

# GTIC2-SR/HR series

Compact high resolution thermal imaging cameras



## Product information

Compact thermal imaging cameras for use in combination with many indoor applications, the high speed pan/tilt system ARGUS or specially designed weather proof housings. All cameras are suitable for long distance video surveillance in total darkness, light fog or smoke. Depending on the application there are two different line-ups with standard resolution (320 x 160 pixel) and with high resolution (640 x 512 pixel) at different focal length available. All cameras offer a thermal sensitivity of < 50 mK, are equipped with an uncooled microbolometer and deliver crisp and clear digitally processed images with excellent contrast in PAL format.

- | Unobtrusive video surveillance or video motion detection in total darkness
- | Easy to be integrated into CCTV-systems
- | Especially suitable for large area surveillance (very early detection)
- | Reduction of false alarms (e.g. scattered light) in combination with video motion detection
- | Suitable for use in combination with ARGUS
- | Very high thermal picture resolution

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Competence in Video Security

# Technical data

	<b>GTIC2-SR and GTIC2-HR series</b>
Thermal Imager	Uncooled VOx Microbolometer
Picture format	5:4
Video standard	CCIR/PAL (composite)
Video output	Composite video: 1 Vpp, 75 Ohm
Pixel (H x V)	SR Line-up: 320 (H) x 240 (V) HR Line-up: 640 (H) x 512 (V)
Pixel size	SR Line-up: 25 µm HR Line-up: 17 µm
Spectral band	7.5 - 13.5 µm
Frame rate	9 Hz (8.3 Hz)
Sensitivity	< 50 mK at F/1.0 (noise reduction on)
Time to Image	< 3.5 s
Picture enhancement functiond	AGC, BPR [Bad pixel replacement], NUC [non-uniformity correction - automatic calibration function]
Digital Detail Enhancement	Yes
Dimensions (w/o lens) in mm	38.1 x 38.1 x 29.5 (1.5" x 1.5" x 1.16")
Precision Mounting Holes	M2 x 0.4 on 3 sides (2 per side)
Polarity Control	Yes
Max. vibration	4.3 g three axis, 8 h each
Shock proof	200 g shock pulse (with 11 ms sawtooth)
Lens / Field of view	The following fix focal length / fields of view are available: SR Line-up: 9 mm / 48° (H) - (0.02462) 13 mm / 34° (H) - (0.02463) 19 mm / 24° (H) - (0.02464) 25 mm / 18° (H) - (0.02465) 35 mm / 13° (H) - (0.02466) 50 mm / 9,1° (H) - (0.02467) 60 mm / 7,6° (H) - (0.02468) 100 mm / 4,6° (H) - (0.02469) HR Line-up: 13 mm / 45° (H) - (0.02470) 19 mm / 32° (H) - (0.02471) 25 mm / 25° (H) - (0.02472) 35 mm / 18° (H) - (0.02473) 50 mm / 12,4° (H) - (0.02474) 60 mm / 10,4° (H) - (0.02475) 100 mm / 6,2° (H) - (0.02476)
Operating temperature	- 40 °C to + 80 °C
Humidity in operation	5 % to 95 % rel. humidity (non condensing)
Voltage supply	6.5 - 27 V DC in combination with replicator kit
Power consumption	Max. 1.1 W
Power Dissipation	~1.0 W Steady-State
Connectors	15-pin D-Sub plug: Connector for video output and power input
Dimensions in mm (W x H x D)	64 x 57.6 x 124.6
Weight	Varies from 72 g up to 503 g (Depending on camera model)
Certifications	ROHS, REACH and WEEE compliant. EMC Radiation FCC/CE Class B.
Accessories	Cable connection kit (15-pin D-Sub socket, cable length 0.4 m, open cable ends) for assembly into the ARGUS-System, Mount adapter
<b>Order No.</b>	<b>0.02462 - 0.02476</b>

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Technical alterations reserved

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