Driving vehicle thermal sensor LWIR

TCIG Series

TCIG1 and TCIG2 driving enhancement thermal sensor are designed to work and perform 24/7 in harsh envirnoments, where extreme temperatures, vibrations and others affect regular thermal systems TCIG systems perform seamless. TCIG systems are designed to be installed in military vehicles, minning mega trucks and other industrial machines.

Protected by a thick heavy duty alluminum body and ready to be immersed in water, TCIG is designed to resist dust, dirt, water and any rough condition. It includes a quick mount bracket to install it where ever you need and with quick connection IP67 cables and wide working voltage.

Designed with single or dual video output to connect 2 monitors, and even HDMI high definition video connection to ensure you get best video details.

Wide range of lenses fitting your requirements

Select from 8 to 35mm. lenses making TCIG thermal sensor suitable for driving enhancement or for mid range detection.

Key features:

- **Thermal resolution in 640x480 and 384x288 pixels**
- **High performance NETD thermal a-Si sensors with 12µm. pixel pitch**
- **Athermal focus free lenses with auto defroster**
- **Heavy duty aluminum casting body**
- **IP67 waterproof**
- **Vibration proof**
- **Wide working voltage range**
- **Military grade 8" and 10" optional**
- **DVR ready, with GPS location, video transmission**
- **Google maps location, with DVR**

Specifications:

Model	TCIG Series	
	Type	Vehicle driving enhancement thermal system
THERMAL SENSOR	Sensor	LWIR, uncooled a-Si micro-bolometer
	Wavelength	8-14µm.
	NETD	<40mK@f/1,0 50Hz., 300K
	Pixel pitch	12µm.
	Resolutions	384x288 / 640x480
	Color palette	10 colors
	Image enhancement	Yes
	Frames/second	50/60fps.
	Lenses	7,5/8.1/19/25/35mm. athermal lens free focus
	NUC	Automatic
	Analog video output	2X CVBS connectors
	Digital video output	1X HDMI connector
	Time to image	2 seconds
	Working temperature	-25/70ºC.
	Working voltage	8-36vDC. / 2,5W.
	Waterproof	IP67
	Shock proof	As per standard ES95400
	Weight	243gr., without lens
	Size	45x57x55.2mm.
DVR	System	Embedded Linux
	Video input	4 Channel
	Video output	2X CBVS, 1X HDMI
	Recording resolution	1920 x 1080
	Frames/second	120fps in 1920x1080
	Video search	Time / Event / Calendar / Quick Play
	USB connections	2X USB
	Mini PCIe card	1
	Storage	2X Micro SD up to 512Gb. (Also available with 1X SSD/2.5" HDD)
	I/O connections	4X sensor, 1X alarm,1x RS485, 2x USB, 3 Axis G sensor 1CH Video / Audio In, DV12V Out, 3CH Video In DC12V Out, 1 DC power in
	Protocols	Pelco D/P
	Power	6-36v.DC with programmable power on/off delay
	Working temperature	-25°C~70°C
	Network	1X RJ45 10/100 Mbps. Ethernet
	Humidity	95% not condensing
	Size	104x73x23mm.
	Options	3G/4G data, GPS antenna, Wifi module, G-shock sensor
	Weight	180gr.
	Warranty	1 year

10" Monitor	Type	Military grade 10¨ monitor with aluminum frame and heavy duty bracket
	Resolution	1024x768
	Pixel pitch	0.0685 (H) x 0.2055 (V) mm.
	Contrast ratio	1200
	Brightness	350 cd/m2
	Viewable angle	-88~88 (H) -88~88 (V)
	Active display area	210.4(H) x 157.8(V) mm
	Colors	16.2M
	Back panel I/0 port	1xVGA or 1xHDMI, Military grade lockable (MS27467T9F98S) power
	Control button	Menu/Enter, Auto-adjust / Esc, Brightness Up / Increase, Brightness Down / Decrease Button, Display Power Button
	LED indicator	On/Off, display sleep
	Size	315mm. x 250mm. x 67mm.
	Power input	12V DC / MIL-grade connector
	Power demand	22W
	Working temperature	-10/55ºC.
	Humidity	10-95% not condensing
	Waterproof	IP65
	Bracket	Heavy duty metal brack with quick lock
	Mounting	VESA mount, Vehicle mount
	Shock	30g for 18ms, 300m/s
	Vibration	1.60/1.96/2.18 g rms for XYZ / 5-500Hz
	Warranty	1 year

* Different weather conditions and temperature changes may affect to final distances, the stated distances are references.
* Tanz Security reserves the right to change products or specifications without notice.

Multiple video outputs

Tanz Security TCIG vehicle driving sensors provide wider connectivity than any other in the market, select from CBVS dual port connection or HDMI connection to get best quality image or multiple monitor connections for driver other user control.

- 2X Analogue video output
- 1X HDMI video output
- 1X Wide range voltage input

DVR ready

By adding TDVRL24SD DVR to the driving system user can add several features to the driving and control solution, TDVRL24SD DVR is a compact size but powerful recoding system. Designed without any moving part and fanless for extreme use and weather conditions.

TDVRL24SD DVR is recording video in SSD o in Micro SD cards and able to record and stream real time video over 3G/4G networks.

Local video recording
3G/4G real time video streaming
GPS location
Google maps location
Itinerary recording in Google maps
G-shock record

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