GLOBAL SENSOR TECHNOLOGY

N-Driver Series Vehicle-mounted Infrared Module

Enhance Driver's Visual Capability in Total Darkness

N-Driver 384   N-Driver 384S

Automotive night vision products are 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.

| Total Darkness | Headlight Glare | Foggy Weather |

"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.

"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.

"High Speed Data Transmission"
✔
- Support FPD-Link III LVDS interface.
- Top speed up to 1.4Gbps.

"High Reliability & Stability"
✔
- Meet IP67 protection level.

Model	N-Driver 384		N-Driver 384 S	
IR Detector Performance				
Resolution	384x288			
Pixel Pitch	17μm			
Spectral Response	8~14μm			
NETD	<50mK			
Image Display Performance				
Focal Length	9.7mm			
Field of View	37°x 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 the heating by itself			
Compensation Algorithm	Automatic Shutter Compensation			
Image Algorithm	Automatic Brightness Contrast / Image Enhancement			
Communication Interface	RS232, Baud Rate: 115200bps CAN 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				
	Person: 1.8mXo.5m	Car: 2.3mX2.3m	Person: 1.8mXo.5m	Car: 2.3mX2.3m
Observe Range	≥150 m	≥300 m	≥150 m	≥300 m
Detect Range	/		≥80 m	≥100m
External Cable Connection				
Dimension (mm)	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))	
Environmental Adaption				
Dimension(mm)	40.0×36.0×58.0 (Without Cable)		36.0×36.0×52.0 (Without Cable)	
Weight	150g±3g (Without Cable)		140g±3g (Without Cable)	
Environmental				
Operation 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 Impact: 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)		/	