

JB Clinic

A Legacy Clinic, Reimagined JB Clinic × CAYIN Technology:
Smarter Waiting, Better Care

BRIEF PROFILE

Place: Taiwan

Industry: Healthcare

Solution:

- SMP-2200 × 3
- Robustie Solution

Where It All Began: One Clinic, Four Decades of Commitment

Tucked in a quiet alley beside the Nanxing Market in Keelung's Qidu District, JB Clinic doesn't look like much from the outside. There's no grand lobby, no towering signage. But its lights have never gone dark — not in over 40 years.

JB Clinic is more than a place to see a doctor. It was the first clinic in Keelung to establish a smoking cessation program, and it has long extended its reach into underserved communities through volunteer medical outreach. Pulmonary function tests, retinal screenings — services you wouldn't expect from a neighborhood clinic are simply part of the routine here. Over the decades, JB Clinic has become something rare: a clinic people genuinely trust.

But trust is a foundation, not a finish line. As patient volume grew, small friction points began to surface. Patients didn't know how far down the queue they were. Announcements were hard to hear. People waiting outside had no way to track their progress. None of it was catastrophic — but it quietly eroded the experience that decades of care had built.



Insight: The waiting room experience often shapes a patient's lasting impression of a clinic — more than the consultation itself.

The clinic's physicians understood this. So they made a decision: use technology to honor the same commitment they'd kept for 40 years.

The Real Challenge: More Than Just 'Installing a Screen'

Digital transformation sounds straightforward — until you're actually doing it in a community clinic. JB Clinic faced a set of challenges familiar to small and mid-sized medical practices everywhere:

- **Shared display, two consultation rooms:** Rooms 2 and 3 are adjacent and share a single screen. How do you show accurate queue information for both without confusing patients?
- **Unpredictable scheduling:** The number of active consultation rooms varies by time slot. Doctors call in sick. Extra sessions get added. The system needed to adapt in real time.
- **Non-technical staff:** Clinic staff are healthcare professionals, not IT engineers. Any system had to be manageable without technical training.
- **Zero tolerance for downtime:** A crash or lag in a busy waiting room creates chaos and damages trust immediately.

To meet these needs, JB Clinic assembled a three-partner team — each bringing a distinct and essential expertise.

Three Experts, One Seamless System

What made this project work wasn't any single piece of technology. It was the precision of three specialists working in concert — not selling products, but solving problems.

• CAYIN Technology — The Core Engine :

CAYIN provided three SMP-2200 industrial-grade digital signage players as the hardware backbone of the system. CAYIN's reputation for stability isn't marketing language — it's the result of years of deployment in high-stakes environments: hospitals, retail chains, government offices.

Equally important is the management interface. Designed around intuitive visual controls, it allows clinic staff to adjust content on the fly whenever schedules change — no IT support required.

• Pao-An Technology — The Needs Translator :

Pao-An Technology played the most critical — and most overlooked — role in the project: systems integrator.

Rather than applying an off-the-shelf configuration, their team visited the clinic in person, sat down with the physicians, and translated real-world clinical workflows into executable technical specifications. Knowing that JB Clinic's schedule shifts frequently, Pao-An Technology designed multiple pre-configured 'scene switching' scenarios — allowing the system to adapt automatically or manually to any combination of active consultation rooms. This is what made the system feel alive.

• PilotTV Media — The Queue System Architect :

PilotTV Media handled the development and integration of the core queue management system. By deeply connecting it with CAYIN's players, the system supports both one-to-one and many-to-one display configurations — meaning no matter how the clinic reconfigures its rooms, queue information always appears on exactly the right screen, exactly when it should.



Inside the Solution: How SMP-2200 Solves Real Clinical Problems

The technical details here are worth understanding — because what was solved at JB Clinic is a problem dozens of clinics deal with every single day.

Dynamic Room Mapping | Smart Layouts, No Manual Switching

Sharing one screen between two consultation rooms sounds like a compromise. CAYIN's system turns it into an advantage. The display automatically adjusts based on which rooms are active:

- **Only Room 2 open:** The full screen shows Room 2's queue — clean, clear, and uncluttered.
- **Rooms 2 and 3 both open:** The screen splits automatically, displaying both queues side by side.
- **Schedule changes mid-session:** Staff can switch layouts instantly through the visual interface — no technical background needed.

Low-Latency Wireless Transmission | Called Now, Shown Now

The most damaging flaw in any queue system is lag. When the system calls number 58 but the screen still shows 55, the waiting room starts to stir.

SMP-2200 uses low-latency wireless transmission to keep screen updates and audio announcements nearly synchronized. Patients seated anywhere in the clinic — or waiting just outside — always see the current status.

Integrated Health Education | Turning Wait Time into Value

The screens don't just show numbers. The system simultaneously broadcasts:

- Health education videos uploaded directly by clinic staff (full editorial control, no vendor dependency)
- Real-time scrolling tickers with clinic announcements
- Live local weather information

The waiting room is one of the few moments patients sit still. Video-format health content reaches them far more effectively than posters on the wall — and it does so without interrupting care.

Extended Reach: The system's display even extends to the clinic's exterior display window, giving patients waiting outside a clear view of queue progress — reducing foot traffic at the front desk and relieving staff pressure.

The Outcome: Real Change Behind the Numbers

January 31, 2026. System goes live.

JB Clinic's feedback came down to three words: simple, stable, satisfying.

But behind those words are concrete shifts in how the clinic operates:

- **Reduced patient anxiety:** Patients track their own queue position without asking staff, creating a calmer, more orderly atmosphere.
- **Lower staff workload:** Automated layout switching and announcements free front-desk staff to focus on what matters most.
- **Stronger professional image:** A modern, seamless digital experience quietly signals to every patient that this clinic keeps moving forward.
- **Higher health education reach:** Educational content plays continuously during wait times, delivering health knowledge naturally — without interrupting the clinical flow.

The value of this system isn't just that it solved a technical problem. It's that it gave a 40-year institution a modern, thoughtful way to keep the same promise it's always kept to its community.



What Clinic Managers Can Take Away

JB Clinic's story offers a clear direction for any medical practice considering a digital upgrade:

- **Start with pain points, not technology.** JB Clinic didn't adopt this system because digital transformation was trending. They did it because a real patient experience problem needed solving.
- **Choose partners who listen before they pitch.** Pao-An Technology's on-site interviews are what separated this project from a generic rollout.
- **Prioritize stability over features.** For a clinic, a system that never fails matters more than one that has every bell and whistle.
- **Make wait time work for you.** A screen is not just a queue board — it's a channel to communicate, educate, and build trust with every patient who sits in your waiting room.



About CAYIN Technology

CAYIN Technology specializes in industrial-grade digital signage solutions — including media players, content management servers, and advanced management software. With proven deployments across healthcare, retail, education, and government sectors worldwide, CAYIN is trusted by organizations that need systems which simply work, every time.

The JB Clinic project is a testament to that standard: industrial reliability, deployed in service of every patient who walks through the door.

Ready to transform the waiting experience at your clinic?

Contact CAYIN Technology and our certified partners to design the right digital signage and queue management solution for your practice.



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