ALG-TECH

ALI Series GMSL Cameras For Low-Speed Unmanned Vehicle



Product Introduction

ALG-TECH'S "ALI" series GMSL cameras are specially designed for autonomous driving, low-speed unmanned vehicles, and intelligent robots. Based on high-performance sensors, they provide a variety of specifications to flexibly adapt to various scene requirements; The built-in ISP chip integrates real-time noise reduction, color calibration and other image processing technologies, combined with high reliability design and GMSL transmission architecture, to provide stable and high-quality visual solutions for intelligent perception systems.

Product Advantages

High resolution imaging
Supports a resolution of 3MP (1920HX1536V) to meet the high-precision perception requirements of low-speed unmanned vehicles.

CMOS low light enhancement
Adopting back illuminated CMOS technology, it automatically reduces signal-to-noise ratio in nighttime and low light environments, ensuring image clarity.

Over 120dB high dynamic range
Based on multiple exposure fusion and nonlinear compression algorithm, it supports high dynamic range of ≥ 120dB, ensuring lossless details and true color image output in complex lighting conditions with interweaving brightness and darkness.

Multi sensor fusion perception
Supports external triggering and can be combined with sensors such as LIDAR and millimeter wave radar to provide multimodal data fusion.

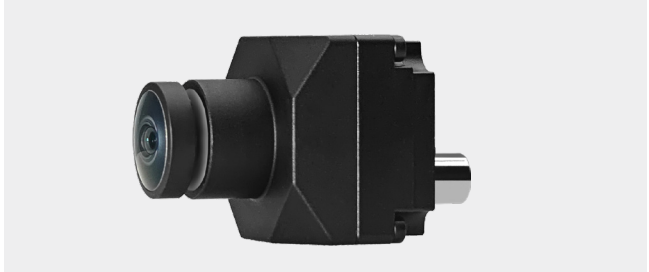
Wide temperature range operation
Through thermal stress compensation structure and metal substrate design, it supports stable operation in a wide temperature range of -40 ° C to 85 ° C and adapts to extreme weather environments.

LED anti flicker function
Adopting global shutter and adaptive exposure control, supporting LFM function, eliminating LED light source flicker interference, and ensuring visual data stability.

Product Parameters

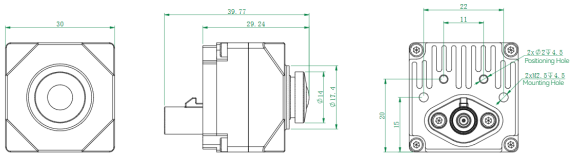


Product Code: ALI121-Y 1M
Resolution: 1280 (H) x 960 (V)
Field Of View: 129.6° / 195°
Focal Length: 0.95mm/1.75mm
Frame Rate: 30 FPS
F-NO: 1.6/2.0
Dynamic Range: 120dB
Optical Size: 1/3.75 inch CMOS
Pixel Size: 3.0um
Shutter Mode: Rolling Shutter
Transmission Protocol: GMSL 2
Camera interface: Fakra Z Code
Power Supply Mode: POC (via GMSL)
Operation Temperature: -20°C~+65°C
Protection: IP67

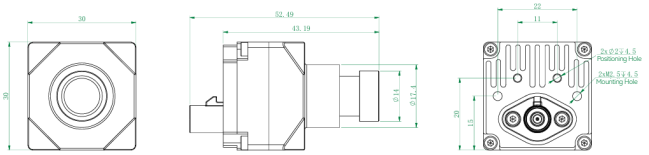


Product Code: ALI360-YH 3M
Resolution: 1920 (H) x 1536 (V)
Field Of View: 60° / 106.2° / 120° / 200°
Focal Length: 5.82mm/3.13mm/3.02mm/1.42mm
Frame Rate: 30 FPS
F-NO: 1.4/1.5/1.6
Dynamic Range: 120dB
Optical Size: 1/2.44 inch CMOS
Pixel Size: 3.0um
Shutter Mode: Rolling Shutter
Transmission Protocol: GMSL 2
Camera interface: Fakra Z Code
Power Supply Mode: POC (via GMSL)
Operation Temperature: -20°C~+65°C
Protection: IP67

Structural Dimensions



Using ALI3112-C121M17GZ00-T75MBI-IP67as an example.



Using ALI3312-C360M17GZ00-T26MBI-IP67as an example.

Shenzhen Aili-Light Technology Co., Ltd

Tel: 0755-27218150
Business: sales@alg-tech.com
Web: WWW.ALG-TECH.COM
Add: Zone 82, Haiyu Community, Xin'an Street, Bao'an District, Shenzhen City

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