TraffiClair

TraffiClair Monthly Updates

2026.10: Smart Crossing Use Cases & Related Products

TraffiClair Team

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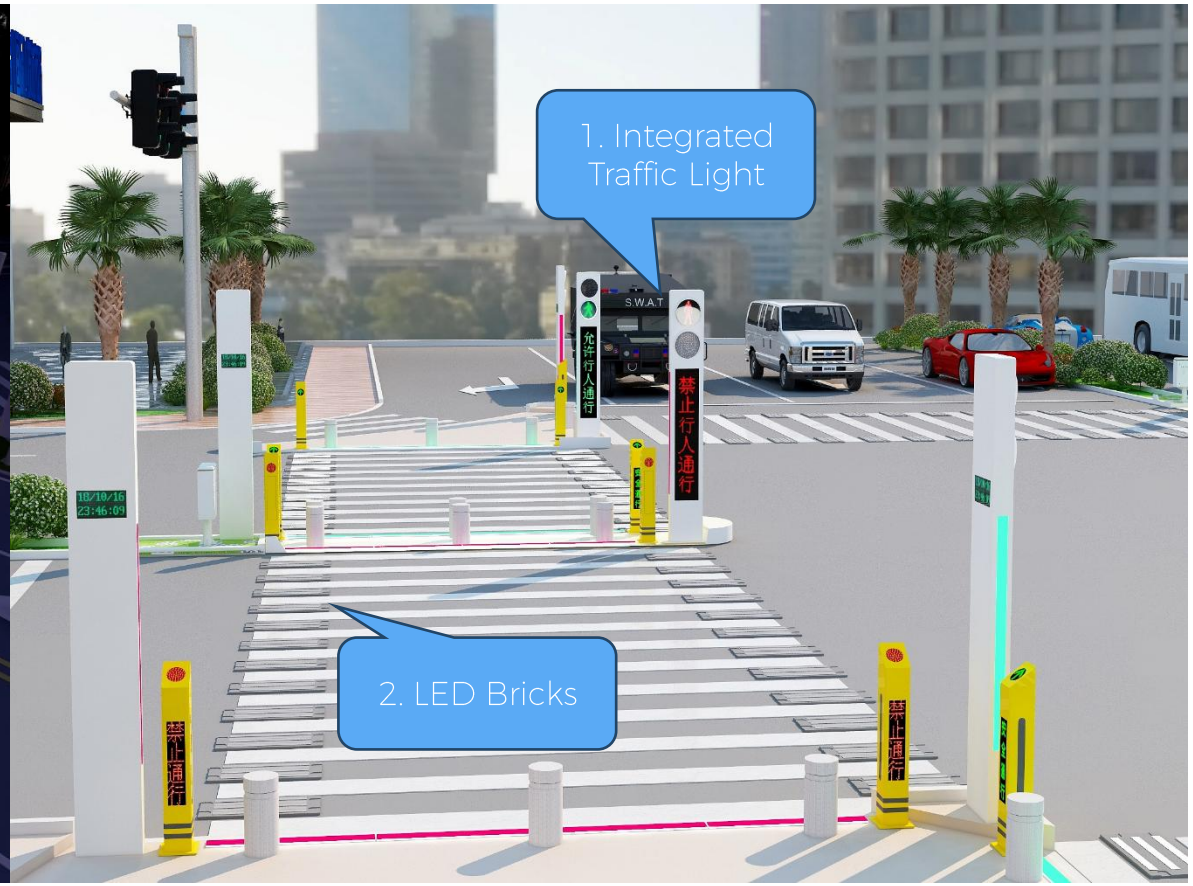
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Smart Crossing 3D Effect





Case Study: Smart Pedestrian Crossing at Wangfujing Pedestrian Street, Beijing





Wangfujing, Beijing's iconic 892-meter commercial street, welcomes up to 600,000 visitors daily — and over 1.2 million during peak holidays. But as the district evolved, so did its challenges: a dangerous vehicle-pedestrian conflict point at the Jinyu Hutong intersection, disconnected north-south foot traffic, and a confusing wayfinding system.

To address these issues, TraffiClair launched an urban renewal project built around four principles: Safety, Intelligence, Green, and Humanity.

🚦 Integrated Pedestrian Signal — Combines standard signals with LED text displays, voice prompts, and countdown light bands for multi-sensory guidance.

🔊 Voice Prompt Posts — Synchronized red/green displays with audio alerts that warn pedestrians against crossing on red.

💡 In-Ground Traffic Lights — Embedded LED lights that mirror the pedestrian signal and auto-adjust brightness based on ambient light.

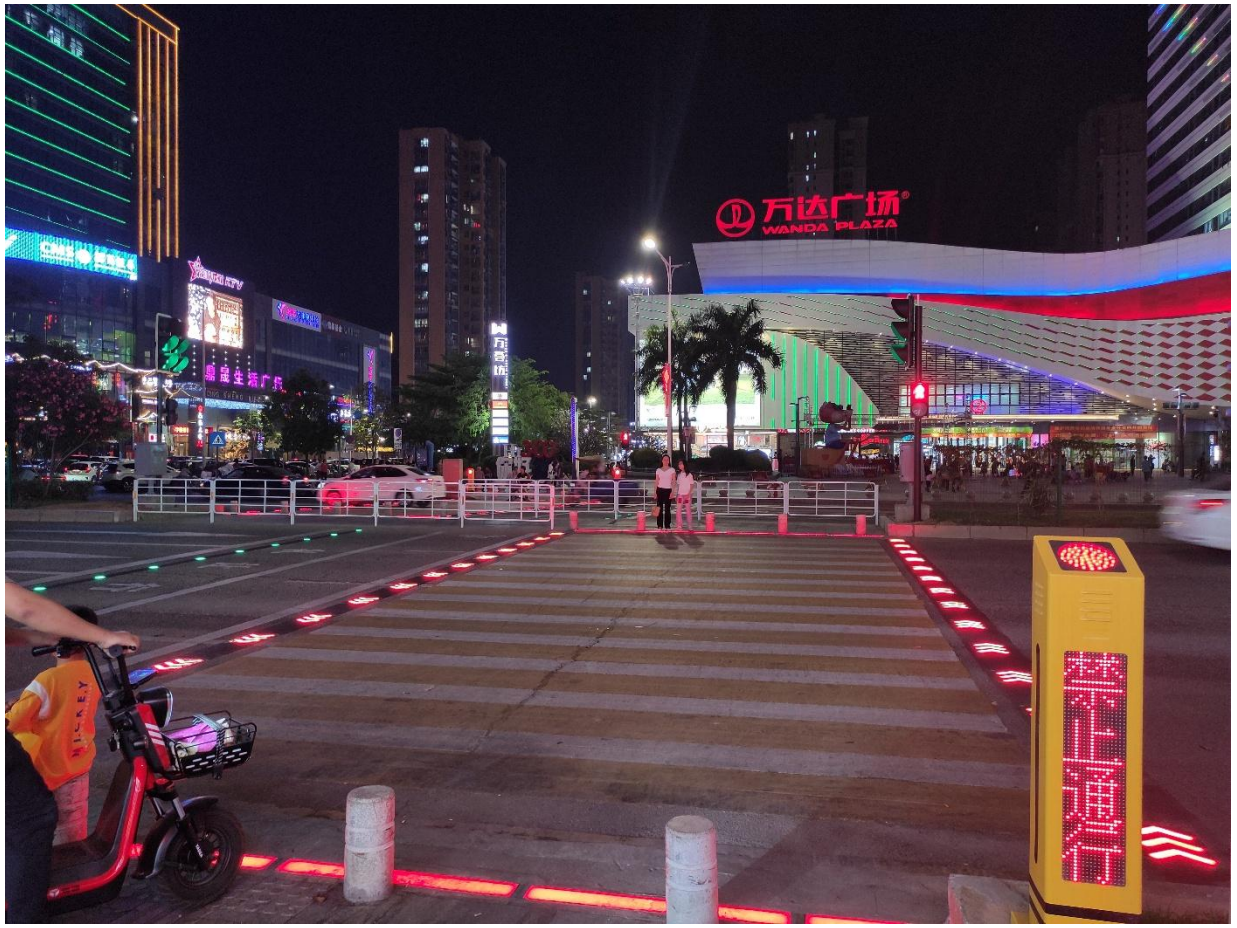
✨ Side-Emitting LED Road Studs — Illuminate toward approaching vehicles, syncing with traffic signals and adjusting brightness automatically.

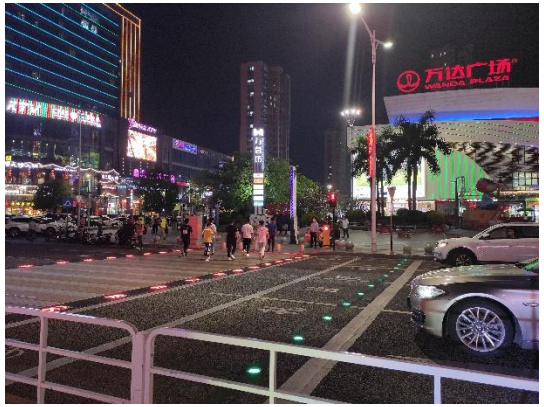
➡️ Arrow-Shaped LED Ground Tiles — Dynamic directional indicators that guide pedestrians with animated green arrows.

Full Story | YouTube Video

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Case Study: Smart LED Zebra Crossing in Humen, Dongguan







This system uses:

- LED illumination to boost safety.
- Directional arrow tiles to separate foot traffic.

The result? No more "secondary crossing" and a safer, more orderly flow of people—even in high-traffic areas like Wanda Plaza.

A smart step forward for urban infrastructure!

Full Story | YouTube Video

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Smart Zebra Crossing: Where Urban Mobility Meets Safety













Our Smart Zebra Crossing solution addresses this with two tailored designs:

- Signalized Intersections

An integrated system combining pedestrian voice prompts, vehicle yielding alerts, and unified traffic signals — triggering sound and light warnings in sync with signal status to guide all road users safely.

- Non-Signalized Crossings

Smart pavement studs/brick lights + intelligent pedestrian detection + a control system. When a pedestrian enters the crossing, lights automatically illuminate and flash to alert approaching drivers; they switch off once the pedestrian has safely crossed — dramatically improving night-time visibility and warning capability.

The results:

✅ Improved pedestrian and vehicle efficiency
✅ Reduced accident risk
✅ A visible landmark for city image and civic civilization — a "lifeline of protection" and even a new photo spot

Full Story


BANK OF GANZHOU

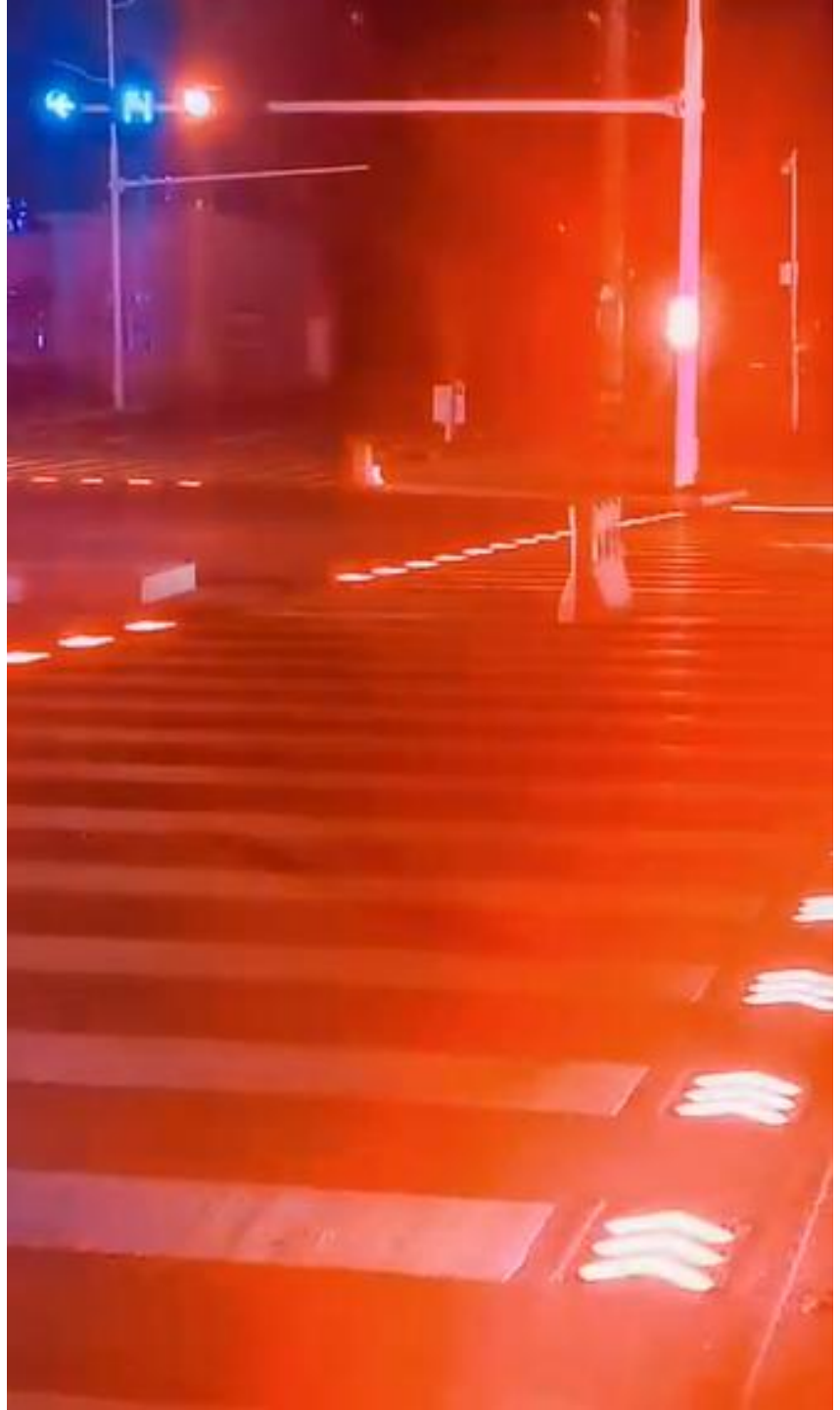

禁止通行
禁止通行


















前方施工
请绕行


6
6

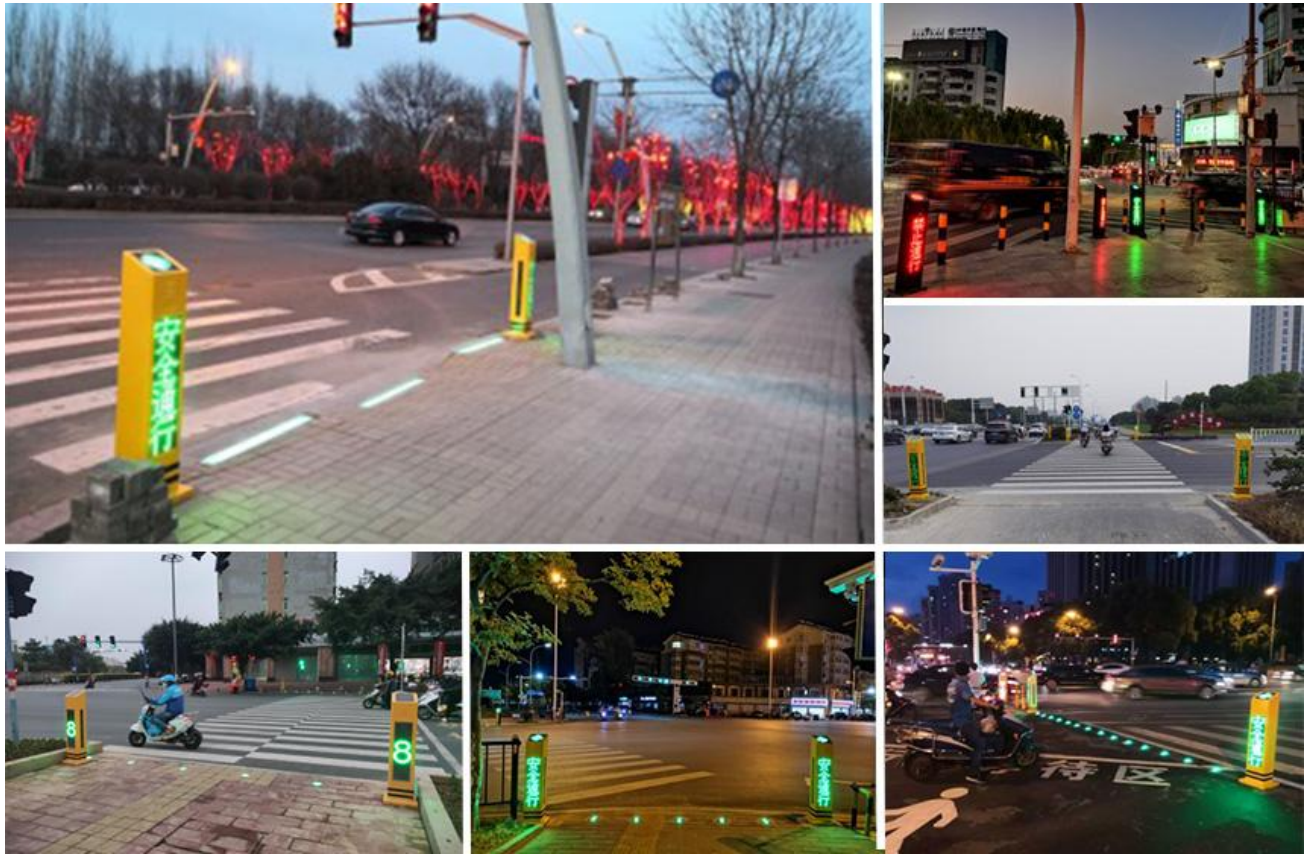



禁止通行


光影城
阳光商业

Introducing ClairSaf-Post: The Smart Standalone Solution for Pedestrian Crossing Safety

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The ClairSaf-Post is an intelligent, standalone pedestrian safety device installed directly at crosswalks. It detects pedestrians in the waiting zone and monitors traffic signal status, delivering targeted voice warnings only when someone attempts to cross during a red light.

Full Story | Webpage | Datasheet

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Intelligent Traffic Light



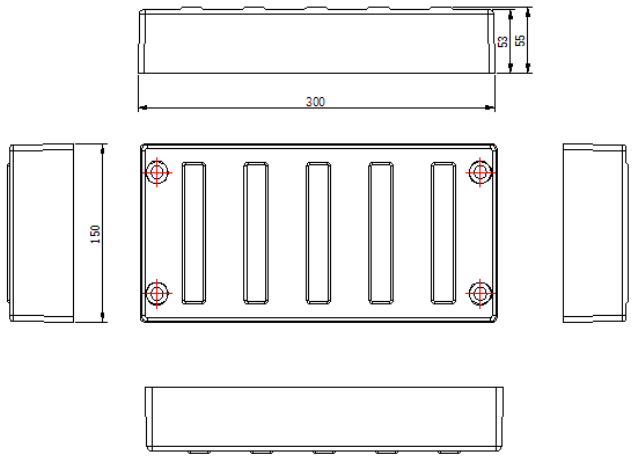
Key Features

- This system integrates a voice alert device for the visually impaired, providing reminders and guidance to safely cross the street.
- A 24-inch multimedia advertising LCD screen (operating temperature: -30 to +80°C, brightness: 1500 nits, resolution: 1920*1080 pixels) is included, capable of displaying real-time footage of the crosswalk.
- Equipped with a red-light violation capture function (8-megapixel camera) to photograph pedestrians who illegally cross during a red light.
- Includes a pedestrian waiting zone detection unit (camera) that monitors waiting times and the number of pedestrians in the waiting area, feeding this data back to the system (Optional).
- Integrates a smart crosswalk controller that enables flashing signals based on different operational modes (Optional).
- Features a vehicle signal countdown light strip (P8, 128*1280mm) for improved display performance and a more aesthetically pleasing appearance.
- Includes a dual-color LED display (P10, 160*640mm) that switches content according to the traffic light signals and supports a numeric countdown for the final 9 seconds.
- Comes with a single-post version red-light violation voice reminder for pedestrians, with a maximum detection range of 20 meters and detection distance adjustable via a mobile app.
- Integrates a pedestrian crossing request button (Optional).

Webpage | Datasheet

LED Bricks





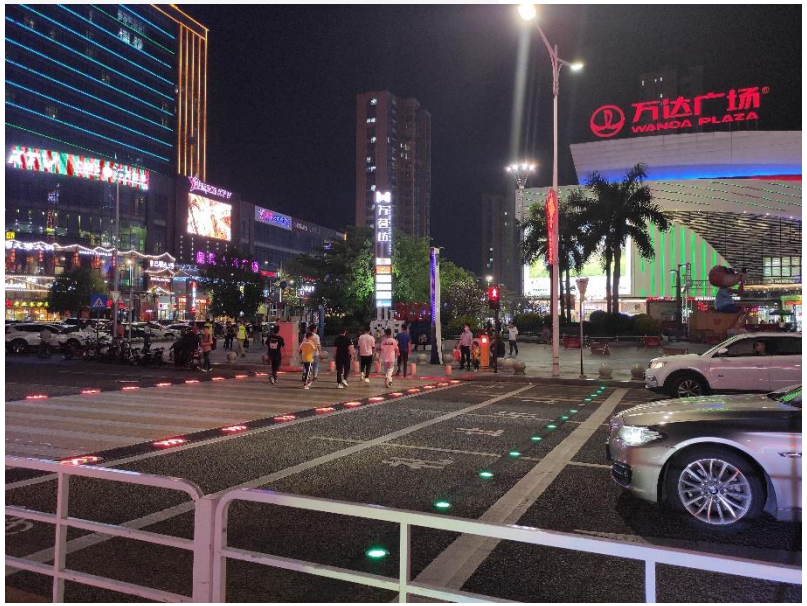
Technical Specifications:

1. Supply Voltage: DC 24V
2. Rated Power: Red < 4.5W, Yellow < 5W, Green < 6W
3. Ambient Temperature: -30℃ to +70℃
4. Operating Humidity: 10% to 95% RH (Non-condensing)
5. Light-emitting Area Dimensions: 300 * 150 mm
6. Light-emitting Area Pattern: Rectangular, full-area illumination
7. LED Type: 5mm Through-Hole (DIP)
8. LED Quantity: Red 98 pcs, Yellow 98 pcs, Green 98 pcs
9. LED Colors: Red/Yellow/Green tri-color, Red/Green dual-color, or single red, single green, single yellow, single white, etc.
10. LED Wavelength: Red: 620-625nm; Yellow: 590-595nm; Green: 503-506nm
11. LED Luminance: Red ≥ 4800 mcd, Yellow ≥ 4500 mcd, Green ≥ 8500 mcd
12. LED Viewing Angle: ≥ 120 degrees
13. Material & Surface Treatment: PC + Polymer Material
14. Service Life: > 80,000 hours
15. Protection Rating: IP68
16. Pressure Resistance: ≥ 50 Tons
17. Overall Dimensions: 300 * 150 * 55 mm (excluding embedded parts)
18. Net Weight: 2.85 kg (excluding embedded parts)

Stop Line Studs

ClairSRS Luminode Smart Studs





Specification:

1.Power Supply Voltage: DC24V & DC12V

2.Rated Power: < 8W

3.Ambient Temperature: -30℃ ~ +70℃

4.Operating Humidity: 10% ~ 95% RH (non-condensing)

5.Overall Dimensions: 140 * 53.51 mm
Pre-embedded Part Dimensions: 148 * 114 mm (Diameter * Height)
Assembled Dimensions: 148 * 117.8 mm
The raised pavement marker shell and the display area are separable for easy maintenance.

6.Light-emitting Area Pattern: Disc/Circle

7.LED Type: 5mm True Round

8.LED Quantity: 21 pcs per color

9.LED Color: Red, Yellow, Green tri-color, or single red, single green, single yellow, single white, etc.

10.LED Wavelength: Red: 620-625nm; Yellow: 590-595nm; Green: 503-506nm

11.LED Color Temperature: White: 6500K

12.LED Luminosity: Red: 4800-6800 mcd; Yellow: 4500-6500 mcd; Green: 8500-10500 mcd; White: 16000 mcd

13.LED Viewing Angle: ≥ 120 degrees

14.LED Viewing Distance: ≥ 300 m

15.Material & Surface Treatment: Shell is cast aluminum, formed by a one-time molding process; Lamp is PC mold-formed (with frosted transparent surface, non-dazzling)

16.Service Life: > 50,000 hours

17.Pressure Resistance: ≥ 30 Tons (TMC test report available)

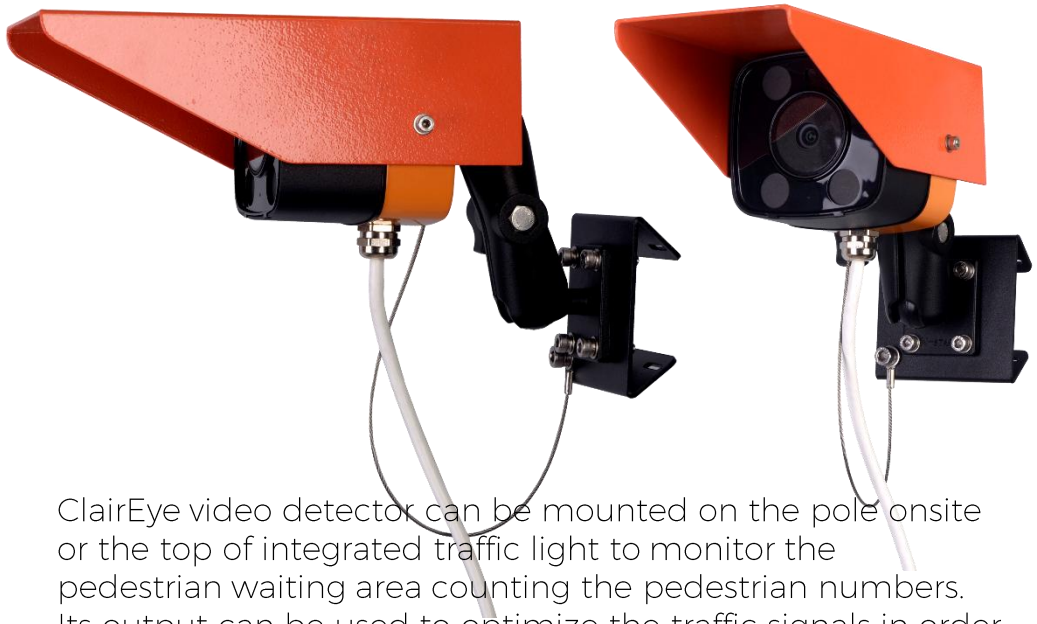
18.IP Rating: IP68 (TMC test report available)

19.Net Weight: 3.5 Kg

ClairSRS-Luminode Webpage

Pedestrian Camera

ClairEye-i



ClairEye video detector can be mounted on the pole onsite or the top of integrated traffic light to monitor the pedestrian waiting area counting the pedestrian numbers. Its output can be used to optimize the traffic signals in order to improve the traffic efficiency.

ClairEye Webpage

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

Join the journey towards the future of mobility.

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

202607: ClairWav Radar Use Cases
2026.08: Tunnel Radar Application
2026.09: Smart Warning for Low-visibility Highways
All previous issues...
Catalogue V1.10

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Thanks

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