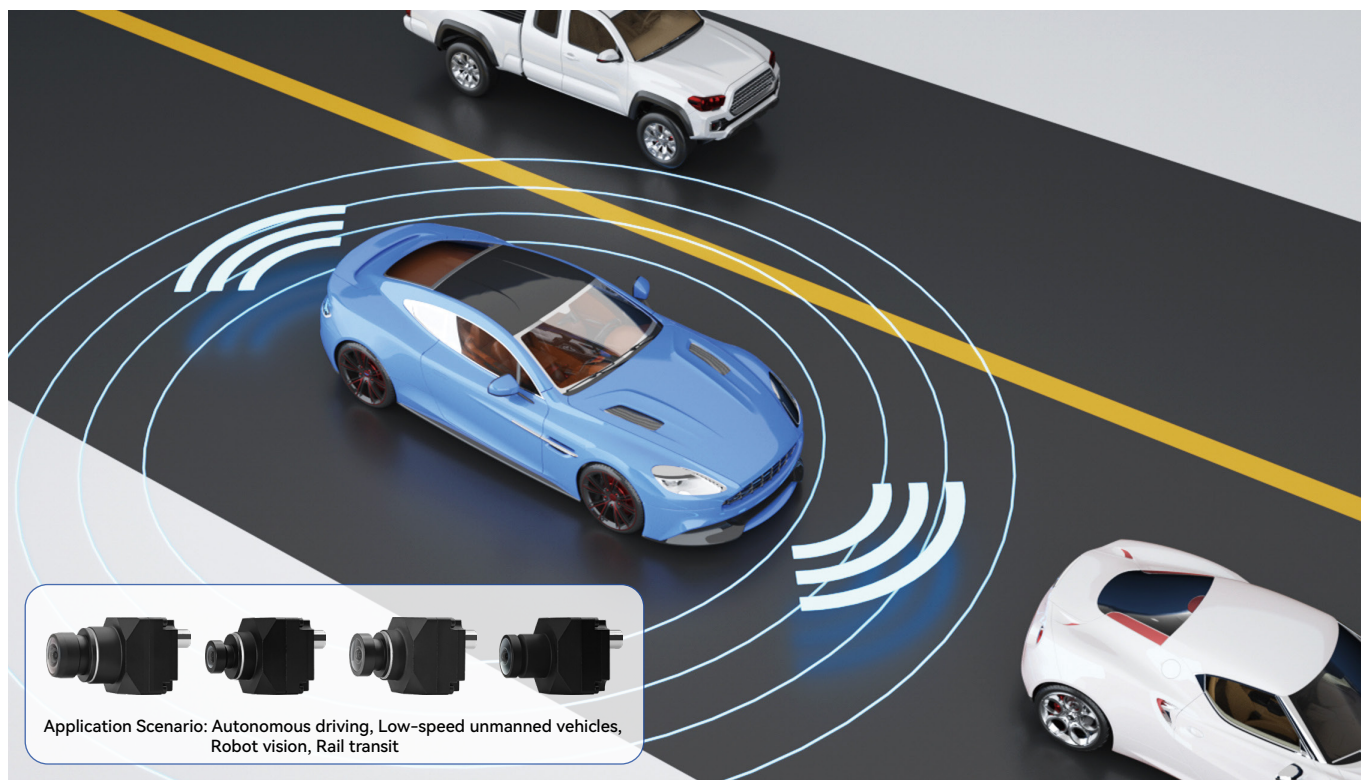


ALI Series GMSL Cameras For Automotive



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.

The camera is fully compatible with platforms such as NVIDIA, D-Robots RDKX5, S100, Rockchip RK3588, Jetson AGX Orin, Jetson AGX Thor, Raspberry Pi 5, etc.

Product Advantages

-  **High resolution imaging**
Supports resolutions of up to 8 and 3MP, meeting the high-precision perception requirements of L4 level autonomous driving.
-  **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

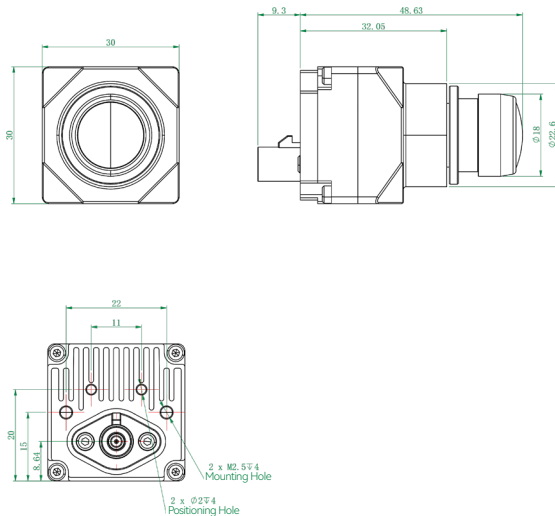


Product Code: ALIX8B-Z 8M
Resolution: 3840 (H) x 2160 (V)
Field Of View: 30° / 123.2°
Focal Length: 15.39mm/3.69mm
Frame Rate: 30 FPS
F-NO: 1.6
Dynamic Range: 120dB
Optical Size: 1/1.7 inch CMOS
Pixel Size: 2.1um
Shutter Mode: Rolling Shutter
Transmission Protocol: GMSL2
Operation Temperature: -40°C~ +85°C
Protection: IP67

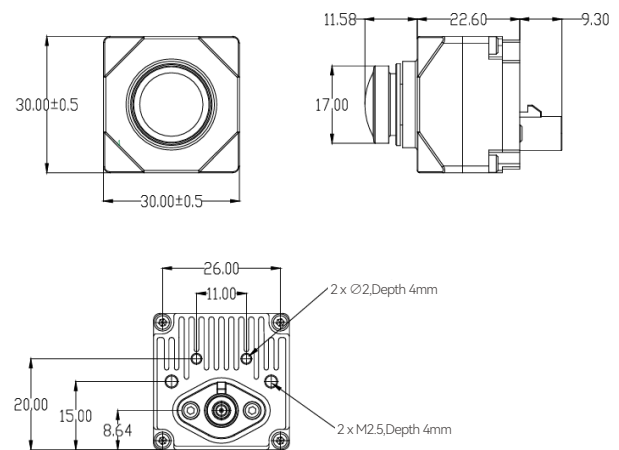


Product Code: ALIX3C-Z 2M
Resolution: 1920 (H) x 1080 (V)
Field Of View: 63.7° / 118.54° / 201.4°
Focal Length: 5.32mm/3.02mm/1.33mm
Frame Rate: 30 FPS
F-NO: 1.7/1.8/2.0
Dynamic Range: 120dB
Optical Size: 1/2.6 inch CMOS
Pixel Size: 3.0um
Shutter Mode: Rolling Shutter
Transmission Protocol: GMSL2
Operation Temperature: -40°C~ +85°C
Protection: IP67

Structural Dimensions



Using ALI2812-OCH-SABA-IP67as an example.



Using ALI3220-OX3CM17GG52-X82ABA-IP67as an example.

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 Web: www.aili-light.com
 Add: Zone 82, Haiyu Community, Xin'an Street, Bao'an District, Shenzhen City



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Product Parameters

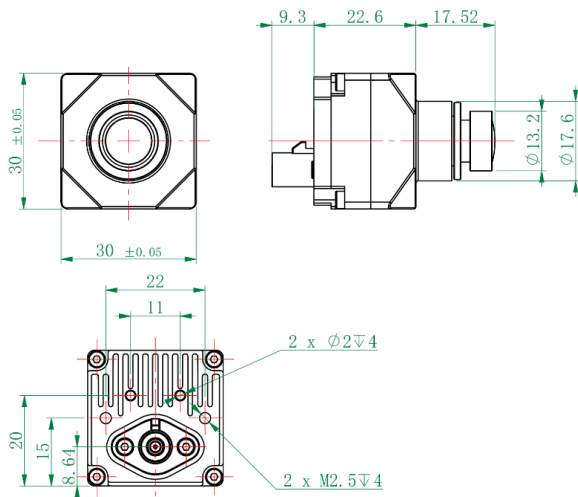


Product Code: ALI031-ZH 3M
Resolution: 1920 (H) x 1536(V)
Field Of View: 63.9° / 100° / 118.54° / 197°
Focal Length: 5.3mm/3.47mm/3.02mm/1.45mm
Frame Rate: 30 FPS
F-NO: 2.0/1.8
Dynamic Range: 120dB
Optical Size: 1/2.4 inch CMOS
Pixel Size: 3.0um
Shutter Mode: Rolling Shutter
Transmission Protocol: GMSL2
Operation Temperature: -40°C~ +85°C
Protection: IP67

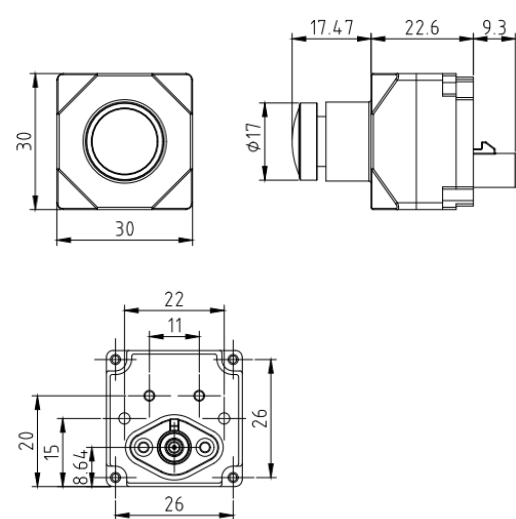


Product Code: ALI360-ZH 3M
Resolution: 1920 (H) x 1536 (V)
Field Of View: 60° / 106.2° / 120° / 200°
Focal Length: 5.82mm/3.13mm/3.02mm/1.42mm
Frame Rate: 30 FPS
F-NO: 1.4/1.5/1.6
Dynamic Range: 120dB
Optical Size: 1/2.44 inch CMOS
Pixel Size: 3.0um
Shutter Mode: Rolling Shutter
Transmission Protocol: GMSL2
Operation Temperature: -40°C~ +85°C
Protection: IP67

Structural Dimensions



Using ALI2206-SCH-SABA-IP67as an example.



Using ALI3312-C360M17GZ00-T26MBI-IP67as an example.

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