JVS36 stereo camera

Basic description

JVS36 is a stereo camera designed for robots. It uses two 3MP high-dynamic sensors and is suitable for different indoor and outdoor environments of robots. It is equipped with a 6-axis IMU sensor, a 60mm baseline, a 120° wide-angle HFOV lens, and adopts the high-precision dual-camera AA technology to ensure the consistency of the optical axis of the stereo cameras.

Key parameters

QTY Of Sensor	2
Resolution	1920(H) × 1536 (V) 1920(H) × 1080 (V)
Frame Rate	1920 (H) × 1536 (V) @30FPS 1920 (H) × 1080 (V) @60FPS
Shutter	Rolling shutter
Recommended Working Distance	0.4m~8m
Output Format	YUV422
Baseline	60 mm
Color / Mono	Color sensor
HDR support	140dB
IMU	BMI088
Camera Interface	GMSL2
Power Supply	9 ~ 16 VDC
Connector	Amphenol（Z Type Fakra）
Operating Temp	-40~+85℃
Active speckle projection	No
binocular calibration	Support
Dimensions	W: 30mm, L:84mm, H:35.8mm
Ingress Protection	IP65
Weight	< 200g

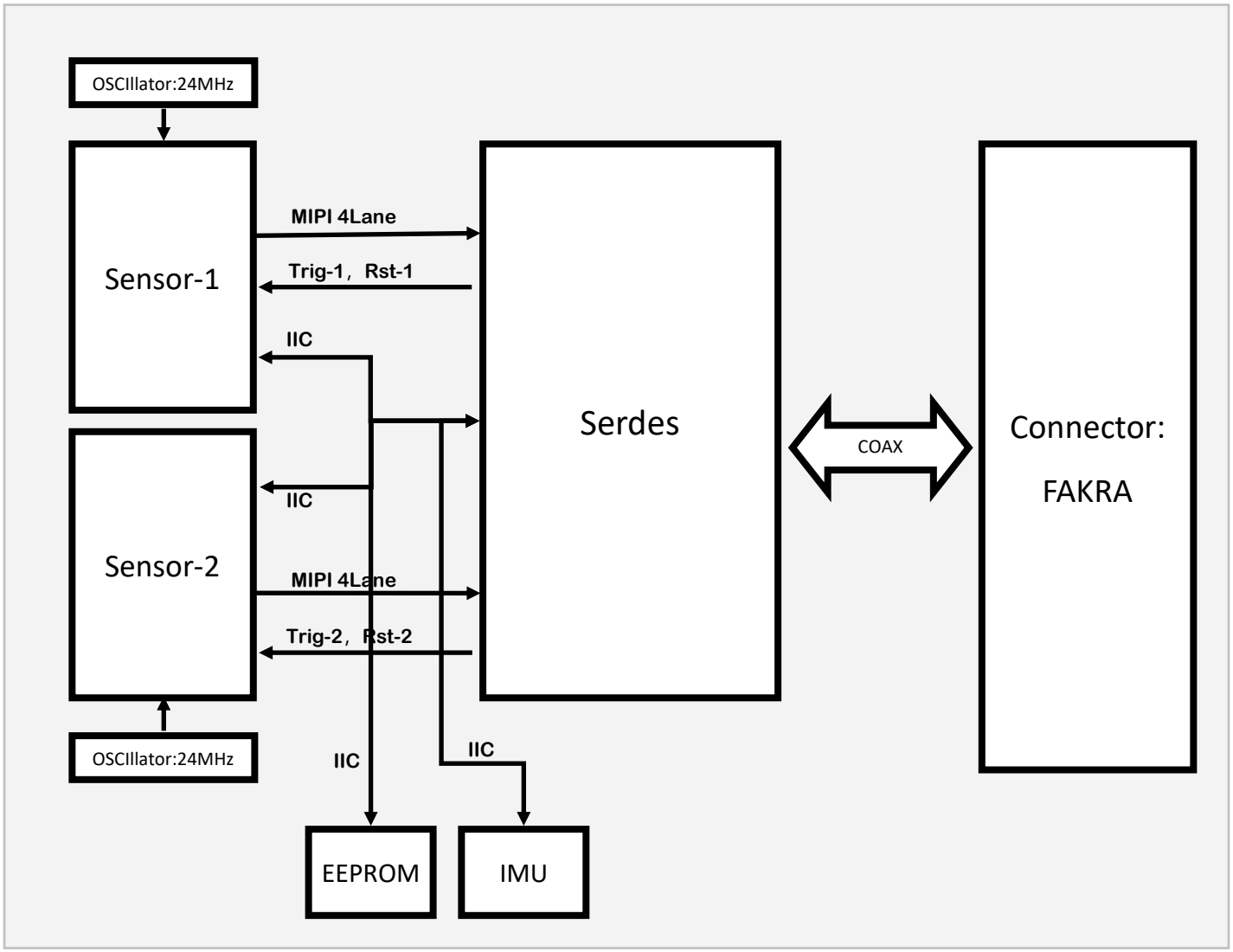
Characteristics

- GMSL2 stable serial interface
- HDR
- Dual-eye trigger synchronization
- Equipped with a 6-axis IMU sensor
- H120 Wide-Angle
- 60mm human eye baseline

Application

- Humanoid robot
- Robotic dog
- Mechanical arm

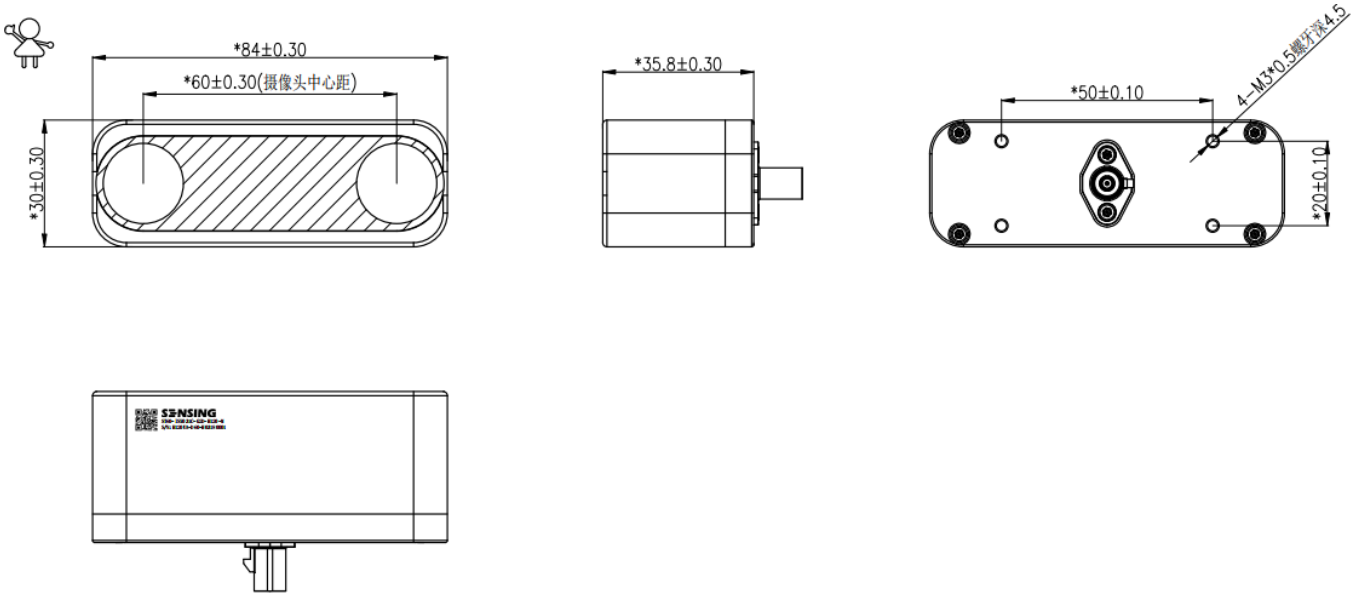
System block diagram



Optical parameters

Resolution	HFOV	VFOV	Fno	EFL	DOF
CAM1-1920*1536 CAM2-1920*1536	120°	92°	2.0	3mm	0.4m-8m

Structural dimensions



PS:

This icon indicates that the imaging direction is forward.

Revision History

Version	Description	Date
Rev1	First release	2025.07