LEOPARD IMAGING

AglaiaSense

The Professional in Edge AI Solutions

Corporate Profile

WHO ARE WE

The professional in Edge AI solutions.

WHAT WE DO

- Embedded AI Solutions
- AI Edge Computing Devices
- Hardware & Software Design
- Cloud service to manage devices

WHERE ARE WE

Headquarters

Silicon Valley

Development Center

Shanghai, China

Manufacturing

United States (Established)

or

Malaysia(In progress)

Leopard Imaging Overview

Business Model

ODM / OEM services for global customers

- System, hardware, software, mechanical
- Prototype and mass production

Expertise

- Intelligent Video solution
- HW/SW/System development
- Image processing/ tuning on multiple platforms
- Manufacturing in U.S.A. & offshores

Quality

ISO9001

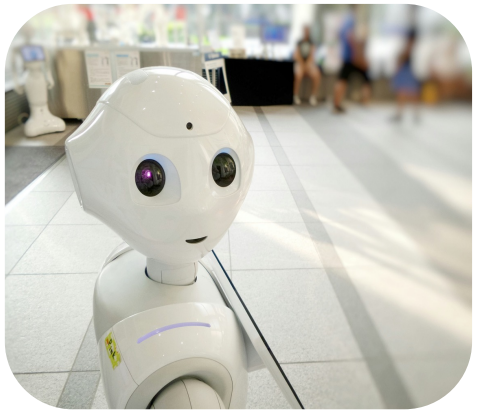
Automotive IATF16949

Environment ISO14001

Aerospace AS9100D

Market Categories

A-IoT



Robotics

Automotive

Drone

Aerospace

Valued Customers

amazon

Qualcomm

brain corp

DAIMLER

BostonDynamics

And more…

New Company New Journey

Leopard Imaging spin off AI sensing business

OEM / ODM	→	**Self-Branding**
Broad Market	→	**Vertical Market**
Sustainability	→	**Growth**
Renowned 16-year company	→	**New dedicated company**

Continuous investment from Leopard & seeking external investment

Business Model & Partners

Brand

AglaiaSense Product Series

Providing Services to Customers

- Intelligent sensing data collection
- Data Storage and analysis
- AI Model updates
- Device Maintenance

Strategic cooperation with Sony, algorithm partners, and distribution partners.

Product and system design, outsource production to Leopard Imaging or others.

Direct Sales & through Distribution channels

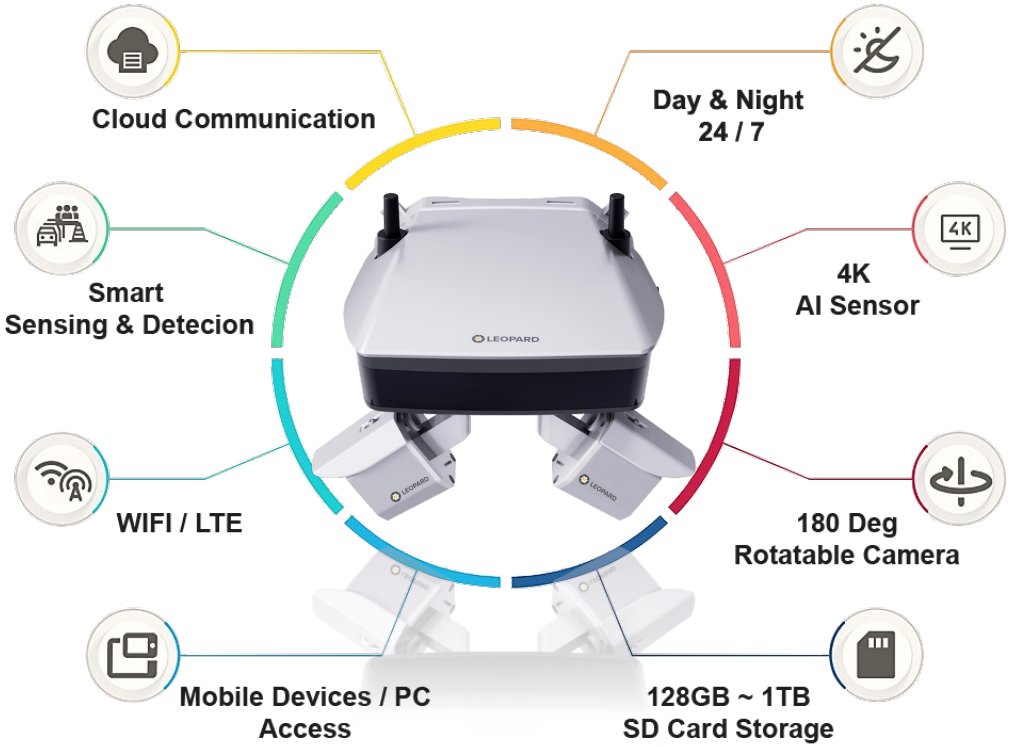
Working with AI third parties

- Tailored AI models for customers

Strategic Partners

SONY

GS500 Series



Effortless Installation

- Three versatile mounting options: vertical, horizontal, wall-mounted
- Convenient clip-on camera design
- User-friendly mobile app for easy setup

Minimal Maintenance

- Remote monitoring capabilities
- Over-the-Air (OTA) updates for software and AI model

Flexible Integration

- Supports multiple connectivity options: Wi-Fi, LTE, PoE, and Serial
- Powered through a standard NEMA socket
- API available for seamless third-party integration

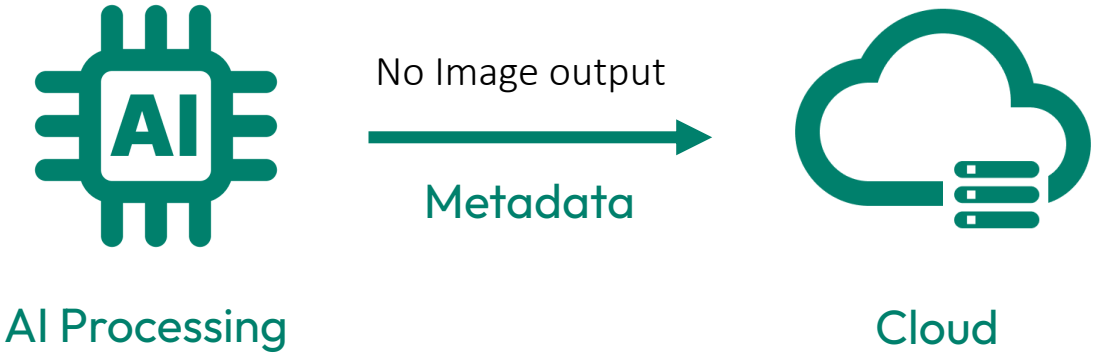
Scalable Solution

- Cloud Device Manager with low-bandwidth connection
- Energy-efficient with low power consumption
- Cost-effective, designed to fit various budgets

Versatile Applications

- Customizable AI models and software to suit diverse needs

Product Advantages



- Low Power
- Low Latency
- Less Component
- Addressing Privacy
- Low Storage

Purpose-built system enables you to have variety of analytics and quick/easy deployment at scale.

Real-time
Automated data collection

- Flexible choice of AI analytic
- One sensor, multi analytical use

Easy Installation
Maintenance

- Integration option with streetlight management system
- Direct cellular network connection without having mobile router

Privacy Protection

- Highest privacy data protection architecture
- Data anonymization at capture
- Image capture option only when needed.

Products and Technologies – GS500

Conventional System

IP camera

GPU appliance

Weather protection

AglaiaSense System

- All-in-one AI Camera
- Easy Deployment
- Lower Power Consumption
- Affordable Cost

AglaiaSense

GS500 System Diagram

GS500 AI Camera System

Software

AI
- AI Model
- AI Params Config
- Post Processing
- AI Diagnostic

Web Server
- Real Time Video Stream
- CAM Config

- CAM Config
- CAM Diagnostic
- FW/AI Update
- Host Application

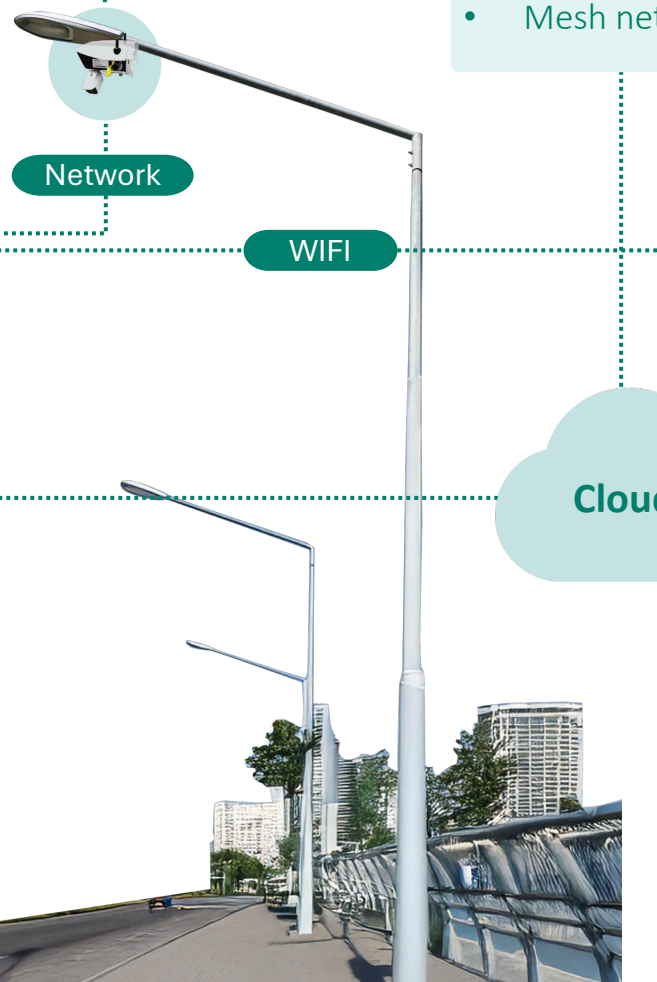
- Store/ Transfer Image Data
- End User/ Training/ Installation

Hardware

- Embedded processor
- In/Out Alarm
- Serial Comm
- WIFI / LTE / POE(Wired)

Optional Third-party SW

- AI model
- Inference data processing



Network

WIFI

Network Access
- LTE Cat M1
- Mesh network

Cellphone Tablet

- Real Time Video Stream
- CAM Config
- Firmware Upload

Cloud

Rest API

Device Manager
- Device Manager(Cloud)
- Image Viewer
- Firmware Builder
- Firmware/AI Updater
- CAM Config

Rest API

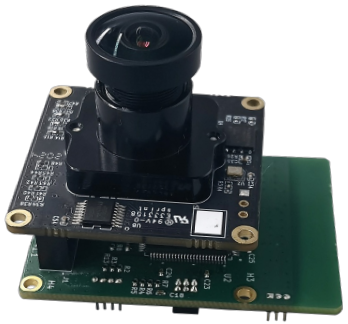
- Third party Cloud Server
- Dashboard
- Data center

GS500 System Specification

Sensor	Sony Diagonal 7.857 mm (Type 1/2.3) 12.3MP CMOS Intelligent Vision Sensor IMX501 with AI Processing Functionality
Optical Format	1/2.3"
Pixel Size	1.55 x 1.55 µm
Output Format	Image (Bayer 8-bit / 10-bit RAW), ISP output (YUV / RGB), ROI, metadata
Camera Assembly Mode	● Single mode: assemble with one camera ● Dual mode: assemble with two cameras
Camera Resolution & Frame Rate	RAW image: 2 * 2028 x 1520 @ 30 fps (Binning mode)
ISP + AI Processing	Supported
WIFI	Supported
Lens FOV (H)	120˚ / 42˚ / 90
Region Of Interest (ROI)	Configurable
Storage	128GB ~ 1TB. Default: 128G
Color / Mono	Color sensor
Power Supply Range	12 ~ 24 ± 4 VDC, or POE
Power Consumption	< 6.5W
Operating Temp	-20℃ ~ +65℃
Storage Temp	-20℃ ~ +65℃
IP Rating	IP66
Interfaces	1 x Male 4-Pin M12 connector for power and serial data 1 x Male 8-Pin M12 connector for Alarm Input / Output LTE / POE Supported (Optional)
Weight	TBD

MS500 Series (Q3 2025)

MS500-M



MS500-S

Two Types

- Product-level Module
- Outdoor Waterproof Product

Reduced Power Consumption

- Low power MCUs
- Keeping AI analytics capabilities

Interfaces

- Supports multiple connectivity options: Wi-Fi, LTE, and Serial
- Powered through a standard NEMA or ZHAGA socket

Video Streaming

- Will be supported in MS500-P
- H.264 / JPEG
- Power consumption < 2W (Estimated)

MS500 System Specification

Components

Sensor board: MS500_CAM
Adapter board: MS500_ESP32
Lens mount: M12 / M16
Lens FOVH (Field of View Horizonal): 42˚ / 90˚ / 120˚...

Sensor

Sony diagonal 7.857mm (Type 1/2.3) 12.3MP CMOS intelligent vision sensor IMX501

MCU

ESP32

Operation temperature

-20℃ ~ +65℃

Power supply

5VDC, or Battery 5V

Power consumption

Normal running: < 450mW
Standby mode: < 27mW
Sleeping mode: < 0.5mW

Transmission

WIFI

LED Lighting (Optional)

LED QTY: 1

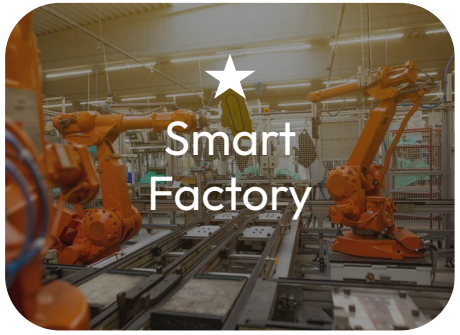
Weight

MS500-HXXX (E) : ~ 25g (with NO housing)

Board dimension

32 (L) x 32 (W) mm

Market Insights



Actual example of field test

Pedestrian Safety

Challenge

Reduction of pedestrian fatality

Solution

Pedestrian detection / LED warning over 1 miles of road

Evaluation Result

Achieve over 95% accuracy of detection.

Traffic Counting

Challenge

Improve efficiency of routine traffic survey

Solution

Permanent counting station

Evaluation Result

Achieve over 95% accuracy of counting.

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Thank you!

Reach out to us if you have questions.

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