



TrafficClair Monthly Updates

2025.03

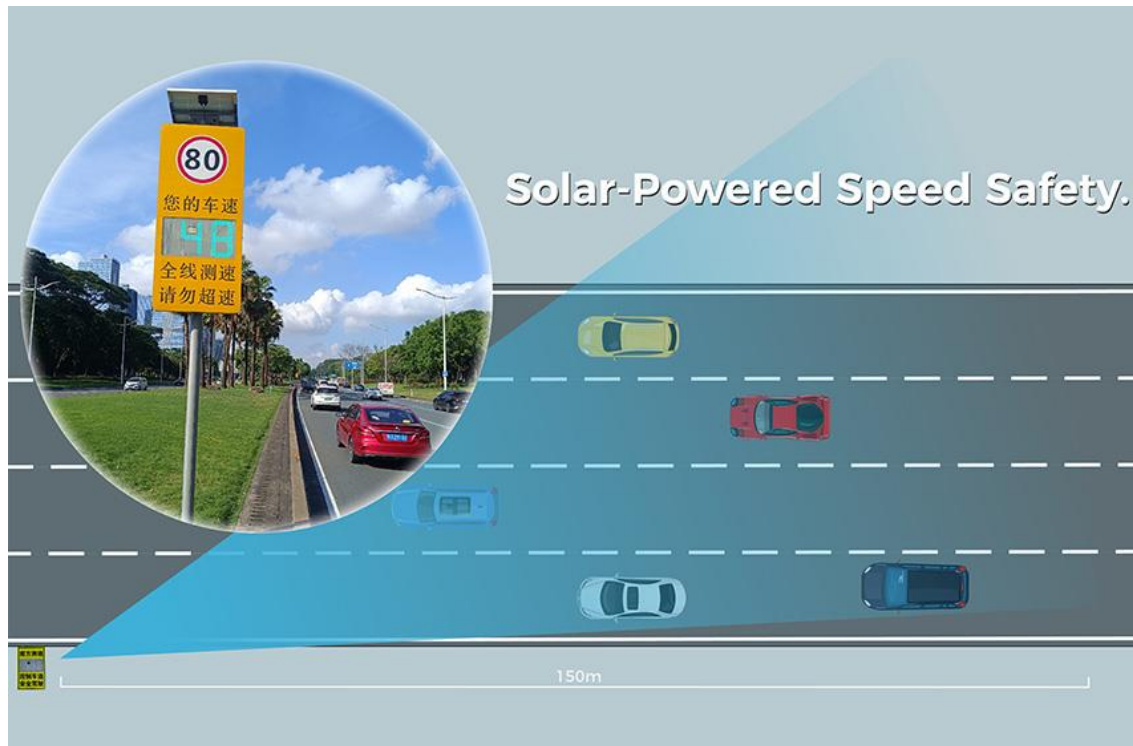
Kevin Gu

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ClairSaf-Speed

Solar-Powered Radar Speed Sign!



Key Features

- Speed Detection Range: 4-400KM/H
- Distance Detection Range: Longitudinal coverage of up to 150 meters.
- LED Display Brightness: Luminous intensity of 4,800-6,800 mcd for red and 8,500-10,500 mcd for green.
- LED Viewing Angle: ≥ 30 degrees
- LED Visible Distance: ≥ 300 meters
- Solar Panel Power: 80W
- Battery Capacity: 12V/65AH, lead-acid. The device can operate continuously for 120 hours in rainy or overcast conditions.
- Operating Temperature: -30 to 70°C
- IP Rate: LED display IP54, Radar IP65
- Radar Frequency: 24.15GHz
- Dimension: Pole, 4500*110mm (to be provided by the customer). Speed display sign: 1300*650*90mm (ClairSaf-Speed-88), 1850*123*90mm (ClairSaf-Speed-188). Battery box: 500*353.2*277mm

[Demo Video](#) [Product Page](#)

Customizable Features

of the ClairSaf-Speed Solar-Powered Radar Speed Sign

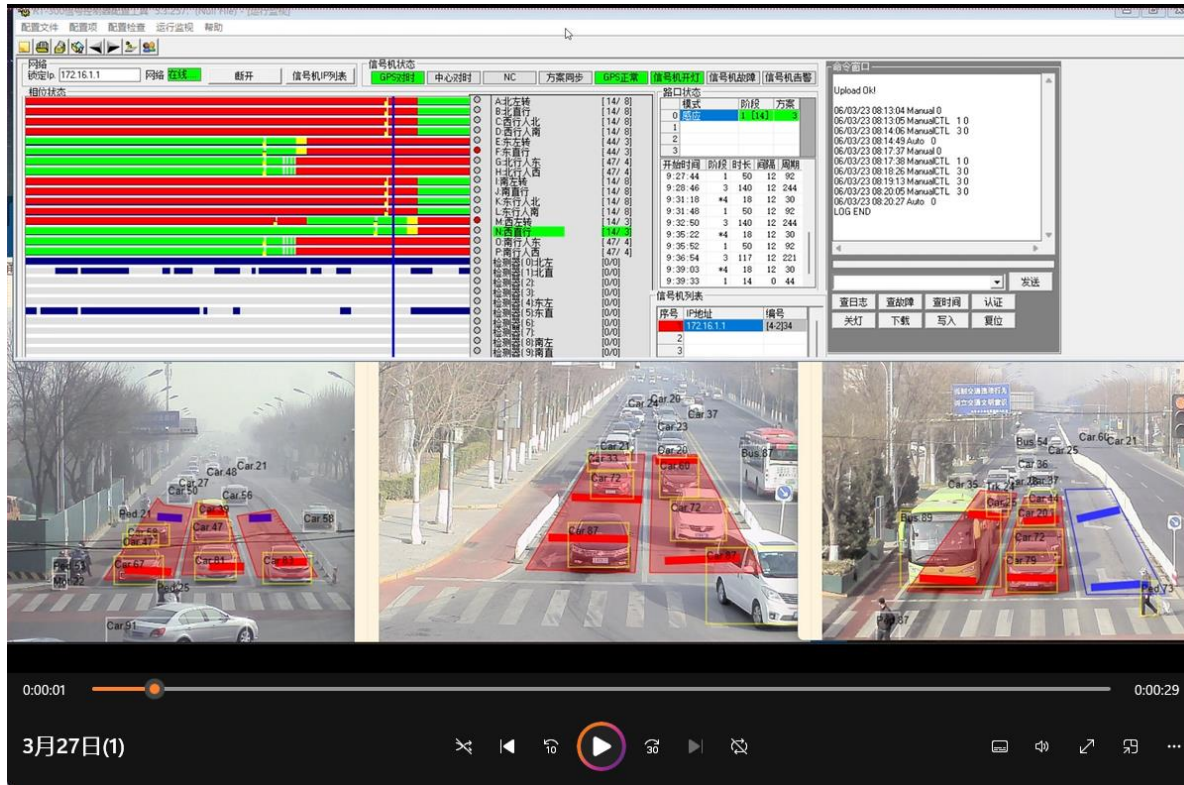


1. Flexible Display Content & Messaging
2. Adjustable Speed Limit Settings
3. Personalized Display Colors
4. Multilingual Options
5. Tailored Size & Design
6. License Plate Display (Optional)
7. Vehicle Classification
8. Battery Upgrade

Customize Your Speed Sign - Tell Us Your Needs!

[Demo Video](#) [Product Page](#)

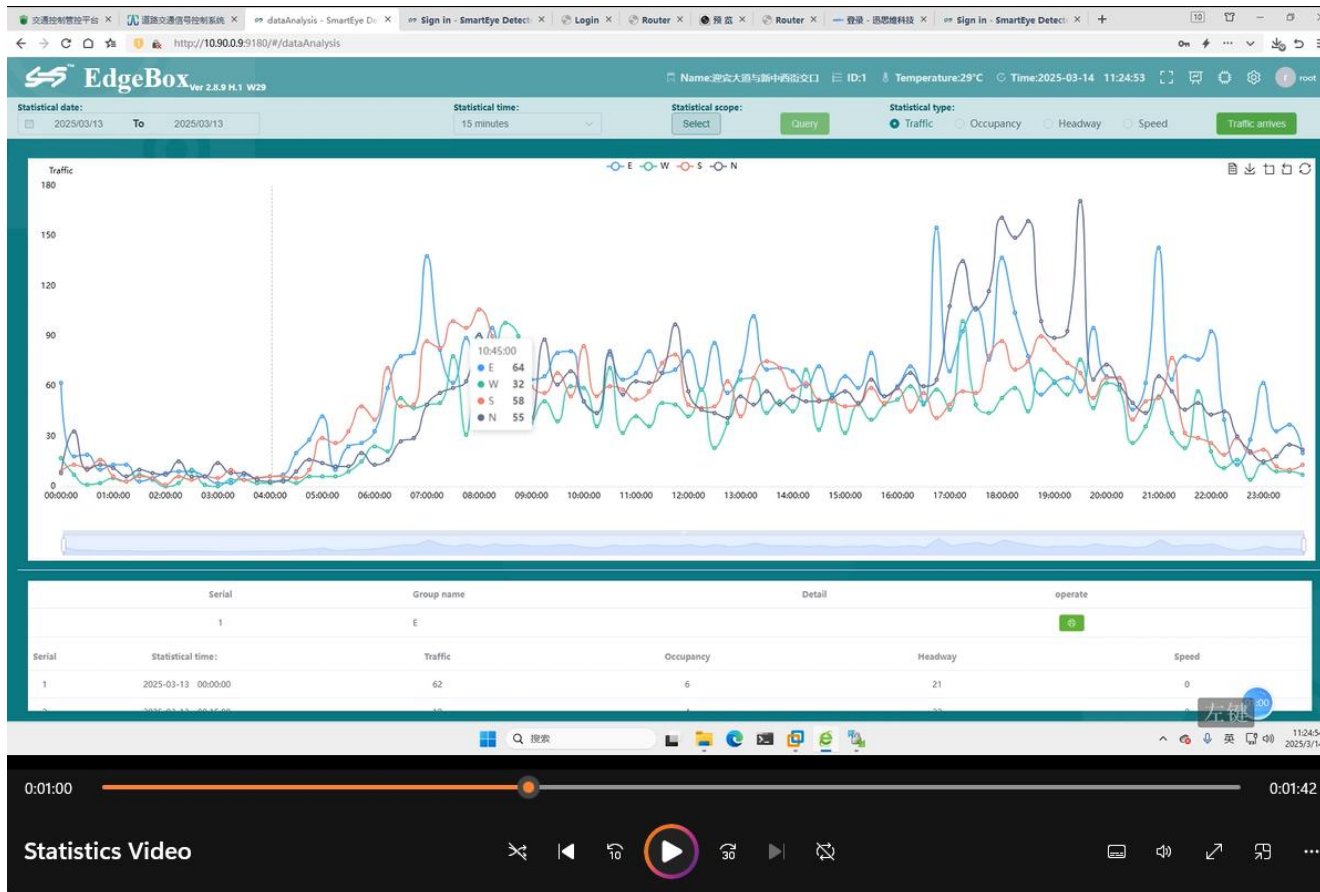
Traffic Video Detection and Dynamic Signal Optimization



This live demo video showcases the Sanhe project, where three ClairEye-I video detectors are strategically installed at the intersection, monitoring traffic in three directions. These advanced detectors collect real-time traffic data, including vehicle presence, traffic flow, occupancy rates, and road user identification. The data is then utilized for dynamic signal optimization, allowing the traffic signals to adapt in real-time to changing traffic conditions. As demonstrated in the video, the signal cycle lengths are dynamically adjusted to improve traffic efficiency and reduce congestion. This intelligent system ensures smoother traffic flow and enhanced safety at the intersection.

[Demo Video](#) [Product Page](#)

Traffic Detection System Statistics for Intersection Analysis



The system is equipped with a ClairBox-R AI Box and four ClairEye-I AI Video Detectors, designed to monitor and analyze key traffic metrics such as traffic flow, occupancy rates, headways, speeds, and more. The advanced data statistics function provides clear, intuitive visualizations, enabling users to better understand and utilize the collected data. Beyond visual displays, the system also supports data export functionality, allowing users to download detailed reports and high-quality images for further analysis or reporting.

Related Products:

- [ClairBox-R: AI-powered Traffic Box with advanced video processing and signal optimization capabilities.](#)
- [ClairEye-I: AI Traffic Video Detector for precise and reliable traffic monitoring.](#)

[Demo Video](#)

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).

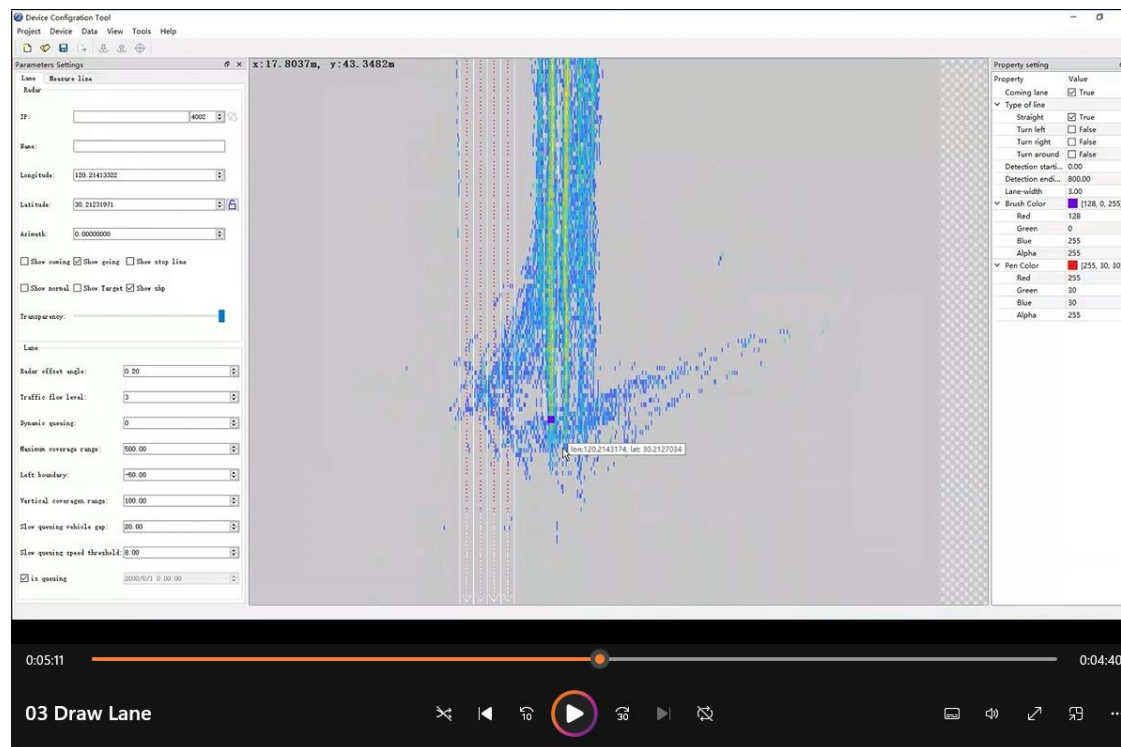
Implementation

- 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](#)

ClairWav Radar Software Installation Guide

Step-by-step Video Tutorial



Models	Steps
For all models including with/without integrated camera (T24S/T24L/T80L)	• Install Device Configuration Tool • Record Target Data • Draw Lanes • Install Intelligent Vehicle Detection System and Show the Result
For models with integrated camera only (T24SC/T24LC/T80LC)	• Install Calibration Tool • Calibration • Install Radar-Video Integration Tool • Show Radar-Video Integration Result

[Demo Video](#)

New Products at a Glance

Solar Powered Warning Light for Highway Borders

- 24 hours synchronizing frequency Flashing lights
- frequency 60 times/minute customizable
- Solar Panel: silicon solar panel,1.75W/5V
- Battery:18650Lithium-ion battery 3.7V,2300mAH
- Material : UV Stabilized PC
- Communication: 2.4G
- LED quantity: 8 LEDs /2 LEDs
- Working life: 280,000 hours
- LED viewing angle ≥ 30 degrees
- Light area : 138*138mm
- Visible distance ≥ 300 M



[Youtube Video](#) [LinkedIn Introduction](#)

New Products at a Glance

Solar LED Warning Lights & Traffic Signs

- **Solar LED Warning lights**
- frequency 45 times/minute customizable
- Solar Panel: silicon solar panel, 8W/15V
- Battery: Lithium-ion battery 11.1V, 6.6AH
- Material: UV Stabilized PC
- Working mode: light control
- LED quantity: 90 LEDs (yellow) 84 LEDs (Red)
- Working life: $\geq 80,000$ hours
- LED viewing angle ≥ 30 degrees
- Light area: 300mm (200mm/400mm optional)
- Visible distance $\geq 300M$



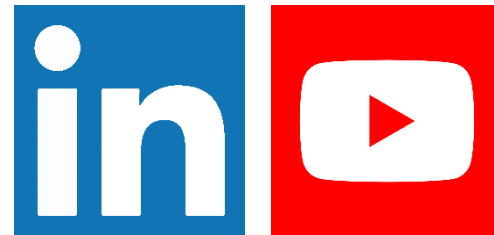
- **Solar LED Traffic sign plate**
- Product size: 600*600*65MM or 800*800*65MM
- material: 1.5MM thick aluminium plate
- Solar Panel: silicon solar panel, 5W/16V
- Battery: 18650 Lithium-ion battery 11.1V, 7AH
- Working mode: light control
- Working life: $\geq 80,000$ hours
- LED viewing angle ≥ 30 degrees
- Operating temperature: $-25^{\circ}C \sim 65$
- Protection grade: $\geq IP54$,
- LED colour: white or yellow
- Reflective film: 3M reflective film



To be released. Reach us for a quote.

Join the journey towards the future of mobility.

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[202412](#), [202501](#), [202502](#), [all previous issues...](#)



Thanks

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