

Camera Module Pros, Ready to partner with the best?

By leveraging our specialized expertise in optics, mechanics, circuitry and manufacturing processes, NAMUGA delivers high-resolution, ultra-compact camera solutions tailored to meet the precise needs of our customers.



Miniaturization Lightweighting



Intrinsic Calibration



Active Align High-end OIS



Iris & Facial Recognition

Core Competencies since 2004



Stable Financial Position

Expanding the scale of investment every year through efficient business operations.



Customer-tailored Design Capability

Designing and producing top-quality products that meet customer specifications.



Vision Technology

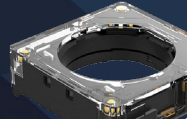
Extensive experience in camera module and 3D sensing technology.

Our business

Camera Module



Micro Actuator



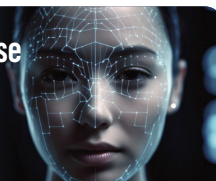
AR/VR



Vehicle/Mobility



Security/Defense

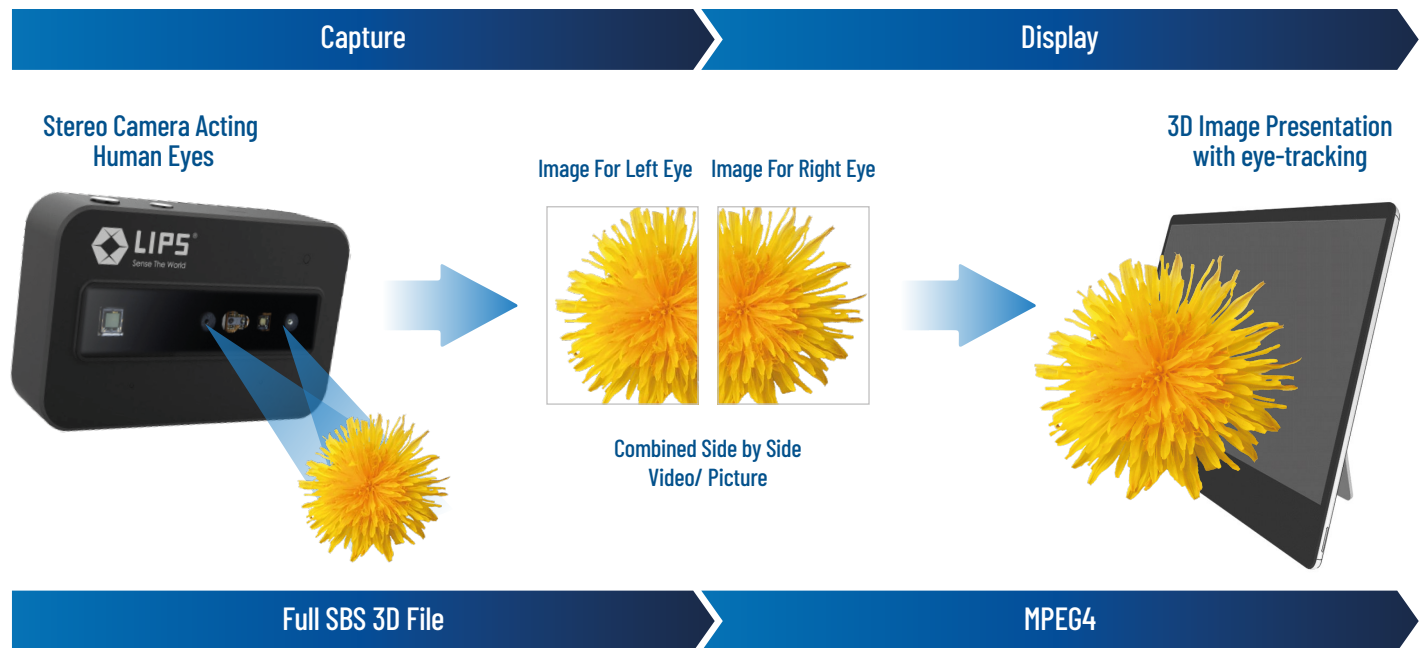


Bio-Medical/Healthcare



3D Display Solution

LIPS bring you the ultimate all-in-one solution for next-generation glasses-free 3D experiences from 3D content capture, to immersive 3D display with the 3D world.



Real-Time 3D Content Creation

Capture 3D photos and videos with dual-lens stereo camera systems.



Eye-Tracking for Perfect Perspective

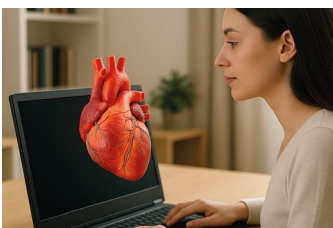
Eye-tracking technology follows the viewer's gaze and dynamically adjusts the 3D content, delivering the best viewing experience for every angle.



Multi-view Lenticular 3D Display

Enjoy wide and no dizziness view from 3D display technology.

Real-world Applications



Education



Industrial Design



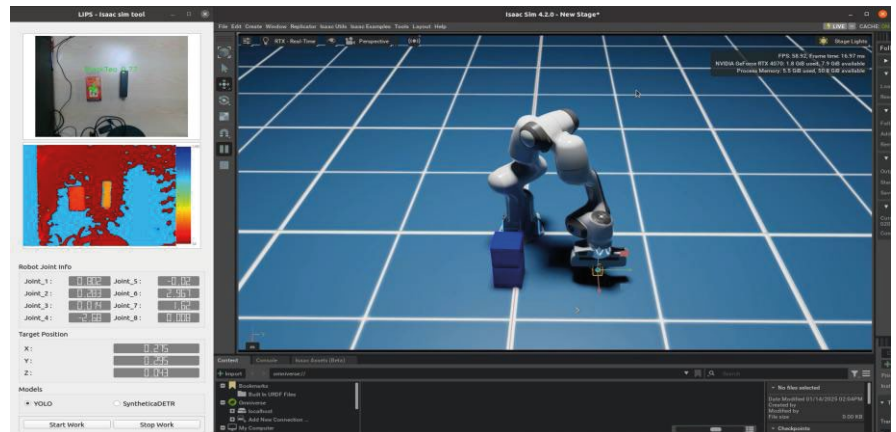
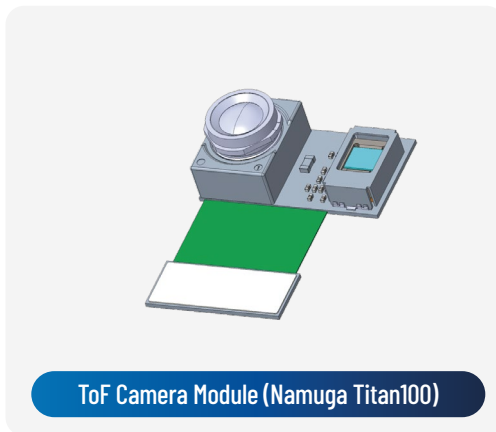
Entertainment



Retail

Robot Arm – Gripping Deep Learning Solution

- Fast & effective Deep Learning Solution with MR-based software that transforms real-world scenes into actionable 3D data.
- Accurate 3D sensing with ToF enhances robot arm's spatial awareness.



Rapid prototyping & integration

Development platform designed for robotic arm applications



Precise Motion

Provide multiple degrees of freedom, enabling them to perform complex, precise tasks in confined or dynamic environments



Automation

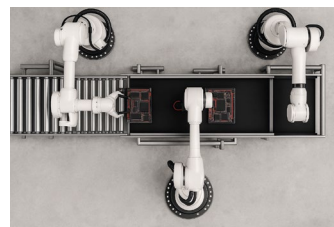
Adaptable to various applications, from industrial automation to research, and can easily integrate with tools, sensors and AI systems



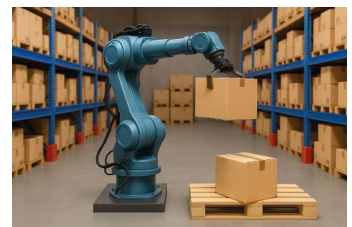
Pick and Place



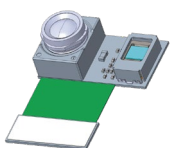
Bin Picking



Assembly



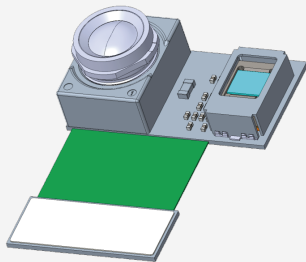
Load stacking



Product	Sensor	Lens	Distance Range	Depth Accuracy
Titan100	QVGA	85°(H), 69°(V), 100°() f1.3	0.3~7.5m	±3%@500mm

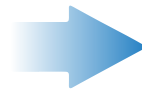
Vision Metric Solution

Powered by Namuga's advanced Titan100 ToF camera, the solution combines high-speed depth sensing and precision measurement — enabling fast, reliable logistics automation.

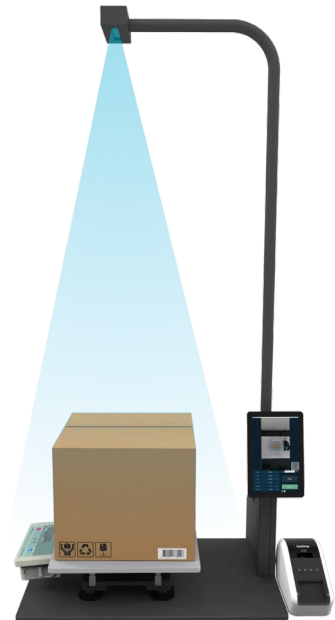


ToF Camera Module (Namuga Titan100)

Depth-sensing camera



embedded into system



Used in Dimensioning System



Support Various Shapes

Accurately measure boxes, tubes, envelopes, and irregular items.



Handle Tough Surfaces

Maintain precision on glossy, reflective, and wrapped materials.



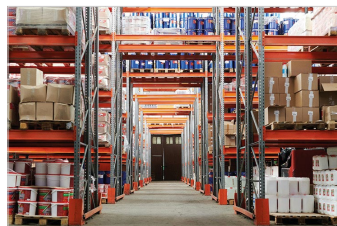
Low-Light Ready

Deliver reliable measurement in dark or low-light environments.

Real-world Applications



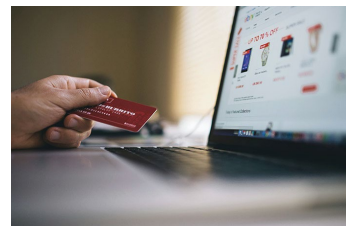
Logistics Operations



Warehouse Automation



Retail Management



E-commerce Fulfillment

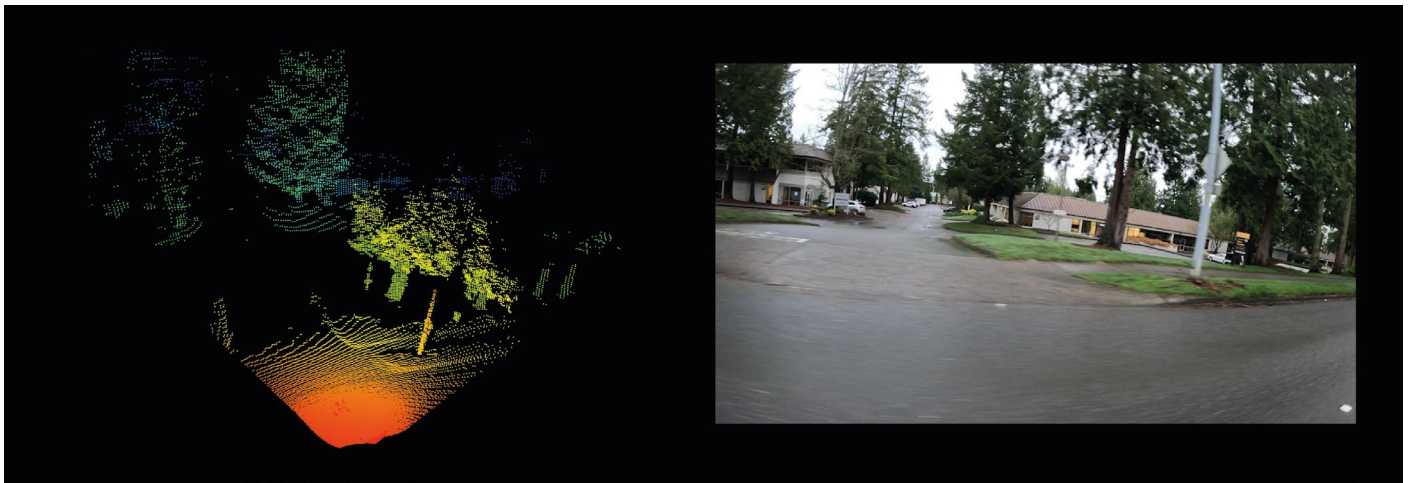


Stella 2

Super Compact Solid-State Lidar with Extended Range Co-developed with  LUMOTIVE

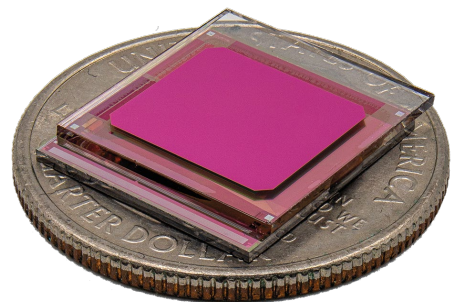
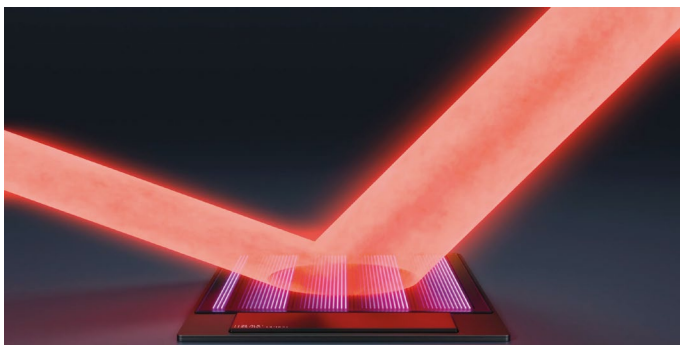
Minimal Emitters, Maximum Efficiency

Fewer laser components, yet outstanding performance. Stella2 captures high-resolution spatial data with a simplified architecture—compact, cost-effective and power-efficient.



Extended Range, Maximum Efficiency

- 80-meter range, 20 Hz frame rate
- LCM chip powered by Lumotive, no mechanical inertia, enable shaping of light in any pattern across the field of view. Switch between any angle in 50 μ s.



Co-developed with Lumotive

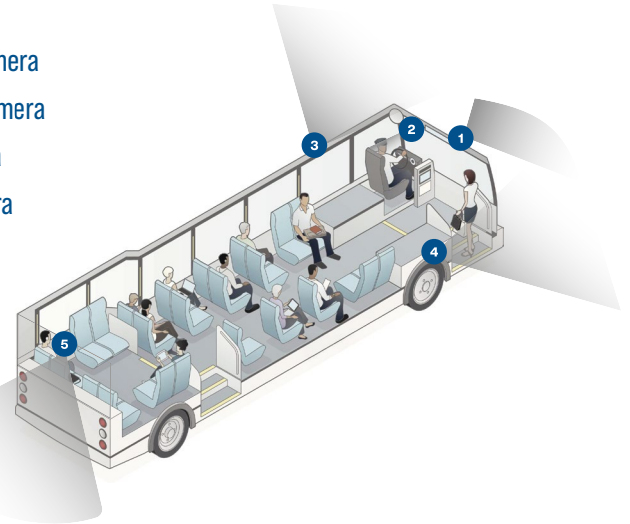
Product	Max Range	Range (10% R @ 100klux)	FoV (H x V)	Resolution (H x V)	Pixels	FPS
Stella 2	80m	40m	120° x 90°	0.47° x 0.47°	256 x 192	10 – 20Hz

AI- Powered Bus Solution

The AI-Powered Bus Solution enhances driving safety and operational efficiency by integrating advanced driver monitoring, real-time hazard detection, and cloud-based video management for comprehensive fleet protection.



- 1 Front-Facing Camera
- 2 Driver-Facing Camera
- 3 Left Side Camera
- 4 Right Side Camera
- 5 Rear Camera



Live Streaming



On Demand



Cloud Storage



Emergency Record

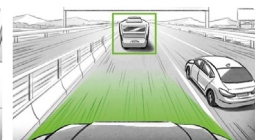
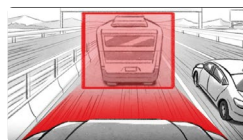
Pedestrian Safety

Warn drivers instantly when people are detected in blind spots to prevent accidents.



Driver Distraction Warning

Keep drivers focused by alerting them when they are distracted or using their phone.



Lane Change Safety

Help drivers switch lanes safely by warning about blind spots and nearby vehicles.

