



TrafficClair Monthly Updates

2024.12: Highlights of the year 2024.

Kevin Gu

2025

A New Start, A Bold Journey!

Happy New Year 2025!

As we embark on a new year, TraffiClair extends heartfelt gratitude to our valued customers, partners, and collaborators for your trust and support. Together, we've worked towards smarter, safer, and more efficient traffic solutions, and we are excited to continue this journey of innovation and progress with you.

May 2025 bring you success, growth, and prosperity. Let's move forward together, paving the way for better mobility and brighter horizons.

Here's to another year of partnership and possibilities!

ClairLup
Inductive Loop Detector



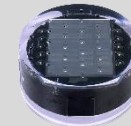
ClairWav
Microwave Radar



ClairEye
AI Video Detector



ClairSRS
Smart Road Stud



TraffiClair Unveils ClairWav T24-700: Traffic Radar with Unmatched 700m Detection Range



TraffiClair introduces the ClairWav T24-700, a groundbreaking 24GHz traffic radar offering an unparalleled 700-meter detection range (2297 feet), ideal for highways, urban roads, and V2X applications.

Powered by phased array technology and AI algorithms, the ClairWav T24-700 tracks up to 512 targets across 14 lanes with precision and speed. Key features include:

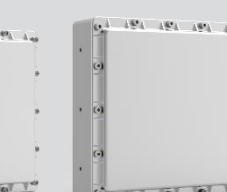
- **High Accuracy:** ≥95% for vehicle flow, speed, and queue detection.
- **Comprehensive Outputs:** Real-time positioning, vehicle classification, lane data, and traffic flow metrics.

For enhanced monitoring, the ClairWav T24-700C integrates an 8-megapixel camera, combining radar accuracy with video clarity. The ClairWav T24-700 redefines traffic detection with its superior range and reliability, enabling smarter traffic management.

[View Full Press Release](#)

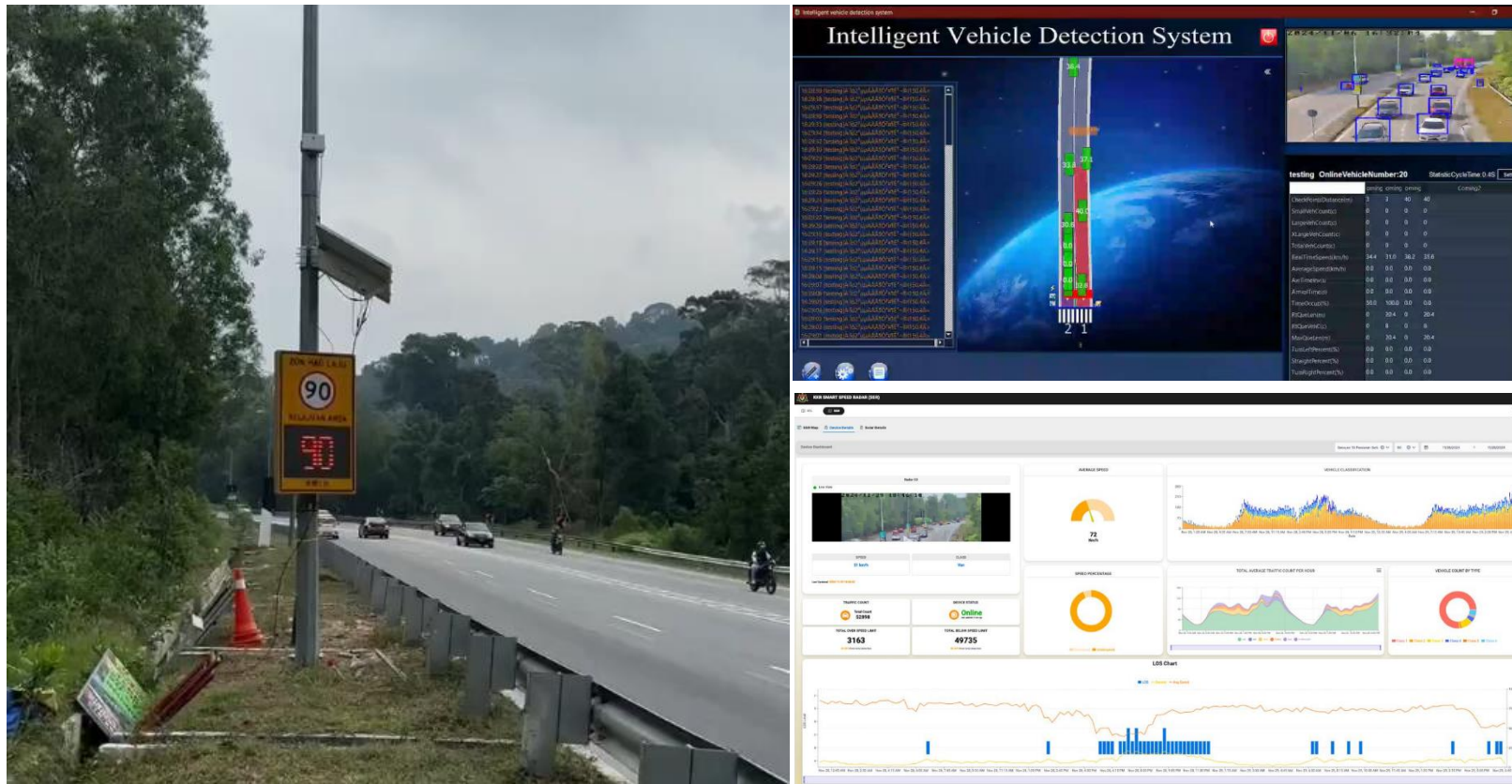
[Product webpage](#)

ClairWav Microwave Radar Family

				NEW	NEW			
T24L	T24S	T24LC	T24SC	T24-700	T24-700C	T80L	T80LC	U24
24GHz	24GHz	24GHz	24GHz	24GHz	24GHz	80GHz	80GHz	24GHz
Traffic Control	Traffic Control	Traffic Control	Traffic Control	Traffic Control	Traffic Control	Traffic Control	Traffic Control	Tunnel
								
Vehicle detection distance up to 400m	Vehicle detection distance up to 250m	Vehicle detection distance up to 400m, integrated with a 5M video camera	Vehicle detection distance up to 250m, integrated with a 5M video camera	Vehicle detection distance up to 700m	Vehicle detection distance up to 700m, integrated with an 8M video camera	Vehicle detection distance up to 350m	Vehicle detection distance up to 350m, integrated with a 5M video camera	Vehicle detection distance up to 400m
12 lanes 256 targets	12 lanes 128 targets	12 lanes 256 targets	12 lanes 128 targets	14 lanes 512 targets	14 lanes 512 targets	8 lanes 256 targets	8 lanes 256 targets	2 lanes 128 targets

Highway Speed Limit & Flow Statistics

Location: Malaysia



- Speed limit with solar powered LED display
- Plate number of the vehicle which is over speed limit will be displayed on the LED.
- Up to 12 vehicle classifications can be identified precisely.
- Flow statistics for each of the vehicle classification can be displayed in the cloud platform.
- Cloud platform supports:
 - Overspeed records with vehicle plate number.
 - Onsite video stream is supported for each note.
 - Traffic flow statistics per each of the 12 vehicle classifications
 - Traffic status of one region or route

ClairWav Radar Live Demo

 [Morning peak of an intersection](#)



 [City Traffic Management Platform](#)



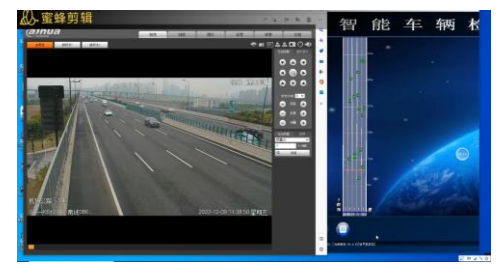
 [Highway Management Platform](#)



 [300m Straight Road \(without Sound Barrier\)](#)



 [300m Straight Road \(with Sound Barrier\)](#)



 [Highway Split Point](#)



 [Highway Merge Point](#)



 [Curved Road](#)



 [Straight road with road median strip with greenery](#)



Certification Updates

ClairWav-T24LC/T24L/T24SC/T24S/U24

[illegible][illegible][illegible][illegible][illegible][illegible]

CE-LVD
EN 61010-1:2010+A1:2019

EN 300 400 V2.2.1

EN IEC 62311:2020

CE-RED

EN 301 489-1 V2.2.3
EN 301 489-3 V2.3.2
EN 55032:2015+A11:2020+A1:2020
EN 55032:2017+A11:2020

IP67
IEC 60529:1989+A1:1999+A2:2013
EN 60529:1991+A1:2000+A2:2013
clause 12.6 & 14.2.7

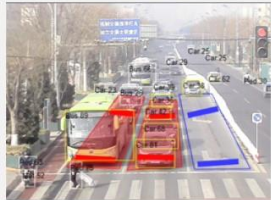
ClairEye Traffic AI Video Detector

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

[Check Detail Introduction](#)

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



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.

[Check Detail Introduction](#)



ClairEye Traffic AI Video Detector

ClairEye-i Revamped

Significant Enhancements Across Software and Hardware

[Check Details](#)



ClairEye-i Revamped
Significant Enhancements Across Software and Hardware

- Brand New Software
- Data Analysis Available
- POE Available
- Sunshield Available

The graphic features a large image of the ClairEye-i detector unit on the left. Below it are two smaller images: one showing the 'Brand New Software' interface with a traffic camera view and data overlays, and another showing a 'Data Analysis Report' with a line graph of traffic volume over time. The background is a vibrant, multi-colored gradient.

ClairEye-i AI Traffic Video Detector FAQ

[Check Details](#)



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.

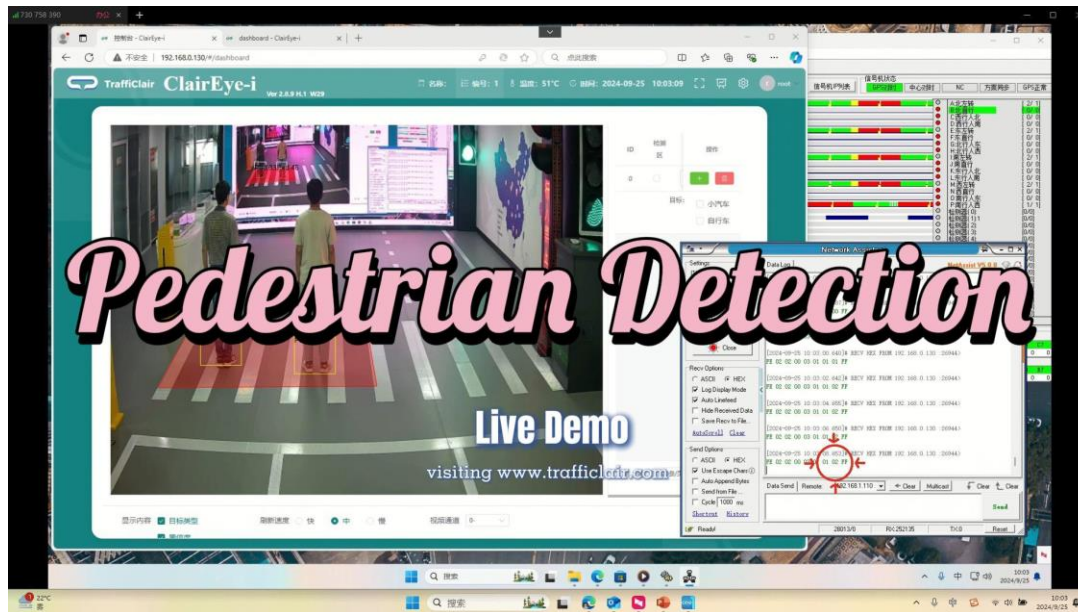


[Detail Report](#)

ClairEye Live Demo

ClairEye-I Pedestrian Detection

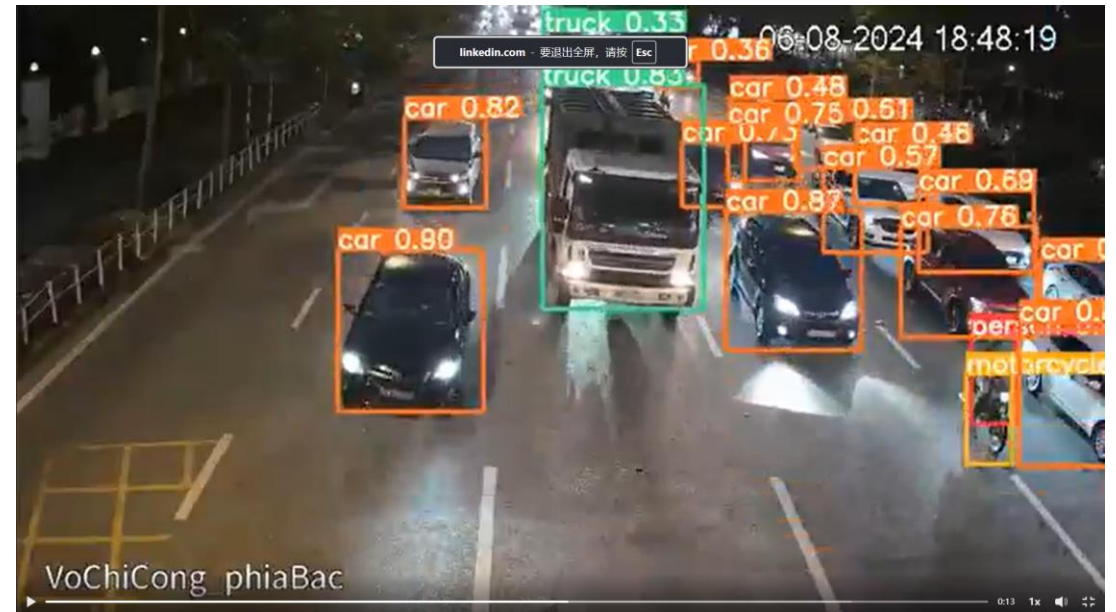
This live demo showcases the ClairEye-I AI video detector's capabilities in pedestrian detection. Our approach targets the detection zone at foot level, counting each instance when a pedestrian's feet enter this zone.



 [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](#)

Certification Updates

ClairEye-i



COMPLIANCE

SGS

VERIFICATION OF COMPLIANCE

Verification No.: KSEM240900242701ATC
 Applicant: TrafficClair Technology Co., Ltd.
 Address of Applicant: The 4th floor, Building No.4, Xiangshan South Road 105#, Shijingshan, Beijing
 Manufacturer: TrafficClair Technology Co., Ltd.
 Address of Manufacturer: The 4th floor, Building No.4, Xiangshan South Road 105#, Shijingshan, Beijing
 Product Description: AI Traffic Video Detector
 Model No.: ClairEye-i
 Test Standards: EN 55032: 2015+A11:2020+A1:2020
 EN 55035: 2017+A11:2020
 EN 61000-3-3: 2013+ A1:2019+A2:2021
 EN IEC 61000-3-2: 2019+A1:2021
 KSEM240900242701

Test Report Number(s):

This Verification of EMC Compliance has been granted to the applicant based on the results of the tests, performed by laboratory of Compliance Certification Services (Kunshan) Inc. on the sample of the above-mentioned product in accordance with the provisions of the relevant specific standards under Directive 2014/53/EU. The CE mark can be used, under the responsibility of the manufacturer, after completion of an EU Declaration of Conformity and compliance with all relevant EU Directives.

Terry Hou
 Terry Hou
 Technical Manager
 Compliance Certification Services (Kunshan) Inc.

Date: 2024-10-32

SGS

This document is issued by the Company subject to its General Conditions of Service accessible at <https://www.sgs.com.cn/terms-and-conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction clause defined therein.

Compliance Certification Services (Kunshan) Inc.
 No.10 Weiye Road, Development Zone, Kunshan, Jiangsu, China
china@sgs.com.cn
 Member of the SGS Group (SGS SA)

CCS-VOC-F01/Rev.2.0/2024-03-25
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SGS

Compliance Certification Services (Kunshan) Inc.
 CCSEM-TRF-001 Rev. 02 Sep 01, 2023 Report No.: KSEM240900242701 Page: 1 of 79

TEST REPORT

Application No.: KSEM2409002427AT
 Name of Testing Laboratory preparing the Report: Compliance Certification Services (Kunshan) Inc.
 Address of Testing Laboratory preparing the Report: No.10 Weiye Rd, Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China.
 Applicant: TrafficClair Technology Co., Ltd.
 Address of Applicant: The 4th floor, Building No.4, Xiangshan South Road 105#, Shijingshan, Beijing
 Manufacturer: TrafficClair Technology Co., Ltd.
 Address of Manufacturer: The 4th floor, Building No.4, Xiangshan South Road 105#, Shijingshan, Beijing
 Factory: TrafficClair Technology Co., Ltd.
 Address of Factory: The 4th floor, Building No.4, Xiangshan South Road 105#, Shijingshan, Beijing

Equipment Under Test (EUT):
 EUT Name: AI Traffic Video Detector
 Model No.: ClairEye-i
 Trade Mark: TrafficClair
 Standard(s): EN 55032: 2015+A11:2020+A1:2020
 EN 55035: 2017+A11:2020
 EN 61000-3-3: 2013+ A1:2019+A2:2021
 EN IEC 61000-3-2: 2019+A1:2021
 EN 55035: 2017+A11:2020
 2024-09-18
 2024-09-25 to 2024-10-04
 2024-10-12

Date of Receipt:
 Date of Test:
 Date of Issue:

Test Result: Pass*

* In the configuration tested, the EUT complied with the standards specified above.

CE
 EN 55032: 2015+A11:2020+A1:2020
 EN 55035: 2017+A11:2020
 EN 61000-3-3: 2013+A1:2019+A2:2021
 EN IEC 61000-3-2: 2019+A1:2021

COMPLIANCE

SGS

VERIFICATION OF COMPLIANCE

This Verification of Compliance is granted to below applicant for following designated equipment

Verification No.: KSEM240900242801ATC
 Applicant: TrafficClair Technology Co., Ltd.
 Address of Applicant: The 4th floor, Building No.4, Xiangshan South Road 105#, Shijingshan, Beijing
 Manufacturer: TrafficClair Technology Co., Ltd.
 Address of Manufacturer: The 4th floor, Building No.4, Xiangshan South Road 105#, Shijingshan, Beijing
 Product Description: AI Traffic Video Detector
 Model No.: ClairEye-i
 Test Report Number(s): KSEM240900242801

Based on tests conducted by Compliance Certification Services (Kunshan) Inc. on submitted samples of above mentioned product and found to comply with the technical requirements set out in ANSI C63.4 & 47 CFR PART 15B regulations for the evaluation of electromagnetic compatibility.

Please note:
 (1) Applicant and/or manufacturer shall fully fulfill FCC SDoC authorization procedure set out in 47 CFR §2.906, §2.909, §2.925, §2.1074, §2.1077.
 (2) Applicant and/or manufacturer shall comply additional requirements set out in §15.21, §15.105 and §15.19 to fully comply regulation 47 CFR Part 15.
 (3) This VoC is ONLY a conclusion of test result, ONLY serves as technical specifications compliance verification for aforementioned product from SGS Lab.
 (4) This verification is only valid for the equipment and configuration described, in conjunction with the test report detailed above.

Terry Hou
 Terry Hou
 Technical Manager
 Compliance Certification Services (Kunshan) Inc.

Date: 2024-10-12

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Compliance Certification Services (Kunshan) Inc.
 CCSEM-TRF-001 Rev. 02 Sep 01, 2023 Report No.: KSEM240900242801 Page: 1 of 35

TEST REPORT

Application No.: KSEM2409002428AT
 Name of Testing Laboratory preparing the Report: Compliance Certification Services (Kunshan) Inc.
 Address of Testing Laboratory preparing the Report: No.10 Weiye Rd, Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China.
 Applicant: TrafficClair Technology Co., Ltd.
 Address of Applicant: The 4th floor, Building No.4, Xiangshan South Road 105#, Shijingshan, Beijing
 Manufacturer: TrafficClair Technology Co., Ltd.
 Address of Manufacturer: The 4th floor, Building No.4, Xiangshan South Road 105#, Shijingshan, Beijing
 Factory: TrafficClair Technology Co., Ltd.
 Address of Factory: The 4th floor, Building No.4, Xiangshan South Road 105#, Shijingshan, Beijing

Equipment Under Test (EUT):
 EUT Name: AI Traffic Video Detector
 Model No.: ClairEye-i
 Trade Mark: TrafficClair
 Standard(s): 47 CFR Part 15, Subpart B
 Date of Receipt: 2024-09-18
 Date of Test: 2024-09-25 to 2024-10-04
 Date of Issue: 2024-10-12

Test Result: Pass*

* In the configuration tested, the EUT complied with the standards specified above.

FCC
 47 CFR Part 15, Subpart B

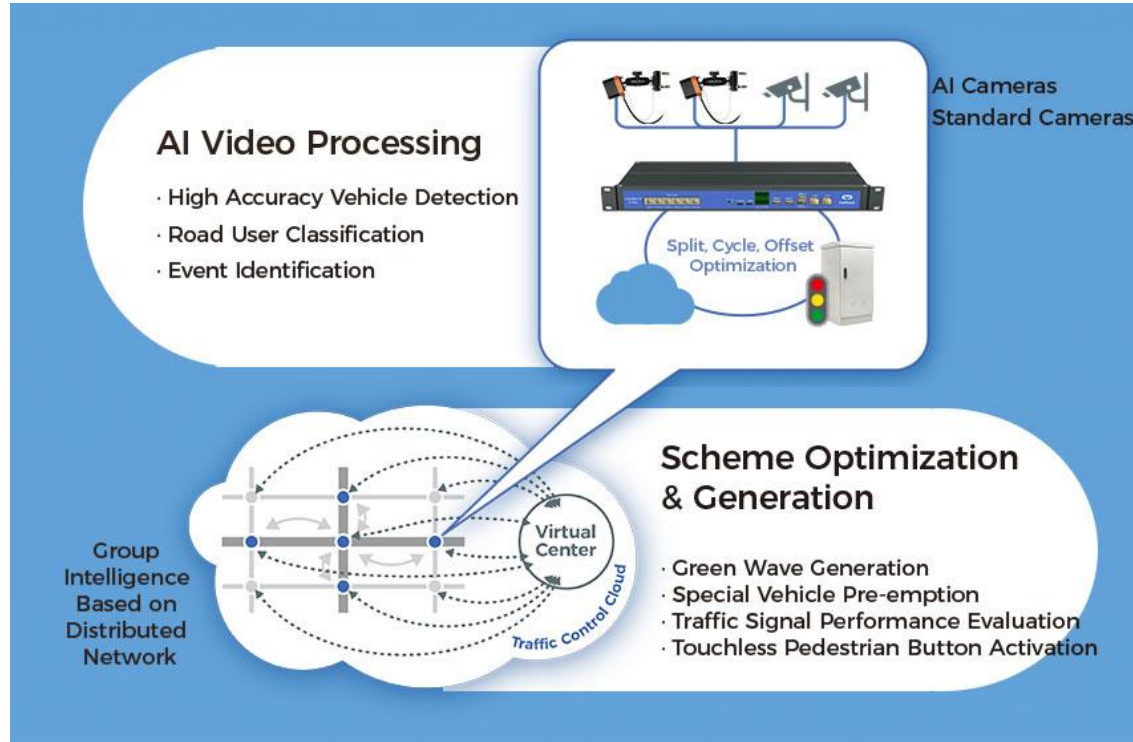
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ClairBox-R

Effortless Video Detection and Signal Control Optimization with Traffic AI Box

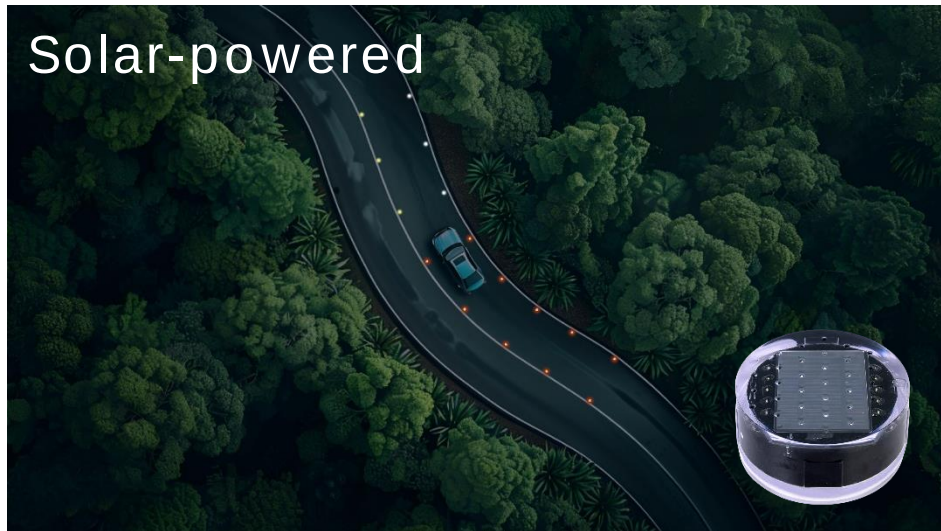


ClairBox-R AI Box represents the pinnacle of intelligent video recognition devices tailored for traffic applications. Powered by cutting-edge AI technology and boasting formidable video processing capabilities, AI Box excels in real-time capture and analysis of video content.

Beyond its prowess in video recognition, AI Box serves as a signal algorithm generation hub, streamlining signal optimization processes by providing split, cycle, offset optimization, and scheme generation based on real-time traffic data.

[Check Detailed Introduction](#)

ClairSRS Smart Road Studs



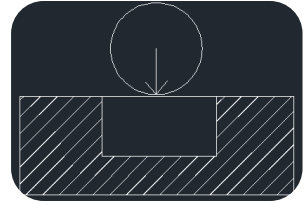
Solar-powered



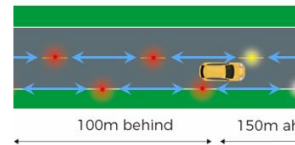
Geomagnetic
Sensing



Ultra-bright LED
Beads



Flush Ground
Installation



Chain
Communication



LED Control Mode



NFC Programming



Pressure Resistant
Housing

[ClairSRS Smart Road Stud Product Presentation](#)

ClairSRS Live Demo

 [Curve Warning](#)



 [Vehicle Following Effect](#)



 [Chain Network for Fast Response](#)



 [Emergency Parking Lane Alerts](#)



 [Smart Crosswalk System](#)



 [Dynamic Road Rights](#)



ClairGeo Geomagnetic Vehicle Detection System

A Perfect Substitute of Inductive Loop Detectors

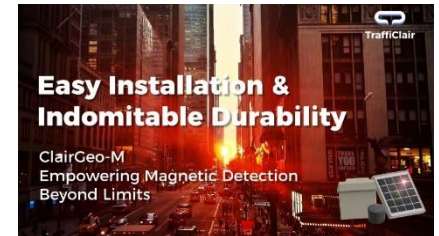
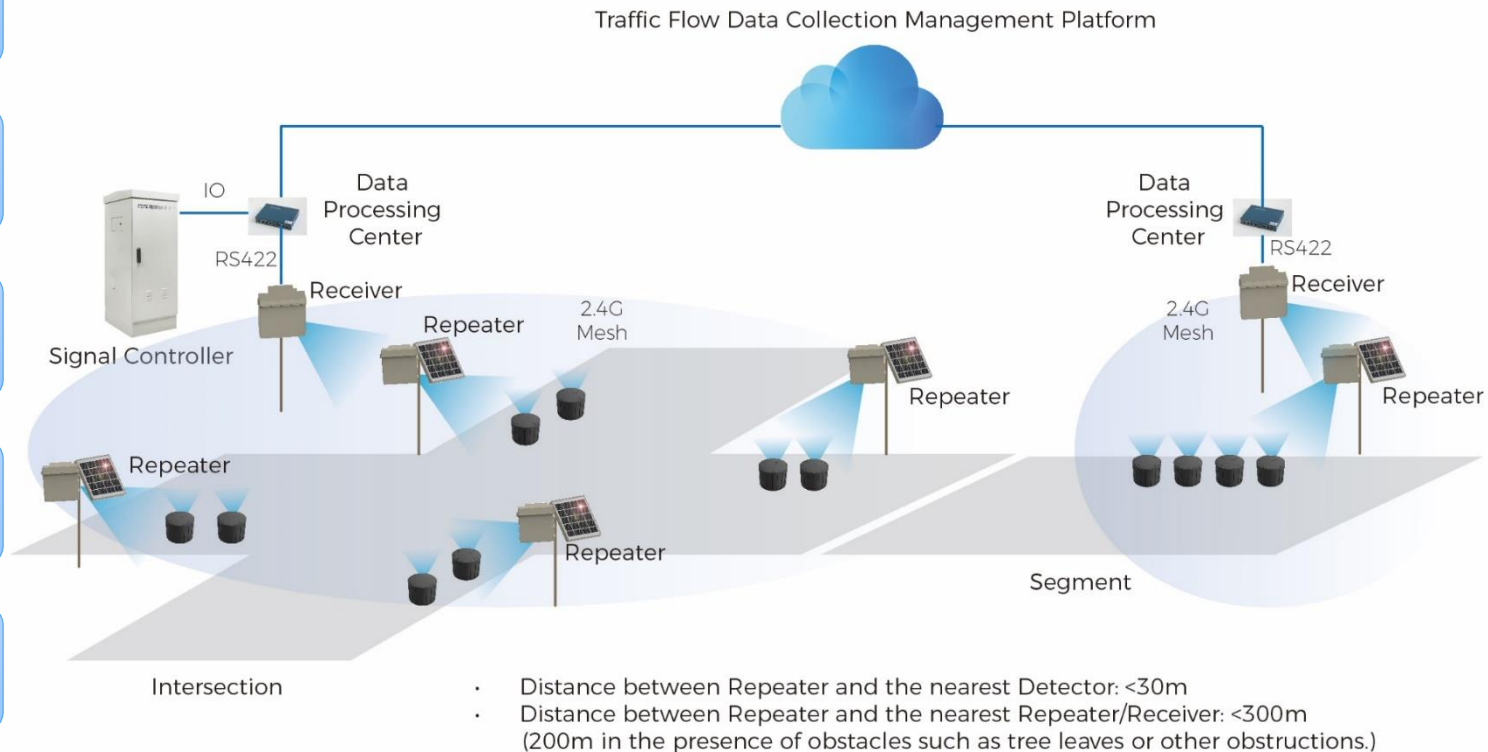
Perfect Match with SCATS/SCOOTs System

Robust Structural Design

Expected 10-year Lifespan

Anti-interference Capability

99% Data Accuracy



[ClairGeo-M Empowering Magnetic Detection Beyond Limits](#)



[ClairGeo Installation Tutorial - Installation of Geomagnetic Sensor](#)



[ClairGeo Installation Tutorial - Repeater, Receiver and Data Processing Center](#)

[ClairGeo Magnetic Sensor Product Presentation](#)

ClairGeo-MP Parking Sensors

Elevate Parking Efficiency with ClairGeo-MP Series

Elevate Parking Efficiency with ClairGeo-MP Series

- Product Introduction
- Parking Scenarios
- Case Studies



Discover unparalleled precision and efficiency with our ClairGeo-MP series wireless magnetic parking detectors. This innovative solution integrates three layers of insurance for precise detection, combining geomagnetic, radar, and photosensitive sensors. Whether you require LoRa, NB-IoT, or CAT.1 communication, our adaptable system ensures seamless integration tailored to your site's specific needs.

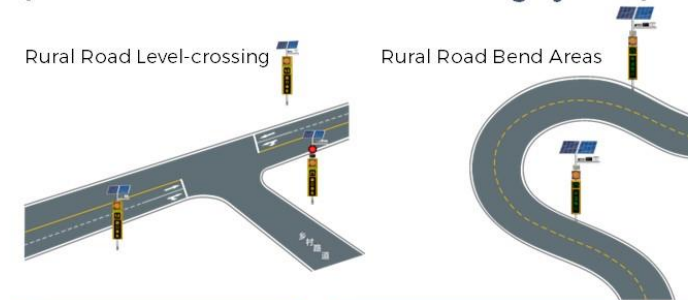
[ClairGeo-MP Parking Sensor Product Presentation](#)

ClairSaf RICWS (Rural Intersection Conflict Warning System)

Reduce the fatal and serious injury crashes at rural non-signalized intersections.

Reduce the Fatal and Serious Injury Crashes at Rural Non-signalized Intersections

ClairSaf RICWS
(Rural Intersection Conflict Warning System)



Safety Warning
Reduces accidents

4G/5G Wireless Communication
No need for fiber cables

Solar Power
No need for power cables

Customization Acceptable



ClairSaf Rural Intersection Conflict Warning System (RICWS) utilizes a forward multi-object radar detector to real-time monitor the traffic operation status of motor vehicles, agricultural vehicles, etc., on rural roads. It conducts traffic flow data analysis, and the perception processor issues instructions for audio and visual safety warnings, prompting rational control of vehicle speed to reduce the occurrence of accidents at rural level crossings and curved road intersections.

[Read More on LinkedIn](#)

ClairSaf-LS

Laser Signal Smart Crosswalk Warning System

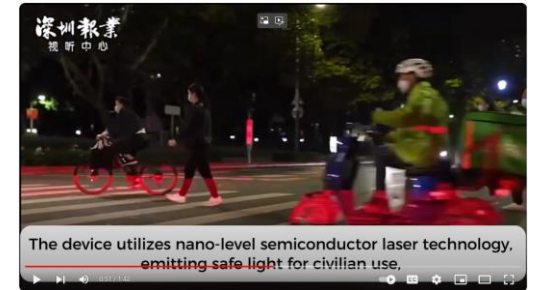


Designed to enhance nighttime pedestrian safety at crossings without traffic lights.

- Overview
- Key Features
- Application Scenarios

[Check LinkedIn introduction](#)

[Check product webpage](#)



[Pilot Project in Shenzhen](#)



[Laser Crosswalk System Live Demo](#)

ClairLup Inductive Loop Detectors

For Traffic Control and Car Parking Counting

Response time <10ms

Interference resistance

Anti-lock algorithms

Advanced detection algorithms

Fast fundamental frequency refresh

Adaptive to a wide inductive range

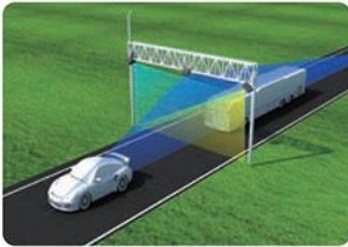
Real-time waveform display

Capture rate > 99.9%

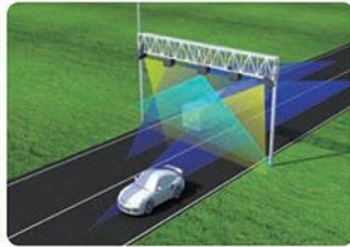


ClairLDR LiDAR Detector

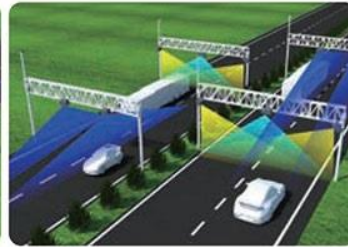
ClairLDR for vehicle contour and axle detection & height restriction



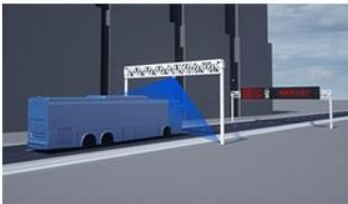
Single-Gantry Single-Lane
Length, Width, and Height
Detection



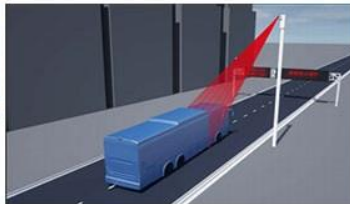
Single-Gantry Multi-Lane
Length, Width, and Height
Detection



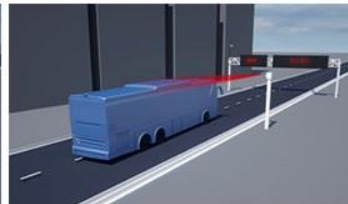
Double-Gantry Multi-Lane
Length, Width, and Height
Detection



Directly installed on
the gantry in front of
the height restriction point



Directly installed on
the pole beside the
height restriction point



Directly installed on
the pole beside the
height restriction point

TraffiClair is proud to announce the launch of its latest product line, ClairLDR, designed to revolutionize vehicle contour and axle detection applications. Leading this product line is the ClairLDR-L1, a cutting-edge single-line hybrid solid-state LiDAR, meticulously engineered to deliver exceptional scanning speed, resolution, and reliability.

The ClairLDR-L1 is crafted to meet the rigorous demands of large-scale operations, offering unparalleled performance in 2D modeling detection and obstacle avoidance in industrial environments. With its precise distance and reflectivity measurements, the ClairLDR-L1 can detect objects up to 150 meters away (@10% reflectivity), making it an indispensable tool for a variety of applications.

[Check Product Webpage](#) | [Check Live Demo Video](#)
[Solution Brochure of LiDAR Vehicle Contour Detection System](#)
[Solution Brochure of LiDAR Height Restriction System](#)

Join the journey towards the future of mobility.

Follow us on LinkedIn and YouTube as we unfold the next exciting chapter in traffic innovation!



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[202401](#), [202402](#), [202403](#), [202404](#), [202405](#), [202406](#)
[202407](#), [202408](#), [202409](#), [202410](#), [202411](#)



Thanks

www.trafficclair.com

