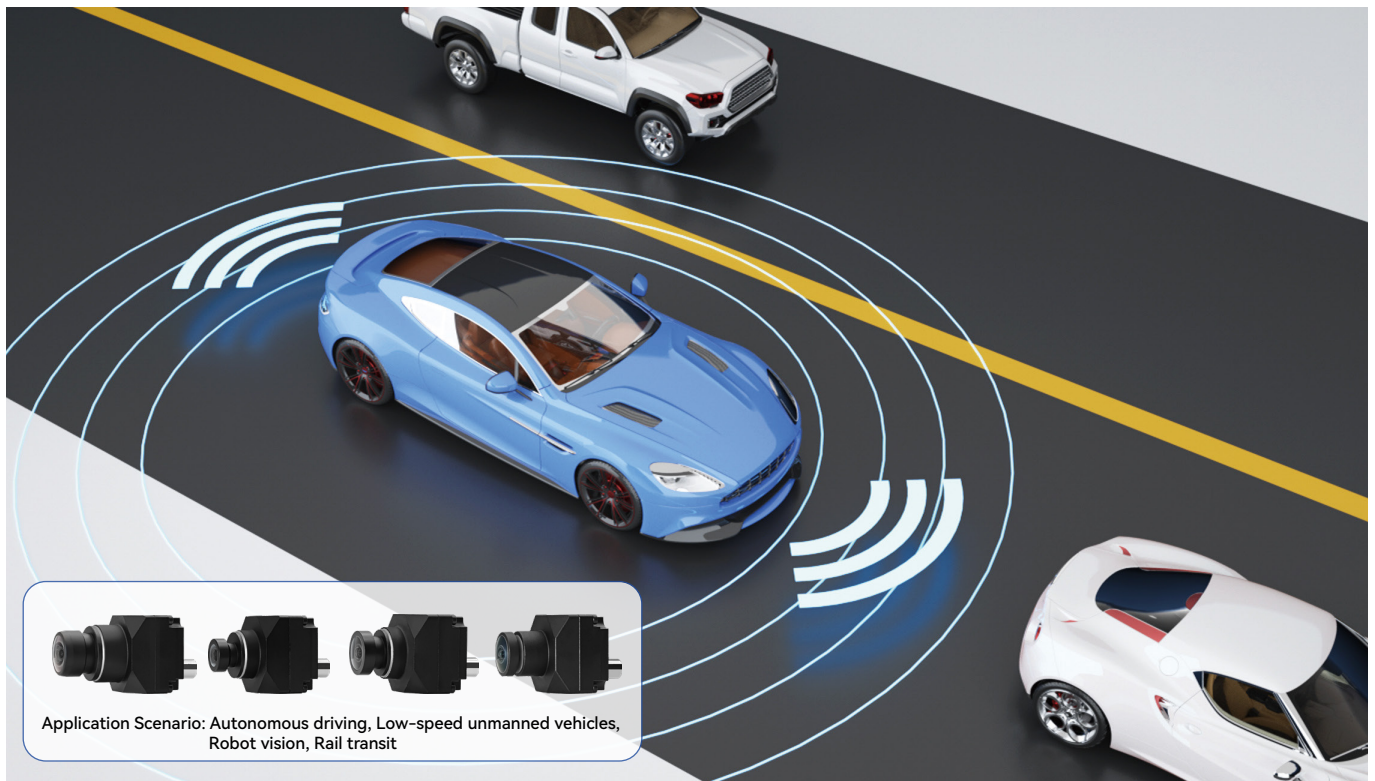


ALI Series GMSL Cameras For Automotive



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

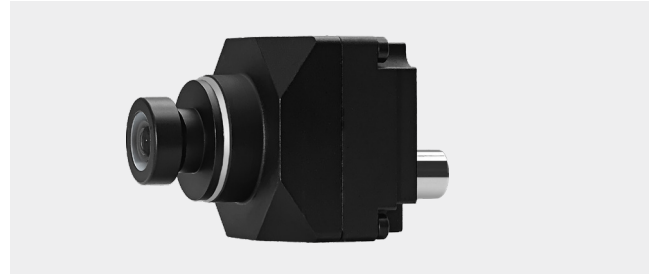
Pixel Size: 2.1um

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

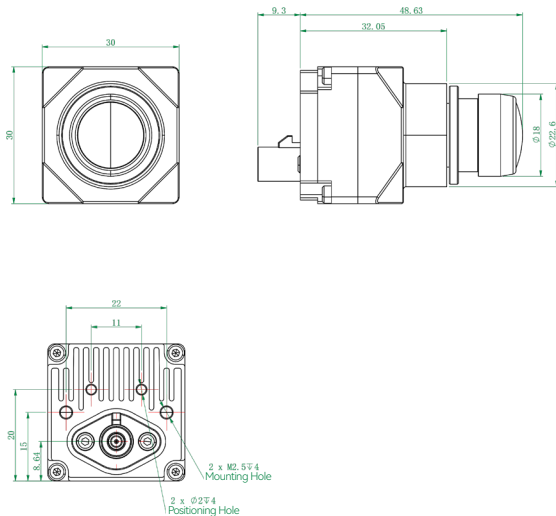
Shutter Mode: Rolling Shutter

Transmission Protocol: GMSL2

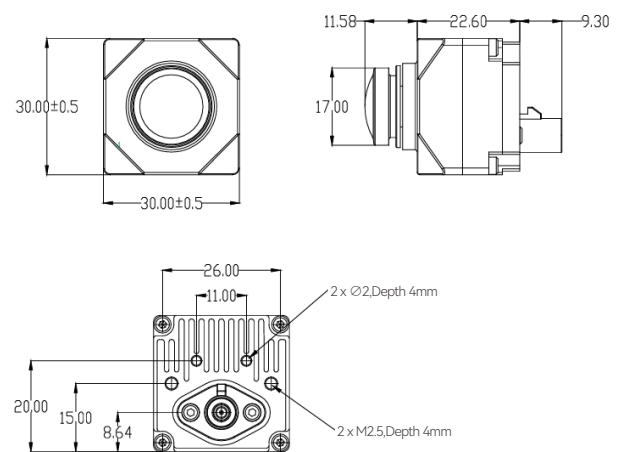
Operation Temperature: -40°C~ +85°C

Protection: IP67

Structural Dimensions



Using ALI2812-OCH-SABA-IP67 as an example.



Using ALI3220-OX3CM17GG52-X82ABA-IP67 as an example.

Shenzhen Aili-Light Technology Co., Ltd

Tel: 0755-27218150

Business: sales@aili-light.com

Web: www.aili-light.com

Add: Zone 82, Haiyu Community, Xin'an Street, Bao'an District, Shenzhen City



| WeChat |



| Taobao |

Product Parameters

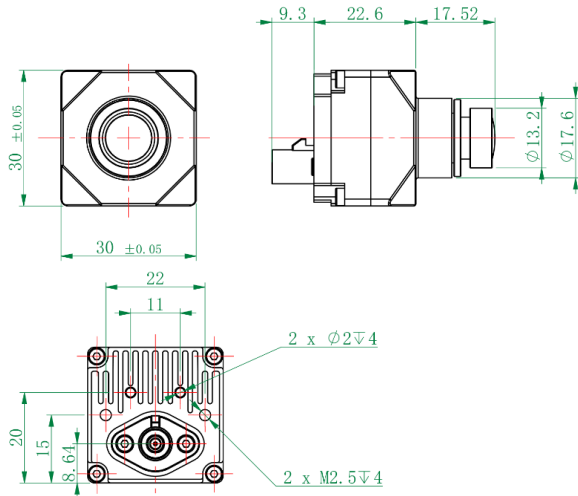


Product Code: ALI031-ZH 3M
Resolution: 1920 (H) x 1536(V)
Field Of View: 63.9° / 100° / 118.54° / 197°
Focal Length: 5.3mm/3.47mm/3.02mm/1.45mm
Frame Rate: 30 FPS
F-NO: 2.0/1.8
Dynamic Range: 120dB
Optical Size: 1/2.4 inch CMOS
Pixel Size: 3.0um
Shutter Mode: Rolling Shutter
Transmission Protocol: GMSL2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

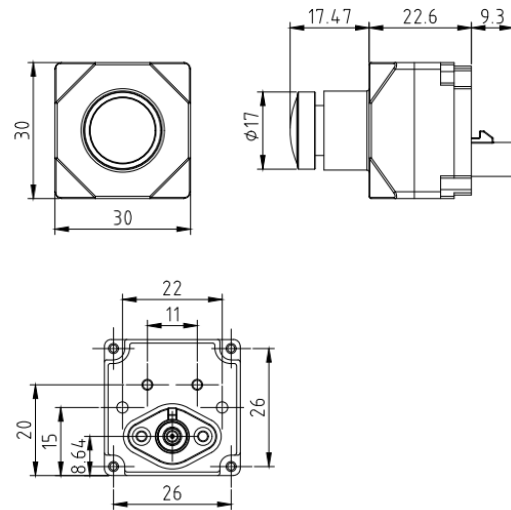


Product Code: ALI360-ZH 3M
Resolution: 1920 (H) x 1536 (V)
Field Of View: 60° / 106.2° / 120° / 200°
Focal Length: 5.82mm/3.13mm/3.02mm/1.42mm
Frame Rate: 30 FPS
F-NO: 1.4/1.5/1.6
Dynamic Range: 120dB
Optical Size: 1/2.44 inch CMOS
Pixel Size: 3.0um
Shutter Mode: Rolling Shutter
Transmission Protocol: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

Shenzhen Aili-Light Technology Co., Ltd

Tel: 0755-27218150
Business: sales@ailli-light.com
Web: www.ailli-light.com
Add: Zone 82, Haiyu Community, Xin'an Street, Bao'an District, Shenzhen City



| WeChat |



| TaoBao |