



## Low Light Full HD Vehicle Camera with Lens Protection

type number 01299



### Main Features:

- Rugged camera for operating under harsh environmental conditions
- Well suited to improve driver's view and for general situational awareness
- SONY's 1/1.9" Exmor CMOS image sensor for excellent light sensitivity
- runs up to 1080p50/60 over 3G-SDI
- optimized for low latency
- No information loss due to very large differences in light intensity within a scene thanks to **Wide Dynamic Range**
- 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 not currently 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
- Video outputs galvanically isolated from the vehicle power supply

### Technical Data:

Sensor type:	1/1.9" Exmor Color CMOS
Active pixels:	1920 x 1080 (H x V) 2.1 Megapixel
Video standards:	1080p@25 / 30 / 50 / 60 720p@25 / 30 / 50 / 60 PAL / NTSC
Scanning System:	Progressive Scan (16:9)
Video output 1:	3G-SDI
Video output 2:	CVBS 1 V PP / 75 Ω
Horizontal resolution:	More than 1000TV Lines
Exposure control:	Shutter Iris 1/25(30)~1/30000s Automatic gain control
Exposure control modes:	WDR, HLC, BLC
Dynamic range with WDR mode (only video output 1):	120 dB
Day & Night Mode:	AUTO, COLOR, B/W, EXT
Sensitivity:	0.04 Lux (color) / 50 IRE @F = 1.4
Sensitivity (if Sens-Up On):	0.0006 Lux / 50 IRE @F = 1.4
White balance:	AWB, ATW
Noise suppression:	Enhanced 3D Dynamic Noise Reduction
Lenses:	M12 mount, fixed iris
Largest angle of view:	limited to maximal 72° H / 54° V
Effective angle of view:	Depends on selected lens
Picture orientation:	Normal, Mirror, V-Flip, Rotate
CAN-Bus:	Version 2.0 B (SAE J1939) with protocol CAN-Open or CAN-CUP
Connector:	D38999FD97D or triaxial
Power supply:	24 V DC according to VG 96916-5
Power input:	< 25 W

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### Options:

- Multiple lenses for different angles of view
- Video Output EX-SDI or Analog-HD instead of 3G-SDI
- ICR (Infrared Cutoff Removal) for better light sensitivity in monochrome mode and for use with covert infrared illuminators in total darkness
- Infrared illuminator control interface (for dimming and function monitoring)

### Optional Accessories:

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

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
Paint finish:	RAL 6031 bronze green
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.

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