GSTiR

iDAS Series
Thermal Modules
(For Vehicle Electronics)

Enhance Driver's Visual Perception

Description

iDAS series thermal module for vehicle electronics is effective to eliminate the interference of high beams from oncoming vehicles, increasing drivers' perception towards the surrounding environment and seeing distance in darkness or bad weather, such as rain, snow, haze and dust, so that the safety of drivers, passengers, pedestrians and vehicles can be guaranteed.

A Great Distance of View
- See clear image 300 meters away beyond the reach of vehicles' headlights
- Enhance drivers' field of view so as to better avoid obstacles and identify targets

Intelligent Alarm
- Base on a lot of model trainings and own a set of mature AI algorithms
- Identify pedestrians, cyclists, vehicles and give warning in advance

Easy to be Integrated
- Support UDSonCAN Protocol (iDAS 384 S)

High Reliability & Stability
- Meet IP67 protection level

All-weather Application
- Anti-glare interference from oncoming vehicles in dark night
- Get clear image in harsh environment such as rain, snow, fog and dust

Model	iDAS 384	iDAS 384 S
IR Detector Performance		
Resolution	384×288@17μm	
Spectral Response	8~14μm	
Typical NETD	＜40mK	
Image Display Performance		
Focal Length	9.7mm	
Field of View	37°×28°	
Video Output Format	CVBS	FPD-Link III
Output Image Frame Rate & Resolution	PAL 768×576@25Hz	DV 384×288@50Hz
System Features		
Start-up Time	≤8s (Room Temperature）	
Heater	When the Window Temperature is Lower than 2℃±2℃, Start Heating by itself When the Window Temperature is Higher than 7℃±2℃, Turn off Heating by itself	
Compensation Algorithm	Automatic Shutter Compensation	
Image Algorithm	Automatic Brightness Contrast / Image Enhancement	
Communication Interface	RS232, Baud Rate: 115200bpsCAN Communication, Speed 500kbps	RS232, Baud rate: 115200bps
Pedestrian / Vehicle Detection	/	Pedestrian & Vehicle Detection(With Algorithm Control Box)
Electrical Features		
Supply Voltage	DC9V~32V	DC8V±0.5V
Overall Power Consumption	≤3.5W@24V Power Supply, Window Heating is off ≤9W@24V Power Supply, Window Heating is on	≤2W@8V Power Supply, Window Heating is off ≤5W@24V Power Supply, Window Heating is on
Operating Range		
Identification Range	Person: 1.8m×0.5m ≥150m Car: 2.3m×2.3m ≥300m	Person: 1.8m×0.5m ≥150m Car: 2.3m×2.3m ≥300m
Recognition Range	/	Person ≥80m Car ≥100m
External Cable Connection		
Cable Length	4m	
Standard External Interface	Power Supply: DC5.5*2.1 Female Connector Video: RCA Lotus Male Connector Serial Port: SM 2.54-3P Male Connector (Pin)	Power Supply+Video+Serial port:LKX 06003M-D-1 (HSD LVDS4+2P Assembly Straight Head)
Physical Characteristics		
Size (mm)	40×36×58 (Without Cable)	36×36×52 (Without Cable)
Weight	150g±3g (Without Cable)	140g±3g (Without Cable)
Environmental Adaption		
Operating Temperature	-40℃ ~ +85℃	
Storage Temperature	-45℃ ~ +90℃	
Environmental Test	Salt Spray: ISO16750-4 Harsh Level IV Industrial Solvent: GB/T28046.5-2013	
Reliability Test	Vibration: ISO16750-3, Grade A Flame Retardant: GB8410, Grade B Stone Shock: ISO16750-3, Grade A ESD: Contact Discharge ± 8kV, Air Discharge ± 15kV	
Package	Sealed Case IP67	
Certification		
EMC	EMC Test Certification (ISO10605, ISO11452-4,ISO11452-2, ISO7637-2)	/