



Full HD Wide Angle Ball Vehicle Camera

type number 01297



Main Features:

- Rugged compact 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**
- Extremely shock and vibration resistant waterproof housing
- Reinforced black plastic bracket allows flexible alignment of viewing direction
- Picture can be mirrored for rear view
- Heating for quick de-icing of the objective lens window with a variety of configuration possibilities as:
 - automatic heating at low temperature

In this case, heating can be inhibited to make the camera invisible for enemy's infrared cameras.

 - Heating switchable by display control key (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" 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
Scanning System:	Progressive Scan (16:9)
Video output:	3G-SDI
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:	120 dB
Day & Night Mode:	AUTO
Sensitivity:	0.1 Lux (color) / 50 IRE
Sensitivity (if Sens-Up On):	0.001 Lux / 50 IRE
White balance:	AWB
Noise suppression:	Enhanced 3D Dynamic Noise Reduction
Lenses:	M12 mount, fixed iris
Largest angle of view:	limited to maximal 113° H / 84° V
Effective angle of view:	Depends on selected lens
Picture orientation:	Normal, Mirror, V-Flip, Rotate
Camera Power supply:	12 V DC +/-10 % / 2 W
De-icing:	12 V DC / 2.5 W
Temperature:	-40 °C to +71 °C (operating) -40 °C to +90 °C (storage)



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Options:

- Multiple lenses for different angles of view
- Video Output EX-SDI or Analog HD instead of 3G-SDI

Optional Accessories:

- Rain- and sun protection shed
- Tree deflector
- Cleaning nozzle
- Displays with integrated camera power supply and remote control for wash pump and camera de-icing
- Camera power supply for land vehicles (24 V DC) conforming to standard VG96916-5
- Video distribution units

Dimensions:	ball-diameter 55 mm (centre of sphere 40 mm about mounting surface)
Weight:	approx. 500 g
Material / Surface:	Black anodized Aluminium
EMC / EMI:	according to VG 95373 (MIL-STD-461E on request)
Protection:	IP 69k according to EN 60529
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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