Empower ESG with CAYIN E-Paper Sustainable Signage Solution

Smart, Sustainable, Centralized Display for Enterprise Systems

ESG – The Three Pillars of Corporate Sustainability

Environment (E)

A company's impact on the environment through its operations, such as energy efficiency, waste management, and emissions reduction.

Social (S)

How a company treats its employees and the community, including employee benefits, human rights, and social initiatives.

Governance (G)

A company's internal management structures and processes, such as board composition and anti-corruption measures.

ESG is the three-pronged framework for evaluating a company's sustainability and long-term viability. Assessing a company's performance in these areas is key to understanding its overall sustainability efforts.

Why ESG Matters to Business

Global Pressure

Global pressure from the UN, EU, and supply chain partners

Export Competitiveness

Companies must meet sustainability expectations to retain export competitiveness

Corporate Credibility

ESG reporting enhances corporate credibility and trust

Business Risks

Failing to adopt ESG practices may result in product rejection, reduced market access, and carbon tax penalties

ESG and E-Paper
Sustainable Signage Solution

Sustainable Development Goals

Contributes to SDG Goals: Responsible Consumption, Climate Action

Reusable Display Technology

Replaces printed material and paper signage, supporting paperless operations

Zero Light Pollution

Helps companies reduce carbon footprint: low energy consumption vs. traditional displays

Low Power Consumption

E-Paper =

Low Power + Zero Light Pollution + Reusable Display

Advantages of E-Paper Displays

Ultra-low power consumption

battery life measured in months or years

Reflective display

clear readability in sunlight

Lightweight and versatile sizes

easy to mount anywhere

Real-time content display

perfect for schedules, equipment status, and inventory updates

Environmental durability

suitable for various indoor and semi-outdoor environments depending on model

Wide viewing angle

consistent visibility from all directions

Common Applications of E-Paper

Smart Factories

machine status boards, shift info, maintenance logs

Smart Offices

meeting room signs, desk booking, signage

Industrial Logistics

real-time inventory display, smart picking, order status updates

Healthcare

patient info signs, lab labels, mobile workstations

Smart Campuses

classroom schedules, wayfinding, ID signage

Retail Store

price tags, promotion signage, product spec displays

Transportation Hubs

bus/train stop signage, gate info, passenger updates

Hospitality

hotel room signage, conference room schedules, cleaning status

NTPU Smart Campus Case Study

- **Classroom ePaper Timetable System**
  CAYIN, together with Advantech, deployed ePaper displays outside classrooms to present schedules and real-time course updates
- **Seamless Integration with Existing Systems**
  Automatically syncs with the university's scheduling platform and highlights important changes using reverse-color emphasis.
- **Eco-friendly & Energy-efficient Solution**
  Replaces conventional LCD screens, significantly reducing energy consumption and supporting NTPU's campus sustainability and ESG goals

Improved Transparency & Efficiency

Faculty and students can view up-to-date class info instantly, enhancing campus operations and communication clarity.

ESG-driven Branding & Sustainability

Demonstrates NTPU's commitment to green initiatives through low-power, paperless technology.

Scalable Model for Institutions

A replicable project example for other universities or large organizations aiming to modernize with smart, sustainable solutions.

Why Customers Choose CAYIN

20+
Years of Experience

Providing digital signage expertise since 2004

100+
Countries Served

Exporting to 100+ countries globally

1000+
Trusted Clients

Trusted by government agencies, schools, hospitals, corporations

- Offers B2B support & full customization services
- Professional system integration and long-term partnership experience

CAYIN's Integration Capabilities

1

Enterprise Systems

Supports integration with ERP, IoT, database, and enterprise backend systems

2

Centralized Management

Centralized content management via Wi-Fi (LAN/Internet)

3

Real-time Automation
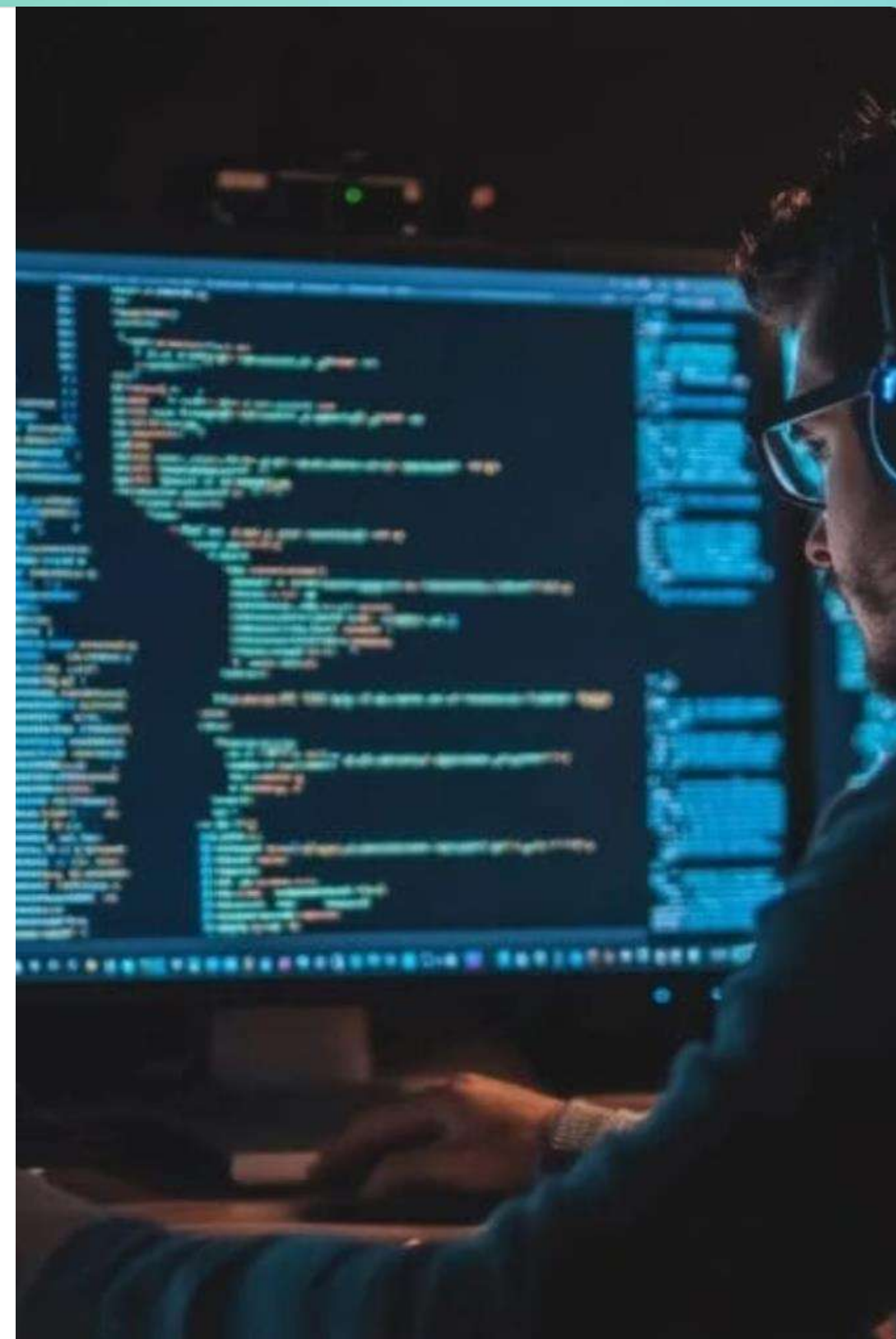
Supports real-time automation

4

Scalable Deployment

Enables scalable deployment across the organization

5

Effortless Updates

All remote — no on-site visits or Bluetooth pairing needed

Key Benefits of CAYIN Innovative E-Paper Solutions

1

Full Customization

Tailored for seamless integration with client workflows and existing systems.

2

Centralized Management & Automation

A unified platform for streamlined content control and automated processes.

3

Effortless Enterprise Integration

True enterprise-grade solution requiring no manual app or sync for updates.

4

Dedicated B2B Support

Enjoy seamless communication and comprehensive after-sales service.

5

Boost ESG Performance

Quantifiable improvements in environmental, social, and governance metrics.

E-Paper Product Line Overview

Size	Color	Resolution	Key Applications
2.9"	BWR (Black/White/Red)	128 x 296	Small signage, nameplates, price tags
4.2"	BWR (Black/White/Red)	400 x 300	Shelf labels, meeting room signs
7.3"	BWRY (Black/White/Red/Yellow)	800 x 480	Mid-sized signage, promotions
13.3"	RBW (Red/Black/White)	1600 x 1200	Wi-Fi enabled, long battery life, ideal for scheduling, status boards
31.5"	BWYRGB (Black/White/Yellow/Red/Blue/Green)	2560 x 1440	Large dashboards, ESG data displays, factory or office use

Summary & Call to Action

Smart ESG Strategies

CAYIN Innovative E-Paper empowers smart ESG strategies

Value for Clients

Add value for your clients through system integration

Real-time Solutions

Offer sustainable, centralized, real-time display solutions

Contact us today to co-create your customized E-Paper solution

Contact Information

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