

Voscene

AI-Powered AV Control System

VOICE ON SCENE

Speak. Control. Transform.

The first AI-powered AV control system designed for Thai enterprise — control every device in your space with natural language commands in Thai or English, by text or voice.



Contents

Nine chapters covering Voscene end-to-end.

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The Voice of Smart Spaces.

Voscene transforms meeting rooms, hotels, classrooms, and venues into intelligent spaces — controlled by AI that understands Thai and English. Type a command or speak naturally; the AI agent translates intent into precise device actions. No complex programming, no expensive touch panels — just premium control through a web browser.

WHAT VOSCENE MEANS

VOSCENE *pronounced "VO-seen"*

Voice On SCENE

"Voice is ready — in every space."

— WHY CHOOSE VOSCENE

60-80% < 24h

Lower Cost

vs traditional AV control

Deployment

single-room · plug & play

100%

AI-Driven

Thai + English LLM

0*

App Install

browser-based UI

How We Compare

FEATURE	TRADITIONAL AV	VOSCENE
AI Control	Add-on, limited	Native, LLM-powered
Setup Time	2-4 weeks	< 24 hours (single-room)
Touch Panel	Required, expensive	Not needed (browser)
Programming	Specialist required	In-browser settings
Thai Language	Rare	Native support
Multi-protocol	Vendor-locked	Open standards
Offline Operation	Varies	Fully closed-network ready
Video Tracking	Separate hardware device	Built-in capability
Conference Integration	Custom programming	Standard integration
LINE Integration	None	Native — control + alerts



Product Overview

One device. Every protocol. Zero training.

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voscene · AI command terminal

"เปิดโปรเจคเตอร์ และหรี่ไฟห้องประชุมเหลือ 30%"
→ Voscene AI parsed 2 commands
✓ Projector ON · via PJLink
✓ DMX Lighting → 30%

Done in 1.2s · Thai / English · text or voice

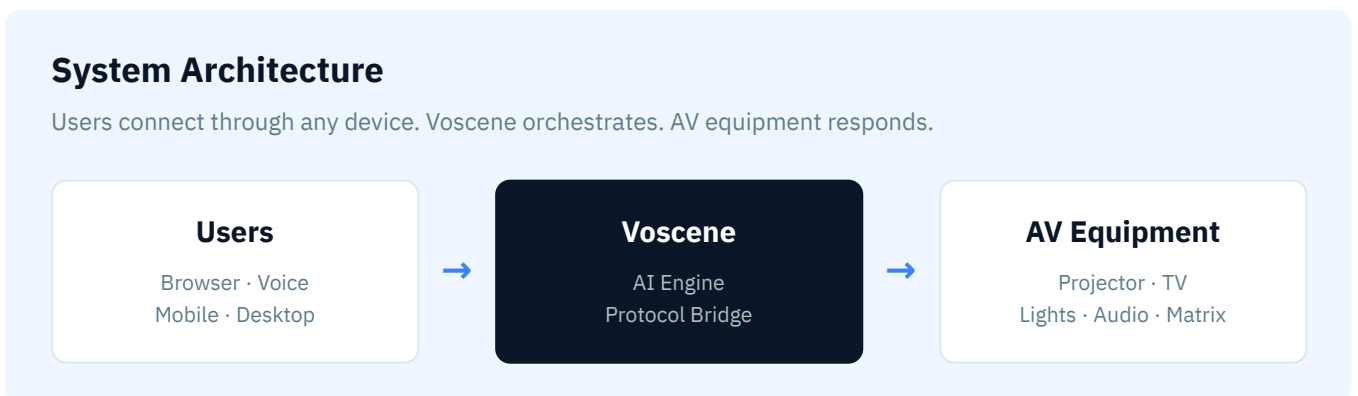
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A AI-First Design
 Type or speak in natural Thai or English. LLM converts to device commands automatically.
Customer brings own AI subscription – choose your preferred provider and model.

Z Zero Installation
 Open browser, enter IP, control everything. No software install, runs on any device with a modern web browser.

R Real-time Multi-user
 Multiple devices can open the UI simultaneously. Changes sync instantly across all clients via WebSocket.

M Multi-Protocol
 Industry-standard protocols control any device from any brand. Not vendor-locked – extensible architecture.





Core Features

Seventeen integrated control modules. One unified interface.

<p>A AI Agent Controller LLM parses natural Thai / English by text or voice. Multi-action chaining — one command runs many devices.</p> <p>Thai NLP Multi-cmd</p>	<p>S Scene Control Four main scenes, fully configurable by the technician. One-tap recall for end-users.</p> <p>4 Scenes One-tap</p>	<p>M Video Matrix HDMI matrix control over LAN. 8×8 by default, scaling from 4×4 up to 32×32 depending on the selected device driver. Multi-brand support.</p> <p>LAN Scalable</p>
<p>J Audio Control Volume slider with presets, mute / pause, VU meter, Feedback Destroyer (12 notch filters).</p> <p>VU Meter Anti-Feedback</p>	<p>P Projector Control All PJLink-compatible projectors (5+ major brands). Power, input, lamp hours. MD5 auth supported.</p> <p>PJLink MD5 auth</p>	<p>T Smart TV Control Multi-brand smart TV. WebOS / Tizen / REST API. 3 ecosystems supported.</p> <p>WoL 3 ecosystems</p>
<p>L Lighting (DMX512) Dedicated tab with 4 light scenes and smooth fade transitions. 512 channels, RGB / RGBW.</p> <p>512 ch Fade</p>	<p>C PTZ Camera Control Up to 4 PTZ cameras — pan / tilt / zoom / preset recall via VISCA over IP. Compatible with industry-standard PTZ cameras.</p> <p>VISCA-IP Multi-cam</p>	<p>Auto Video Tracking Camera follows the active speaker automatically when integrated with standard discussion / conference systems. Replaces dedicated tracking hardware.</p> <p>Auto-tracking Mic-driven</p>
<p>IR Control NEW Control legacy TVs, audio receivers, and Blu-ray players with no network API. Learn and send IR codes via standard 3.5mm IR OUT, or through a network IR blaster over WiFi / LAN.</p> <p>3.5mm IR Network IR Soon</p>	<p>Conference System NEW Centrally control professional discussion microphone systems (gooseneck / desktop mic arrays) over LAN — switch individual mics on / off and manage speaking order. Ideal for boardrooms and council chambers.</p> <p>LAN Discussion mic</p>	<p>Calendar Integration NEW OAuth Device Flow pairing with cloud calendars. Auto-trigger scenes from meeting events — room becomes ready when the meeting starts.</p> <p>OAuth Auto-scene</p>
<p>Room Booking Integration NEW Connects to BSROOM, our room-booking system. Book a room for 8:00 and Voscene powers it on 5 minutes early (if idle or off) and shuts it down 5 minutes after the meeting ends (if no booking follows).</p> <p>BSROOM Auto on / off</p>	<p>Schedule Rule Engine NEW Recurring rules by weekday and HH:MM. Debounced execution. Power-saving schedules, opening-hour automation, after-hours lockdown.</p> <p>Recurring Debounced</p>	<p>Multi-Room Dashboard NEW Federated control across up to 20 rooms. Proxy commands from a single pane of glass — central monitoring for campuses and hotels.</p> <p>20 rooms Federated</p>
<p>Video Conferencing Room Control NEW Control video-conferencing room systems over LAN. Join or leave a meeting, mute, and switch screen layout — triggered by a scene button or a voice / text command, no separate remote needed.</p> <p>LAN Join / Layout</p>	<p>PA Announcement COMING SOON Multi-room PA via Network (RTP / UDP Multicast). Zone control. Emergency broadcast.</p> <p>Multi-room Roadmap</p>	



Built for Operators

Beyond device control — a full platform for security, monitoring, and serviceability.

2

Two-Tier PIN Security

Separate User and Technician PINs. Control panel and all APIs locked behind login.

Auth Rate-limited

Lockout

B

In-Browser Settings

Technicians configure device IPs, I/O names, scenes from the settings page — no SSH, no code.

Tech UI Zero-code

D

Device Health Monitor

Live online / offline status for every device. The UI always reflects real equipment state.

Real-time Polling

S

Simple Mode

A big-button screen for everyday users — power, source, volume — separate from technician UI.

Big buttons Easy

R

Secure Remote Support

On-demand encrypted tunnel for technician remote service. Customer-controlled.

Encrypted Auto-expire

O

Offline-Capable

Runs fully on a closed network with no internet. All assets bundled on-device.

Air-gap PWA

L

Screen Lock & Backup

Lock the panel against accidental touches. One-click config backup and restore.

Lock Backup

T

Tiered Packaging

Feature modules (AI, Remote Service) enable per package. Sell Base, AI, or Full from one build.

Modular Editions

NEW

API Keys (X-API-Key)

Fine-grained machine authentication. Per-key role, individually revocable — built for integrations and automation.

X-API-Key Per-key role



OTA Software Update

NEW

Git pull + container rebuild + auto-rollback. Update notifications pushed to LINE — no on-site visits.

Auto-rollback LINE notify



Encrypted Auto-Backup

NEW

Automatic AES-128 Fernet backups of config and scenes. Store on-device (Pi / CM) or to USB — ideal for closed-network nodes with no cloud. One-click restore on any unit.

AES-128 USB / Local



Hardware Watchdog

NEW

External watchdog IC auto-resets the unit on kernel hang. Enterprise reliability without manual intervention.

External IC Auto-reset

NEW

Environmental Monitoring

Rack temp / humidity plus battery cell temperature sensors. Thermal safety alerts before damage occurs.

Rack temp Battery temp



Control From Anywhere

Voscene meets your team where they already are — in LINE.

LINE OFFICIAL ACCOUNT

Text to Control. Alerts in Real-time.

AI-parsed commands · instant replies · secured by HMAC + allowlist · full audit log.



Send Commands

Now available — text-based control via LINE

"Turn on the projector"

✓ Projector ON

"Dim lights to 30%"

✓ Lights dimmed

- AI-parsed Thai / English commands · instant reply
- HMAC signature verification (anti-spoof security)
- User allowlist — restrict to authorized senders
- Accept toggle — in-room users can pause incoming commands
- Full audit log — who sent what, when, success / fail



Get Notifications

Critical alerts pushed to LINE



Battery temp critical

Charge cutoff active · Unit A1



Rack overtemp

Server rack 38°C · check air conditioning



Projector offline

Room A · 5 min ago



New software version available

v40.2 · OTA ready



System backup OK

AES-128 auto-backup 02:00

- Equipment health alerts
- Threshold warnings
- System events log
- Customizable per channel



Open Standards

Industry-standard protocols. Any device, any brand. No vendor lock-in.



PJLink / TCP-IP

Projector control

- Power on / off · input select
- Lamp hours / status
- MD5 authentication
- 5+ major brands



WebSocket / WoL

Smart TV control

- Wake-on-LAN power on
- Input source select
- Network shutdown
- WebOS / Tizen / REST+IRCC (3 ecosystems)



VISCA-IP

PTZ Camera control

- Pan / tilt / zoom · presets
- UDP ports 52381 / 1259
- Up to 4 cameras per unit
- Industry-standard PTZ



RS232 / Telnet

Serial device control

- Video matrix switchers
- Audio mixer / amplifier
- Adjustable baud rate
- Multi-brand compatible



DMX512

Professional lighting

- Dimmer control
- RGB / RGBW LED
- 512 channels
- Scene + fade transitions



GPIO / Relay

Hardware automation

- Motorized screens
- Room lighting on / off
- AC / power control
- Failsafe bypass



Conference TCP NEW

Discussion / dome mic systems

- Dome microphone arrays
- Mic on / off · channel routing
- Auto-tracking integration
- Parliament-grade systems



Video Conf TCP NEW

Room controller API

- Join / leave meetings
- Mute · camera · layout
- Scene-triggered actions
- TCP protocol integration



1-Wire · I²C · SPI Soon

Internal sensor bus

- Digital sensors (temp / humidity)
- GPIO expanders
- OLED status displays
- Battery / rack monitoring



OAuth 2.0 Device Flow NEW

Calendar / cloud integration

- Device-pairing flow (no password)
- Cloud calendar access
- Refresh-token rotation
- Per-room credentials



RTP / UDP Multicast ROADMAP

PA System — multi-room paging audio

- Multicast PA audio
- Multi-room sync
- Emergency broadcast
- 10–20 ms latency
- Zone-based routing
- Failsafe priority



Built for Every Space

From boardrooms to ballrooms. From classrooms to control rooms.

SME SME

Modern meeting rooms without enterprise complexity. Voice commands replace touch panels.

IDEAL FOR

- ✓ Conference rooms
- ✓ Reception displays
- ✓ Training rooms

EDU Education

Classrooms, lecture halls, and auditoriums controlled by teachers without IT training.

IDEAL FOR

- ✓ Smart classrooms
- ✓ Lecture halls
- ✓ Multi-campus control

HSP Hospitality

Hotels, ballrooms, and conference centers. Per-room control with central management.

IDEAL FOR

- ✓ Ballrooms
- ✓ Hotel meeting rooms
- ✓ Banquet halls

GOV Government

Boardrooms, command centers, and briefing rooms. PA integration for emergency broadcast.

IDEAL FOR

- ✓ Boardrooms / Briefing rooms / Emergency PA
- ✓ Court rooms with auto video tracking
- ✓ Parliament-style discussion sessions



Technical Specs

Software specifications. Runs on industrial-grade control unit — full hardware specifications available on request.

SOFTWARE

Voscene OS

Backend	Python 3.11+ async (FastAPI)
Frontend	React 18 via CDN (no build step · vanilla JS)
Real-time	WebSocket bi-directional
AI Engine	LLM API BYOL · Thai NLP · customer-provided · provider-agnostic
Voice	Cloud STT · customer-provided · OpenAI-compatible + Web Speech API browser fallback
Database	SQLite (embedded · aiosqlite WAL)
Auth	Session cookie + 2-tier PIN (USER / TECH) + API Keys (X-API-Key)
API	REST + WebSocket
Browser Support	Chrome, Safari, Firefox, Edge
PWA	Installable mobile app
Updates	OTA · git pull + container rebuild + auto-rollback + LINE notify
Logging	Local SQLite + LINE notify sync
Standards	Security best practices ISO 27001 — ROADMAP

Let's Talk.

Ready to transform your AV experience?

VOICE ON SCENE

— *Speak. Control. Transform.*

— GET STARTED IN 3 STEPS

- 1 Discovery Call**
Tell us about your space and requirements (30 min)
- 2 Live Demo**
See Voscene in action with your specific use case
- 3 Pilot Deployment**
Install in one room before full rollout

— CONTACT US

COMPANY

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