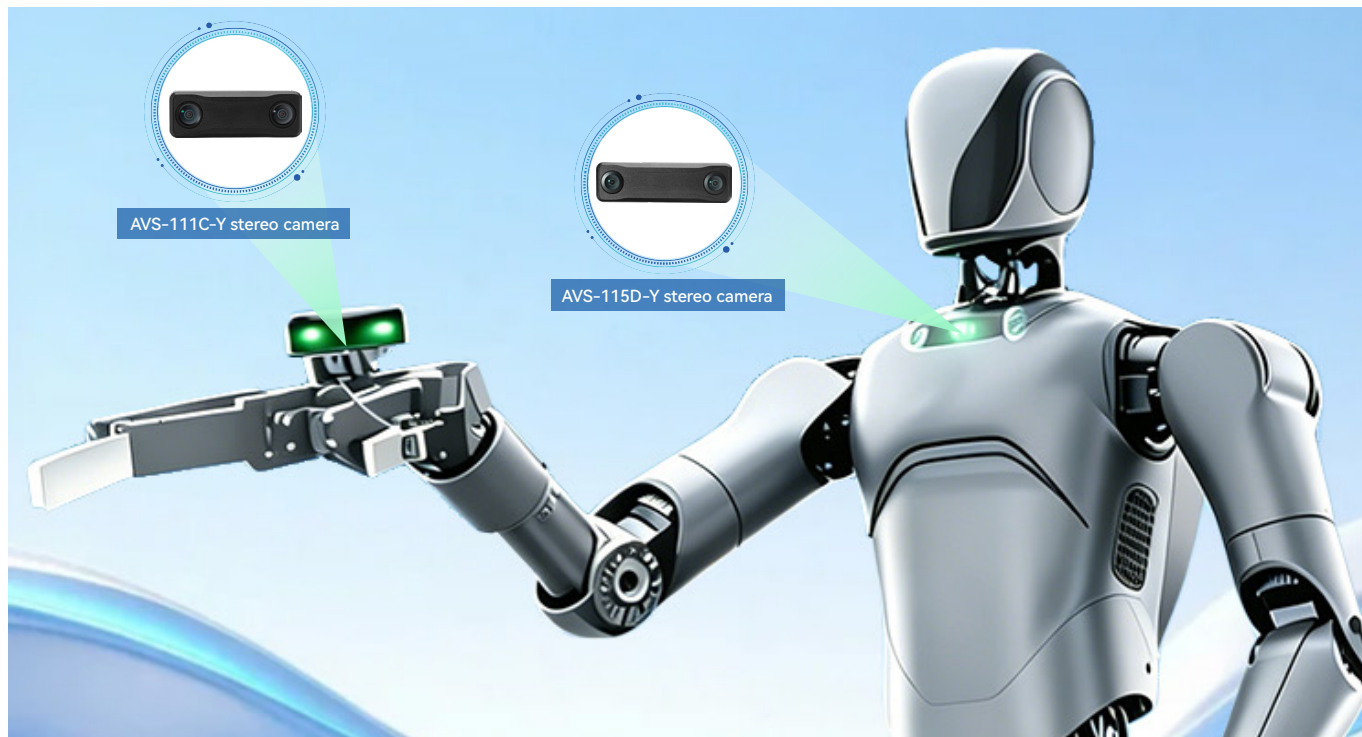


AVS-Y Series Embodied Intelligent Stereo Camera



Product Introduction

ALG-TECH'S "AVS" series of binocular cameras are designed to provide high-precision stereoscopic perception capabilities for scenes such as robotics, autonomous driving, and industrial automation. They have high synchronization to ensure synchronized exposure of left and right cameras, and provide mainstream interfaces such as GMSL2 and MIPI as well as multiple specifications and models to flexibly adapt to various scene needs.

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

Product advantages



High Performance Imaging

Equipped with high-performance image sensors, supporting high-resolution and high frame rate output; Some models use automotive grade CMOS with a dynamic range of $>120\text{dB}$, suitable for complex lighting environments such as strong and low light.



Stereo Vision

By combining ultra wide angle field of view and adaptive exposure control technology, real-time depth maps can be output, supporting integrated applications such as environmental perception, 3D modeling, and SLAM/VIO.



High Synchronization

Supports external triggering and synchronized exposure with multiple cameras, with a synchronization accuracy of $<1\text{ms}$, meeting the needs of multi-camera collaboration and high dynamic scenes.



Sturdy Structure

Industrial grade sturdy design, with a working temperature range covering -20°C to $+65^{\circ}\text{C}$, and some models have IP67 protection level, suitable for outdoor and harsh working conditions.



Inertial Sensing

Integrated 6-axis IMU (accelerometer+gyroscope), supporting visual inertial odometry; built-in ISP, providing distortion correction, stereo matching, and image enhancement.



Convenient Integration

Provide a complete SDK, supporting standard frameworks such as V4L2 and ROS, compatible with X86 and ARM platforms (such as Jetson, Raspberry Pi, etc.), greatly reducing the difficulty of secondary development.

Product Parameters

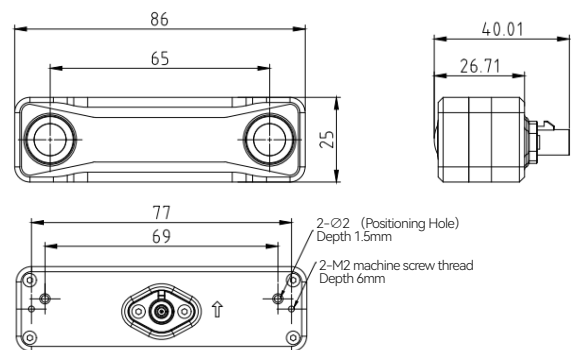
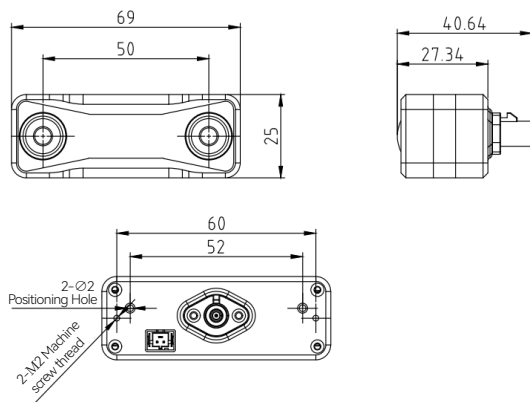


Product Name: AVS111C-Y
Resolution: 1280(H) x 800 (V)
Field Of View: 120° x 76°
Focal Length: 1.67mm
Frame Rate Output: 30 /60FPS
Focusing distance: 0.4m
Working distance: 0.05m~2m
Baseline: 50mm
Depth Measurement Range: 0.1m~3.5m(ideal value)
Exposure Control: internal/external trigger
Optical Size: 1/4.3"CMOS
Pixel Size: 2.8μm
Shutter Mode: Global Shutter
Working temperature: -20°C ~ +65°C

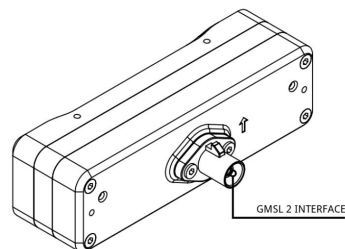
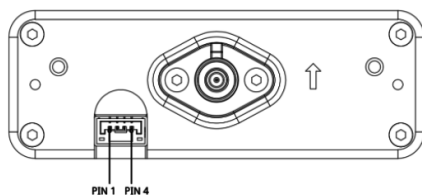


Product Name: AVS115D-Y
Resolution: 1920(H) x 1920 (V)/2560(H)x1920(V)
Field Of View: 119°x119°/165°x119°
Focal Length: 1.9±5%mm
Frame Rate Output: 30 /60FPS
Focusing distance: 0.8m
Working distance: 0.3m~∞
Baseline: 65mm
Depth Measurement Range: 0.35~10m(ideal value)
Exposure Control: internal/external trigger
Optical Size: 1/2.7"CMOS
Pixel Size: 2.0μm
Shutter Mode: Rolling Shutter
Working temperature: -20°C ~ +65°C

Structural Dimensions



Interface Definition



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