



TraffiClair Monthly Updates

2024.05

Kevin Gu

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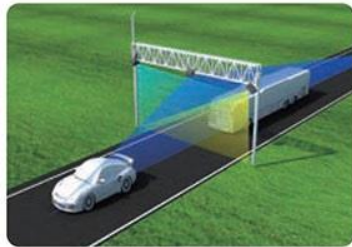
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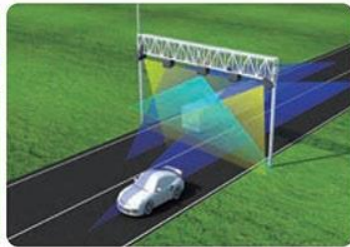
- Elevate Parking Efficiency with ClairGeo-MP Series

New Product Release

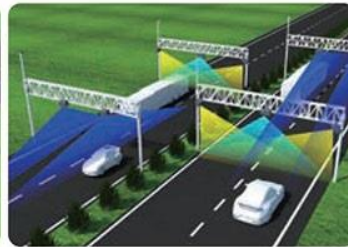
TraffiClair launches the LiDAR product line ClairLDR for vehicle contour and axle detection & height restriction



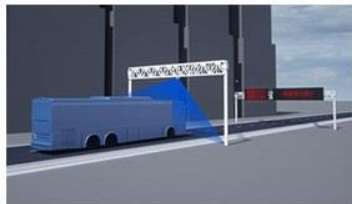
Single-Gantry Single-Lane
Length, Width, and Height
Detection



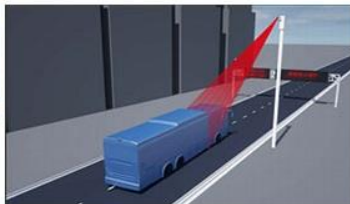
Single-Gantry Multi-Lane
Length, Width, and Height
Detection



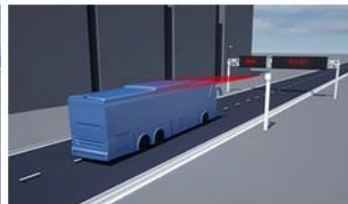
Double-Gantry Multi-Lane
Length, Width, and Height
Detection



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](#)

Product Benchmark

Comparative Analysis of Mechanical and Hybrid Solid-State Lidar Systems

	Mechanical Lidar	Hybrid Solid-State Lidar
Advantages	Offers a broad scanning range and high measurement accuracy, suitable for applications requiring extensive coverage. Capable of generating detailed 3D environmental maps, which are beneficial for precise vehicle height detection.	Combines the benefits of mechanical and solid-state technologies to offer a balance between scanning range, accuracy, and reliability . Generally more compact and lighter than purely mechanical systems, facilitating easier installation in various locations, including within vehicles.
Disadvantages	Typically larger and heavier , necessitating more complex installation and mounting solutions. The inclusion of mechanical components can lead to reliability issues over time, particularly in environments with significant vibration .	While hybrid systems aim to mitigate the drawbacks of purely mechanical systems, they may still retain some limitations related to size, weight, and complexity compared to fully solid-state systems.

Advantages of Hybrid Solid-State Lidar
in High-Speed Vehicle Dimension Measurements and Height Restriction Applications:

1. Enhanced Reliability

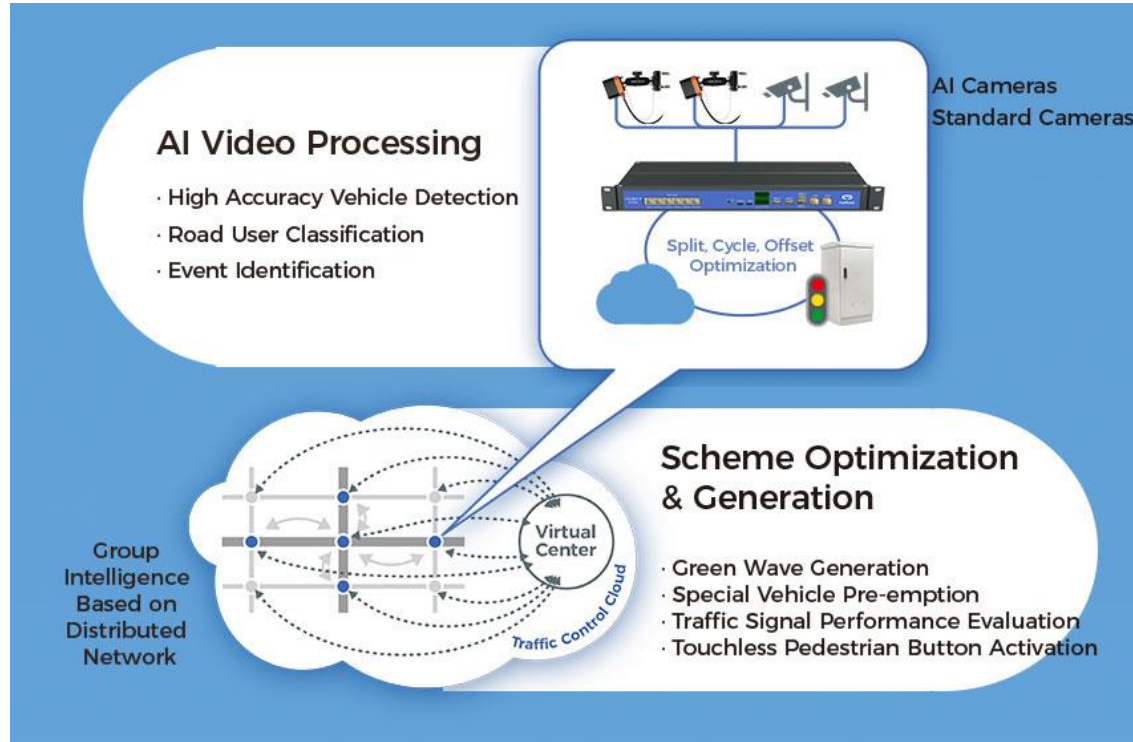
2. Installation Convenience

3. Fast Response

[Check Detail Introduction](#)

New Product Release

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](#)

New Product Release

Elevate Tunnel Safety with Cutting-Edge Tunnel-Dedicated Radar



Why Choose Tunnel-Dedicated Radar?

1. Superior Resolution: Advanced MIMO technology delivers high-resolution imaging, enabling precise detection and tracking of objects within the tunnel.
2. Enhanced Signal Coverage: With multiple antennas, these radars combat signal loss and multipath interference, ensuring reliable performance.
3. Simultaneous Multi-Target Tracking: Monitor traffic flow and vehicle movement with the ability to track up to 128 targets at once.
4. Adaptive Beamforming: Focus radar energy where it's needed most, boosting detection accuracy and minimizing interference.
5. Extensive Coverage: A wide field of view guarantees comprehensive surveillance, covering the entire tunnel space.

[**Check Detailed Information**](#)

New Product Release

ClairWav-P60 Pedestrian Radar

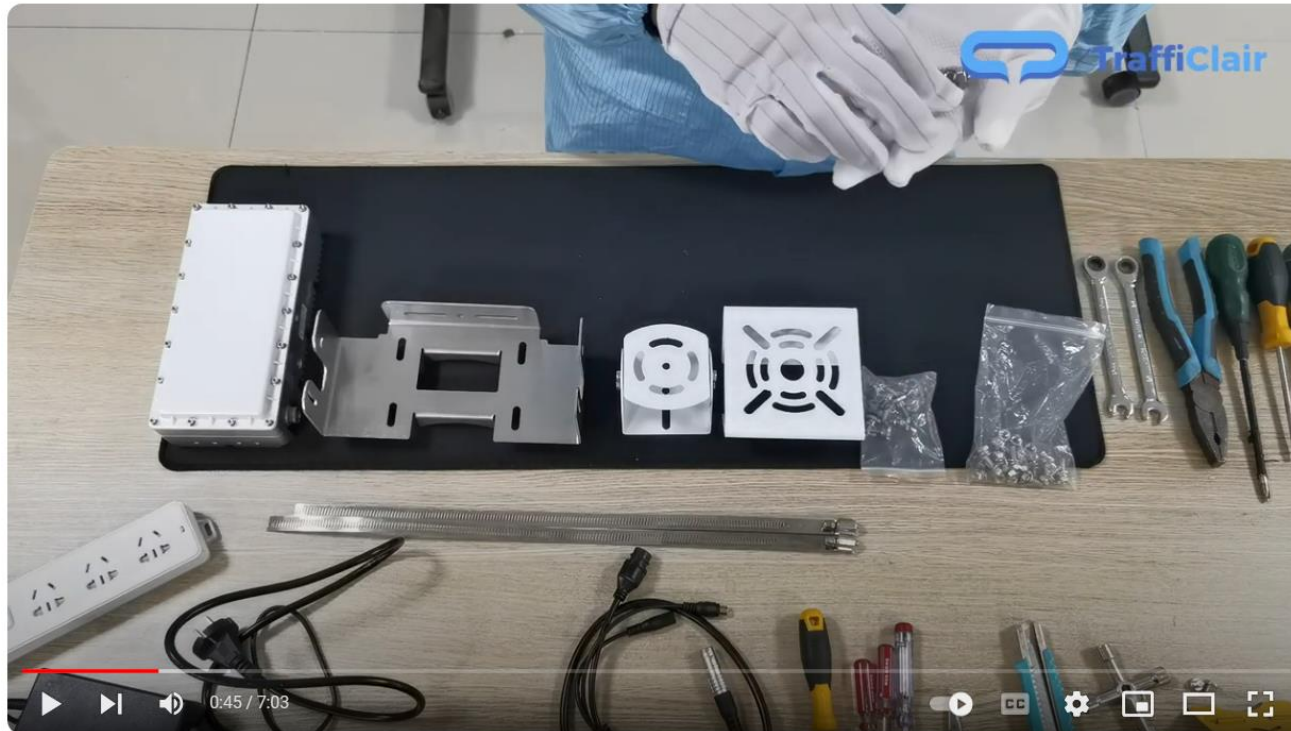


The ClairWav-P60 pedestrian radar is a cost-effective traffic control device detecting pedestrian movement, tracking trajectories, and identifying stationary positions. It offers high accuracy, stable operation, easy installation, and maintenance, suitable for urban intersections and indoor tracking.

[Check Detail Introduction](#)
[Check Video Live Demo](#)

Product Live Demo

ClairWav Microwave Radar Hardware Installation Tutorial



This video is applicable for:

- ClairWav-T24
- ClairWav-T80
- ClairWav-U24

[View Full Video on Youtube](#)

Product Presentation

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.

[Check Detailed Presentation](#)

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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Thanks

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