



## True Day & Night WDR Vehicle Camera with Lens Protection

type number 01257



### Main Features:

- Produces clear images 24 hours a day
- True color pictures during daylight
- Black and white pictures at twilight with excellent light sensitivity
- Ideally suited for use with covert infrared illuminators in total darkness
- No information loss due to very large differences in light intensity within a scene thanks to **Wide Dynamic Range**  
e.g. driving in a tunnel (daylight outside, low light levels inside) or vehicle with strong headlights follows
- Well suited to improve the view of the driver and general situational awareness
- Waterproof and extremely robust camera enclosure withstand mud, shocks and vibrations
- For use in harsh environments such as armored military wheeled or tracked vehicles
- Remote controlled door protects the lens when the camera is currently not used.
- Durable brush on back side of protective door for objective lens window cleaning
- Lens window made from chemically hardened glass
- Basic remote control (camera on / off, lens cleaning and closing protective door) via discrete control input
- sophisticated remote control for all camera functions and Built-In Test via CAN-Bus

### Technical Data:

Sensor type:	1/3" SONY Exmor CMOS 1.3 Megapixels
Active pixels:	1305 x 1049 (H x V)
Video standard:	PAL / NTSC
Video output:	CVBS 1 V PP / 75 Ω
Horizontal resolution:	more than 800 TVL
Exposure control:	Shutter iris Automatic gain control
Sensitivity (color):	0.4 Lux; 40 IRE (Sens-Up off)
Sensitivity (B&W):	0.04 Lux; 40 IRE (Sens-Up off)
Further improvement of sensitivity by Sens-Up:	2x ~ 30x for normal mode 2x ~ 6x for WDR mode
IR cut filter removal for day and night switching:	automatically depending on the illumination intensity or controlled by CAN-Bus
WDR:	Using frames of Long & Short Exposure
Dynamic Range with WDR mode:	120 dB
Noise suppression:	Enhanced 2D + 3D Dynamic Noise Reduction
Picture orientation:	Normal, Mirror, V-Flip, Rotate
Image processing:	Zoom, Pan, PIP
White Balance:	ATW, AWB, MANUAL
Standard lens:	f = 3.6 mm; F = 2
Angle of view:	72° H / 54° V (another angles of view on request)
CAN-Bus:	Version 2.0B (SAE J1939) with protocol CAN-Open or CAN-CUP
Integrated test patterns:	Grey scale, Multiburst



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### Optional Accessories:

- Infrared illuminator type number 01255 with radiation characteristics matched to camera's angle of view can be directly controlled from the camera.
- Various displays and video distribution units with integrated camera remote controllers
- Mounting adapters and wiring harnesses for various vehicles

Infrared illuminator control interface:	Inputs & Outputs for dimming and function monitoring
Connector:	VG95234A20A48PN
Power supply:	24 V DC according to VG 96916-5
Power input:	< 25 W
Temperature:	-40 °C to +72 °C (operating) -40 °C to +90 °C (storage)
Dimensions:	160 x 90 x 141 mm (W x H x D) without connector
Weight:	approx. 2.2 kg
Color:	RAL 6031 bronze green or TBD
EMC / EMI:	VG 95373 (MIL-STD-461E on request)
Protection:	IP 67 (immersion depth up to 4 m)
Shock / Vibration:	MIL-STD-810E

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

Picture of customized camera version published with permission of Rheinmetall Landsysteme GmbH

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