



Comsight Technology Co. Ltd.

WZP

System Introduction



What's WZP

WZP is a powerful, reliable, and affordable LED display product based on embedded hardware and real-time multi-task operating system. It can be partitioned into multiple sections, which display RGB text, graphic, animation, counter, time, temperature and humidity independently with rich effects and sophisticated schedule. It supports multi-line display and a maximum of 65536 pixels. The versatile built-in editor will fully unleash the user's creativity. Its multiple communication methods let the product easily work in variable networks.

Simply put, the user friendly WZP display catches the eyes of your target audience with sharp images and brilliant animations, and turn their attention into more revenue of your business.

Typical Applications:

- Transportation message: Airport, Train Station, Port, Express Way, Street
- Public message: Hospital, School, Park, Market, Store, Hotel, Restaurant, Gas station, etc.
- Bulletin board: Factory, Bank, Post offices, Court, Customs, Government, etc.
- Equipment status display
- Advertising & entertainment

Specifications:

- Maximum resolution for without gray: 256(H)×2048(W) pixels, maximum height is 256pixels, maximum width is 2048pixels, such as, 256(H)×2048(W), 128(H)×1024(W), 128(H)×512(W), 256(H)×256(W), 32(H)×512(W).
- Maximum resolution for with gray: 256(H)×512(W) pixels, maximum height is 256pixels, maximum width is 512pixels, such as, 256(H)×512(W), 256(H)×256(W), 128(H)×256(W), 128(H)×128(W), 32(H)×512(W).
- Memory size: 16MB.
- Fonts: All fonts in Windows(R) system.
- Color: 65536 colors for RGB
- OS: Real-time Multi-tasks Operating System LMOS. The screen can be divided into several parts displaying individually.



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- Standard interface: RS232, RS422.
- Optional communication mode: General Modem, GSM Modem, GPRS Modem, 3G Modem and LAN(TCP/IP).
- Graphics: bmp, gif, png.
- Animation: gif animation.
- Symbol: All Unicode symbol in Windows(R) system.
- Date & Time format: User-defined.
- Temperature/Humidity/dew: Can display temperature, humidity and dew point. The temperature and dew point unit is: Celsius, Fahrenheit or Kelvin, and the humidity unit is: %.
- Decounter: Count in days, hours, minutes, seconds.
- Display methods: 16 display methods. Auto, Immediate, Slide, Cover, Roll, Interlaced Slide, Interlaced Roll, Shutter, Jump, Snow, Random, Shoot, Explode, Twinkle, Flash, Pac man.
- Message move speed: 8 move speed from slowest speed 1 to fastest speed 8.
- Pause Time: 0~60 seconds pause time, or stop permanently.
- Run in schedule: 7 schedule modes. Run always, Run every year, Run every month, Run every day, Run every hour, Run on given date and time, Run on given time in given days.
- System Upgrade: Easily upgrade through RS232, RS422 interface.

Software features:

◆ Based on real-time multi-tasks operation system and with 16M flash memory, WZP has the capability of displaying a massive amount of text information, Graphics and animations.

◆ WZP provides easy-to-follow MCS protocol, which allows the user to easily create their own PC software.

◆ Variety of moving effects help WZP LED displays becoming the critically acclaimed advertising devices in the purpose of client's guide, advertising, information dissemination.

◆ **Powerful editing ability for text, graphic, and GIF animation to create attractive messages:**

● **Text editing function**

a. Support all languages and fonts in Microsoft Windows system, all Unicode symbols and all European characters.

b. Adjustable page margin, text alignment, character spacing, line spacing, horizontal & vertical offset.



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- c. Adjustable Tabs alignment methods and Tabs spacing.
- d. Support text copy and paste, unlimited steps of Re-do and Un-do function.
- e. Support characters, time, temperature, humidity, counter, graphics (bmp, gif, png).

● Graphics editing tool

- a. Edit graphics in bmp, gif, png format.
- b. The operation of drawing tool is similar to Windows.

● GIF animation edit and display

- a. Edit animation frame by frame, using the similar tool to the graphics editing function.
- b. Set delay time for each frame freely.
- c. Preview message on-the-fly

◆ Running Descript provides rich display control:

- Multi-tasks: Edit /Create multiple tasks with text, graphics and animation etc. and run independently.
- Multi-windows: Each task can be added in different windows freely.
- Independent Control: The effect, schedule, pause time, and priority can be set for each task, partition, or sequence independently.
- Rich Effects: 16 in / out display methods, 8 message speed, 0-30 minutes pause time or stay on display permanently. Extremely long message across the screen leftwards uninterruptedly and smoothly.
- Sequential Display: Set sequence or priority for subtasks, so they can run in order or the prioritized way.
- Preview function: What you see is what you get, preview on-the-fly at each level of the message.

◆ Humidity(%) and Temperature format: Celsius (°C), Fahrenheit () or Kelvin (K).

◆ Date & Time Format: Pre-defined and user defined.

◆ Synchronize time with PC system, remote on/off control, set baud rate and support multi-displays network.

◆ System Upgrade: Upgrade firmware of the LED display easily online with PC software.

◆ Instant online help system: Click F1 at menu or the message edit interface to get related help information instantly.

◆ Sign Snapshot: real-time read back the displaying image: the user could monitor the current screen of the displaying image from the PC software remotely. It's especially useful for the projects outside & in far distance.