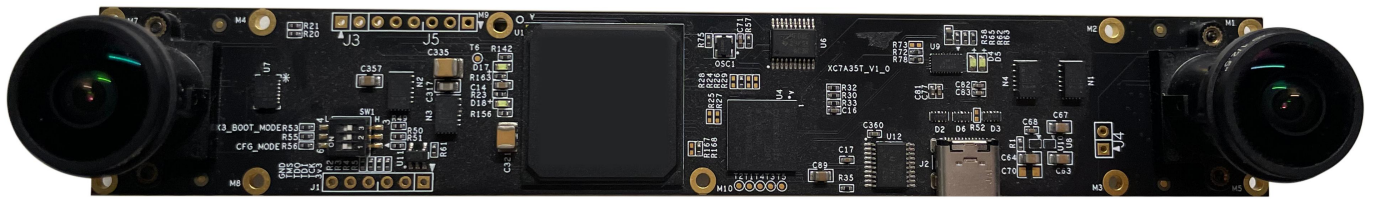


CyperStereo M150

150 mm baseline global-shutter stereo vision module



150 mm

Baseline

Global

Shutter

180°

Diagonal FOV

<1 ms

Sync

39 g

Weight

**Lightweight binocular camera module for
robotics, unmanned systems, VIO/SLAM, and embedded vision development**

Core Benefits

Core Advantages

- Wide-Angle Stereo Vision

D:180° / H:165° / V:100°
- Global-Shutter Imaging

Ideal for high-speed motion
- Hardware Sync <1 ms

VIO/SLAM data fusion service
- USB3.0 / UVC

Easy to integrate and deploy
- SDK & Open Ecosystem

Supports mainstream platforms and projects

Product Specifications

Hardware parameters	Camera Specs
Size	7168 x 28 mm
Weight	39 g
Power	1.5 W @ 5V DC
Interface	USB3.0
UVC Mode	Supported
Sensor Model	MT9V034
Resolution	752 x 480
Frame Rate	50 fps
Pixel Size	6 x 6 μm
Color Mode	Mono
Shutter Type	Global Shutter
Stereo & Sync	IMU / VIO
Baseline	150 mm
FOV	D:180° / H:165° / V:100°
Focal Length	1.7 mm
Sync Accuracy	< 1 ms
IR Support	No
IMU Model	BMI088
IMU Rate	200 Hz
Output Format	YUYV
VIO	Odometry error 0.1% - 0.5%

Lens Parameters, Platform & Environment

Lens Specs	
Focal Length	1.7 mm
FOV	D:180° / H:165° / V:100°
Aperture	F2.0
Interface	M12
Minimum Working Distance	20 mm
Back Focal Length	2.5 mm
Lens Resolution	3 MP
Distortion	< 34%
Image Circle	1/3"

Software Platform	
Operating System	Windows / Ubuntu / ROS / ROS2
Embedded Platform	RK3588 / Raspberry Pi / Orin / Xavier
SDK	CyperStereoSDK
Open Source Projects	ORB-SLAM2 / ORB-SLAM3 / VINS-Fusion / OpenVINS / DROID-SLAM

Operating Environment	
Operating Temp	-20°C - 70°C
Storage Temp	-20°C - 70°C
Humidity	0% to 95% non-condensing

Documentation Hub

Documentation & Resources



Product Documentation

Specs, guides, and tools

<https://cyperstereo-sdk-docs-zh-cn.readthedocs.io/zh-cn/latest/src/product/contents.html>



SDK

CyperStereoSDK and Sample Code

<https://github.com/Cyperstereo/CyperstereoSDK.git>



Camera Calibration Guide

Camera calibration and tool usage

https://cyperstereo-sdk-docs-zh-cn.readthedocs.io/zh-cn/latest/src/tools/calibration_tool.html



Open Source Support

SLAM / VIO Open Source Support

<https://cyperstereo-sdk-docs-zh-cn.readthedocs.io/zh-cn/latest/src/slam/contents.html>



Product Comparison

Model comparison and selection

https://zhuanlan.zhihu.com/p/1977909808268075239?share_code=7q4jr0mhJN5L&utm_psn=1978220411041895366

Capabilities & Contact

We focus on the research, design, production and technical services of binocular vision hardware.

WeChat Inquiry



Official Website



tujian.tech

Shenzhen Tujian Intelligent Technology

Company Capabilities

Stereo Camera R&D and Customization

Focused on stereo vision, depth sensing, and intelligent imaging hardware

Hardware Design & Structural Optimization

Balanced for precision, low power, wide dynamic range, and stability

Imaging Calibration & Stability Testing

Supports challenging lighting, multi-scene deployment, and secondary development

Full-Process Delivery Services

From solution design and sample validation to pilot runs and scaled supply

Contact

Website **tujian.tech**

Email **support@tujian.com**

WeChat **hanshihao-j**

Address **3F, A315, Dongfang Bldg. 182 Baomin 2nd Rd., Shenzhen**