



Digital Signage Solution

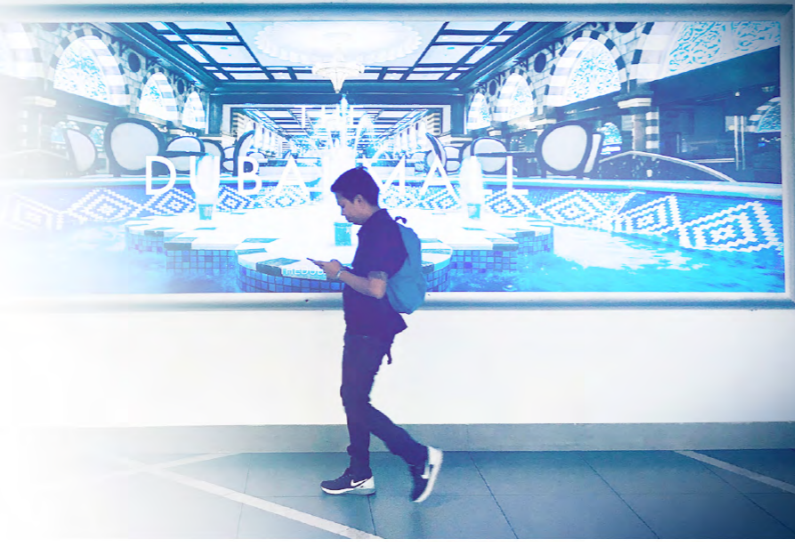
Robustie Solution

- Promotion
- Education
- Information
- Entertainment

Who are we?



CAYIN Technology, since 2004, is a professional digital signage solution and software developer from Taiwan. By offering a complete portfolio of appliance-based digital signage solutions, CAYIN dedicates itself to being a reliable partner to clients worldwide and has successfully set up various applications globally. In order to best facilitate the deployment of its products, the company also provides tailored services to satisfy the ever-growing market demand for almost limitless applications.



Digital Signage Integration Packages

CAYIN Technology understands the needs of different digital signage users and has developed complete integration product lines for all. Users will be able to make customized adjustments and coordinate seamlessly with either a single or multiple media players located across one or multiple locations. CAYIN products work together to get the target message across and allow effortless management of media players and systems in the process.




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Robustie Solution

Digital Signage Made For Professionals

The Robustie Solution brilliantly equips industrial-grade hardware and professional software to provide a robust and reliable solution to users with diverse project needs.



SMP PLAYERS

CAYIN SMP players form the core of Robustie Solution, supporting 2-4 display video walls and LED boards. They can be customized to suit different resolutions and display requirements and operate independently to present programmed content across multiple displays. This makes them a great option for digital signage applications of any size.



CMS Content Management Servers

CAYIN CMS-SE servers, another key members in the Robustie Solution, offer comprehensive features and an efficient management system that helps users manage SMP players by group and serve as an ideal option for larger-scale projects.



Premium Software



meetingPost+ enables a smart office environment by simplifying the booking and management of meeting rooms and workspace status. It offers a convenient solution for businesses and organizations to manage their workspace effectively.

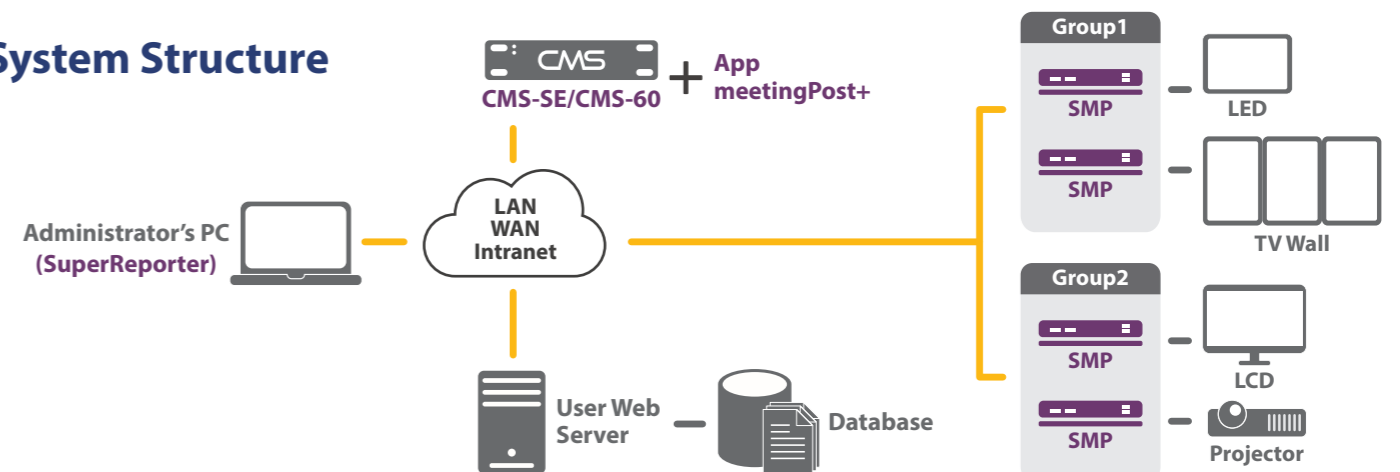


CAYIN poster offers customizable poster templates for easy design of captivating digital signage content with a click. It's suitable for use in retail, hospitality, and other notice board settings.



This package software can collect detailed logs and generate reports and diagrams for billing and performance analysis.

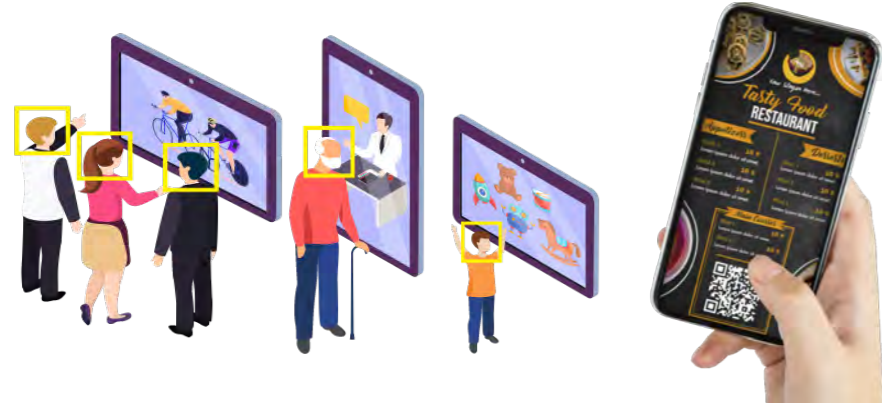
System Structure



SMP SMP PLAYERS

Creating Interactive Displays for Enhanced Engagement

SMP players can be paired with HID-compatible touch screens, supporting multi-touch functionality. In addition to common touchpad gestures like zooming, shrinking, swiping, and page-turning, SMP allows for the development of custom gestures. With a built-in QR code generator, SMP facilitates the effortless creation of touchless interactive displays, deepening audience engagement. Moreover, SMP goes a step further by integrating facial recognition technology to tailor advertisements and information based on the viewer's age, gender, and audience size.

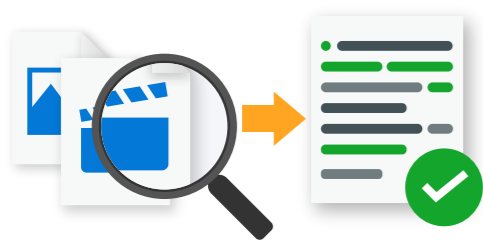


CAYIN Digital Signage Software comes with a built-in QR code generator, allowing you to easily create diverse QR code interactive applications on digital signage. This enables the creation of touchless interactive digital signage.

Fulfill Diverse Playback Needs

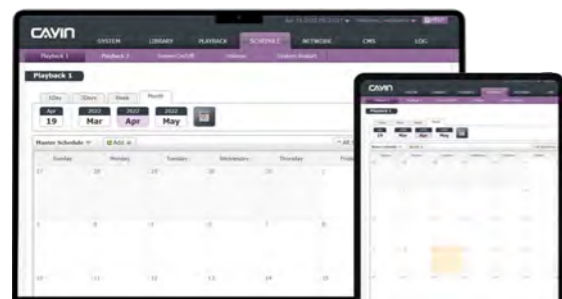
The SMP system supports three playback modes: Panel, Program, and Playlist, catering to various scenarios and occasions. You can choose to divide the screen into multiple sections, each with independent scheduling and settings.

Smart Interpretation of Multimedia Files



Intelligent Scheduling Management

Flexible and user-friendly scheduling options make planning playback schedules for all 365 days of the year incredibly efficient. You can edit various scheduling items based on one-time, daily, weekly, monthly, or yearly time units. Additionally, you can set different playback content based on location and time, providing you with a versatile tool for effective schedule planning.



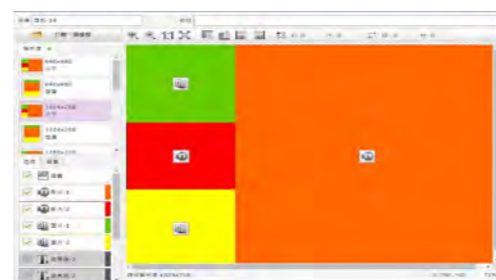
Play High-Definition Multimedia

The player supports most mainstream web languages and multimedia formats, allowing playback of 4K HDMI videos to interactive PDFs, this versatile player ensures your content leaves a lasting impression. Seamlessly integrate multimedia formats like YouTube videos, HTML5 web pages, images, music, text tickers and real-time weather information, and more. You can even capture and play specific areas of selected web pages, making it easy to share every moment of the world in a simple way!



Freedom in Design Templates and Cut Blocks

Through a simple drag-and-drop template editor, freely apply your own designed background images, cut and stack any blocks. In addition, experienced web designers can use any HTML5 web to create full-page web playback, providing maximum flexibility. Multiple commonly used templates are built into the freedom design template and cut blocks, or you can download more templates and clock styles for free from CAVIN cloud services.



SMP Functions of Various Types of SMP PLAYERS

SMP digital signage players can control 2-4 screens, video walls or billboards in both portrait and landscape orientation for most popular or even user-defined resolutions.

Single Mode Connect to 1 screen



Extended Mode Content stretched across 2/3/4 screens



Clone Mode Identical connect to 2/3/4 screens



Distinct Mode Different contents on 2/3/4 screens



Application of Screen Video Walls

SMP-2200 SMP-2400 SMP-8100

Unleash the full potential of digital displays with the SMP-2200, SMP-2400, and SMP-8100—your premier choices for dual-screen digital signage solutions. These cutting-edge devices redefine visual engagement, equipped with dual HDMI outputs for dynamic, synchronized content presentation across multiple screens. Whether you aim to duplicate content for maximum impact, stretch visuals across a broader display, or tailor unique content for each screen, our models are engineered to surpass your display expectations and captivate your audience. Experience versatility, innovation, and superior performance with our top-tier digital signage solutions.



SMP-2400 SMP-8100

Discover the ultimate triple-screen digital signage solutions with the SMP-2400 and SMP-8100. These devices elevate your display capabilities to new heights with their powerful features. Equipped with innovative three HDMI outputs or one DisplayPort plus 2 HDMI outputs, they allow for simultaneous content display across three screens. Whether you choose to mirror content across all screens, extend it for an expansive view, or present unique content on each screen, the SMP-2400 and SMP-8100 offer unmatched flexibility and efficiency in your presentations. Elevate your digital signage with the SMP-2400 and SMP-8100, and captivate your audience in unprecedented ways.



SMP-8100 is the ideal choice for a four-screen video wall. It redefines the possibilities for your TV wall, equipped with four HDMI outputs that allow you to create a stunning video wall with up to four screens. It offers four modes of output: single, clone, extend and separate, enabling you to customize your display configuration according to specific requirements. It provides three playback modes: block, program, and playlist, along with flexible scheduling functionality. This makes it easy to manage and showcase your content, capturing your audience's attention and effectively conveying your message.



SMP-2200 VGA-1 HDMI-2

SMP-2400 DP-1 HDMI-2

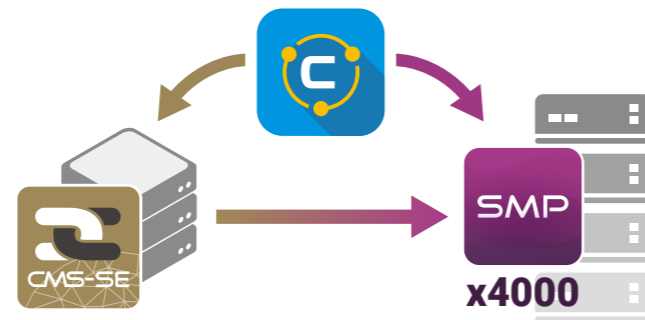
SMP-8100 HDMI-4

CMS-SE Content Management Server Software

Efficient Management of Multiple Players

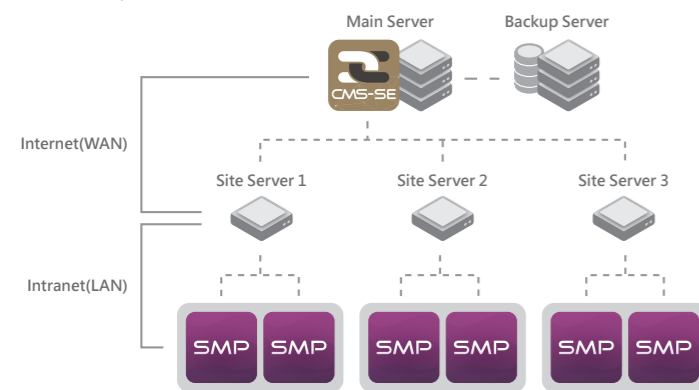
CMS-SE can control up to 4000 SMP players simultaneously. All SMP players connecting to the CMS server can be monitored through the server's web-based user interface.

*The actual quantity depends on the type of license you purchase.



Designing a Multi-server Environment

Building a multi-server architecture ensures centralized and/or decentralized management, flexible network planning, bandwidth saving, content backup, and non-stop services.



Five-Layer Group Management

Administrators can create a maximum of five-layer groups to manage all SMP players systematically in two major aspects: content updates and task scheduling. CMS server will centrally control the playlists of all media players and synchronize content automatically to all players in groups. You can set the priority for each schedule in different layers to accommodate your need.

Secured Decentralized Management

Administrators can create multiple user accounts and authorize each account to possess different access rights. Usernames and passwords are required to access the user interface and media folder.

Live Streaming Video

CMS-SE can transmit streaming data through an external HDMI capture card (sold separately) to players by means of LAN broadcasting, multi-casting, or uni-casting and provides the most updated, multimedia entertainment for digital signage networks.

Cross-platform Software Server Installation

CAYIN CMS-SE content management server can be installed onto various virtual and cloud-based hosts.

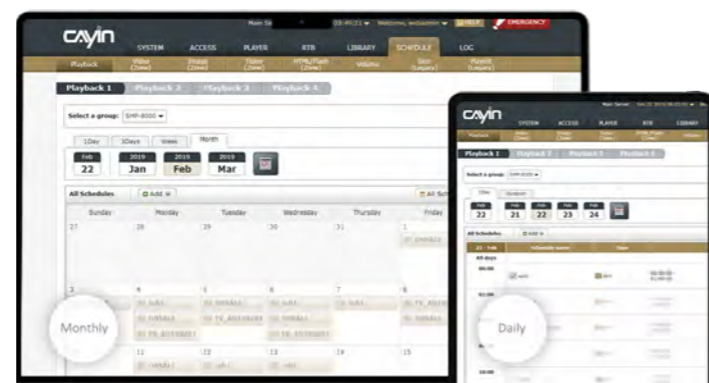


Multiple Ways to Update Content

Multimedia content can be updated by FTP and Network Neighborhood. You can also upload or delete files directly in the Library of CMS's user interface.

Intuitive Scheduling Management

You can insert a one-time event or arrange periodic tasks based on daily, weekly, monthly or yearly timescales for all SMP players in groups. Location-based scheduling is also doable to largely increase the flexibility. SMP players will playback multimedia content automatically based on the schedule assigned by the CMS server. CMS provides two viewing modes, calendar and timetable, for you to facilitate schedule management.



Automated Video and Image Playlist

Schedule content on playlists ahead of time so you never drop the ball! Expiration dates can be set on uploaded video or image files in your playlist and automatically played or stopped as per your desired dates.



Instant Alert Broadcasting

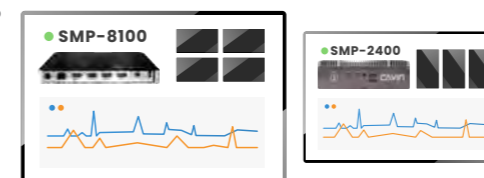
With just two clicks, you can activate the alert mechanism and broadcast emergency messages to a particular group or to all groups. Emergency messages can be presented in many formats, such as texts, images, video, HTML, etc.

► CMS-PRO Advanced Management

CMS-PRO provides administrators with more efficient and advanced central management, especially when it comes to implementing digital signage projects of different scales. The software is an add-on module embedded in a CMS server.

Access Detailed Information of SMP Players Efficiently

Administrators can check the details of system information, log records, and content update status of multiple SMP players without logging in the user interface of each SMP player one by one.



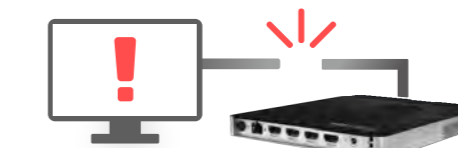
Monitor Live Status of Multimedia Playback

Administrators can check the screenshots of a maximum of 15 SMP players per page simultaneously, receiving instant updates of each SMP player.



Provide Instant Alert Mechanism

The system will indicate those abnormal devices whenever any disconnection between a SMP player and a CMS server is detected. Administrators can also receive an alert notification via Email.



One-Time Investment

There are no extra fees or licenses for adding media players to work with the CMS server, no matter the number. It is the best solution for self-hosted digital signage networks.

Network Traffic Manager

Easily manage your video players' bandwidth through network traffic and instantly tap into each player's real-time traffic and functioning status. You can also observe and check large traffic spikes for accidental operational mistakes or abnormal intrusions. To improve playback fluency and stability, adjust your player's content based on what you observe from the backend.



Perform Time-Saving Batch Configuration

Configurations, such as multimedia playback, local schedule and system settings, can be synchronized between the benchmark player and all the other selected players simultaneously.



Patch Management

By using CMS-PRO, you can upload patches to multiple SMP players through a CMS server. Please store patch files in the CMS server in advance; then select the stored patch files in Patch Management function and update them to players.



meetingPost+

Space Signage Management Effortless

We got you covered from frequent updates on informational posts to the flexible arrangement of meeting schedules edited in Google Calendar or Microsoft 365. meetingPost+ also offers seamless cooperation with CAYIN's players or any other web-enabled device.



Frequent Informational Updates for Meeting Rooms

meetingPost+ keeps track of all the changes made for each meeting room, so users don't have to. Any information updates can be edited, scheduled, and updated instantly.



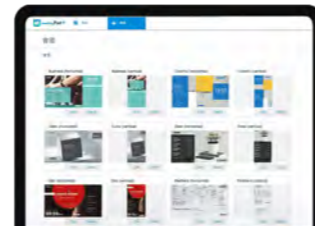
Convenient Integration with Google Workspace

meetingPost+ can be integrated with Google Workspace for more convenience. Users can sync their Google calendar to meetingPost+ to reserve meeting rooms through Google Workspace. All reservations can be managed through Google Workspace, and any changes will be linked to meetingPost+.



Pre-designed Templates for Fast Adoption

meetingPost+ is equipped with various portrait and landscape templates to give users the possibility of creating professional signage at lightning speed. Customize displays by changing the logo, background image, text size and color based on your needs.



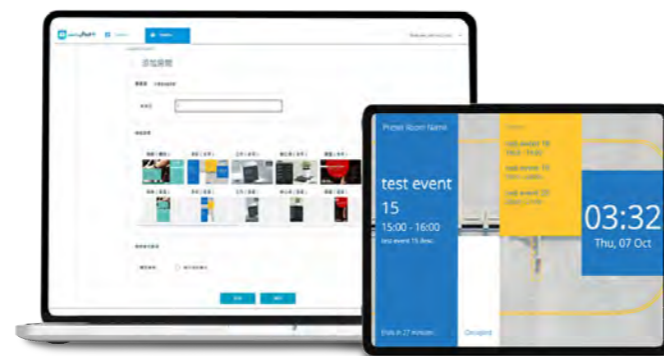
On-screen Booking

Experience the convenience and speed of booking a meeting room from the display panel right outside the room. Share meeting information directly on the display panel to avoid mixups. Users can later update meeting details or make adjustments to the room on the management page. Be in control of your meeting environments ahead of time to enhance overall group performance at every important meeting.



Web-based UI for Easy Remote Management

meetingPost+'s intuitive web-based user interface allows users to sit in front of any computer and change information displayed outside of meeting rooms.



Repeatable Scheduling for Meeting Rooms

Never forget to book a meeting with meetingPost+! Schedule a daily, weekly, monthly, or annual meeting room booking ahead of time at a click of a button.



Room Set Function

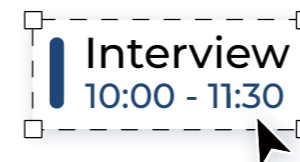
Keep your meeting rooms in check and monitor everything happening at ease. The room set function displays multiple meeting rooms and their ongoing statuses all in one place for convenient viewing and all round management. Users can easily see unoccupied meeting rooms, make future reservations, and stay updated with department updates and progress.



Introducing Four Design Features

1 Intuitive Interface for Dynamic Data Templates

Adjust custom templates for dynamic data with meetingPost+'s intuitive interface. To change template settings, just directly drag, zoom, sort layer order, or delete to match any design preferences and needs.



3 Live-Track Meeting Status with Event Countdown

Add the event countdown feature to a template to track event runtime and status in real-time. It's the easiest way to stay on top of multiple meeting schedules on a hectic day.



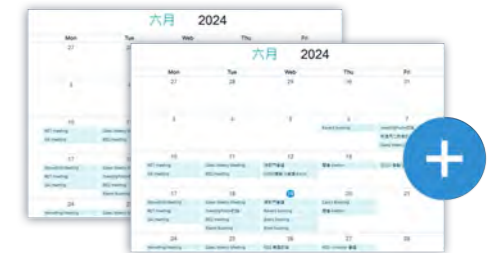
Go Global with Multi-Language Versions

meetingPost+ is multilingual! Software is available in Traditional Chinese, Simplified Chinese, English, Japanese and pish to further improve convenience and comfort in the user journey.



Built-in Calendar feature offers Independence

The built-in calendar feature allows you to access meetingPost+ independently without linking to any applications. Reserve meeting rooms, create equipment lists, manage and create an event or recurring event directly from your devices. You can also conveniently import .ics files or URLs in iCal format, add "meeting room occupant" details, and search for unoccupied meeting rooms within a specified time frame.



2 Flexible Design for Meeting Room Occupancy

Choose a preferred style to display meeting room occupancy on custom templates. meetingPost+ gives users the design flexibility to show whether a meeting room is vacant or occupied.



4 Add Cool Effects and Animations

Liven up any template designs by adding cool effects and animations that best represent your brand! With a slight change in detail, your presentation can stand out from the crowd.



poster

Start Designing in Seconds

Revolutionize your digital signage with CAYIN poster App! Easy-to-use templates with customizable images, text, and effects in just a click. Perfect for retail, hospitality, and any notice boards. Upgrade your content game and capture attention effortlessly.



Ready-Made poster Templates

Start designing like a pro within seconds! With various template styles, images, shapes, graphics, fonts and effects to choose from, you will always find the creative outlet for you.



Import Templates from the Cloud

Forget building from scratch! Import your own design templates from the Cloud and instantly apply them to company presentations to stay aligned with your brand.



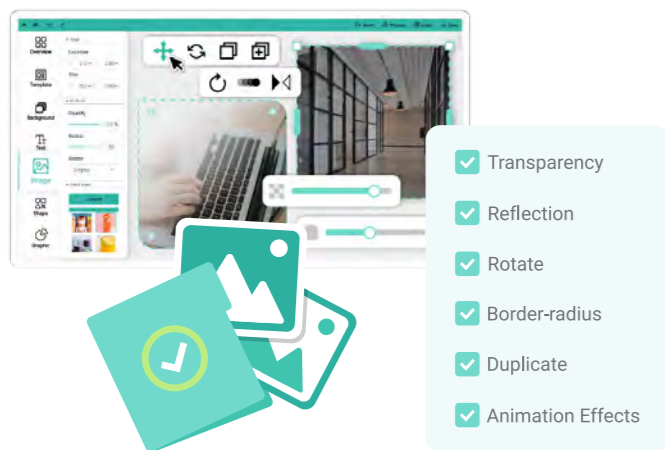
Adjustable Sizes and Views

Select from a variety of sizes and views, including mobile, square, portrait, and landscape, that best suit your content display needs.



Take Advantage of Built-in Images

Breathe life into your content displays with built-in or uploaded images. And adjust image at a click.



Customize Your Text

Elevate your poster design any way you want with adjustable text settings.



CAYIN Signage Assistant

Manage Anytime, Anywhere

CAYIN Signage Assistant is an Android and iOS mobile app, working with CAYIN CMS-SE and CMS-WS servers for digital signage content management.

This mobile app allows users to monitor and manage the enterprise digital signage network anytime, anywhere. It greatly increases management efficiency to ensure the service quality of your digital signage network.



Manage SMP and CMS

You can manage all SMP players and one or multiple CMS servers, including main and site servers and have all players' status in hand for quick response to unexpected incidents.



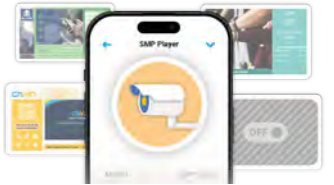
Real-time CMS Overview

Gain instant access to a comprehensive CMS overview right from your mobile device with the Signage Assistant. Simply connect to your CMS, and you can instantly view detailed information, including usage statistics, network data, and more. Stay informed about your digital signage operations on the go, enabling more efficient management.



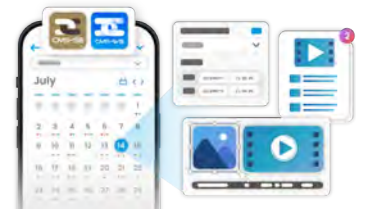
Remote Monitoring

You can monitor the screenshot of the current playback content of all players to make sure each screen is displaying the correct content as scheduled.



Centralized Scheduling Management on Your Mobile

Connect seamlessly to your CMS and take control of centralized scheduling with the Signage Assistant on your mobile device. Effortlessly add or edit skins, programs, playlists, videos, images, and HTML content, empowering you to create personalized digital content that elevates your brand display effectiveness.



SuperReporter 2

Generate statistics reports for billing and performance analysis

SuperReporter2 is a handy reporting software explicitly designed for the CAYIN digital signage system. Users have the power to manage multiple projects simultaneously and easily analyze their performance on a large scale with instant marketing and system analysis reports generated based on specific advertising agencies or content providers.



Manage Multiple Projects Simultaneously

You can manage different digital signage networks at the same time and generate reports based on each project. This classification function can also be used to manage players based on geographic regions, customers, contents, business models, etc.

Generate Reports Automatically and Periodically

SuperReporter 2, incorporated with batch files or Windows® Scheduled Tasks, can automatically generate and send reports daily or weekly. For example, you can generate a report, send it to your marketing staff by email, and save a copy to your PC on the first day of each month.




Monitor Current Status of SMP Players

SuperReporter 2 assists administrators in conducting preliminary check of SMP players' status. When the software cannot receive SMP player's log records, a warning sign will be shown in the player Status Report, so that problems can be verified and solved immediately.

Export Reports into Two Formats

HTML All statistics and diagrams can be exported into HTML files. You can share reports easily with advertisers, advertising agencies, or other users via Internet. Its can also export Excel files, detailing all playback records of each multimedia file. You can utilize these raw data to conduct further analysis and create your own reports and diagrams with great flexibility.

SMP PLAYERS

	 SMP-8100	 SMP-2400	 SMP-2200
Max. Managed Screens	4	3	2
Display Mode	4 modes: single / clone / extended / distinct mode		
Video Wall	2x2, 4x1, 1x4, 3x1, 1x3, 2x1, 1x2	3x1, 1x3, 2x1, 1x2	2x1, 1x2
Max. Screen Resolution	4K (single/clone mode), 1080p (extended/distinct mode)		
Max. Video Resolution	4K x 1 or 1080p x 4	4K x 1 or 1080p x 3	4K x 1 or 1080p x 2
Video Streaming	UVC capture card, and YouTube/network streaming		
Internal Storage	256GB SSD	128GB SSD	60GB SSD
VGA	-	-	1
HDMI	4	2	2
DP	-	1	-
LAN Port	1	2	2
Fan	✓	Fanless	Fanless
GPS Support	✓	✓	✓
Touch Screen	✓	✓	✓
Certification	CE, FCC, RoHS, BSMI		

CMS-SE SERVER

	System Requirements
Operating System	Ubuntu 64 bits 22.04 LTS
CPU	2 GHz dual-core processor or higher
Memory	4 GB RAM
Hard Disk (HDD or SSD)	120 GB of available disk space
	Product Features
Video Streaming	UVC capture card, and YouTube/network streaming
Management Capacity	Max. 4000 SMP players
Access Control for Multiple Users	Unlimited user accounts
Supported Premium Software	meetingPost+, poster, CAYIN Signage Assistant, CMS-PRO, xPost, SuperReporter2



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