



## Full HD Wide Angle Vehicle Camera

type number 01301



### Main Features:

- Rugged camera for operating under harsh environmental conditions as in armoured wheeled or tracked military vehicles
- Well suited to improve driver's view and for general situational awareness
- 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
- Lens window made from chemically hardened glass
- 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:	1/3" Color CMOS
Active pixels:	1920 x 1080 (H x V) 2.1 Megapixel
Video standards:	1080p@50 / 60 1080i@50 / 60 1080p@25 / 30 720p@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 Motor driven iris
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 (if Sens-Up On):	0.2 Lux (color) / 50 IRE
Sensitivity (if DSS On):	0.002 Lux / 50 IRE
White balance:	AWB, ATW
Noise suppression:	Enhanced 3D Dynamic Noise Reduction
Standard lens:	f = 1.78 mm; F = 2
Angle of view:	132° H / 98° V
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

page 1 of 2



## Full HD Wide Angle Vehicle Camera

type number 01301

### Options:

- Multiple lenses for smaller 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)
- 6 Watt-Heating for quick de-icing of the objective lens window

### Optional Accessories:

- Infrared illuminator type number 01256 with radiation angle matched to cameras angle of view can be directly controlled from the camera
- Tree deflector
- Cleaning nozzle
- Various displays and video distribution units with integrated camera remote controller
- Mounting adapters and wiring harnesses for various vehicles

Power input:	< 25 W
Temperature:	-40 °C to +72 °C (operating) -40 °C to +90 °C (storage)
Dimensions:	160 x 90 x 128.5 mm (W x H x D) without connector
Weight:	approx. 2.2 kg
Paint finish:	RAL 6031 bronze green or TBD
EMC / EMI:	VG 95373 (MIL-STD-461E on request)
Protection:	IP 68 (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.

page 2 of 2