



# ClairEye Product Presentation

ClairEye iSeries & VSeries

2026.04.14

# Advantages of video detection



Traffic detectors include

- Loop
- Geomagnetic
- Radar
- Video
- Video-integrated Radar

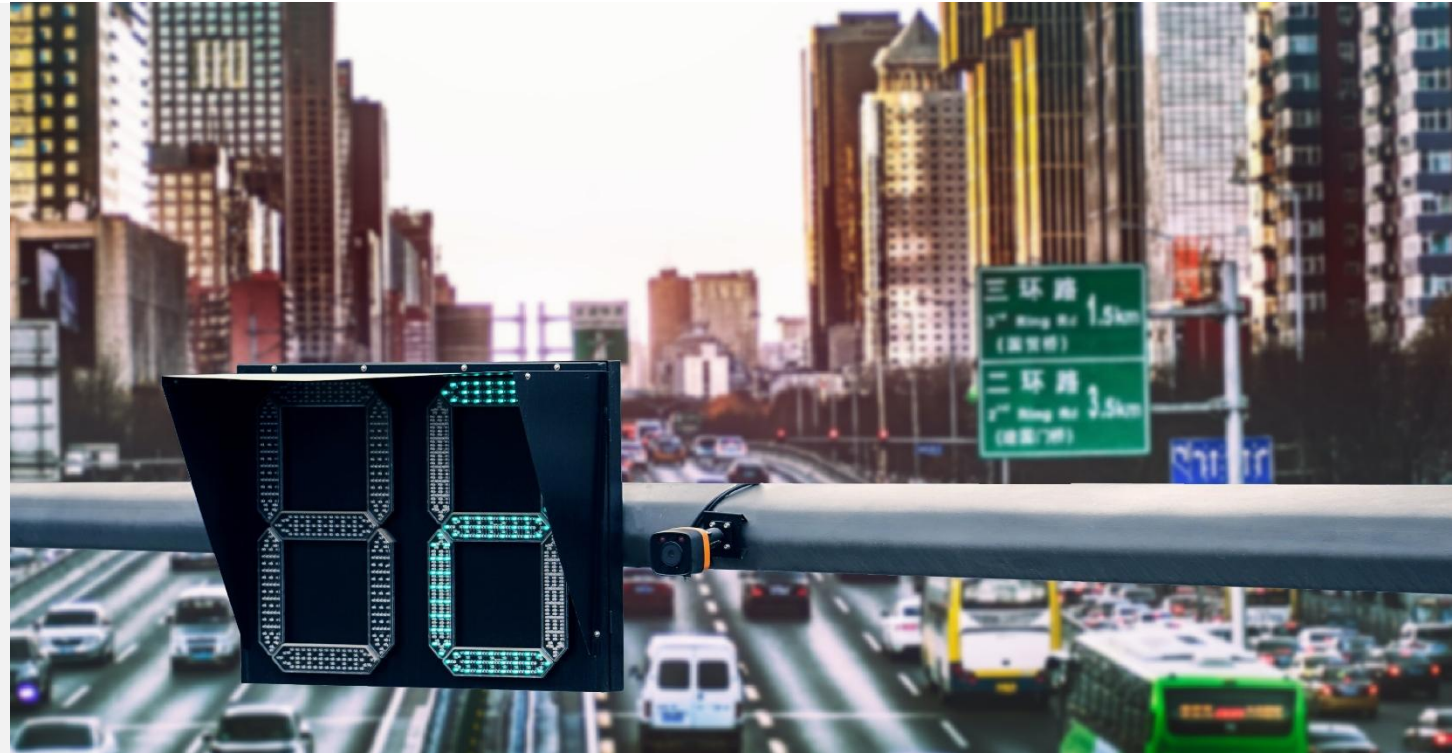
|                        | Advantage                                                                                                                                 | Disadvantage                                                                                                                                                           |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Loop                   | <ul style="list-style-type: none"> <li>• Low cost</li> <li>• Accurate data</li> <li>• Strong anti-weather interference ability</li> </ul> | <ul style="list-style-type: none"> <li>• Pavement cutting</li> <li>• Short lifetime</li> <li>• Difficult &amp; expensive for maintenance</li> </ul>                    |
| Geomagnetic            | <ul style="list-style-type: none"> <li>• Accurate data</li> <li>• Wireless communication</li> </ul>                                       | <ul style="list-style-type: none"> <li>• Pavement cutting</li> <li>• Difficult &amp; expensive maintenance</li> </ul>                                                  |
| Radar                  | <ul style="list-style-type: none"> <li>• Detection zone defining</li> <li>• Accurate data</li> <li>• Multiple targets</li> </ul>          | <ul style="list-style-type: none"> <li>• Not available for static target</li> <li>• Not able to identify size, color, shape, and scene</li> <li>• Expensive</li> </ul> |
| Video                  |                                                       | <ul style="list-style-type: none"> <li>• Limited by environments such as bad weather or dark night</li> </ul>                                                          |
| Video-integrated Radar | <ul style="list-style-type: none"> <li>• Combine the advantages of both radar and video</li> </ul>                                        | <ul style="list-style-type: none"> <li>• Expensive</li> <li>• Difficult to realize the real data integration</li> </ul>                                                |

## Advantages of video detection

- Machine learning & deep learning ensures the accuracy of the data
- Easy installation on any mast or existing roadside constructions with low cost.
- Rich real-time & statistic traffic data resources for management
- What you see is what you get.
- Available to identify vehicle size/color/plate number, and all kinds of road users such as pedestrian, bicycle
- Being able to detect scenarios such as fog, fire, accidents, traffic jam etc.
- Providing video surveillance for easy traffic management

# ClairEye iSeries

Traffic AI Video Detector



- AI & neural networks processing technology
- Cutting-edge vision with premium video quality
- 6 watts power consumption & compact size
- Ready-to-use solution for signal control optimization

# Important AI Power Upgrades

## Traffic AI Video Detector



**AI POWER UPGRADES COMING...**

**ClairEye-i Traffic Video Detector**

- AI Chip: Now 18 TOPS @ INT8
- Frame Rate: 25 fps

**ClairBox-R AI Box**

- AI Chip: Now 18 TOPS @ INT8
- Frame Rate: 25 fps
- Supports up to 32 x 1080p or 8 x 4K video streams

### New Software Features (Available on Both)

- **Real-time detection zone visualization** – see detection performance live on video stream
- **Queue length** – measured without manual marking
- **Average speed** detection
- **Persistent object ID & multi-target tracking** – avoids missed counts when vehicles pass through detection zones, even with overlapping boxes
- **Improved reliability** for fast-moving vehicles
- **Enhanced projection algorithm** – accurately distinguishes vehicles in congested scenes where detection boxes are close or overlapping; missed counts virtually eliminated

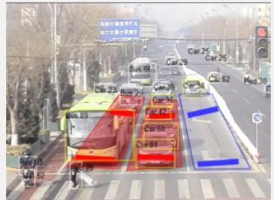
### [Detailed News](#)

# ClairEye Traffic AI Video Detector

## Brilliantly Compact Traffic Video Detection

- AI Powered Super Intelligence
- Superior Vision and Video Quality
- Efficient Design and Connectivity
- A Plug-and-play Tool for Signal Optimization

### Brilliantly Compact Traffic Video Detection



- AI Powered Super Intelligence
- Superior Vision and Video Quality
- Efficient Design and Connectivity
- A Plug-and-play Tool for Signal Optimization

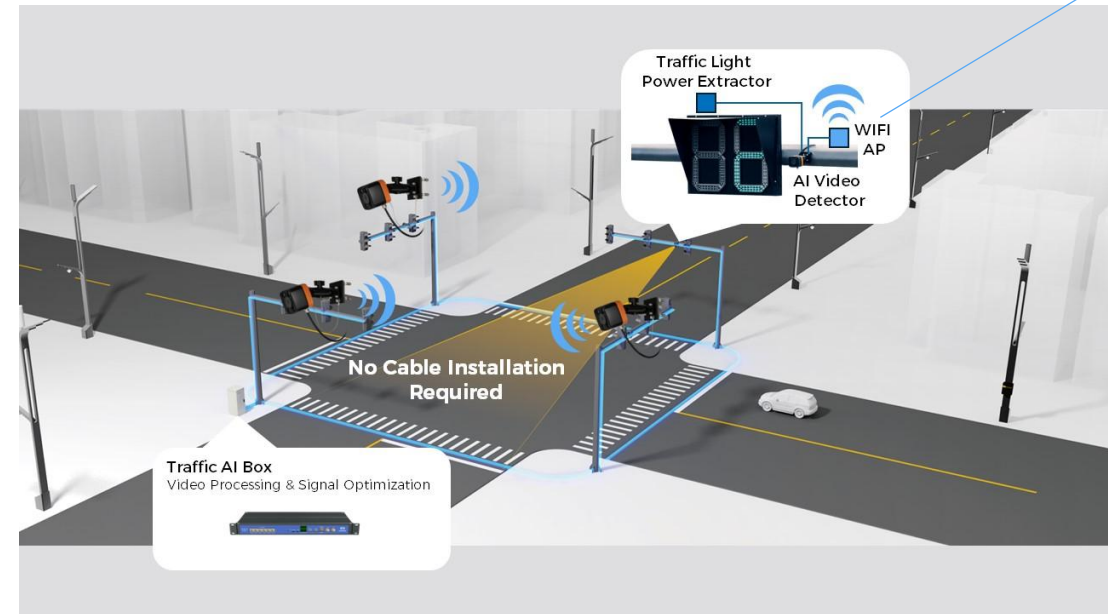


[Check Detail Introduction](#)

## Cable-free Installation: Ultimate Minimalist Signal Control Optimization Solutions

The minimalist design, requiring no cable installation and leveraging existing infrastructure for power and communication, makes it the ultimate solution for modern signal optimization.

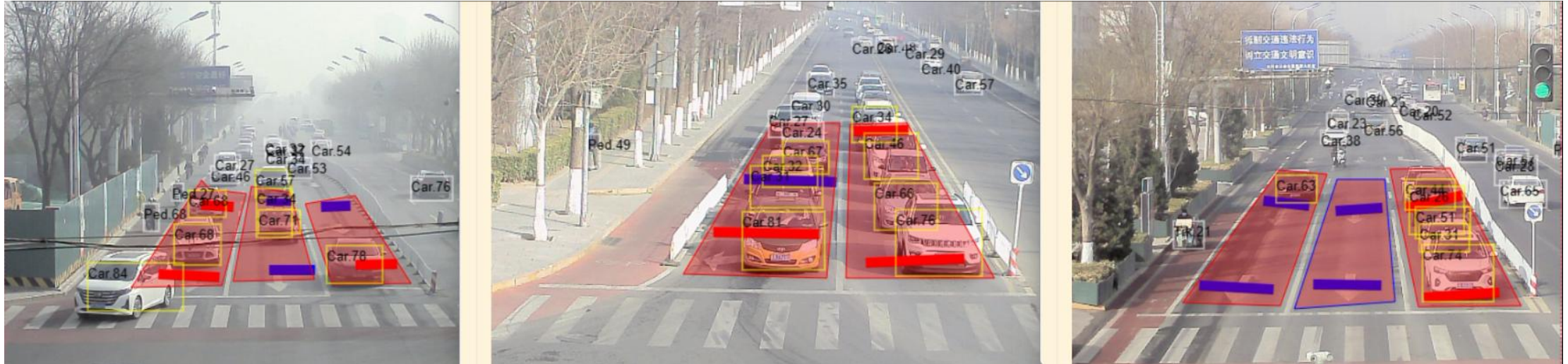
*To be released soon*



[Check Detail Introduction](#)

# AI & neural networks processing technology

Fusion of traditional machine learning and deep learning



- Targeted large-sample training is carried out for various weather conditions such as rain, snow, fog, for various environmental brightness such as day, dusk, evening and early morning, and for different density of vehicles on the road such as flat-peak hours, peak hours, etc.,
- AI training model is based on a huge quantity of real traffic data.
- Real-time traffic data output includes presence, traffic flow, occupancy and road user identification.
- Identification of 80 different targets including truck, car, motorbike, bicycle, pedestrian, and scenarios like fog, fire, accident, traffic jam etc.

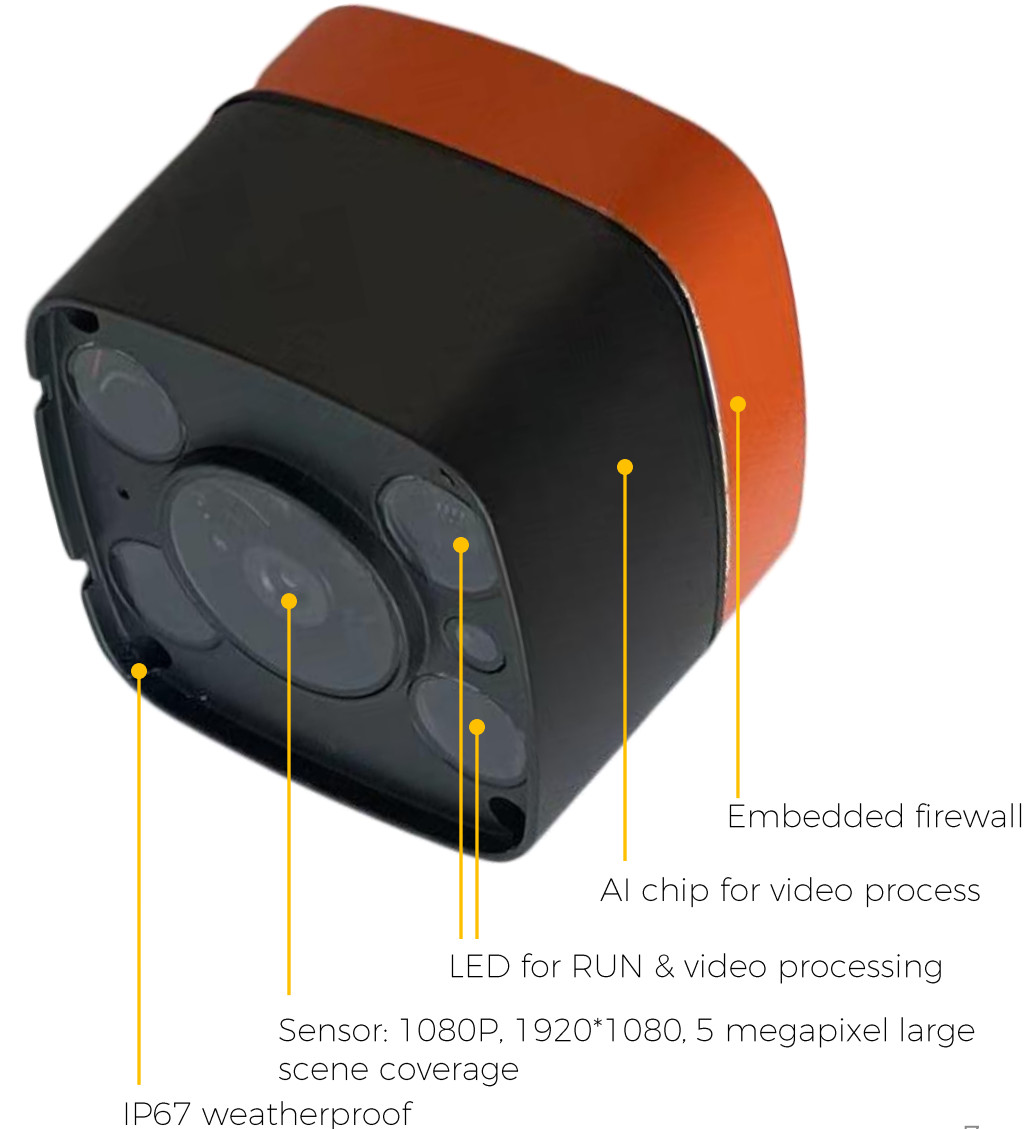
# Cutting-edge vision with premium video quality

Sensor:  
1080P,  
1920\*1080, 5  
megapixel  
large scene  
coverage

0.0001Lux  
starlight CCD  
eliminates  
the need for  
infrared fill  
light

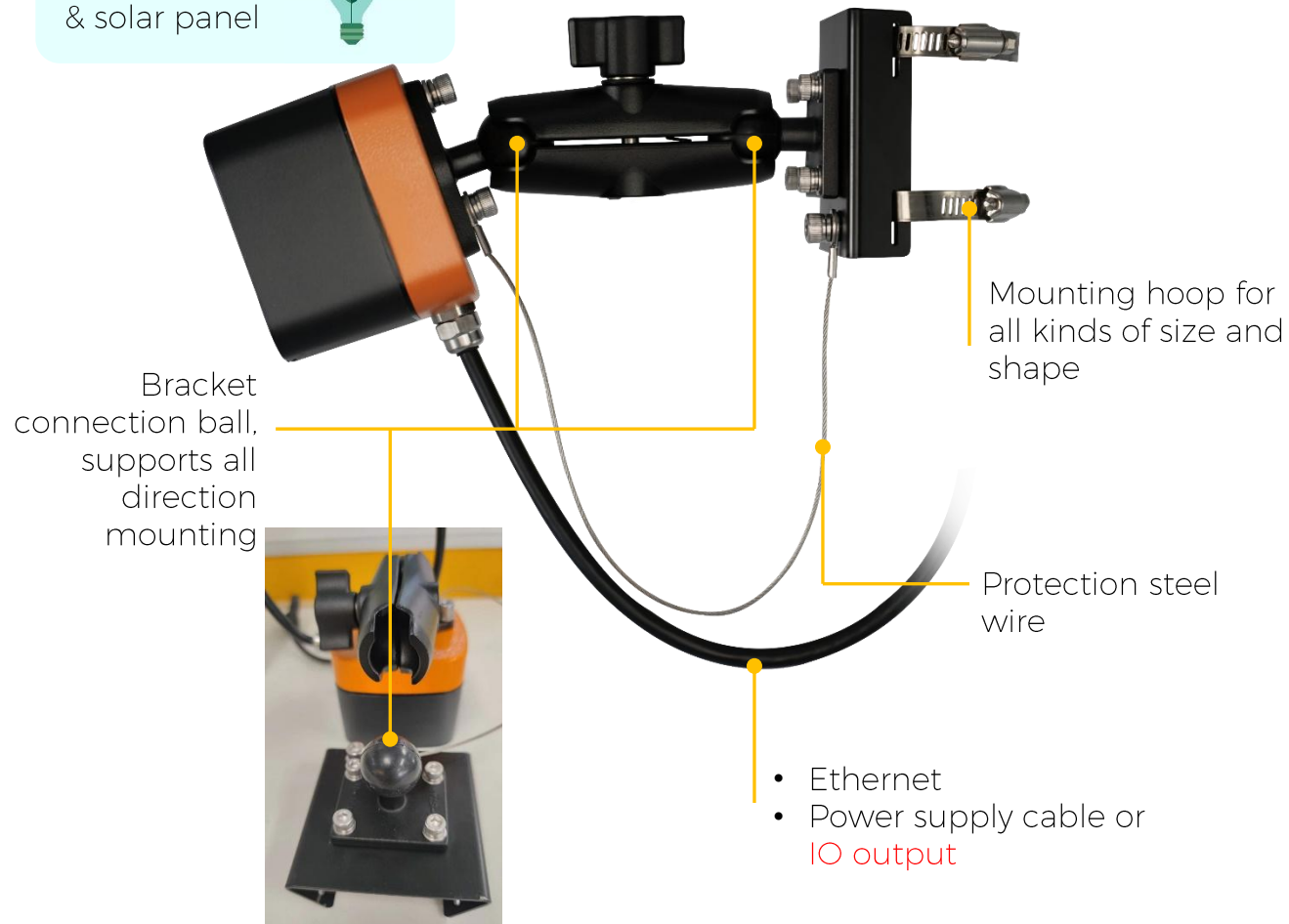
Digital WDR  
technology  
(120dB)  
avoids  
blurring from  
headlights at  
night

Industrial  
lens with 2.8-  
12mm focal  
length (fixed  
figure needs  
to be decided  
while place  
the order)



# 3 watts power consumption & compact size

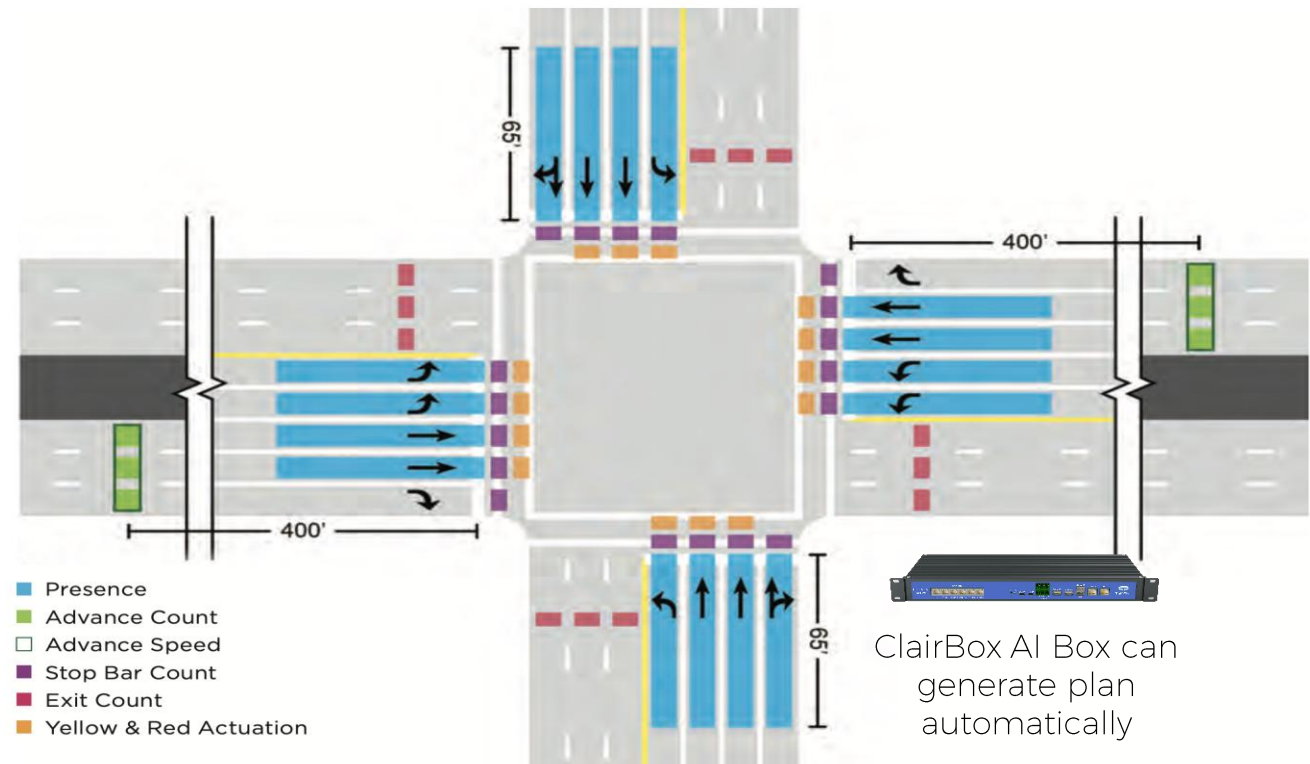
6 Watts only  
supports POE  
& solar panel



- Easy installation on all kinds of existing mast and roadside structures
- Rich communication methods for data collection and device management including Ethernet, IO, and optional Wi-Fi, 4G/5G, RS485
- Easy configuration web interface supports mobile devices. Support remote firmware upgrading with batch devices.
- Ultra-low power consumption less than 3 watts, supports POE, or solar panel for power supply
- Supports GB20999 (China standard), NTCIP protocol and user-defined protocol. Be compatible to any 3rd party signal controller or software platform.

# Ready-to-use solution for signal control optimization

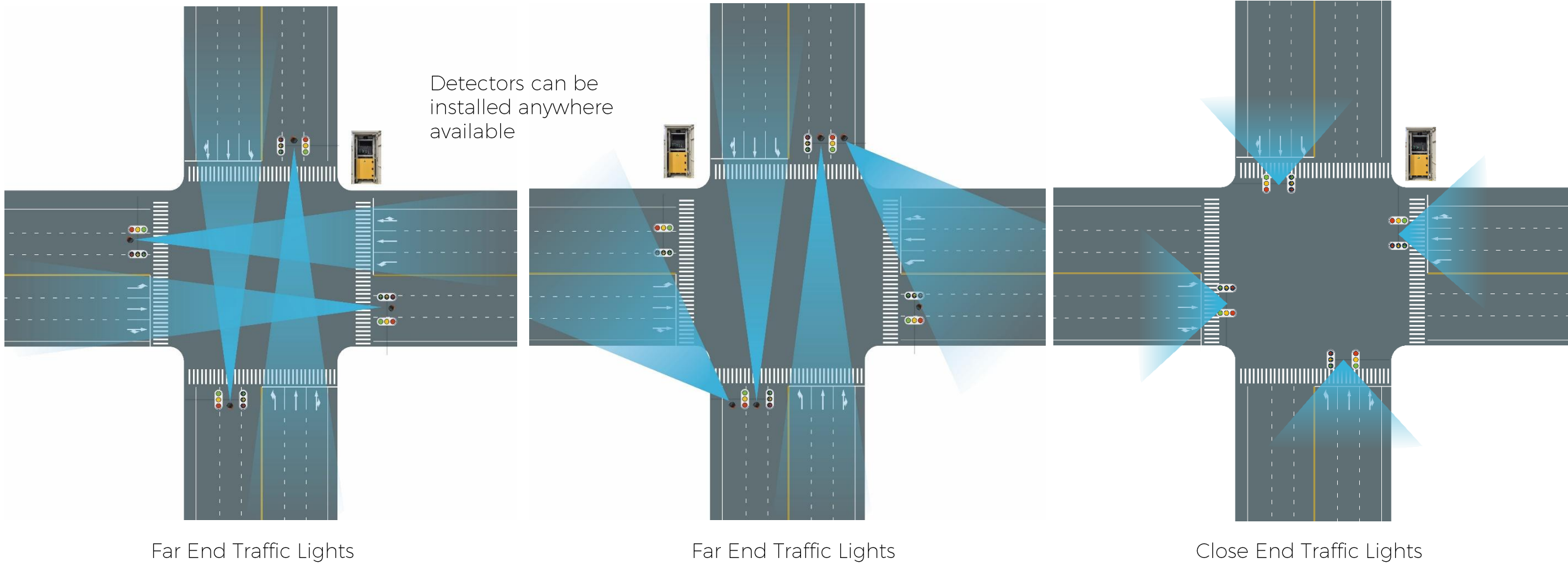
- Detection objectives:
  - Stop bar vehicle detection
  - Road user identification
  - Traffic event identification
  - Traffic data collection
  - HD video surveillance
- Traffic data output
  - Vehicle presence, traffic flow, occupancy (detect in & out), and road user identification
  - Identification of 80 different targets including truck, car, motorbike, bicycle, pedestrian
  - Event identification like fog, fire, illegal reversing on expressway, road congestion,
  - Vehicle abnormal driving event and accident detection



- Under the help of AI box, signal control optimization plan can be generated for intelligent improvements.

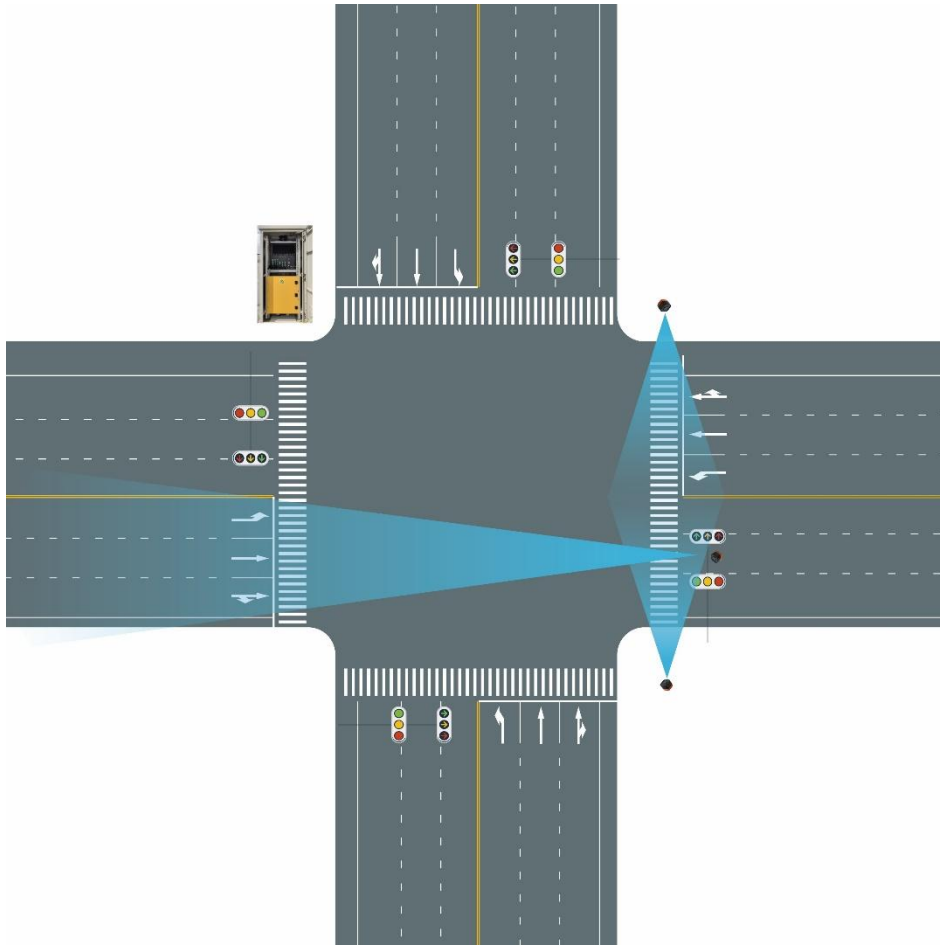
# Application Scenarios

Vehicle presence, road user identification, traffic data collection



# Application Scenarios

## Adaptive control of pedestrian crossing



- The number of people in the waiting area,
- The comprehensive waiting time,
- The pedestrian walking speed in the crosswalk,



- The traffic flow demand of road vehicles and the coordinated control demand of upstream and downstream



- Optimal control of non-contact automatic pedestrian traffic signals.

# Application Scenarios

## Event detection



**Detection of Pedestrian / non motor vehicle intrusion**

Through the pedestrian / non motor vehicle detection model, the objects within the video ROI range are detected. Warn pedestrians or non motor vehicles in time.



**Mass fog**

Through the visibility model of expressway, the visibility of Expressway in the video is analyzed (divided into 6 levels), and if it is lower than level 3, it will be warned immediately.



**Fire**

Through the fireworks detection model, the fireworks in the video are identified and warned.



**Detection of Illegal reversing on Expressway**

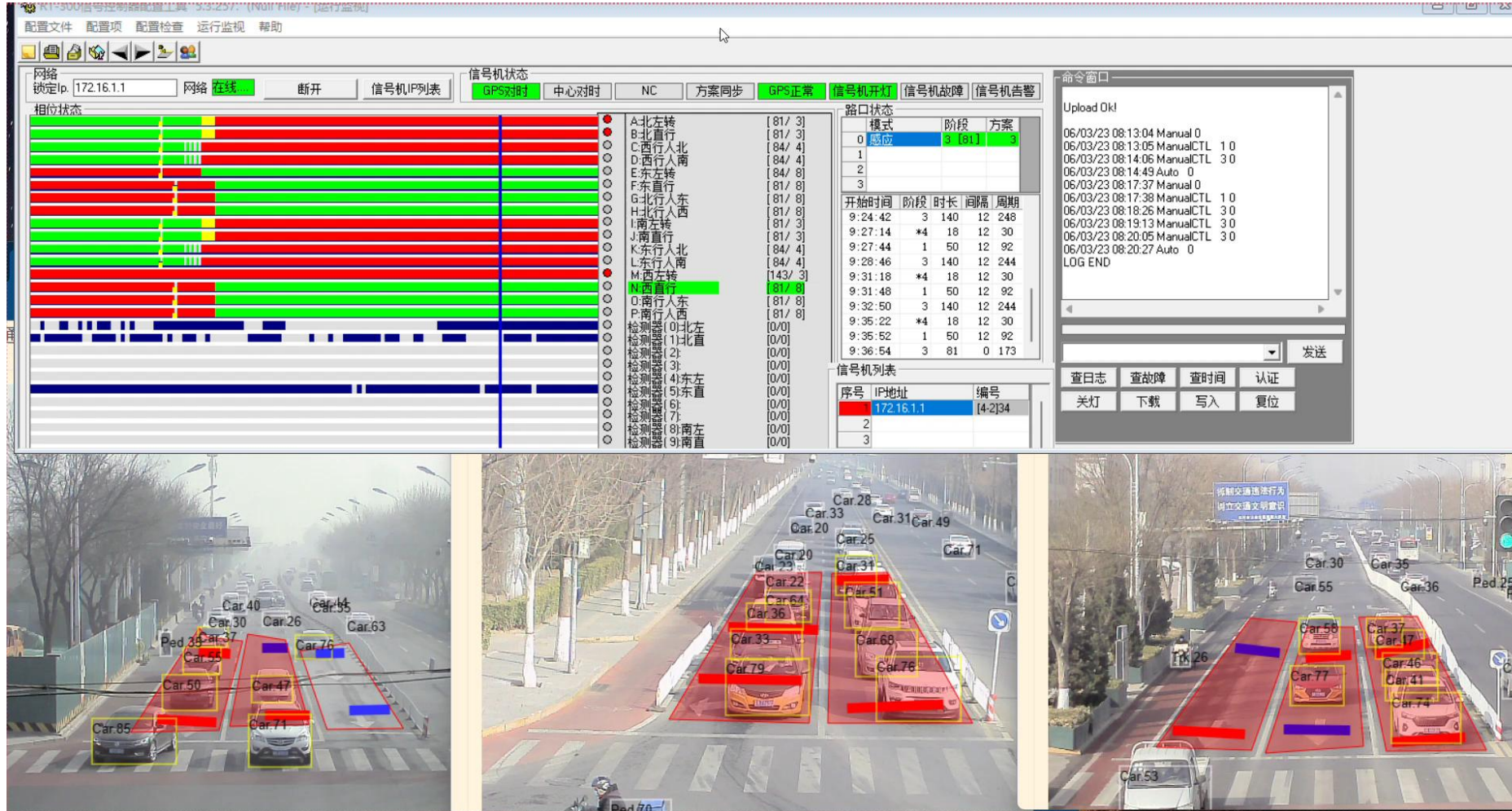


**Road congestion event detection**



**Vehicle abnormal driving event detection**

# Case Video



The cycle is dynamically adjusted according to the detection data

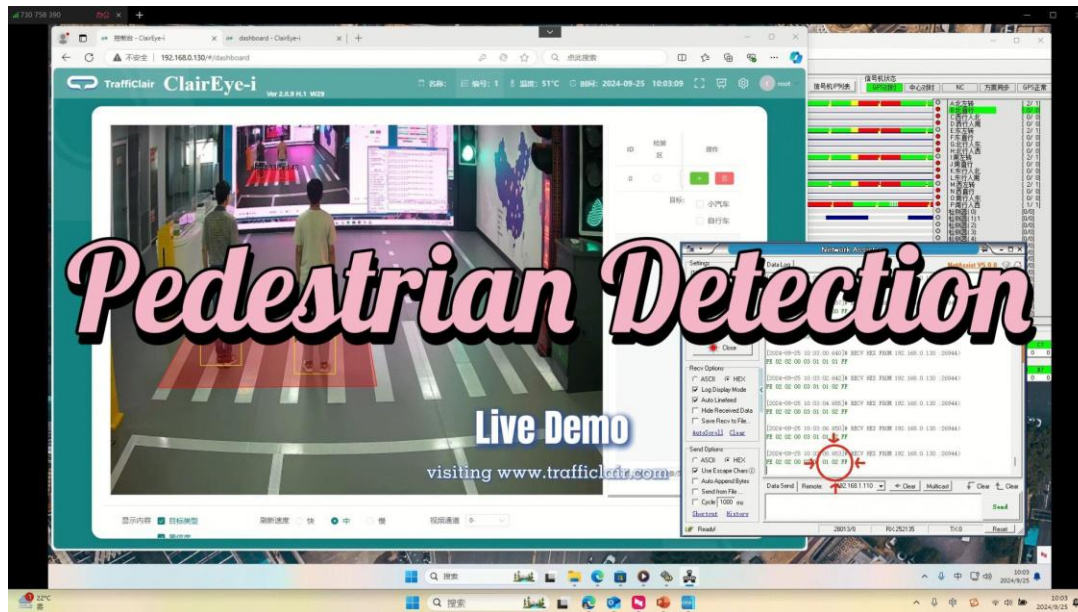
Easy detection zone & counting bar setting, and accurate stop bar presence detection

[Check the video online](#)

# ClairEye Live Demo

## ClairEye-I Pedestrian Detection

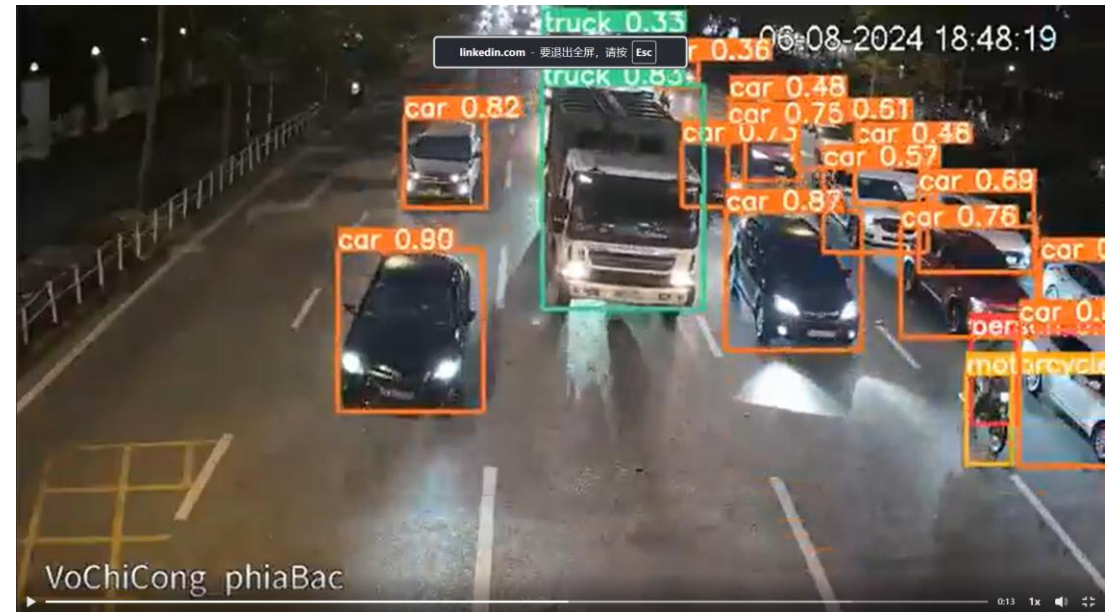
This live demo showcases the ClairEye-I AI video detector's capabilities in pedestrian detection. Our approach targets the detection zone at foot level, counting each instance when a pedestrian's feet enter this zone.



 [View full video on Youtube](#)

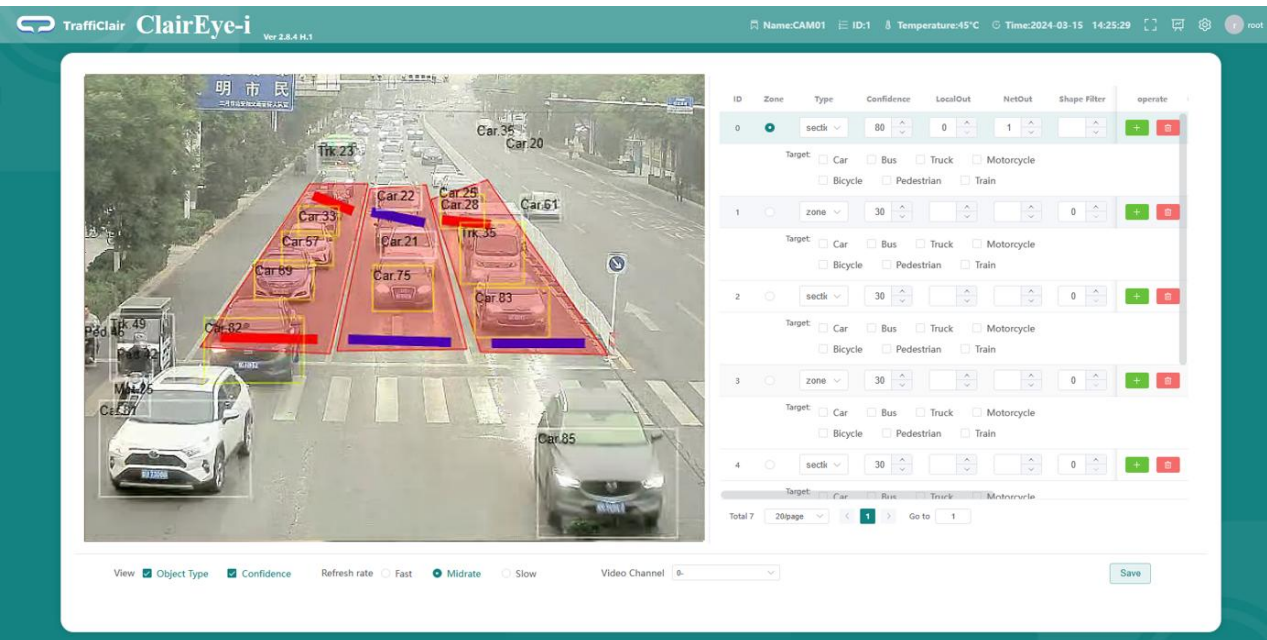
## ClairEye-I User Classification

Watch as ClairEye-i effortlessly detects all road users, from cars to motorbikes, in an instant. With its easy installation, high accuracy, and non-intrusive design,



 [View full video on Youtube](#)

# Configuration



- Traffic
- Occupancy
- Headway
- Speed

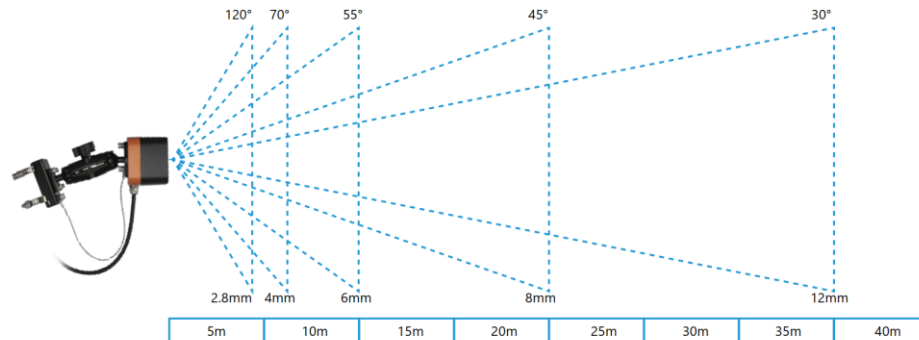
[Check the live demo video here](#)

# Ordering Information

## ClairEye-iFUN-LENS-COM-PS

| i          | FUN                                                                                                       | LENS                                                                                                                      | COM                                                                                             | PS                                                  |
|------------|-----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-----------------------------------------------------|
| i: iSeries | <b>PED:</b> Pedestrian detection<br><b>VEH:</b> Vehicle detection, default<br><b>EVE:</b> Event detection | <b>2.8:</b> Lens 2.8mm<br><b>4:</b> Lens 4mm<br><b>6:</b> Lens 6mm<br><b>8:</b> Lens 8mm<br><b>12:</b> Lens 12mm, default | <b>ETH:</b> Ethernet, default<br><b>EIO:</b> Ethernet and 2 I/O, for pedestrian crossing button | <b>POE:</b> 802.3af/at (Mode A) and 12VDC, default. |

LENS Selection



Accessory



Sun Rain Cover Shield: Accessory included within standard package.

# ClairEye-I FAQ

## ClairEye-i AI Traffic Video Detector



Q: ClairEye-i video detector utilizes a vast amount of real-world traffic data, and the algorithm is embedded in the AI chip for real-time traffic data processing. Is the data sourced from projects in the local region? Is it suitable for the global market's traffic situations?

A: Our algorithm is trained using both standard and specific traffic datasets. The standard traffic data includes international traffic information, making it suitable for the global market. Our training also focuses on challenging visibility conditions, such as nighttime, dawn, and adverse weather conditions like dust, fog, rain, and snow. These conditions don't vary significantly from region to region.

Q: With a detection distance of up to 150m, how does the system manage with a small IR? How does it prevent blurring from headlights at night?

A: We utilize a starlight CCD (0.0001LUX) that doesn't require infrared fill light. To mitigate blurring, we employ Digital WDR technology, which effectively suppresses intense light.

Q: The ClairEye-i's power consumption is just 3W with both AI and an optical camera. This seems almost unbelievable. How is this achieved?

A: This is achieved by employing a low-power consumption processor and CCD.

Q: How many lanes can be covered simultaneously?

A: It depends on the number of lanes the field of view can cover which will be related to the installation height and location.

Q: How is the setup done? What type of communication is used?

A: Configuration is done through a web GUI, communicating via Ethernet.

Q: What about the I/Os?

A: We utilize an accessory box that serves as an Ethernet to IO converter for I/O output.

Q: API?

A: We offer both customized and default APIs.

Q: Many older controllers operate using I/Os, or RS485. However, this may require adaptation to fit specific controllers. Can you accommodate this?

A: We provide convertors including Ethernet-IO/RS485 for such applications.

# EXT-AirLink

## The Smarter Way to Power & Connect Your Traffic Detection System



Upgrade your intersection technology with EXT-AirLink, the compact yet powerful accessory kit designed to simplify and enhance your TraffiClair traffic detection system. By combining power extraction and wireless communication, AirLink eliminates complex cabling, reduces installation time, and ensures seamless connectivity between video detectors and central controllers.

### Why Choose EXT-AirLink?

- **Power Over Ethernet (PoE) Distribution** – No need for separate power lines! AirLink extracts power directly from traffic signals and delivers it to detectors via PoE.
- **Integrated WiFi Access Points** – Wirelessly collect data from multiple detectors across an intersection, cutting cable clutter.
- **Scalable & Efficient** – One AirLink-Master connects up to 6 AirLink-Slave units and integrates smoothly with signal controllers or AI boxes via Ethernet.
- **Faster Deployment** – Minimize construction hassles, reduce costs, and accelerate your intelligent traffic management rollout.

[\*\*Product Page\*\*](#)

# EXT-AirLink

Enable Power Extraction & Wireless Communication for Signaling System



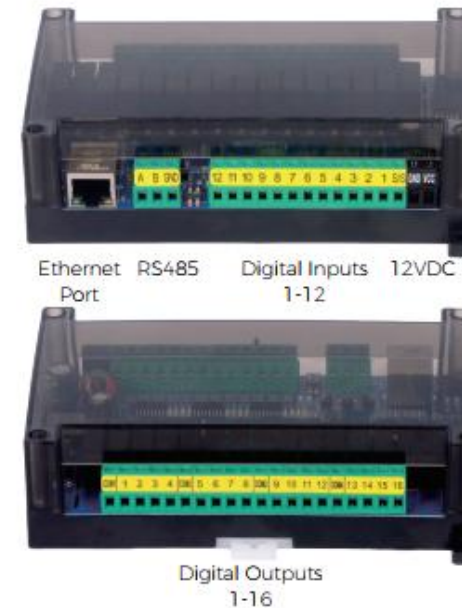
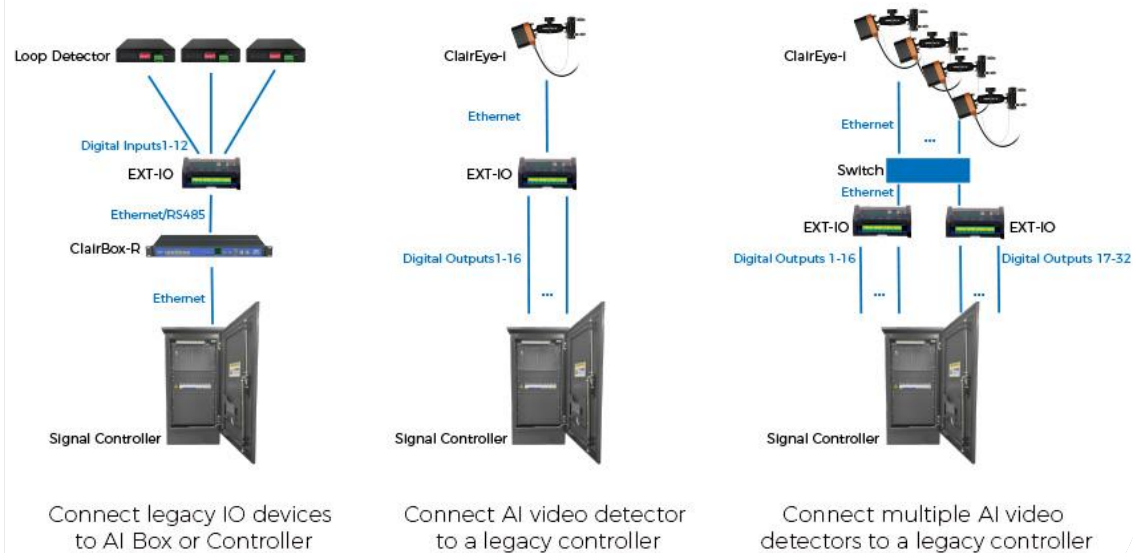
[Product Page](#)

|           | EXT-AirLink-Master                                                                                                                                                                                                                                                                                                                                                                                                                                     | EXT-AirLink-Slave                                                                                                                                                                                                                                                                                               |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Interface | <p><b>Power Input:</b><br/>R/Y/G AC 220V, extracted from traffic light.</p> <p><b>Output:</b><br/>DC 12V (1.25A)<br/>Connector Type: M12 plug (A-coded, 8-pin)<br/>Provides PoE power (IEEE 802.3af/at PoE++ compliant) and data transmission for cameras.<br/>Output Power:15W<br/>Protection Rating: IP67</p> <p><b>Output:</b><br/>Connector Type: M12 plug (X-coded, 4-pin)<br/>Protocol Support: Gigabit Ethernet<br/>Protection Rating: IP67</p> | <p><b>Power Input:</b><br/>R/Y/G AC 220V, extracted from traffic light.</p> <p><b>Output:</b><br/>DC 12V (1.25A)<br/>Connector Type: M12 plug (A-coded, 8-pin)<br/>Provides PoE power (IEEE 802.3af/at PoE++ compliant) and data transmission for cameras.<br/>Output Power:15W<br/>Protection Rating: IP67</p> |
| WiFi      | <p>Standard: IEEE 802.11ac<br/>Max Data Rate: 40 Mbps<br/>Encryption: WPA2-PSK<br/>Operation Mode: AP (Access Point)<br/>Max Connected Slaves: 6 devices</p>                                                                                                                                                                                                                                                                                           | <p>Standard: IEEE 802.11ac<br/>Maximum Data Rate: 40 Mbps<br/>Security: WPA2-PSK encryption<br/>Operation Mode: Station mode (connects only to host AP)</p>                                                                                                                                                     |

# EXT-IO

## Seamlessly Integration between Lagacy & Modern

### Application



[Product Page](#)

- **Interface Ethernet**
- Port Type: 10/100Base-TX, RJ45
- Supported Protocols: MODBUS TCP, TCP/IP
- **Interface RS485**
- Interface Type: RS485 (Terminal Block)
- Baud Rate: 9600 bps
- Communication Format: Default 8 data bits, 1 stop bit, no parity
- Transmission Distance: Up to 1200 meters (at 9600 baud rate for RS485 serial communication)
- **Digital Inputs**
- Input Channels: 12
- Voltage Level: 24VDC
- **Digital Outputs**
- Output Channels: 16
- Output Type: Relay (SPST-NO, Form A)
- Max. Switching Capacity: 2A per point
- Mechanical Isolation

# ClairEye VSeries

## Traffic Video Detector

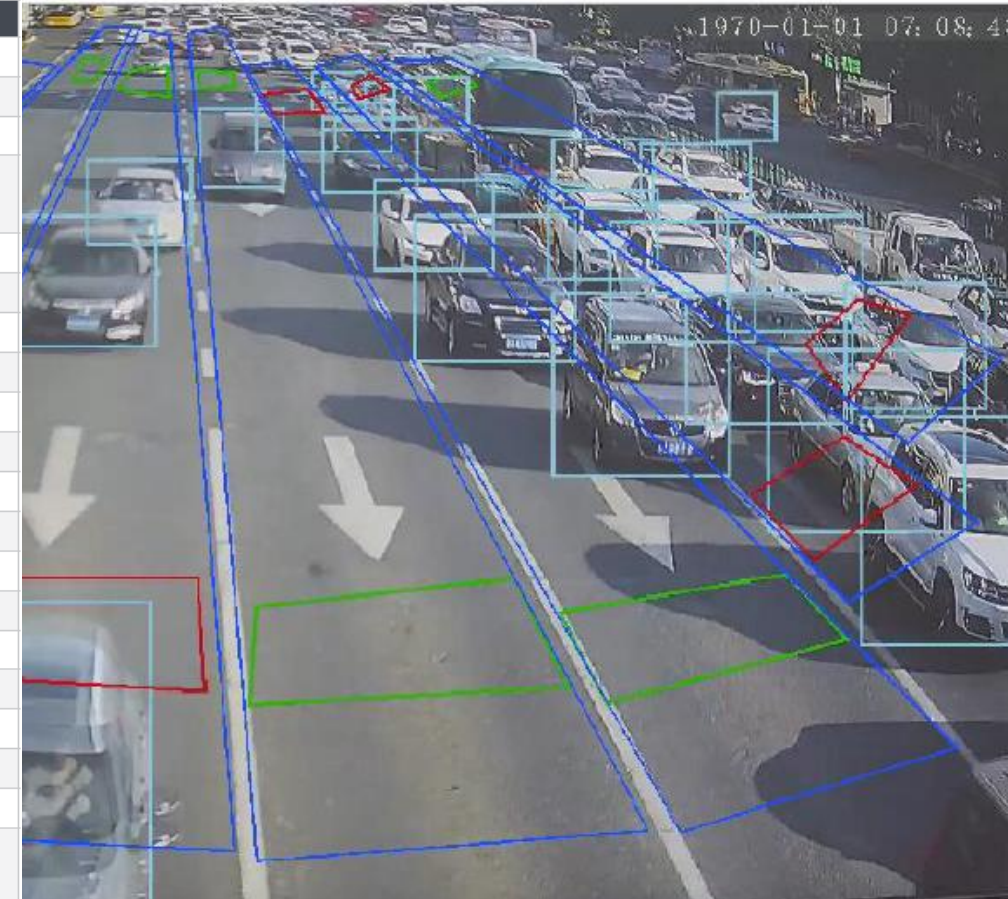
- Independent GPU chip for running more advanced algorithms
- Starlight-grade image sensor for excellent nighttime performance
- Rich detection data
  - Real-time Data: Traffic flow, real-time speed, vehicle type, queue length.
  - Statistical Data: Traffic flow, average speed, headway time, gap distance, time occupancy rate, space occupancy rate.
  - Accurate travel time analysis between multiple devices.
  - Analyzes traffic conditions such as slowmoving, congestion, and queued traffic.



# ClairEye VSeries

## Specs

| Catagory         |                                      | Features                                                   |
|------------------|--------------------------------------|------------------------------------------------------------|
| <b>Video</b>     | Video resolution (main stream)       | 5M (2560*1920)                                             |
|                  | Encoding format                      | H.264, H.265                                               |
|                  | Frame rate                           | 25 frames (adjustable)                                     |
|                  | Minimum illumination                 | Color 0.02Lux@F1.2<br>Black & White 0.01 Lux@F1.2          |
|                  | Dual stream                          | Supports main and sub streams                              |
|                  | LENS                                 | 3.6-12mm (fixed lens, 12mm as default)                     |
| <b>Processor</b> | Video Recording                      | Support OVNIF protocol for NVR recording                   |
|                  | SOC processor                        | A7@600MHz                                                  |
| <b>Detection</b> | GPU processor                        | 1T computing power                                         |
|                  | Lanes                                | 1-8 lanes                                                  |
|                  | Flash memory                         | 128M (expandable)                                          |
|                  | Real-time data                       | Speed, traffic flow, vehicle type, license plate etc.      |
|                  | Statistics data                      | Speed, traffic flow, occupancy rate, headway, queue length |
|                  | Traffic status                       | Slow-moving, congested, queued                             |
|                  | Traffic flow detection accuracy      | ≥95%                                                       |
|                  | Vehicle type accuracy                | ≥95%                                                       |
|                  | Occupancy detection accuracy         | ≥95%                                                       |
|                  | Speed detection accuracy             | ≥92%                                                       |
|                  | Queue length accuracy                | ≥92%                                                       |
|                  | Non-motorized vehicle filtering rate | ≥97%                                                       |



# iSeries vs. Vseries #1

|                         | ClairEye iSeries                                                                                                                                                                                                                                                                                                                                                                                                                  | ClairEye VSeries                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Architecture</b>     | AI & neural networks processing technology<br>Deep learning + machine learning                                                                                                                                                                                                                                                                                                                                                    | SOC+GPU hardware<br>cutting-edge traffic detection algorithms                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Video Resolution</b> | 5M pixel, 1920*1080                                                                                                                                                                                                                                                                                                                                                                                                               | 5M pixel, 2560*1920                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Frame Rate</b>       | 25                                                                                                                                                                                                                                                                                                                                                                                                                                | 25 as default                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Lanes</b>            | Up to 32 detection zones and 32 virtual detectors                                                                                                                                                                                                                                                                                                                                                                                 | 1-8 lanes                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Detection Data</b>   | <ul style="list-style-type: none"> <li>Vehicle presence, traffic flow, occupancy (detect in &amp; out), and road user identification</li> <li>Identification of 80 different targets including truck, car, motorbike, bicycle, pedestrian</li> <li><u>Event identification</u> like fog, fire, illegal reversing on expressway, road congestion,</li> <li><u>Vehicle abnormal driving event and accident detection</u></li> </ul> | <ul style="list-style-type: none"> <li>Real-time Data: Traffic flow, <u>real-time speed</u>, vehicle type, <u>queue length</u>.</li> <li>Statistical Data: Traffic flow, <u>average speed</u>, headway time, <u>gap distance</u>, time occupancy rate, <u>space occupancy rate</u>.</li> <li><u>Accurate travel time analysis</u> between multiple devices.</li> <li>Analyzes traffic conditions such as slow moving, congestion, and queued traffic.</li> </ul> |
| <b>Power Supply</b>     | POE, or 12VDC                                                                                                                                                                                                                                                                                                                                                                                                                     | 110/220VAC or 12VDC                                                                                                                                                                                                                                                                                                                                                                                                                                              |



# iSeries vs. Vseries #2

|                       | ClairEye iSeries                                                                                                                                                                                                                                                                                                                                                                                                         | ClairEye VSeries                                                                                                                                                                                                                                                                              |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Advantages</b>     | <ul style="list-style-type: none"> <li>• Neural networking processing doesn't need high end processor save cost and also power consumption (only 3 watts)</li> <li>• The detection accuracy continuously improves with the increase in project implementation.</li> <li>• Gimble arm enables easy installation for any direction adjustment</li> <li>• Detection zone up to 32 lanes and 32 virtual detectors</li> </ul> | <ul style="list-style-type: none"> <li>• Rich detection data including real-time data, statistic data, especially vehicle speed and parameters related with space distance by calibrating the distance within the device</li> <li>• Higher resolution and 25 frame rate by default</li> </ul> |
| <b>Disadvantages</b>  |                                                                                                                                                                                                                                                                                                                                                                                                                          | <ul style="list-style-type: none"> <li>• Traditional SOC+GPU architecture requiring high end processor and higher power consumption</li> <li>• Detection zone up to 8 lanes</li> </ul>                                                                                                        |
| <b>Suitable Cases</b> | <ul style="list-style-type: none"> <li>• Good choice for presence detection and work perfectly with ClairBox AI box for easy signal optimizations</li> </ul>                                                                                                                                                                                                                                                             | <ul style="list-style-type: none"> <li>• Good choices for cases requiring rich detection data especially speed and distance related data</li> </ul>                                                                                                                                           |



|                           | ClairEye iSeries                                                                                                                                      | ClairEye VSeries                                                                                                                                              | FLIR Traficam AI                                                                                                                                                              | Yunex Sivcam (Siemens)                                                              | iteris Versicam                                                                                                                      | Autoscope IntelliSight                                                                                                                        |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
|                           |                                                                      |                                                                              |                                                                                            |  |                                                   |                                                            |
| Function                  | Stop bar vehicle detection<br>Road user identification<br>Traffic event identification<br>Traffic data collection<br>HD video surveillance            | Real-time Data: flow, <u>real-time speed</u> , vehicle type, <u>queue length</u> .<br>Statistical Data<br>Accurate travel time analysis<br>Traffic conditions | Object detection:<br>(motor)bike, small vehicles (car, van), big vehicles<br>Vehicle Presence Detection<br>Traffic Data Collection<br>Queue Length Monitoring                 | CMOS camera combined with an image processing system                                | Accurate vehicle detection in all lighting conditions.                                                                               | Object detection and motion tracking<br>Cost-effective solution for traffic<br>Bicycle and pedestrian detection<br>Enhanced data in real-time |
| Detection Distance & Zone | <u>150m</u><br><u>Up to 32 detection zones and 32 virtual detectors</u>                                                                               | 1-8 lanes                                                                                                                                                     | <u>Wide 0-75m, narrow 75-150m</u><br><u>24 virtual loops for presence detection</u><br>8 traffic data zones for classification and counting                                   | <u>Wide 50m</u><br><u>Up to 8 direction-sensitive detection zones</u>               | <u>Designed for small or semi-actuated intersections.</u>                                                                            | Unknown                                                                                                                                       |
| Video Characteristics     | Sensor 1/1.8 inch, <u>5 megapixel(1920 x 1080)</u> large scene coverage, Lens 2.8-12mm<br><u>Frame rate 10-25FPs</u><br>Encoding formats H.264, H.265 | 5M (2560*1920)<br>3.6-12mm (fixed lens, 12mm as default)<br>Frame rate: 25 fps                                                                                | Type: CMOS Type 1/2.8 color High Dynamic Range<br>Resolution: <u>Full HD (1920 x 1080)</u><br><u>Frame Rate: 25 fps</u><br>Compression: H.264, MPJEG<br>Streaming Video: RTSP | <u>Black &amp; white, 1/3" CMOS, resolution 640 x 480 pixels</u>                    | Color imager<br><u>768 x 494 effective pixels</u><br>530 TV Lines<br>Automatic white balance<br>>50dB S/N ratio<br>1.0 to 10,000 lux | Minimum Illumination: 0.007 to 0.009 lx<br>Resolution: HD 720p<br>Focal length: 2.9 - 9 mm                                                    |
| Communication             | <u>Ethernet, IO, and optional Wi-Fi, RS485</u>                                                                                                        | Ethernet                                                                                                                                                      | POE, BPL, Wifi                                                                                                                                                                | Serial RS485 interface                                                              |                                                                                                                                      | 10/100/1000 Wan and Ethernet ports<br>USB 2.0 and 3.0                                                                                         |
| Power                     | <u>PoE, 12-24VDC 6W</u>                                                                                                                               | 110/220AC 8W                                                                                                                                                  | 24-42 VAC / 24-48 VDC<br>Avg 9,5 W / Peak 14 W                                                                                                                                | 12 to 26 V AC/DC<br>≤ 1.2 W                                                         | 24 to 48VDC<br>11W typical, 22W max                                                                                                  | POE                                                                                                                                           |

# ClairEye Traffic AI Video Detector

## Use Case in Malaysia

Our partner in Malaysia has recently implemented the ClairEye-i traffic AI video detector as part of a trial project.



[Detail Report](#)

## Crosswalk Safety Revolutionized by Advanced Pedestrian Video Detection System

Our Canadian partner, [Novax](#), recently showcased the successful integration of the ClairEye-i pedestrian video detector into its intelligent crosswalk system at the latest tradeshow, highlighting cutting-edge advancements in pedestrian safety technology.



[Detail Report](#)

# Case Study

## ClairEye-iSeries AI Traffic Sensor Deployment in Sanhe City



**Case Study:**  
**ClairEye-iSeries**  
**AI Traffic Sensor**  
**Deployment in**  
**Sanhe City**

### System Configuration

- Units: 200 sensors installed at urban and suburban intersections.
- Detection: Vehicles, pedestrians, cyclists, and events (e.g., fog, fire, accidents).
- Communication: Ethernet and optional 4G/5G for data transmission.
- Power: PoE (Power over Ethernet).

### Implementation

- Sensors were mounted on traffic light poles and roadside structures, with 12mm lenses for up to 150 meters of coverage.
- Detection zones were customized for each intersection, and the system adapted to poor lighting and weather conditions using WDR and strong light suppression.
- Real-time data was integrated with the city's traffic management platform, enabling adaptive signal control to optimize traffic flow.

[Case Details](#) [Product Page](#)



# Questions & Answers

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**Thanks**

