SRAY-TECH
Stereopsis Technology Innovation

SRAY-TECH 視銳光科技

Stereopsis Technology Innovation



-Company Profile

Overview

Building on core capabilities in optical imaging, AI vision, multispectral sensing, and precision optical integration, our product has evolved from standalone camera modules to multi-sensor systems, electro-optical systems for unmanned vehicles, SWIR solutions, and CPO precision optical integration.

Core Expertise

- 2D/3D/Multispectral Camera Module Design & Manufacturing
- AI SoC System & AI Core Development
- Multi-Axis Gimbal Design & Evaluation

Company Profile

Representative/ Kevin Liao

Phone/ 02-26575639

Established/ 2018-12-4

Address/ 2F, No. 99-19, Section 2, Nangang Road, Nangang District, Taipei

Registered Capital/ NT$150,000,000

Paid-in Capital/ NT$120,000,000

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Development Roadmap

R&D Stage

1 Camera Module



- High-resolution image sensing
- Modular design

Establishment of core imaging capabilities

2 Multi-Sensor Fusion



- Integration of multimodal sensors, including EO/IR

Enhanced multimodal sensing

3 AI Vision



- Real-time object detection and tracking

Intelligent image analysis

4 Gimbal System



- Support for diverse applications
- Highly customizable solutions

System integration and application expansion

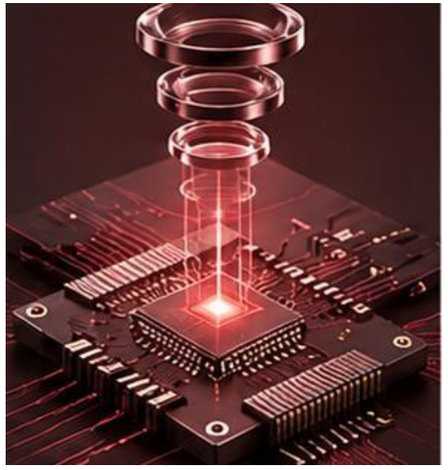
5 SWIR



- Smoke penetration & liquid leak detection

Technology advancement

6 CPO/Precision Optical Integration



- Co-Packaged Optics (CPO) Technology
- Precision Optics Design & Applications

Optoelectronic Integration & Industry Trends

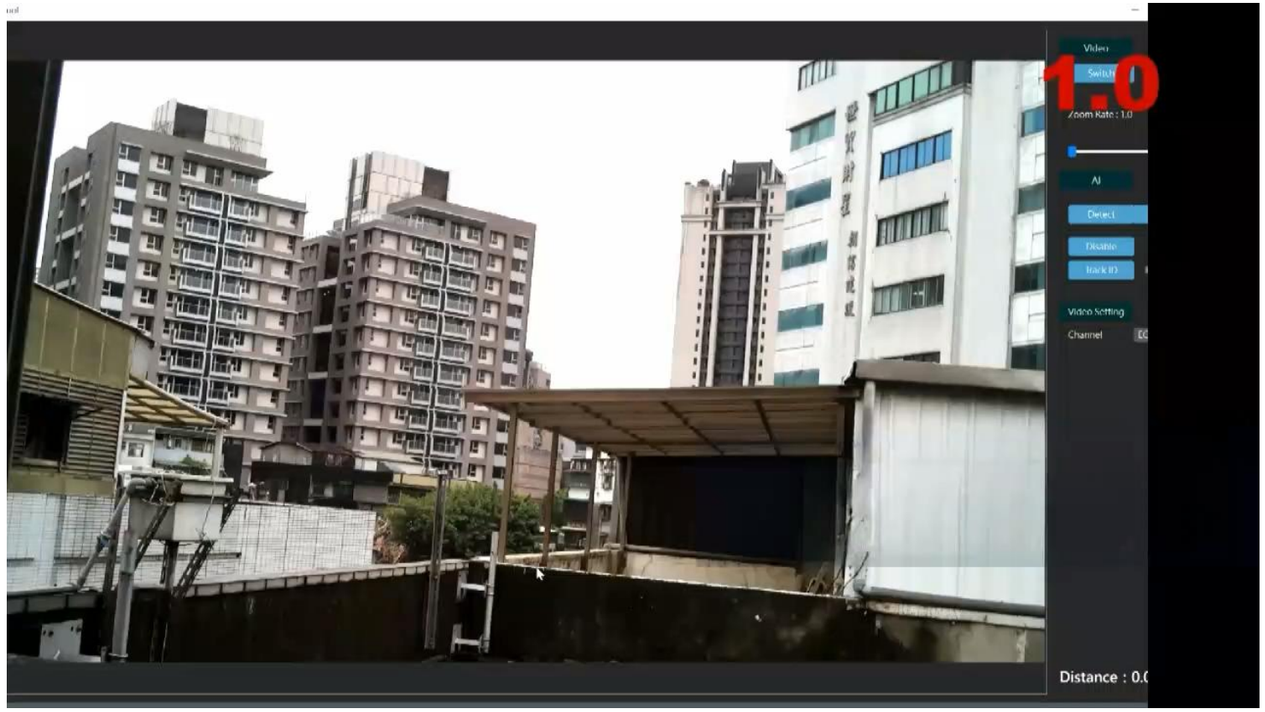
Product Line

Product Line		Products & Technologies	Current Market Applications	Future Markets
1	Facial Recognition / AI Vision	• RGB/IR Camera • Facial Recognition & Biometrics • AI Vision	• Smart Access Control	• High-Security Facial Recognition • Smart Devices • Edge AI Vision
2	Tri-Sensor System Module	• EO + IR + LRF (Integrated with AI Computing & Gimbal Systems)	• UAVs	• USVs • Quadruped Robots / Robotics • Other Autonomous Systems
3	SWIR	• SWIR Sensor/Camera Modules • Spectral Imaging & Analysis	• Semiconductor Equipment • High-Security Facial Recognition	• UAVs / USVs • Robotic Dogs / Robots • Machine Vision for Harsh Environments
4	CPO Optical Integration (R&D Stage)	• Micro LED • Active Alignment • Precision Assembly & Testing	Technology Development & Customer Validation	• CPO • High-Speed Optical Interconnects for AI • Mass Production Applications in Semiconductor Equipment & Precision Optics

Imaging Demonstrations

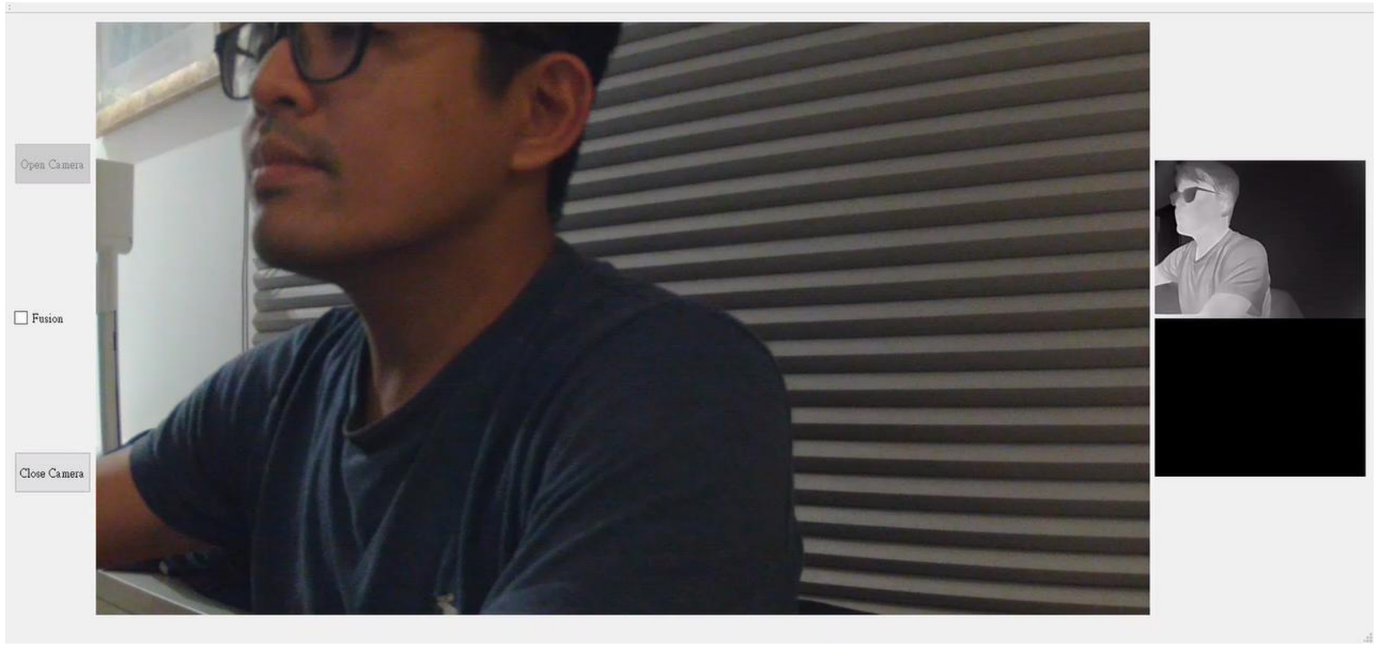


【Tri-Sensor Module – Live Demo】

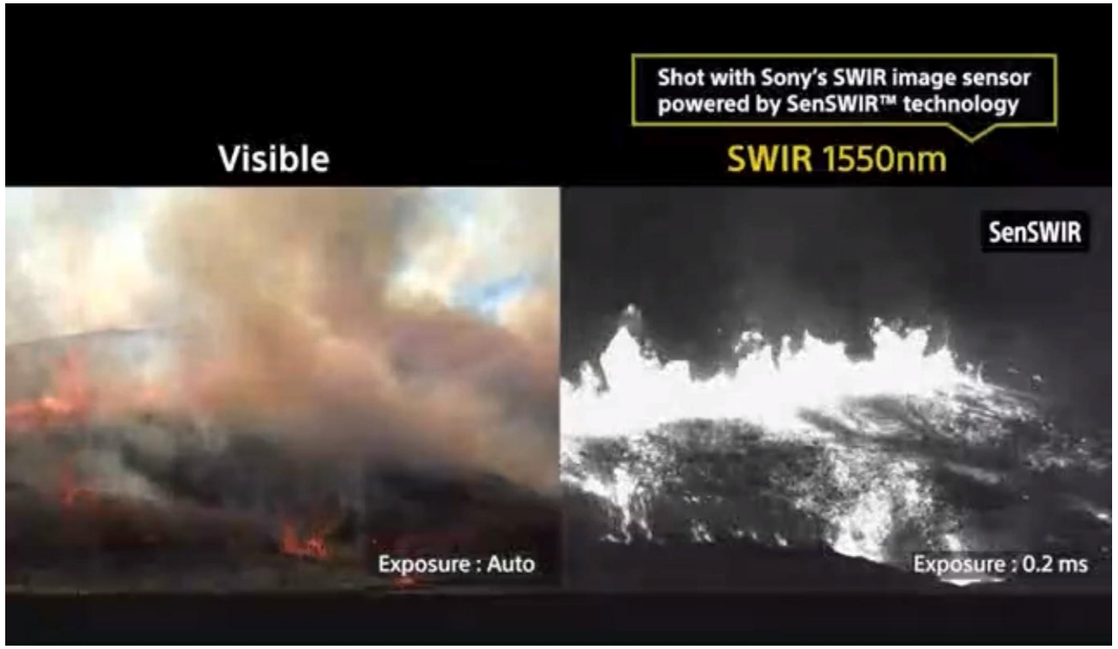


【Dual 20MP 1x-8x】

Imaging Demonstrations



【EO+IR Image Fusion & Enhancement】



【SWIR Imaging】

Smoke Penetration & Flame Observation

Imaging Demonstrations



【Target Tracking】
Persistent Tracking Under Occlusion



【Object Detection】

Core Products

Tri-Sensor System Module



Thermal (640*480) + Visible (20MP Dual) +Laser (1km range). 55*65*40mm,~100g. Features optical/digital zoom, auto-tracking, AI Fusion, EIS stabilization, and object tracking software.

- UAV payload systems
- Military night vision (IVAS-like)
- Industrial inspection & security

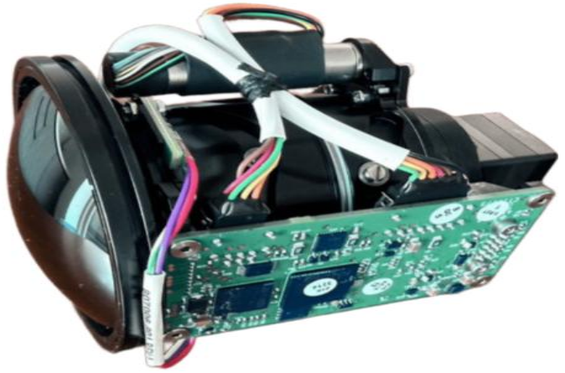
SWIR-Shortwave Infrared Module



640*480 resolution, 900-1700nm detection band, 4m range. Detects moisture, oil, and material spectral features. Penetrates fog, smoke, and haze with compact USB/MIPI interface design.

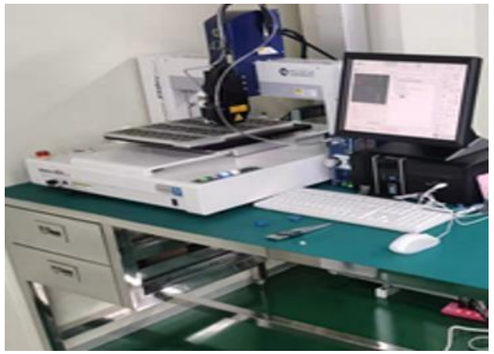
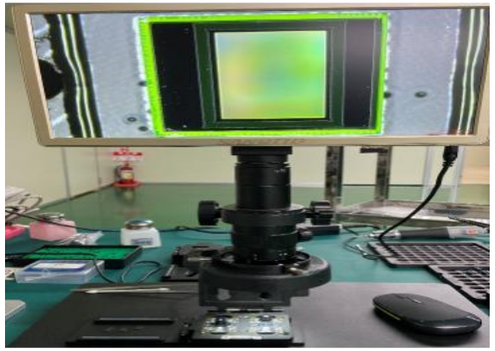
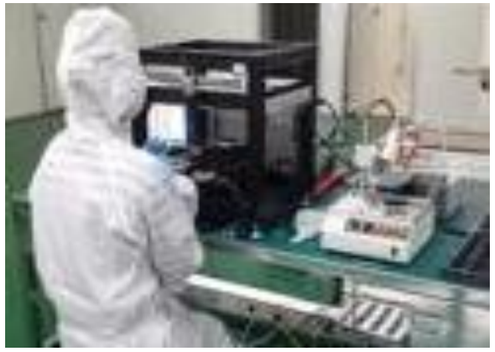
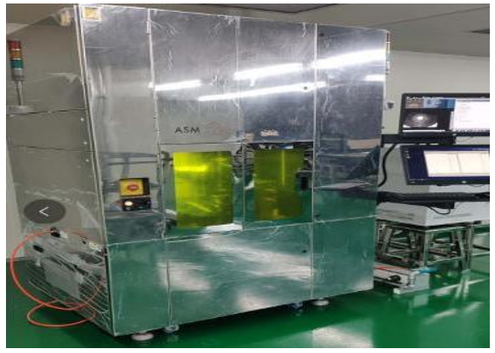
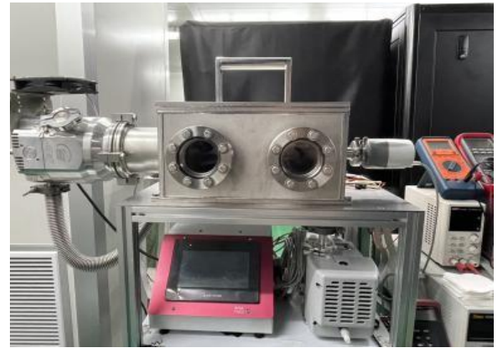
- Smart agriculture (moisture detection)
- Semiconductor inspection
- Smart city environment monitoring

5x Zoom Cam



The module integrates a thermal camera with 640 × 480 resolution and a 5× zoom lens, operating at 30 FPS. It supports a 5× zoom ratio and can be used for night vision and visibility in smoke-filled environments. The module supports a USB 2.0 interface. .

Manufacturing Capabilities

Image Recognition Dispensing System	Industrial Microscope	Relay Lens MTF Focusing	Relay Lens MTF Check	Blackbody Furnace
				
Hot Air Circulation Oven	Vibration Machine	Auto AA Machine ASM IS600GT	ToF Testing & Calibration	Vacuum Packaging
				

Key Advantages

Integrated Modular Solutions

From thermal imaging to advanced AI capabilities, delivering end-to-end modular solutions.

Global Supply Chain Management

A diversified global supply chain with strategic sourcing to support government and defense projects.

High Integration, Low Latency

Seamlessly integrates hardware and AI algorithms for real-time response and efficient data processing.

Scalable Across Multiple Markets

Designed for rapid expansion into automotive, industrial safety, disaster prevention, and agriculture.

Mass Production & Customization

Comprehensive OEM/ODM capabilities tailored to diverse application requirements.

Geopolitical Risk Mitigation

A supply chain strategy designed to address geopolitical risks and support long-term smart sensing deployment.

Thank You

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