

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 $\geq 120\text{dB}$, 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

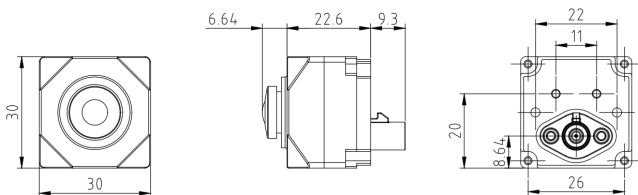
Camera interface: Fakra Z Code

Power Supply Mode: POC (via GMSL)

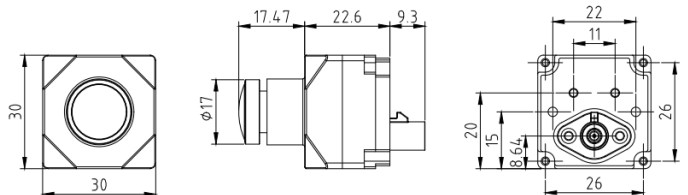
Operation Temperature: -20°C~+65°C

Protection: IP67

Structural Dimensions



Using ALI3112-C121M17GZ00-T75MBI-IP67 as an example.



Using ALI3312-C360M17GZ00-T26MBI-IP67 as an example.

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