



# TraffiClair Monthly Updates

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TraffiClair Team

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New

# ClairSaf-VillagePeace

Integrated RICWS (Rural Intersection Conflict Warning System)



The **ClairSaf-VillagePeace** is a comprehensive, solar-ready **Rural Intersection Conflict Warning System (RICWS)** designed to significantly enhance traffic safety at rural crossroads and high-risk zones. This all-in-one solution integrates high-visibility warning displays, powerful alerts, and advanced environmental sensing to proactively manage traffic and protect all road users.

[Product Webpage](#)

[Product Datasheet](#)

[Product Presentation](#)

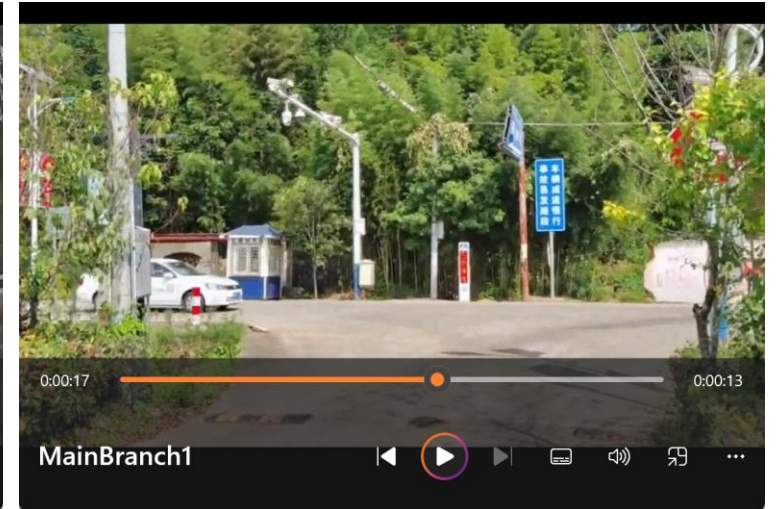
Notes: [ClairSaf-VillagePeace Integrated RICWS](#) will fully replace [ClairSaf-MP](#).

# Key Features



|                                  | Key Features                                                                                                                  |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| <b>Light Warning</b>             | Flashing warning light with strobe effect for more prominent alert                                                            |
| <b>Voice Warning</b>             | High-penetration horn voice alert (customizable content), supports different languages                                        |
| <b>Text Warning</b>              | High-brightness LED display alert (multi-screen scrolling text, customizable)                                                 |
| <b>Sensing Devices</b>           | Radar, radar-vision fusion, video, geomagnetic, and other detectors                                                           |
| <b>Incident Detection</b>        | Capable of collecting pedestrian and vehicle data, providing real-time monitoring at intersections                            |
| <b>Real-Time Speed Detection</b> | Detects the speed of approaching vehicles and displays it on the LED screen in real time                                      |
| <b>Brightness Control</b>        | Automatically adjusts LED display brightness based on ambient light using a light sensor                                      |
| <b>Collision Warning</b>         | When the device is knocked over due to collision, the laser module automatically shuts off output and triggers an alert voice |
| <b>Door Opening Alert</b>        | If an unauthorized person opens the maintenance door without authorization, the device plays an alert voice                   |
| <b>Coordinated Operation</b>     | Supports coordination between any two or more devices for use in various complex road scenarios                               |

# Application Videos



Curve meeting

Main road and  
branch road

Mid-block  
crossing

Right-turn  
crosswalk

Right-turning  
large truck

Diverging and  
merging

Long slope and  
steep slope

Height  
restriction

Waterlogging  
warning



[Youtube Video](#)

# Case Study 1:

## Main Road and Branch Road



### **Schematic Diagram of Early Warning Sentinel Deployment at an Intersection on National Highway G320**

This is a typical urban-rural intersection on G320 in Beita District, Shaoyang City. Buildings block sightlines between the main road and the side road, which leads to a residential area and a school. Heavy traffic and the lack of advance warning have caused annual head-on collisions. To address this, a smart sentinel system is deployed in three directions, each about 10 meters from the intersection, enabling real-time interaction and warning.

# Case Study 2:

## Curve Meeting



### Schematic Diagram of Meeting Warning System Deployment on the Qingjingchong Curve of S219 Provincial Highway

- **Location:** Qingjingchong Curve, S219 Provincial Highway, Wugang City
- **Road type:** Typical provincial highway mountain curve meeting section
- **Surroundings:** Several village residential houses on both sides of the curve
- **Infrastructure:** No streetlights along the road
- **Hazard cause:** Trees and buildings block drivers' sightlines when villagers' vehicles enter or exit the curve
- **Risk:** High probability of traffic accidents

# ClairSaf-LS

## Laser Signal Smart Crosswalk Warning System



*Standard crosswalk signs say "slow down." Our lasers make sure you actually do—because you see red on a person, not just a blinking light on a pole.*

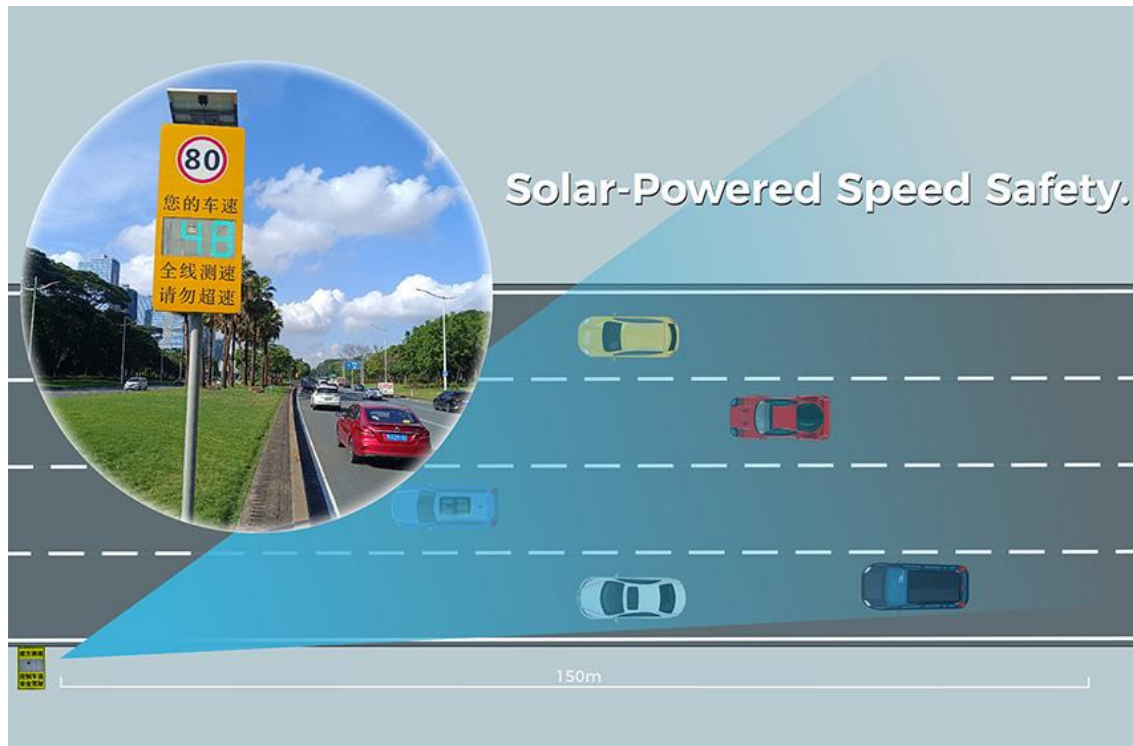
- 1. Uniquely Proactive Laser Technology (Not Just Lights):** Projects 28 red laser lines directly onto pedestrians' shins, creating a moving red area projection—not just a flashing light on a pole.
- 2. Extends Driver Detection Distance by >100 Meters:** Increases the distance at which drivers can detect pedestrians by over 100 meters compared to standard crosswalks.
- 3. Penetrates Harsh Weather & Low Visibility:** Laser lines remain highly visible in rain, snow, fog, haze, and oncoming headlight glare—conditions that render traditional reflective signs or LED beacons ineffective.
- 4. Dual-Mode Alert:** For drivers, red laser projection at shin height triggers early braking response. For pedestrians, the sudden red light at ground level catches the peripheral vision of phone-distracted walkers, jolting them to check traffic before stepping off the curb.
- 5. Perfect for Unsignalized & Yellow-Flash Intersections:** Designed specifically for no-traffic-light crosswalks or nighttime yellow-flashing mode.
- 6. Targeted for High-Risk Scenarios (No Generic Solution)**
- 7. Activates Only When Needed (Smart Triggering):** Lasers project only when a pedestrian is about to enter the crosswalk—not continuously.

[Product Webpage](#)   [Product Datasheet](#)

 [Demo Video](#)

# ClairSaf-Speed

## Solar-Powered Radar Speed Sign!



The ClairSaf-Speed combines 5-day off-grid endurance, -30°C to 70°C operation, and 300m visibility with optional vehicle classification—giving you a rugged, low-maintenance speed sign that works anywhere, in any weather, while collecting actionable traffic data.

- 1. True Off-Grid & Ultra-Long Autonomy:** Operates for 120 hours (5 days) continuously in rainy/overcast conditions.
- 2. Extreme Weather & Temperature Resilience:** Operating temperature range of -30°C to +70°C.
- 3. High-Visibility Long-Range Warning:** LED visible distance of  $\geq 300$  meters with 8,500-10,500 mcd (green) brightness.
- 4. Advanced Detection Capabilities (Customizable):** Speed detection from 4 to 400 KM/H (covering bicycles to high-speed vehicles) with longitudinal coverage up to 150 meters.
- 5. Low Maintenance & Durable Construction:** Lead-acid battery (with lithium option) + rugged 90mm depth casing.
- 6. Fully Customizable for Local Needs:** Tailored speed limits, display colors, messages, languages, and even physical size (88 or 188 models).

[Product Webpage](#) [Product Datasheet](#)

 [Demo Video](#)

# ClairSaf-CatEye

## Solar-powered Synchronized Warning Light for the Highway Barrier



Keep roads safer with ClairSaf-CatEye Solar Synchronized Warning Lights—a cutting-edge, solar-powered flashing beacon designed to enhance visibility and prevent accidents in high-risk zones.

- ◆ **Solar-Powered & Wireless:** No external power needed—harnessing the sun’s energy for sustainable operation.
- ◆ **High-Impact Visibility:** Ultra-bright LEDs + reflective tape ensure 24/7 warning, even in heavy rain or fog.
- ◆ **Smart Synchronization:** Wireless 2.4G communication enables perfectly timed flashing (60x/min) across multiple units.
- ◆ **Built to Last:** Industrial-grade components, UV-resistant PC housing, and a staggering 280,000-hour LED lifespan.
- ◆ **Where It’s Needed Most:** Ideal for sharp curves, steep slopes, intersections, and low-visibility areas—visible from 300+ meters away!
- ⚡ **Safety never sleeps.** Equip your roads with CatEye and drive change, one flash at a time.

[Product Webpage](#)

[Product Datasheet](#)



[Demo Video](#)

# ClairSaf-VEX

## Integrated Traffic Light



ClairSaf-VEX redefines the traditional pedestrian signal by seamlessly integrating modular features—such as dynamic countdown displays, red-light violation capture, audio guidance for the visually impaired, multimedia screens, and smart crosswalk controls—into a single, aesthetically advanced unit. This innovative system not only enhances traffic safety and efficiency but also contributes to urban beautification through its modern design and multifunctional capabilities.

- Audio Guidance System for the Visually Impaired
- 24-inch Wide-Temperature Multimedia Display
- Red-Light Violation Capture (8-megapixel camera)
- Pedestrian Waiting Zone Detection Unit (camera-based)
- Smart Crosswalk Controller
- Vehicle Signal Countdown Light Strip
- Dual-Color LED Display
- Single-Post Pedestrian Crossing Violation Audio Alert
- Pedestrian Crossing Request Button (Optional)

[Product Webpage](#) [Product Datasheet](#)

 [Demo Video](#)

# ClairSaf-Beacon

## APS Audible Beacon



ClairSaf-Beacon is an advanced audible beacon system designed to guide pedestrians with visual impairments safely across complex intersections. It provides clear, directional auditory cues to help users navigate wide or irregular crosswalks with confidence.

### Key Features

- Synchronized Signal Integration: Directly connects to pedestrian traffic lights for both power and seamless signal synchronization.
- Durable Outdoor Construction: Built with cold-rolled iron and a protective coating, designed for long-term reliability in wet, dusty, or high-temperature environments.
- Remote Configuration & Testing: Manage and adjust device settings via a dedicated mobile app over Bluetooth, eliminating the need for on-site pole access.
- Adaptive Audible Guidance: Customize beacon volume and duration in real time to suit varying traffic conditions, ambient noise levels, and local regulations.
- Weather-Resistant Design: Rated IP54 for effective protection against dust and water splashes, ensuring consistent performance in all outdoor conditions.
- Universal Compatibility: Works with all standard traffic light systems and signal controllers.

[Product Webpage](#) [Product Datasheet](#)

 [Demo Video](#)

# ClairSaf-Post

## Pedestrian Signal Guidance Post with Voice Alert



[Webpage](#) [Datasheet](#)

 [Demo Video](#)

1. **Smart, Context-Aware Warnings (No Nuisance Alerts):** Voice warnings are triggered only when a pedestrian attempts to cross on a red signal—not for every person waiting or crossing legally.
2. **Industrial-Grade Laser Detection with App Control:** Custom laser sensor with  $\leq 200\text{ms}$  response time and adjustable detection range up to 20 meters via mobile app.
3. **Perfect Signal Synchronization (No Guesswork):** Industrial-grade pedestrian signal detection circuit ensures the post's warnings are perfectly synced with the actual traffic light status.
4. **Multi-Channel Human-Machine Interaction (HMI):** Pedestrians receive three simultaneous, redundant warnings.
5. **Ultra-Simple Installation (No Electrician Required):** Low-voltage operation; powers directly from the pedestrian signal light's wires—no 220V main supply needed.
6. **Full Wireless Configuration & Remote Management:** All settings—volume, operating schedule, voice messages, sensor range—are adjusted via a dedicated mobile app without opening the unit.
7. **Built-In Expansion for Smart Intersections:** Control board includes interfaces to drive LED pavement lights or embedded blocks without extra controllers or power supplies.
8. **Durable, Aesthetic & Climate-Protected:** Aluminum alloy/sheet metal + concealed base flange + active fan cooling/humidity control.

# ClairSaf-LumaLane

Illuminating the path to zero accidents



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:

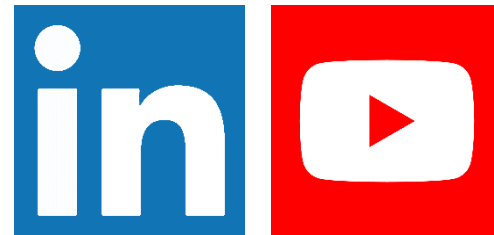
- 💡 **Unmatched Visibility:** Whether it's our standard model delivering 14,500 LM or our high-power version blasting up to 38,000 LM, your crosswalk will be seen from every angle.
- ⚙️ **Built to Last:** With an IP65 rating, aviation-grade aluminum-magnesium alloy construction, and operational capacity 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.

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

 [Demo Video](#)

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# Thanks

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