



TrafficClair Monthly Updates

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China's 92-94GHz Radar Regulation: A Game-Changer for Smart Mobility (2026)



Big News:

China's MIIT has officially allocated the 92-94GHz frequency band for roadside traffic radar, effective January 2026 (*Radar Radio Management Regulation, Trial*). This is a major step for smart infrastructure, autonomous driving (AV), and V2X tech—here's why it matters:

Key Impacts:

- ✓ **Smart Roads Get Smarter** – High-resolution 92-94GHz radar enables better traffic monitoring, speed detection, and vehicle classification, boosting efficiency and safety.
- ✓ **AVs Gain a Critical Edge** – Roadside radar fills perception gaps for self-driving cars, especially in bad weather. Expect faster V2X (vehicle-to-infrastructure) adoption.
- ✓ **Tech & Chip Makers Race to Adapt** – Domestic leaders (Huawei HiSilicon, UNISOC) are advancing E-band mmWave chips, while legacy 24/77GHz players must innovate.

[Detail Story](#)

ClairWav-T94: A Radar More Suitable For Building Roadside Ecosystems



Leveraging millimeter-wave phased array technology, TraffiClair's 94GHz millimeter-wave traffic radar fully exploits its high-frequency characteristics to deliver a new generation of high-performance, highly reliable roadside traffic radar products. It supports intelligent upgrades for transportation scenarios such as highways, urban roads, and vehicle-road-cloud integration, providing intelligent roadside infrastructure for the development of modern smart cities.

New product to be released. Let us know if you have interests.

	ClairWav-T94
Operating Frequency	92-94GHz
Application Scenarios	Highways, Urban Roads, and Vehicle-road-cloud Integration
Maximum Detection Range	350m-700m
Video Camera	8 Megapixels
Number of Lanes	8-12
Cross Section Count	64
Simultaneously Detected Objects	256-512
Detection Speed Range	±250km/h
Vehicle Flow Detection Accuracy	95%
Average Vehicle Speed Detection Accuracy	95%
Dimension	210*154*31.3mm
IP Class	IP67

AirLink Enables Wireless Radar & Video Detection at Intersections



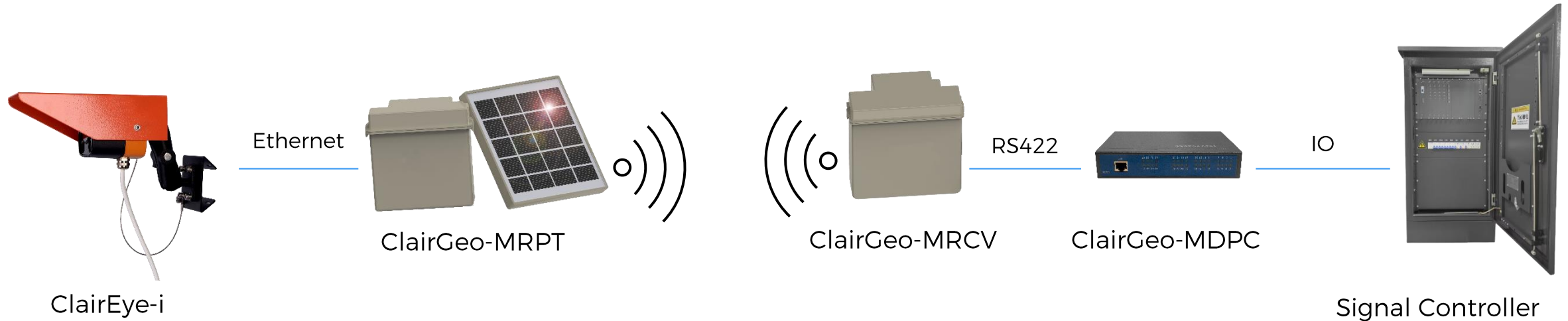
The AirLink accessory efficiently extracts power directly from traffic lights, eliminating the need for external power sources. It enables seamless wireless communication between ClairEye-i video detectors within an intersection, allowing the master device to aggregate all data and transmit it to the signal controller.

Beyond video detectors, AirLink is fully compatible with ClairWav-T24 microwave radar detectors, providing a reliable wireless solution for radar sensors as well. This eliminates the need for complex cabling in signal systems, reducing installation time and costs while maintaining robust performance.

With AirLink, intersections become smarter, cleaner, and easier to deploy—wirelessly.

[**Product Webpage**](#)

Solar Power Supply & Wireless Communication Solution for ClairEye



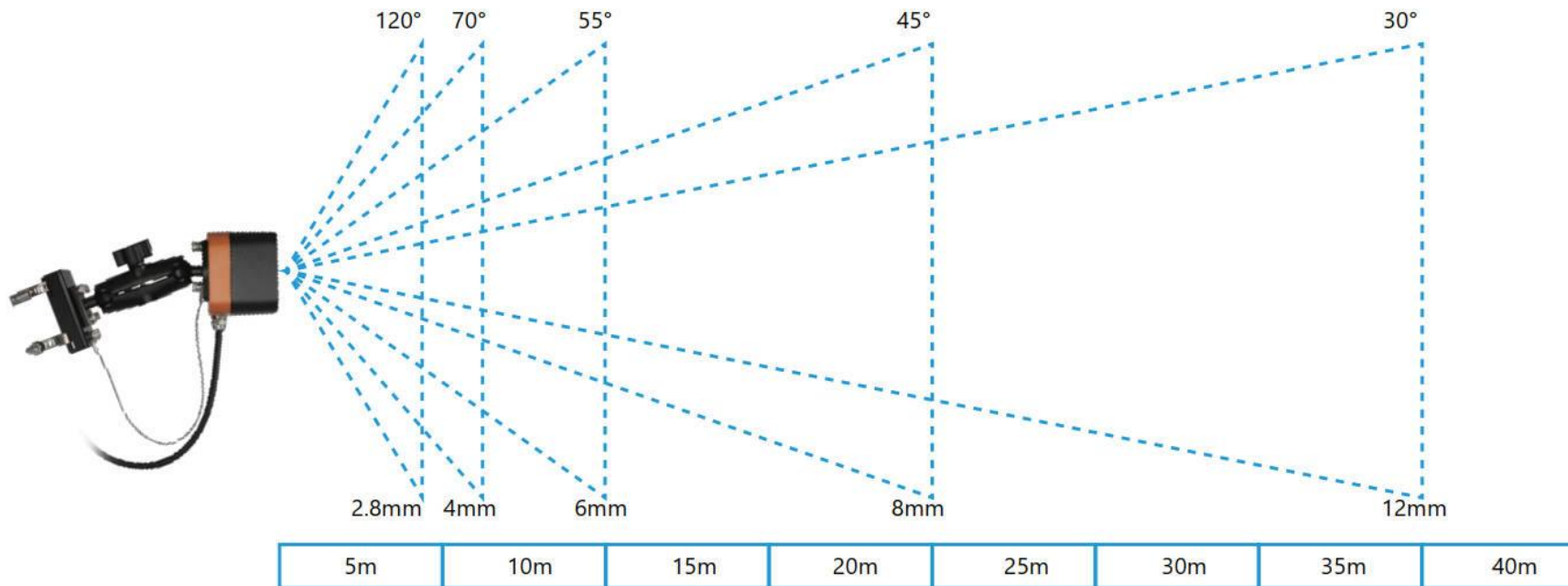
Survey:

We had customer demanding a solar power supply and wireless communication solution for ClairEye-I video camera detector in order to install the ClairEye-I in locations without conditions for power supply and wired communication. After our discussion with engineers, it is possible to develop a combined solution to integrate ClairGeo-M geomagnetic sensors solar power supply and wireless communication solutions together with ClairEye-i. A slight modifications and further development will be needed for this purpose. Let us know if you have similar requests and interests. It will help us make the decision to move on.

Related Products: [ClairEye-I](#), [ClairGeo-M](#)

Claireye-i AI Video Detector Supports Multiple Lens Focal Lengths

LENS Selection



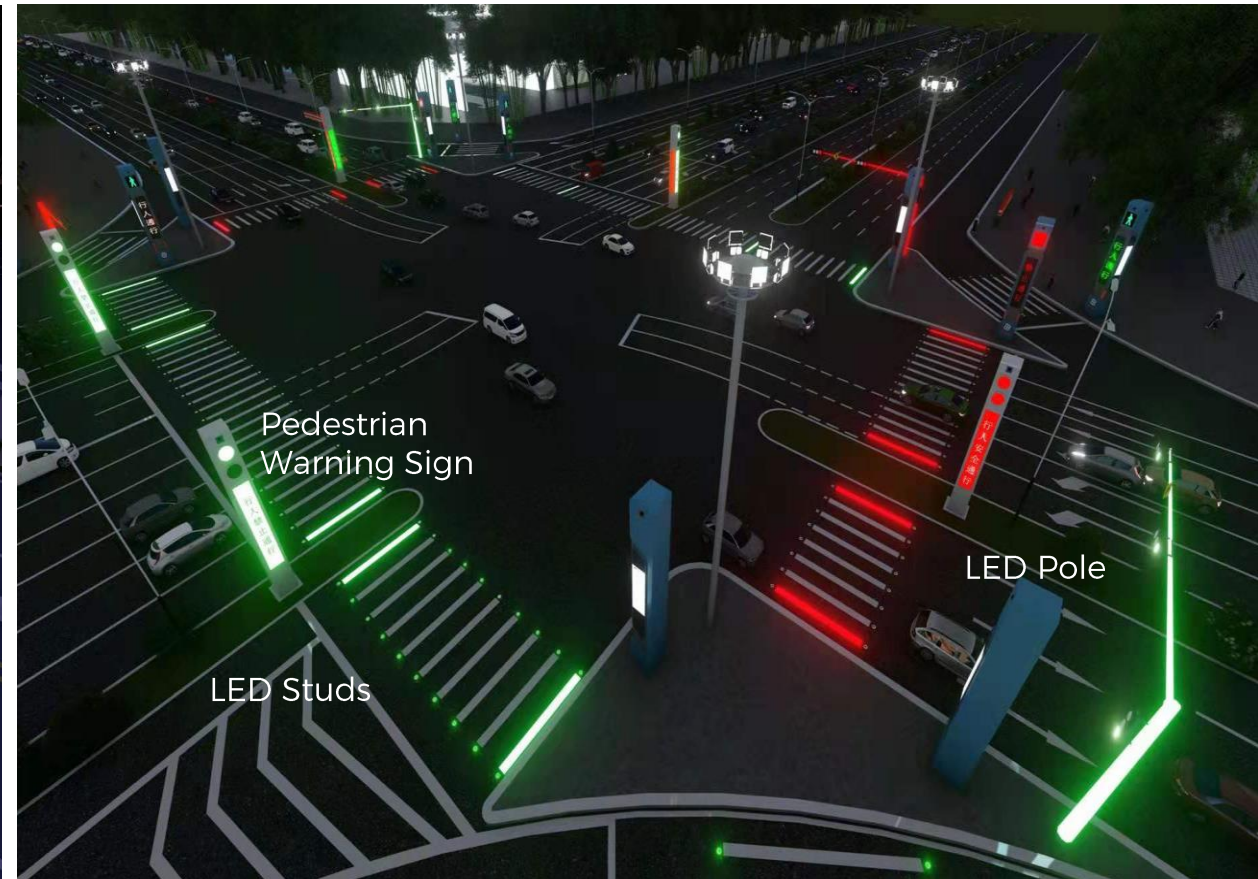
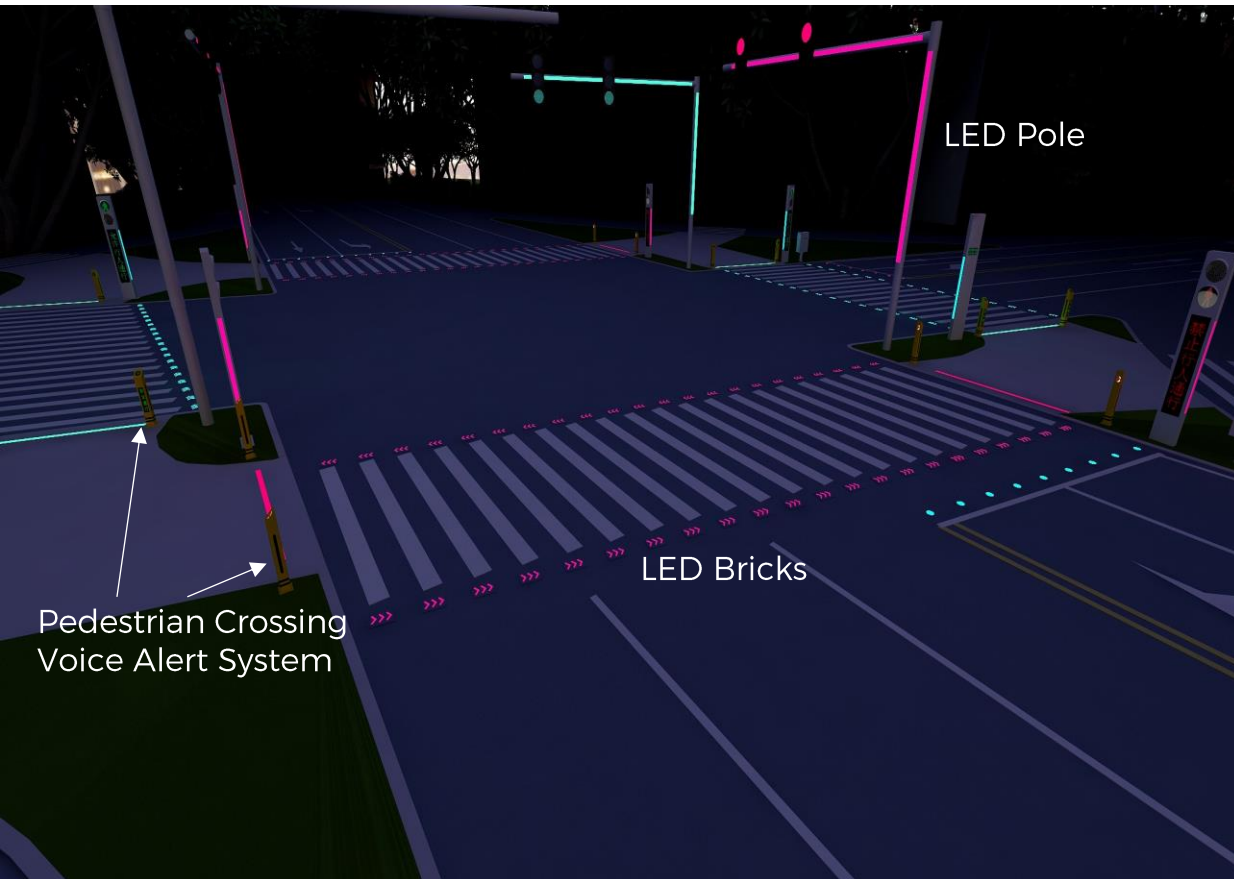
Many users may not realize that our ClairEye-i AI video detector supports multiple lens focal lengths to suit different detection needs.

- For example:
 - 12mm lens → ~35m detection range, 30° field of view
Ideal for cross-lane detection at intersections.
 - 2.8mm lens → ~4m detection range, 120° wide-angle view
Perfect for stop-line detection or monitoring pedestrian waiting areas on the near side.

Choosing the right lens is critical to maximizing detection accuracy and performance.

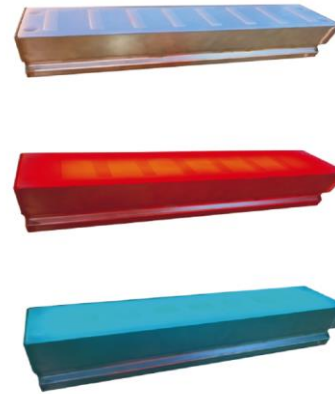
[Product Webpage](#)

LED Smart Crossing Solutions & Use Cases



Buried Pedestrian Safety Crosswalk Guide Light

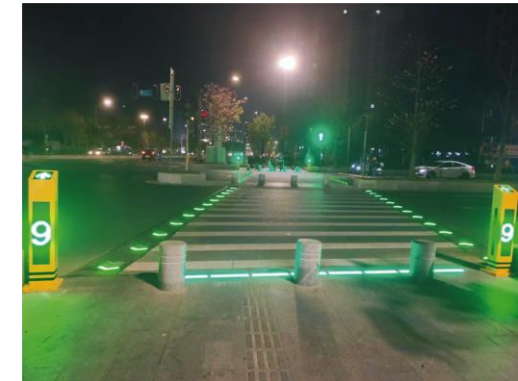
- **Material:** PC+ Thicker & strengthen 201 Stainless Steel
- **Size:** 506*119*112.5mm
- **LEDs:** High bright LED
- **Power:** 5.5W
- **Colour:** Green & Red Indicators (Syncing Traffic Lights)
- **Working Voltage:** 24VDC
- **Operating Temperature:** -40 °C ~ 80 °C. (10%~95%RH)
- **Life time:** Above 80000 hours
- **Protection level:** IP68
- **Certification:** CE, TUV, EN12368



- ✓ **Green & Red Indicators** - when the light is red, it indicates that it is not safe to cross the pedestrian walk, while green signals safety. The visual design is more easily noticed than sounds.
- ✓ **Reduce Accidents** - many workplace accidents involve pedestrians and vehicles. The pedestrian safety guide light is a helpful tool in mitigating accident-prone areas.
- ✓ **LED Signal** - save your business extra costs and time with the responsive LED design of these lights. The simple yet clever idea reassures pedestrians when crossing busy intersections or aisles without the need for a traffic controller.
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Buried Pedestrian Safety Crosswalk Guide Light

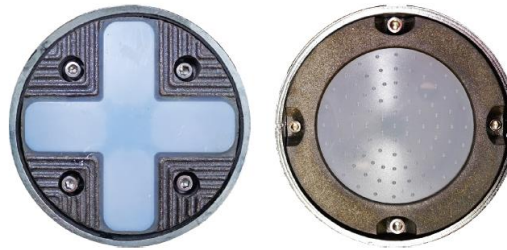
- **Material:** PC+ Thicker & strengthen 201 Stainless Steel
- **Size:** 400*400*40mm
- **LEDs:** High bright LED
- **Power:** 12W
- **Colour:** Green & Red Indicators (Syncing Traffic Lights)
- **Working Voltage:** 24VDC
- **Operating Temperature:** -40 °C ~ 80 °C. (10%~95%RH)
- **Life time:** Above 80000 hours
- **Protection level:** IP68
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Buried Pedestrian Safety Crosswalk Road Studs

- **Material:** PC+ Thicker & strengthen 201 Stainless Steel
- **Size:** 150*54mm
- **LEDs:** High bright LED
- **Power:** 8W
- **Colour:** Green & Red Indicators (Syncing Traffic Lights)
- **Working Voltage:** 24VDC
- **Operating Temperature:** -40 °C ~ 80 °C. (10%~95%RH)
- **Life time:** Above 80000 hours
- **Protection level:** IP68
- **Certification:** CE, TUV, EN12368



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Pedestrian Crossing Voice Alert System

- **Material:** Cold-rolled steel
- **Size:** 1200*236*200mm
- **Detector:** Quad-beam infrared detection (10-30m range)
- **Power:** AC220±25%, 50Hz±3Hz, ≤150VA
- **Colour:** red 4800-6800mcd/green 8500-10500mcd, visible >300m.
- **Display:** P10 dual-color LED display, brightness ≥4000cd/m², viewing angle 110°, refresh rate ≥1000Hz
- **Voice Alerts:** 7 preset voice alerts, 55-85dB adjustable volume
- **Operating Temperature:** -30 °C ~ 70 °C, (10%~95%RH) IP54-rated
- **Life time:** Above 50000 hours



1. **Smart Alert, Enhanced Safety**-Infrared array precisely detects red-light violations, with dual-mode alerts (voice + LED)
2. **Real-Time Signal Sync & Smart Connectivity**-compatible with urban traffic signal control systems.
3. **Remote Management Efficient O&M**-Configure voice schedules via mobile APP, auto-mute voice alerts at night to avoid noise pollution, and adapt to ambient light/noise levels.
4. **Multi-modal alerts**- Enhance zebra crossing order and reduce traffic accidents through intelligent multi-modal alerts, advancing civilized mobility in smart cities.

Pedestrian LiDAR Sensing + Multi-modal alerts Post

- Material: Cold-rolled steel
- Size: 1000*277*240mm
- Detector: Dual-beam LiDAR (adjustable via APP to centimeter-level)
- Power:AC220±25%, 50Hz±3Hz,≤100VA
- Flashing Alerts: red 4800-6800mcd/green 8500-10500mcd, visible>300m.
- Voice Alerts: 7 preset voice alerts, 55-85dB adjustable volume
- Operating Temperature: -30 °C ~ 70 °C. (10%-95%RH) IP54-rated
- Life time: Above 50000 hours



Multi-Modal Intelligent Alert System	LiDAR detection + red/blue flashing lights + directional voice alerts, synchronously warning pedestrians and drivers to reduce zebra crossing accidents.
Precision Laser Positioning & Safety	Activates knee-level visible laser beams when pedestrians enter crosswalks, precisely alerting vehicles to yield without glare.
Triple Active Safety Protection	Auto-shutdown laser when pedestrians approach, disable output upon collision, and voice alarms for unauthorized access.
24/7 Adaptive Management	APP-controlled voice schedules (default 8:00-20:00), silent mode at night to prevent noise pollution, with continuous operation of other functions.
Cloud Collaboration & Multi-Device Sync	Wireless multi-device synchronization and cloud platform for real-time monitoring, parameter adjustment, and emergency commands.
Bidirectional Pedestrian-Vehicle Alerts	Laser + voice prompts urge pedestrians to cross swiftly while alerting drivers to slow down, ensuring dual-direction safety.
Industrial-Grade Reliability	Withstands ≥100km/h winds, IP54 rating, and operates stably in extreme temperatures (-30°C~+70°C).

Cases



1,2,3
4,5

1. Beijing Wangfujing
2. Guangzhou Tianhe
3. Jiangsu Yancheng
4. Fujian Putian
5. Guangzhou Nansha

Cases

1. Hunan Changsha
2. Hubei Xiangning
3. Jiangxi Nanchang
4. Jiangsu Lianyungang
5. Anhui Liuan

1,2,
3,4,5



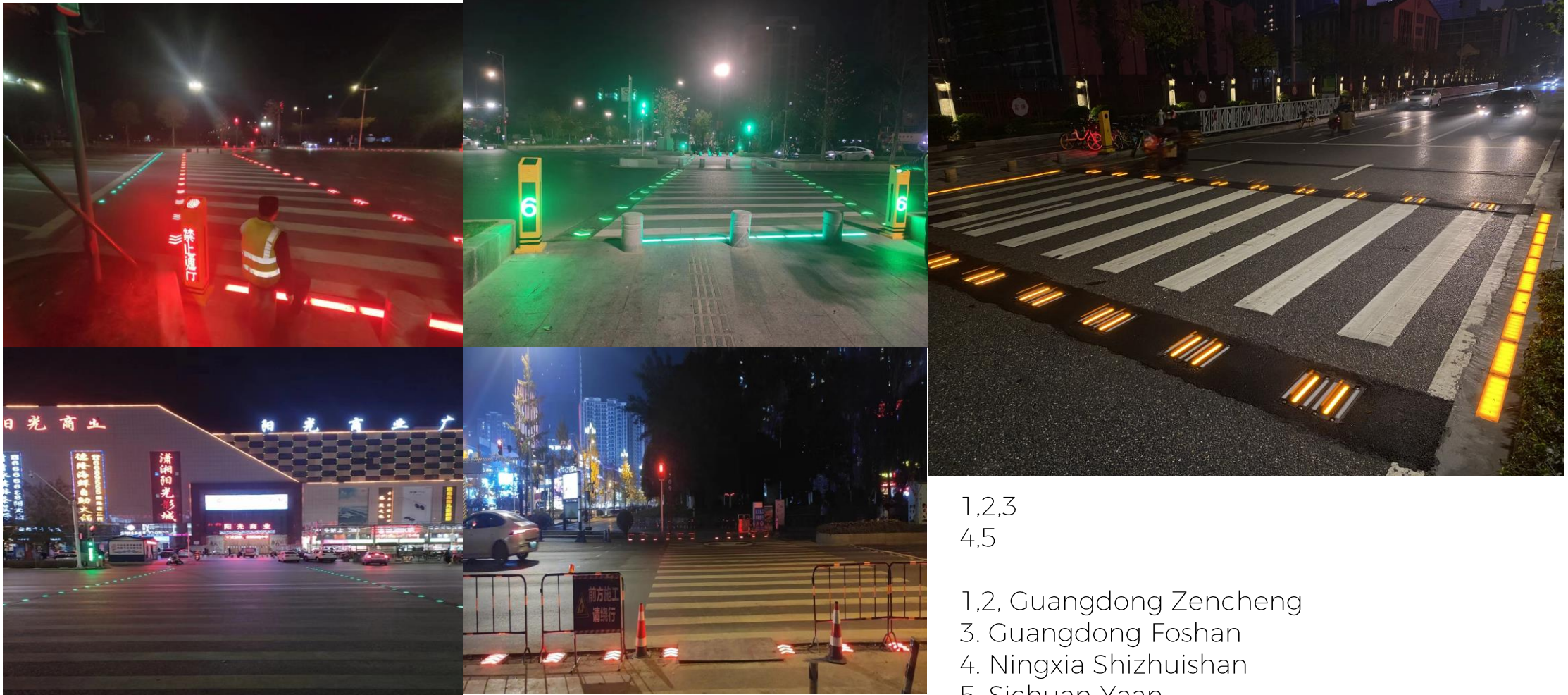
Cases



1,2,3
4,5

1. Dongguan Lusha Park
2. Guangxi Nanning
3. Jiangxi Shangrao
4. Yunnan Anning
5. Hubei Xianning

Cases



1,2,3
4,5

1,2, Guangdong Zencheng
3. Guangdong Foshan
4. Ningxia Shizhuishan
5. Sichuan Yaan

Cases



1,2,3
4,5

1. Fujian Quanzhou
2. Anhui Jinzai
3. Zhejiang Huzhou
4. Hunan Changsha
5. Shanxi Taiyuan

Cases



1,2,3
4,5

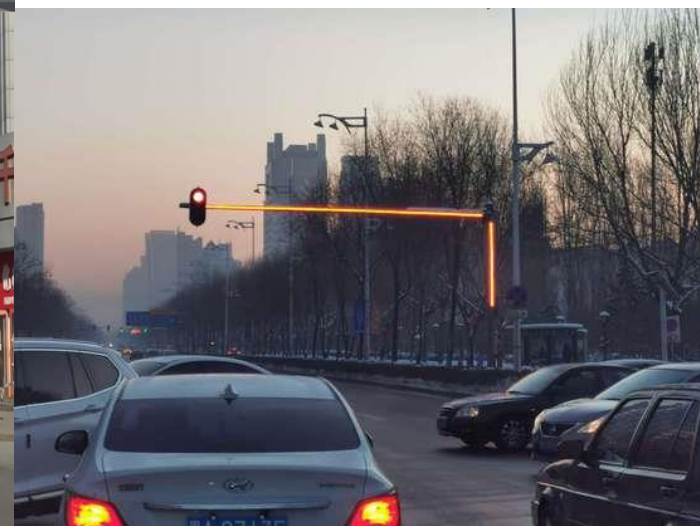
1. Yunnan Yuxi
2. Zhejiang Huzhou
3. Heilongjiang, Harbin
4. Hunan Xiangtan
5. Shandong Weihai

Cases



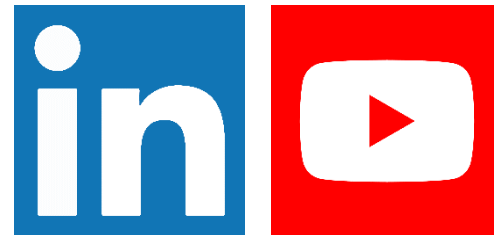
1. Jiangsu Yancheng
2. Zhejiang Jiaxing
3. Guangzhou Zencheng
4. Heilongjiang Shuihua
5. Heilongjiang Harbin

1,2
3,4,5



Join the journey towards the future of mobility.

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Thanks

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