

STEREOVIS M03 – Smart 3D Vision System

All-in-One Embedded 3D Vision for Large-Scale Automation

Overview

The Stereovis M03 is a fully embedded industrial 3D vision system built for automation in high-mix, large-volume environments. At its core is the NVIDIA Jetson Nano, enabling onboard processing of 3D data and real-time AI-based vision tasks — no external PC required. Utilizing structured blue-light projection and high-resolution sensors, the M03 delivers fast, precise, and robust depth data even on textured, dark, or complex surfaces. Designed for seamless integration in logistics, robotics, and advanced manufacturing.

Key Features

- Embedded NVIDIA Jetson Nano – onboard AI & 3D processing
- No external PC required – all-in-one edge system
- Long-range capture – up to 3 meters
- High accuracy – 0.1 to 0.8 mm depth resolution
- Wide field of view – up to 2900×1700 mm
- Industrial interfaces – Gigabit Ethernet, SDKs in C++ / C# / Python
- Cross-platform SDK – Windows / Linux / ROS support
- IP65 housing – dust and splash protection

Technical Specifications

Parameter	Value
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Compute Unit	NVIDIA Jetson Nano (Quad-core ARM)
Sensor Resolution	2.8 MP

Scan Time	0.6 seconds
Working Distance	1200–3000 mm
Near FOV (W×H)	1100 × 640 mm @1.2 m
Far FOV (W×H)	2900 × 1700 mm @3 m
Accuracy (Z)	0.1 – 0.8 mm
Projection	Blue DLP structured light
Data Interface	Gigabit Ethernet
OS / SDK Support	Windows, Ubuntu / C++ / C# / Python
Enclosure Rating	IP65
Power Input	24V / 5A
Size / Weight	280 × 126 × 65 mm / 2.1 kg

Ideal Use Cases

- Depalletizing & bulk unloading (mixed shape/size objects)
- Logistics automation (parcel sorting, volume detection, tray picking)
- Tool path generation for robotic cutting, welding, coating
- Automotive & machinery kitting (part recognition, robot guidance)
- Mobile robot spatial awareness (navigation + mapping)
- Life sciences automation (large device alignment or smart motion control)
- Food & agriculture (bulk sorting, packaging)
- Quality inspection (shape, height, or surface deformation detection)

Why Choose This Product?

- Jetson-powered edge AI – vision & logic in one box
- Flexible, long-range field for diverse use cases
- Industrial-grade build, SDK, and ease of integration
- Backed by NVIDIA Inception – innovative, scalable platform
- Aggressive pricing vs. legacy vision systems

Included in the Box

- Stereovis M03 embedded 3D camera
- 24V industrial power cable
- Ethernet/data cable
- Quick start guide
- Full SDK access

Contact & Support

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Stereovis – Precision. Speed. Simplicity.