, heating can be inhibited to make the camera invisible for enemys infrared cameras.
 - Heating switchable by display with time function
 - Heater connected in parallel to the heating of outside rear view mirror or windscreen switched by mirror / windscreen de-ice timer relay or temperature sensor.

Technical Data:

Sensor type:	1/3" EXview HAD B & W CCD
Active pixels:	752 x 582 (H x V)
Video standard:	CCIR / STANAG 3350B (EIA / STANAG 3350C version on request)
Video output:	VBS 1 Vss / 75 Ω
Horizontal resolution:	570 TVL
Exposure control:	Shutter iris and AGC
Sensitivity (day):	0,3 Lux for 48 dB SNR, 40 IRE
Sensitivity (night):	0,00025 Lux for 20dB SNR, 40 IRE
Standard lens:	f=3,6 mm; F=2
Angle of view:	72 °H / 54 °V (another angle of view on request)
Connection:	Shielded cable with SJTG06RT08-35PN014 plug
Power supply:	12 Vdc +/-10 %; 2 W by drivers display (Versions with 24 Vdc or 12 Vdc automotive power supply conforming to VG 96916-5 or MIL on request)
Objective lens heating:	12 Vdc or 24 Vdc / 6 W
Fluid pressure:	>2,5 bar (as from headlamp wash pump)
Fluid connection:	inner diameter of hose=5 mm
Temperature:	-40 °C to +63 °C (operating) -40 °C to +90 °C (storage)
Dimensions:	146 x 85 x 100 mm (W x H x D)
Weight:	approx. 1,3 Kg
Colour:	RAL 6031 bronze green or TBD
EMC / EMI:	VG 95373 (MIL-STD-461E on request)
Protection:	IP 68 (immersion depth up to 2 m)
Shock / Vibration:	MIL-STD-810E

page 1 of 2



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Optional Accessories:

- Displays with integrated camera power supply and remote control for wash pump and camera de-icing
- Mounting adapters and wiring harnesses for various vehicles
- Video distribution units

Ask for further technical information!
Functional or interface modifications can be realized on request. Each configuration change causes a new type number.

page 2 of 2