



TraffiClair Monthly Updates

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TraffiClair Team

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Redefining Traffic Detection with DeepEye Vision & Radar Fusion

DEEPEYE VISION. FUSED WITH RADAR.

- **All-Weather Reliable:** Operates flawlessly in any condition, built for a decade.
- **Wide-Coverage Monitoring:** Tracks ≥ 12 lanes simultaneously, up to 350m away.
- **Real-Time Traffic Intelligence:** Scans 20x per second with 90%+ accuracy on flow, speed, and queue.
- **Radar-Video Fusion:** 8MP crisp resolution meets precision radar tracking.

At TraffiClair, we're taking traffic monitoring to the next level with our latest **Microwave Radar**, seamlessly fused with high-definition imaging. Here's why it stands out:

- ♦ **All-Weather Reliability** – Operates flawlessly in any weather or lighting, with a **10-year lifespan**.
- ♦ **Wide-Range Monitoring** – Simultaneously tracks ≥ 12 lanes up to 350m+ with real-time accuracy.
- ♦ **High-Precision Data** – Scans traffic 10-20x/sec, delivering >90% accurate insights on volume, queue length, speed, and vehicle classification.
- ♦ **Camera-Integrated Radar** – Combines 8MP ultra-clear video (3820x2160) with advanced radar-vision fusion for superior vehicle tracking and license plate recognition.

 Experience the future of intelligent traffic management with ClairWav.

 Learn more: <https://bit.ly/46qAw74>

[Product Webpage](#)

Clairwav Radars Now Support 9 Critical Detection Events!



- 01: Abnormal Parking – Detect vehicles stopped in undesignated areas.
- 🚗 02: Congestion and Slow Traffic – Real-time alerts for slowdowns and standstills.
- ➡ 03: Wrong-Way Driving – Immediate detection of vehicles against traffic flow.
- ↔ 04: Illegal Lane Change – Monitor for unsafe or forbidden lane discipline.
- 🚧 05: Queue Exceeds Limit – Get notified when backups reach critical points.
- ⚠️ 06: Overflow – Detect spillover at intersections or facility exits.
- ⚡ 07: Speeding – Accurate speed enforcement and monitoring.
- 🚒 08: Occupying Emergency Lane – Keep bus lanes, bike lanes, and shoulders clear.
- 🚫 09: Unauthorized Entry – Secure restricted zones against intrusion.

[Detailed News](#)

[Product Webpage](#)

[Communication Protocol](#)

Case Study: Nansha Bridge



Results:

After the system went online, the bridge's operational efficiency improved significantly:

- Maximum traffic capacity increased by 16.8%
- Peak travel time reduced from over 30 minutes to around 10 minutes
- More efficient traffic management during holiday travel peaks

Solution:

TraffiClair's camera-integrated radars combines millimeter-wave radar and high-definition video to deliver reliable, all-weather traffic perception. The system enables:

- Real-time monitoring of traffic flow, congestion, incidents, and roadworks
- Multi-lane traffic detection and analysis
- Accurate traffic state recognition to support dynamic traffic management

[Detailed News](#) [Product Webpage](#)

Illuminating the path to zero accidents: Introducing the ClairSaf-LumaLane



**Projecting Safety,
Protecting Lives.**

When traditional paint fades into the darkness or gets lost in headlight glare, the LumaLane steps in. Engineered for extreme conditions and seamless integration, this isn't just a light; it's a comprehensive safety system.

Why the LumaLane changes the game:

- 💡 **Unmatched Visibility:** Whether it's our standard model delivering 14,500 LM or our high-power version blasting up to 38,000 LM, your crosswalk will be seen from every angle.
- ⚙️ **Built to Last:** With an IP65 rating, aviation-grade aluminum-magnesium alloy construction, and operational capacity from -60°C to +50°C, it thrives where other equipment fails.
- 🔧 **Smart & Adaptable:** Featuring a 12-28° zoom, full-range movement (360° horizontal, 270° vertical), and adjustable color temperatures (3200K-6500K), it offers precision for any urban landscape, school zone, or industrial warehouse.
- 🔗 **Traffic System Integration:** Designed to sync with existing traffic control systems via standard interfaces, with customizable pattern playback.

[Detailed News](#) [Product Webpage](#)

Unmatched Speed: How ClairLup's Sub-10ms Response Time is Redefining Vehicle Detection

TraffiClair	Response Time	Others
ClairLup-V1	10ms	Ranges from 24ms to 100ms.
ClairLup-V2	10ms	
ClairLup-V4	8ms	
ClairLup-V6	10ms	
ClairLup-V8	5ms	
ClairLup-V4F	3ms	
ClairLup-V8F	3ms	

- In the world of high-speed traffic management, every millisecond counts. TraffiClair has set a new industry benchmark with its ClairLup series loop detectors, achieving a record-breaking response time of under 10 milliseconds—shattering the conventional market standard of 24ms to 100ms.
- But what does this speed actually mean for performance? The advantage lies in precision. With standard detectors, a typical 100ms reaction time creates a critical blind spot: a 4-meter-long vehicle traveling at 144 km/h can slip through undetected. ClairLup's sub-10ms response eliminates this risk entirely. By operating on a rapid 5ms detection cycle, it guarantees accurate vehicle separation and identification, even at speeds exceeding 120 km/h.
- This leap in performance is not just about speed—it's about reliability. Powered by TraffiClair's proprietary algorithm optimization and an advanced hardware architecture, the ClairLup series ensures that vehicles are detected the moment they enter the loop range. For applications like free-flow tolling and expressway monitoring, where high-speed traffic is the norm, this ultra-fast response time ensures no vehicle goes unnoticed, setting a new standard for accuracy and trust in traffic detection technology.

[Product Webpage](#)

New Products at a Glance



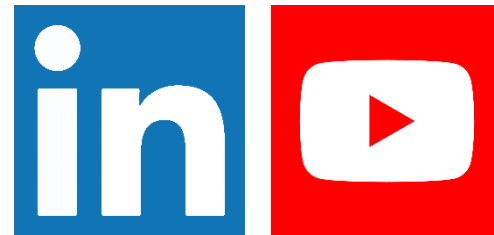
Integrated RICWS (Rural Intersection Conflict Warning System)

- Light Warning
- Voice Warning
- Text Warning
- Sensing Devices
- Incident Detection
- Real-time Speed Measurement
- Brightness Control
- Collision Warning
- Door Opening Warning
- Synchronized Operation



Join the journey towards the future of mobility.

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



[202511](#), [202512 Yearly Highlights](#), [202601](#), [all previous issues...](#)



Thanks

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