



Our little Gem is a popular new super compact **Full HD 3G-SDI / HD-SDI** output camera.

The Gem measures only 29 x 29 x 29mm but delivers very high quality and versatile imaging quality and from this compact footprint.

It is a rugged and versatile little camera and can be supplied as an OEM module. It is already used in a wide range of industries and applications including Broadcast, Condition Monitoring and Scientific Research.

Specifications:

- Full HD Progressive / Interlaced camera
- 1/2.9-inch CMOS Sensor
- 1080i, 1080p or 720p output
- 3G-SDI & HD-SDI output
- 0.2 lux, F1.2 low light sensitivity
- Versatile & Compact camera ()
- On Screen Display
- Control via built-in joystick
- Dimensions 29 x 29 x 29mm
- Weight 40 grammes
- OEM Board version also available

Applications:

- Medical
- Broadcast
- Scientific Imaging including Microscopy
- Sports Science
- Machine Vision
- Parts Inspection
- Aerial Imaging / UAV
- Robotics
- CCTV, Surveillance, etc
- Police / Military



SeeSense are able to provide full technical assistance and back up for this camera. Please contact SeeSense for further details and for accessory options

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Specification:

Power Requirements	12 V ~ 24 V DC \pm 10% 2.3W 30fps, 3.3W 60fps
Image Sensor	1/2.9-inch 2.1 MP Sony IMX136 LQ CMOS
Pixel Size	2.8 μ m x 2.8 μ m
Effective Pixels	Horizontal: 1,952, Vertical: 1,116
Output Pixels	Horizontal: 1,920, Vertical: 1,080
Output Mode	1080 i / 1080 p / 720p
Synchronising System	Internal
Scanning System	Progressive / Interlace
Video Output Level	3G-SDI & HD-SDI 1.0 Vp-p (75 Ω , Composite) PAL / NTSC (Selectable)
Output Format	3G-SDI 1080p 60 fps HD-SDI 1080p 30 fps, 1080i 60 fps, 720p 60 fps
Signal / Noise	>50dB AGC Off
Minimum Illumination	0.2 lux (Colour), 0.1 lux (B&W) @ F1.2
Function Settings	On Screen Display (by switch or RS485)
Electronic Shutter Mode	AUTO / MANUAL 1/30 - 1/50,000 Second
Auto Gain Control (AGC)	0~15 steps
White Balance	ATW / AWC / Indoor / Outdoor / Manual

Specification Continued:

Adjust	Sharpness / Monitor / OSD / LSC / Video Out (NTSC / PAL)
Privacy Zone Masking	On / Off (8 Zones Selectable)
Motion Detection	On / Off (4 Dynamic Zones)
D Effect	Freeze / Mirror / D-Zoom / Neg. Image
Day / Night	Auto / B&W / Colour / EXT (Selectable)
Backlight Compensation	Off / WDR / BLC / HSBLC
D-WDR / ACCE	Low / Middle / High / Off, 0~15 steps
Digital Noise Reduction	Smart NR / 3DNR / 2DNR
Dead Pixel Compensation	Live DPC / Static DPC / Black DPC
Defog	Low / Middle / High / Off
Sens Up	Auto (Selectable limit~x30 / Off)
Protocol	Pelco-D / Pelco-P
Communications	RS-485, [Baud 2400~38400]
Lens mount	C / CS-mount
Dimensions	29 x 29 x 29mm (W) x (H) x (D) (Connector & CS-mount excluded)
Weight	Approx. 40 grammes
Operating Temperature	-5 ~ + 50°C (0%~80% Relative Humidity)
Storage Temperature	-20 ~ + 50°C (0%~90% Relative Humidity)



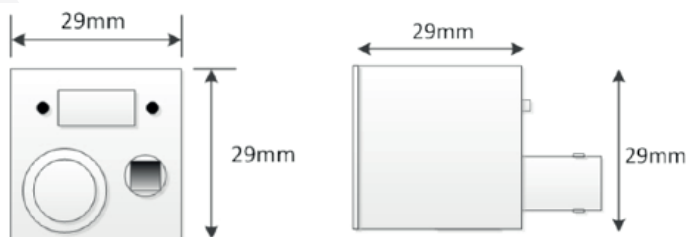
Please contact SeeSense for further details of this camera and a list of compatible S, CS & C-mount lenses:

www.seesense.eu sales@seesense.eu

Accessories

Please contact SeeSense about the range of lenses we can offer for this camera.

- SeeSense can offer a selection of S-mount (M12) lenses which can be fitted to this camera making an Ultra-Compact solution.
- We can also offer an IR sensitive version which makes it ideal for night surveillance.



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