

ClairSaf Vex

Integrated Traffic Light



ClairSaf-Vex integrated traffic light enhances the appearance of traditional integrated pedestrian signals while adding flexible modular functionalities. These include modular signal lights, countdown timers, countdown light strips, voice prompt devices, red-light violation warning posts for pedestrians, pedestrian crossing request buttons, smart crosswalks, multimedia advertising LCD screens, LED displays, and dynamic traffic information release capabilities.

This pioneering product redefines the traditional pedestrian signal light. By integrating advanced traffic assistance modules, it delivers a powerful blend of cutting-edge technology and superior aesthetics. It not only performs its core function but also actively contributes to urban beautification, enhancing the city's overall image.

■ Key Features

- **Audio Guidance System for the Visually Impaired:** Provides voice prompts to assist and guide blind pedestrians in safely crossing the street.
- **24-inch Wide-Temperature Multimedia Display:** (-30°C to +80°C, 1500 cd/m² brightness, 1920*1080 resolution): Capable of displaying real-time crosswalk footage and advertising content.
- **Red-Light Violation Capture:** (8-megapixel camera): Automatically captures images of pedestrians violating red-light signals.
- **Pedestrian Waiting Zone Detection Unit** (camera-based): Monitors pedestrian wait times and counts within the waiting area, feeding data back to the system (Optional).
- **Smart Crosswalk Controller:** Activates flashing crosswalk lighting based on different operational modes (Optional).
- **Vehicle Signal Countdown Light Strip** (P8 pixel pitch, 128*1280mm): Provides a clear countdown display with improved visual effect and aesthetics.
- **Dual-Color LED Display** (P10 pixel pitch, 160*640mm): Displays content synchronized with the traffic light phase, including a numeric countdown for the final 9 seconds.
- **Pedestrian Crossing Request Button** (Optional): Allows pedestrians to manually activate the crossing signal.

Major Functions



Multimedia Advertising LCD Screen

The multimedia advertising LCD screen features a 1920*1080 resolution and 1500 nits high-luminance backlight (note: the perceived brightness will be slightly reduced after passing through the protective glass of the enclosure). It delivers exceptionally realistic and detailed imagery, with an RGB panel that ensures richer color reproduction.

Pedestrian Red-Light Violation Capture System

This intelligent system automatically detects and monitors pedestrian violations during red light phases. It activates customizable voice warnings upon detecting pedestrians entering crosswalks and captures violation sequences in real time. The system dynamically displays images on its interface, supports live data statistics, and exports violation records via USB or network protocols to third-party management platforms for efficient traffic enforcement and behavior management.

Promotional Video & Image Playback Unit

1. **Playback & Settings:** The system reads video and image files from a designated directory and initiates playback when content is present. The settings interface allows for configuration of playback schedules and the number of repetitions.
2. **Content Source & Update Procedure:** Content is currently updated via USB drive. The APP automatically detects USB insertion, checks for the specified directory (tentatively named "xgd_video"), and initiates a file copy operation. This process overwrites existing files, first deleting all original content within the controller's "xgd_video" directory before copying the new files. The system reboots automatically to begin playback of the new content.
3. **Media Specifications:** The recommended resolution for videos and images is tentatively set at 1080 pixels (width) x 700 pixels (height).

Modular Pedestrian Signal Lights

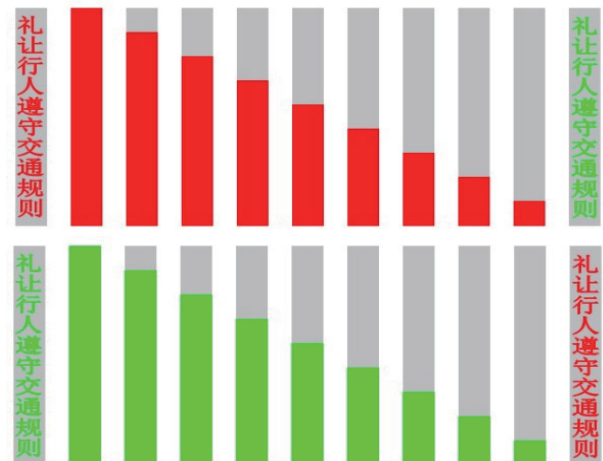
This modular pedestrian light series offers customizable configurations to meet diverse client needs. The product line includes Model 302 static pedestrian signals and Model 302 dynamic pedestrian signals. These traffic signals are seamlessly integrated into unified pedestrian signal poles, delivering enhanced aesthetic appeal and greater flexibility in functional module configuration.

Dual-Color Display Screen

The LED display subsystem integrated into this pedestrian signal light utilizes a high-brightness, outdoor P10 dual-color screen (Dimensions: 160*640mm, Pixel Configuration: 16*64). Compared to traditional dual-color displays, it offers richer color presentation and a more aesthetically pleasing appearance. Capable of broadcasting traffic safety messages, its content can switch synchronously with the traffic light signals and display a numeric countdown for the final 9 seconds.

Countdown Light Strips

The product features countdown light strips on both sides, constructed from P8 full-color LED modules (Dimensions: 128*1280mm, Pixel Configuration: 16*128). These strips boast an innovative design, delivering eye-catching and intuitive visuals with exceptionally smooth transition effects.



Mechanical Drawings

