

LinkVion Gateway · LinkVion SCADA · LinkVion Box

Factory to Storefront, Data Becomes a Screen

Connect to the equipment, collect the values, and build the screens that show them, all in one product. Every category ships with sample screens you can open right away.

01 Water & Wastewater

Process & Equipment

03 Solar Power

Energy & Wide-area

05 Public Lighting & Smart City

Smart City

07 Automotive Inspection

Process & Equipment

09 Vision Inspection

Process & Equipment

11 Test & Reliability

Process & Equipment

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Signage

15 Exhibition, Show & AV

Exhibition & AV

17 Events & Experiential

Marketing

Exhibition & AV

02 HVAC & Building Services

Process & Equipment

04 Dams & Wide-area Monitoring

Energy & Wide-area

06 Food Processing & HACCP

Process & Equipment

08 Production Lines & OEE

Process & Equipment

10 Access & Parking

Access & Parking

12 Control Rooms & Multi-display

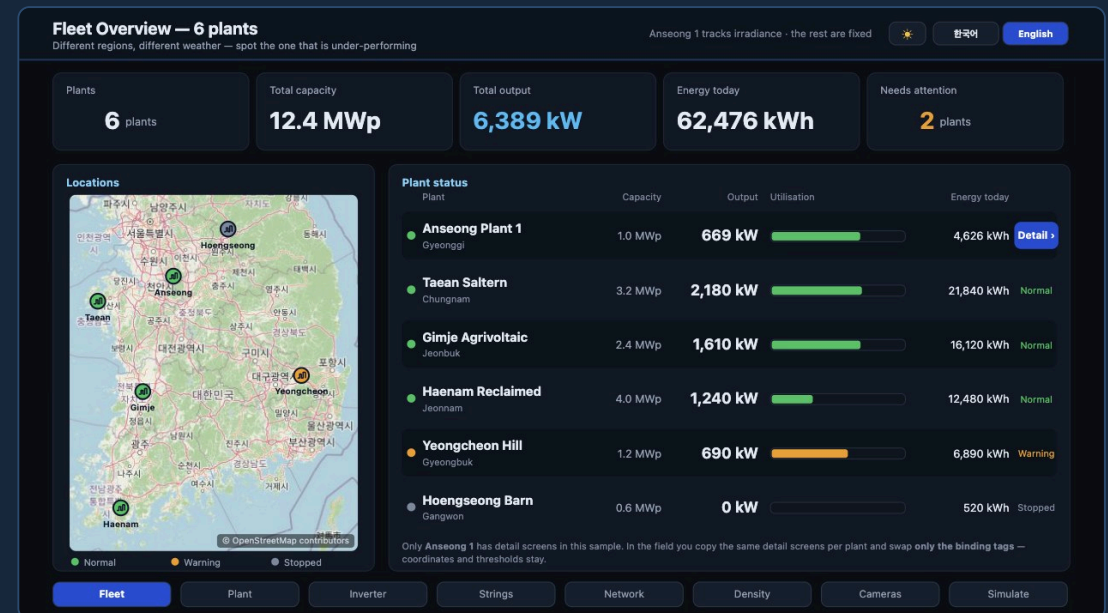
Control Room

14 Kiosk, Reception & Queue

Kiosk

16 Exhibitions & Showrooms

Exhibition & AV



LinkVion is the product name from release 0.1.0.21 (formerly MoaView). The screens in this brochure are samples that ship with the product (built-in screens and bundled projects), plus clearly marked product screens. None of them is a customer project. Each page gives the sample's name so you can open it yourself.

01 Process & Equipment

Water & Wastewater

Draw the treatment train as it is built, and read effluent quality against the permit limits.

For Operators and maintenance teams at wastewater and water treatment plants and pharmaceutical water systems

Key features

- Levels, flows and pump states move on the process diagram as the values change. Sixty-odd pipe, tank, pump and valve symbols.
- Effluent BOD, T-N, T-P and SS are shown as bars against their permit limits.
- Pharma water is put on hold when the 80 °C hold breaks, even if every value is in spec.
- A separate phone screen for the duty operator. The same address opens the layout that fits the device.

Typical setup

PLCs · instruments

Modbus · LS XGT · Mitsubishi MC

LinkVion Gateway

or LinkVion Box

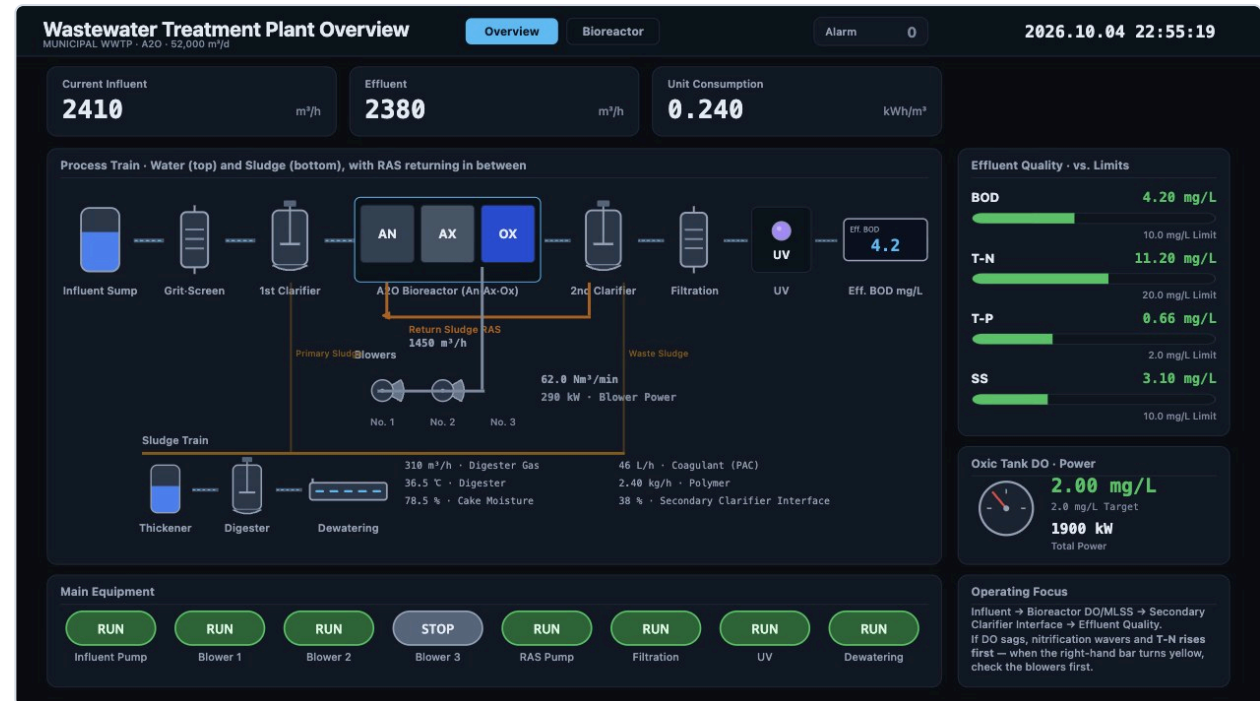
Operator screens · phone

history DB · alarms

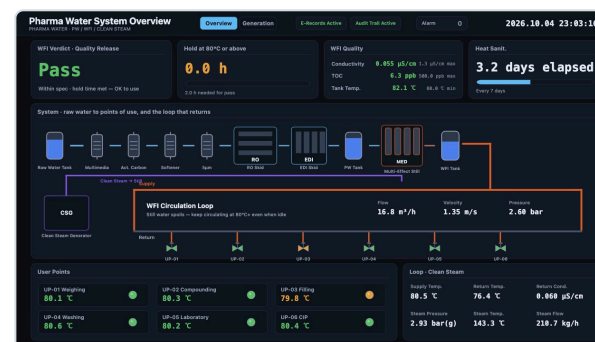
Samples

“Wastewater Treatment Plant Overview” · “Wastewater Treatment — Duty (Phone)” · “Pharmaceutical Water System (PW/WFI)” · “Booster Pump Station”

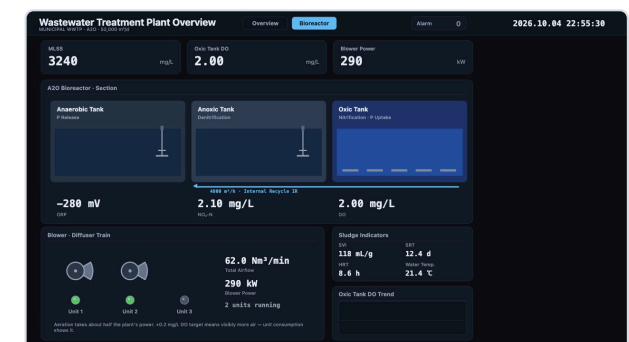
Open SCADA View → Design → Samples and search for the title.



Wastewater treatment overview: water and sludge lines, effluent quality



Pharma water PW/WFI



Bioreactor detail

02 Process & Equipment

HVAC & Building Services

See the state and efficiency (COP) of heating, cooling and air handling on one screen.

For Building and plant facility managers, ground source heat pump installers, HVAC controls contractors

Key features

- The ground source system recolors its piping by heating or cooling mode, with lift, COP and the annual heat balance alongside.
- Several air handlers on one overview, plus a detail page each: damper position, filter pressure drop, chilled water valve.
- Run and stop commands go to the PLC only after a confirmation dialog.
- Alarms appear on screen and can also go out by email.

Typical setup

Controllers · energy meters

LS XGT · Modbus · BACnet/IP

LinkVion Gateway

Facility screens · phone

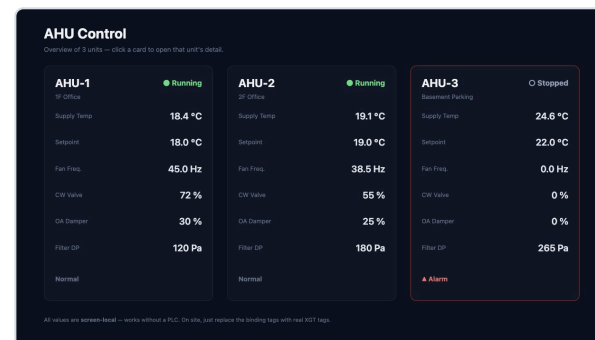
history · reports

Samples

“Ground Source Heat Pump Monitoring” · “Three AHUs (LS XGT)”
Open SCADA View → Design → Samples and search for the title.



Ground source heat pump: ground loop and building loop



Three AHUs (LS XGT)



Heat pump: COP and lift

03 Energy & Wide-area

Solar Power

Start at the plant overview and drill down to inverters and strings, all in one project.

For Solar plant owners, O&M contractors, EPC installers

Key features

- The overview shows output, energy today and the number of plants needing attention.
- Drill down to the single-line diagram and weather, inverters (4 MPPT channels) and 24 strings.
- Map points and the heat map are drawn from database queries. A four-way camera view sits in the same screen set.
- Eight control-room screens and three phone screens read the same tags. Switch between Korean and English.

Typical setup

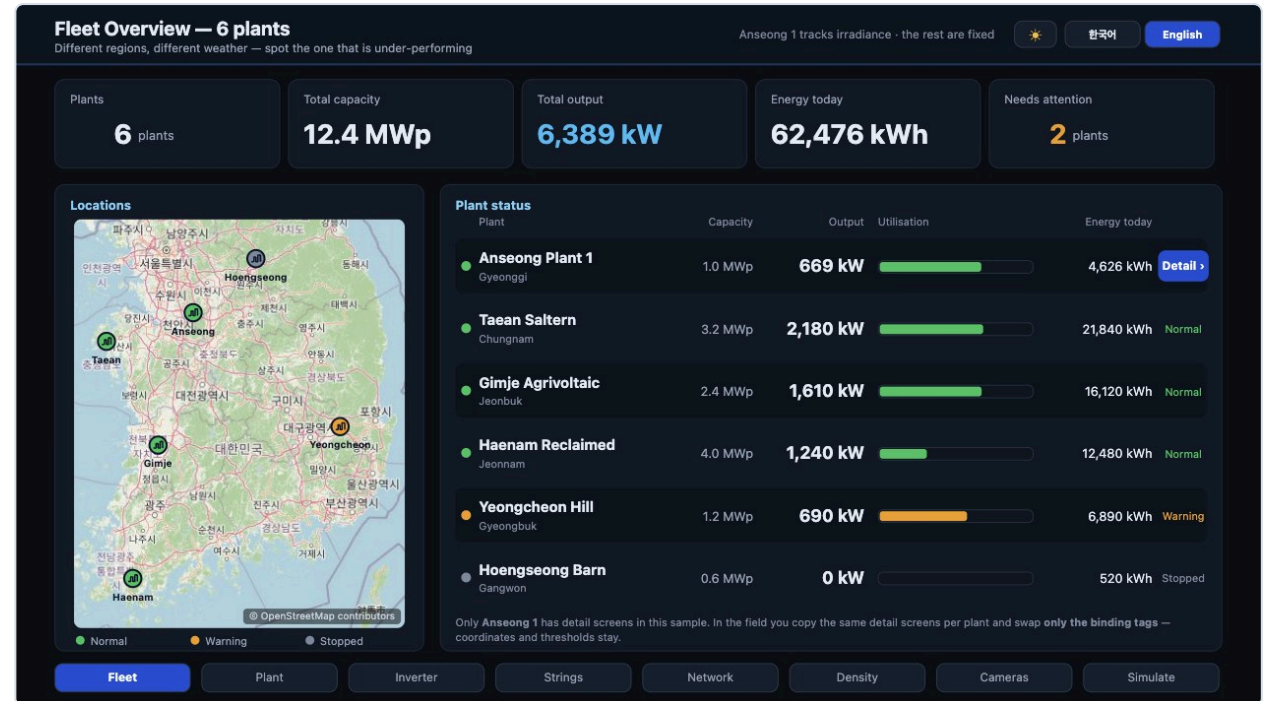
Inverters · weather station meters · Modbus etc.

LinkVion Box on site or LinkVion Gateway

Control room · field phone history DB · cameras

Samples

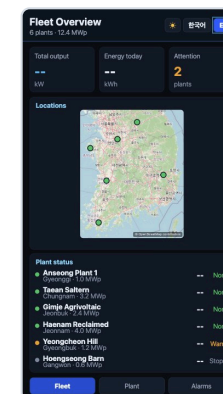
“Solar Power Plant Monitoring” · “Solar Power Plant Monitoring — Field (Tag-bound)” · “Solar Power Plant — Mobile (Portrait)”
Open SCADA View → Design → Samples and search for the title.



Solar power plant: fleet overview and map



Plant detail: single line, weather



Phone screen

04 Energy & Wide-area

Dams & Wide-area Monitoring

Place observation points on a map and see water level and rainfall stages by color.

For Water resource and river authorities, reservoir and water tank networks, municipal situation rooms

Key features

- Observation points sit on a map by latitude and longitude, and turn normal, caution or alarm color at their thresholds.
- The alarm stage is judged from the reservoir level, with the point list and trends alongside.
- CCTV video plays in the same screen set.
- Gate opening is shown as a gauge and bar. Opening commands are written after confirmation, and jog buttons work too.

Typical setup

Level and rain gauges

gate panels · CCTV

LinkVion Gateway

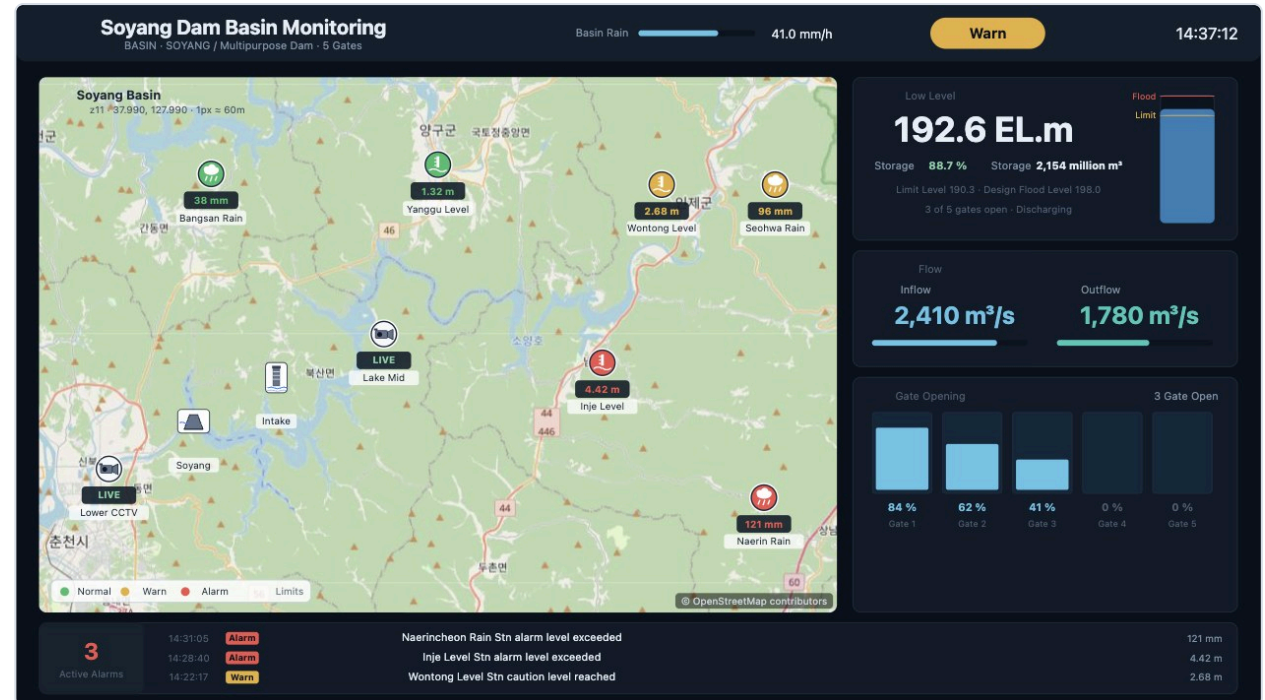
Situation room map

video · alarms

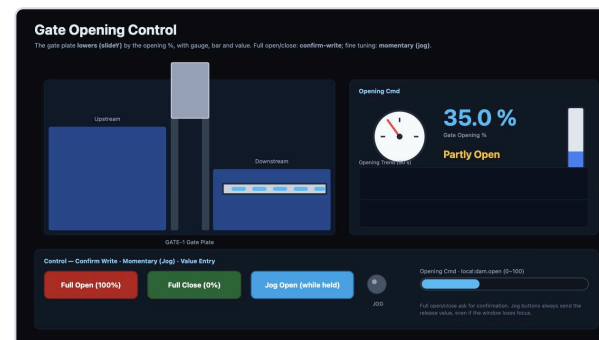
Samples

“Soyang Dam Basin Monitoring” · “Sluice Gate Control”

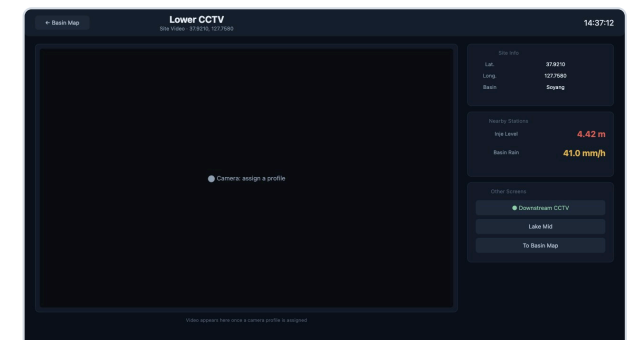
Open SCADA View → Design → Samples and search for the title.



Soyang dam basin: ten observation points and alarm stage



Sluice gate control



Downstream CCTV screen

05 Smart City

Public Lighting & Smart City

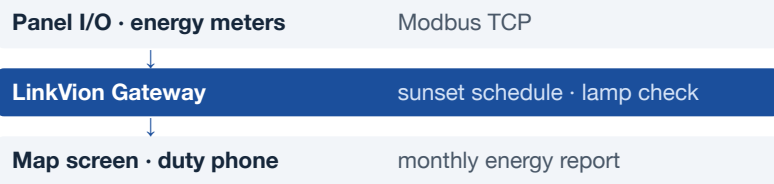
Switch street, park and landscape lighting with the sunset, and catch failed lamps from circuit current.

For Municipal landscape lighting and night tourism projects, lighting contractors' maintenance, parks and promenades

Key features

- Sunset and sunrise from latitude and longitude (no internet). Late-night cut, event extension, forced on or off.
- Current below 70 % of the expected value flags a suspected lamp failure. Door, leakage and contactor alarms too.
- A duty phone shows zone cards and alarms. A monthly report gives kWh and lit hours per zone.
- Color lighting can run alongside over Art-Net or SACN.

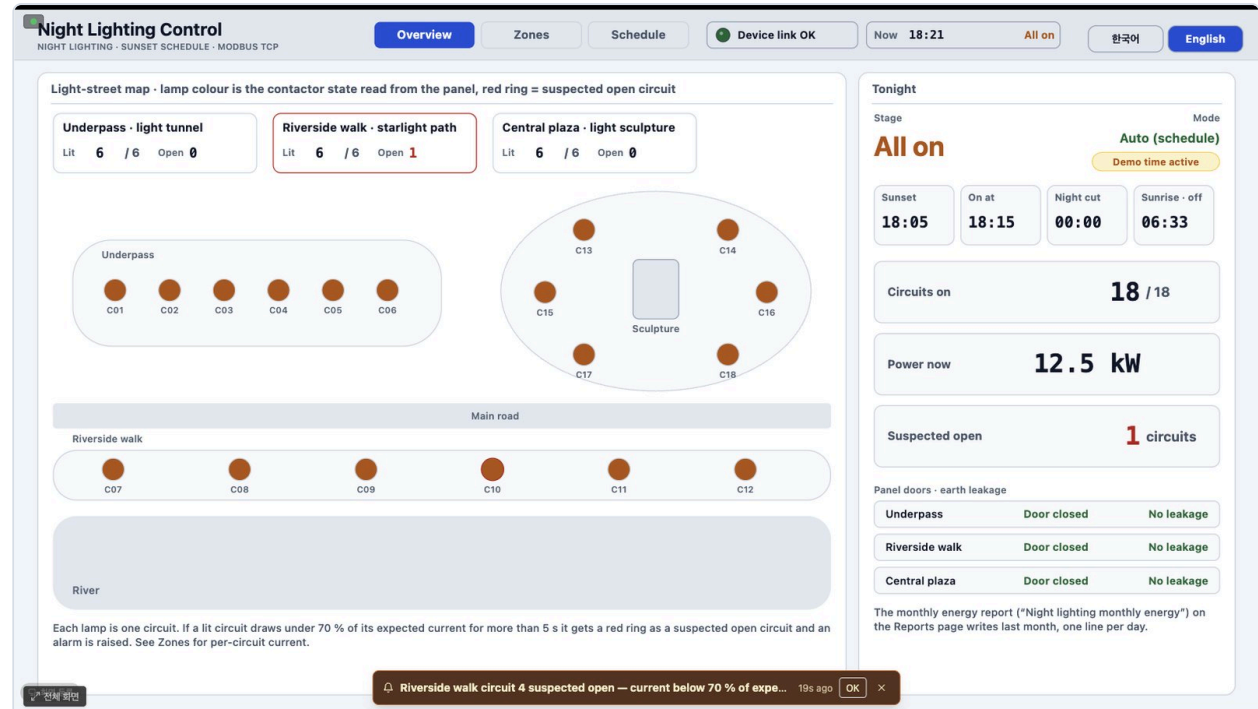
Typical setup



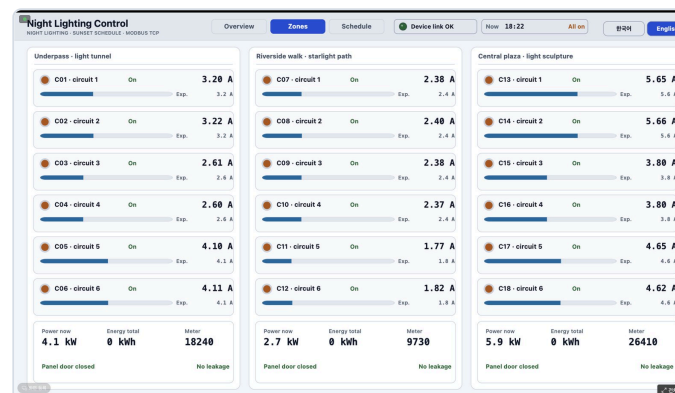
Samples

Project bundle: Night Landscape Lighting (“야간 경관 조명”)

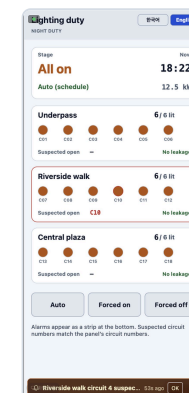
Ships with 0.1.0.11; values from a panel simulator. cafe.naver.com/moaview/49



Night landscape lighting: map of three zones, one lamp per circuit



Zone detail: current vs expected



Duty phone (portrait)

06 Process & Equipment

Food Processing & HACCP

Run the line by schedule and recipe, and keep HACCP CCP records without manual logging.

For Production and quality (HACCP) staff at food plants: bakery, coffee, ready meals and more

Key features

- When the schedule fires a recipe, its set points are written to tags. A script steps the process.
- Roasting overlays the target temperature curve and the actual one, so drift is easy to see.
- HACCP CCPs are recorded at a fixed interval, and a gap is kept as 'missing'. Holds such as 75 °C for 1 min are judged too.
- Records are sealed against editing, and corrections are new rows. Deviation actions, checklists and monthly export are built in.

Typical setup

Temperature · weight · run signals PLCs · instruments

LinkVion Gateway

history DB

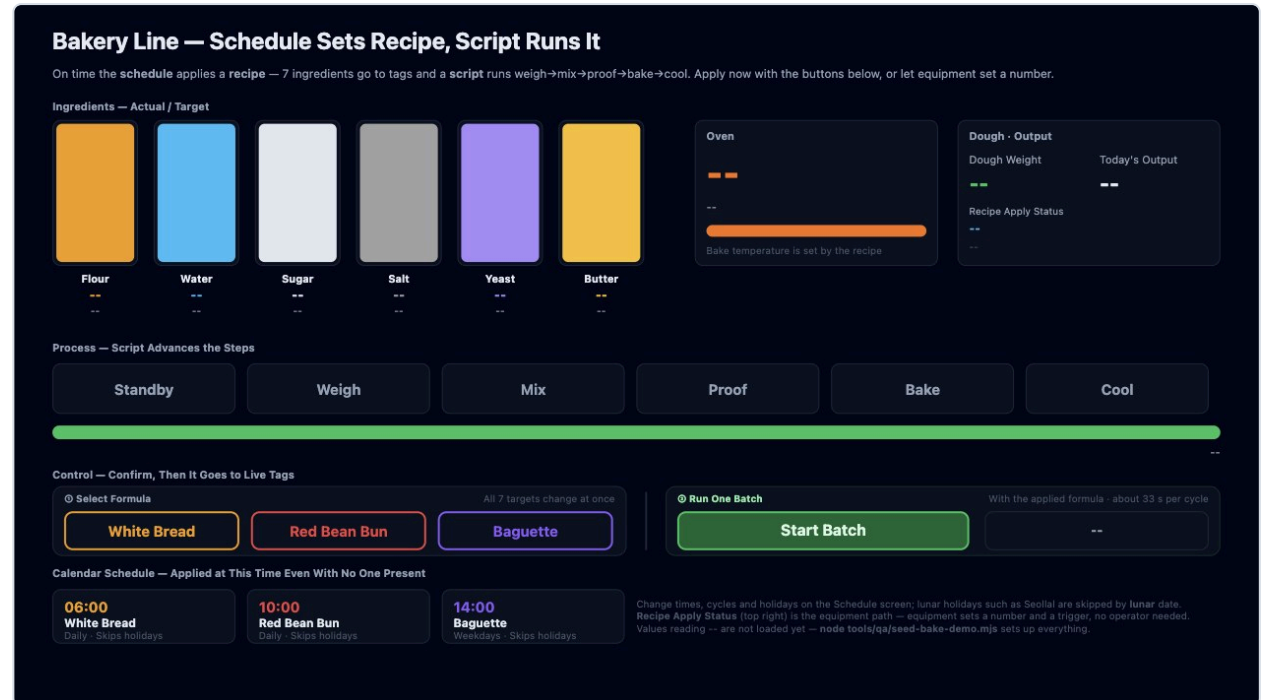
Line screens · HACCP records

reports

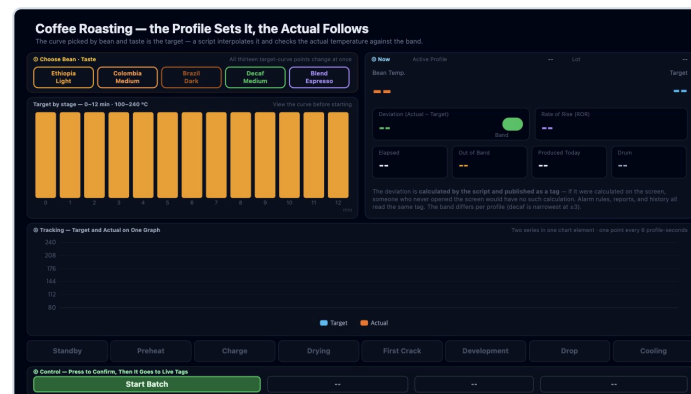
Samples

“Bakery Line — Schedule · Recipe · Script” · “Coffee Roasting — Profile Monitoring”

Open SCADA View → Design → Samples and search for the title.



Bakery line: seven ingredients, process steps, schedule



Coffee roasting profile

Note

Both screens are samples opened on their own, so some values are blank. HACCP records live in the gateway's HACCP CCP menu.

07 Process & Equipment

Automotive Inspection

Point to each result on a car drawing or a 3D model, and store it by VIN.

For Production engineering and quality at auto parts suppliers, test rig builders, line integrators

Key features

- Pass or fail for nine connectors, with a color per item and the CAN response time.
- The 3D car points at the failed connector. Click an item in the list and a highlight box appears on it.
- Verdict, outputs (buzzer, stopper) and today's first-pass yield on one screen. Results are stored with the VIN in the history DB.
- A retrofit package keeps an old tester's fixtures and wiring and replaces only the PC, I/O and software.

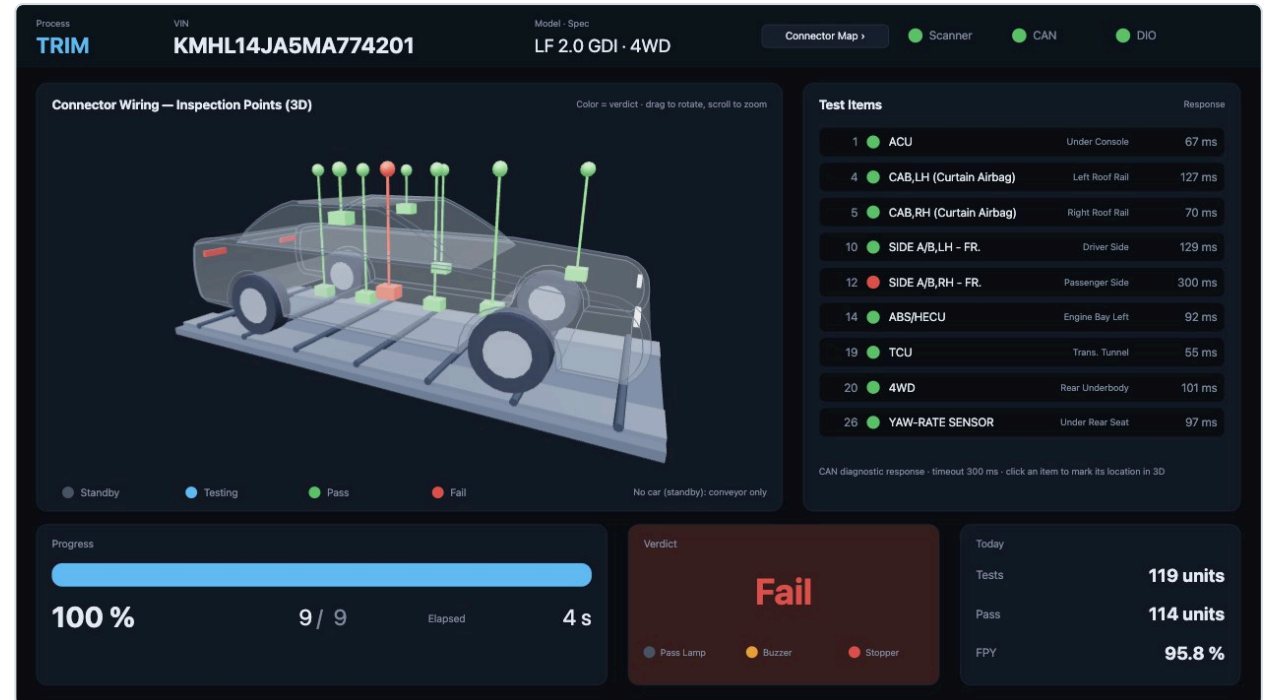
Typical setup



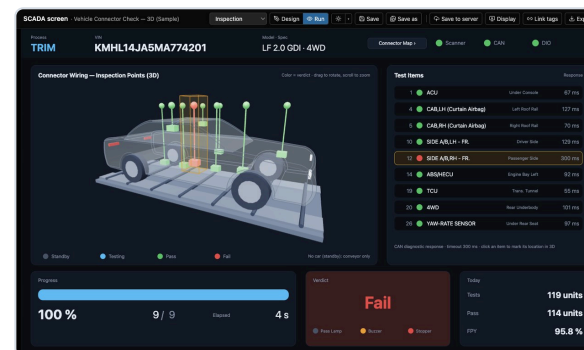
Samples

“Vehicle Connector Check — 3D (Sample)” · “Vehicle Connector Check (TRIM)”

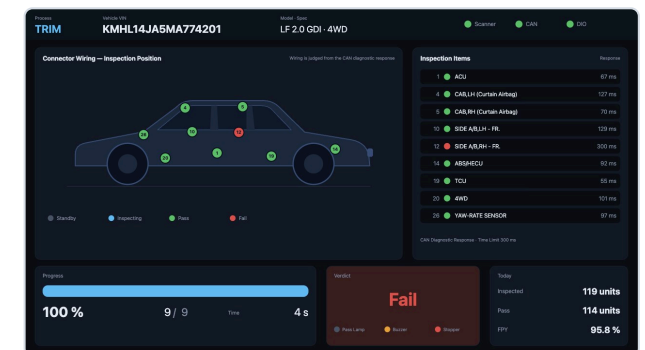
Open SCADA View → Design → Samples and search for the title.



Vehicle connector check in 3D: nine connectors in verdict colors



Selected item highlighted in 3D (page 12)



The same check in 2D

08 Process & Equipment

Production Lines & OEE

Count OEE and downtime reasons from a few PLC signals.

For Production and maintenance managers, smart factory projects

Key features

- OEE is counted from PLC tags such as the run signal and part count. Shifts, breaks and downtime reason codes are configurable.
- Machine cards, period trends, the stop list and a reason Pareto all cover the same period.
- Periods that were not measured show '—', not zero.
- The analytics screen shows FFT, vibration diagnosis and a health index from waveforms. Machine states can color a 3D model.

Typical setup

PLC run · count · reject · reason

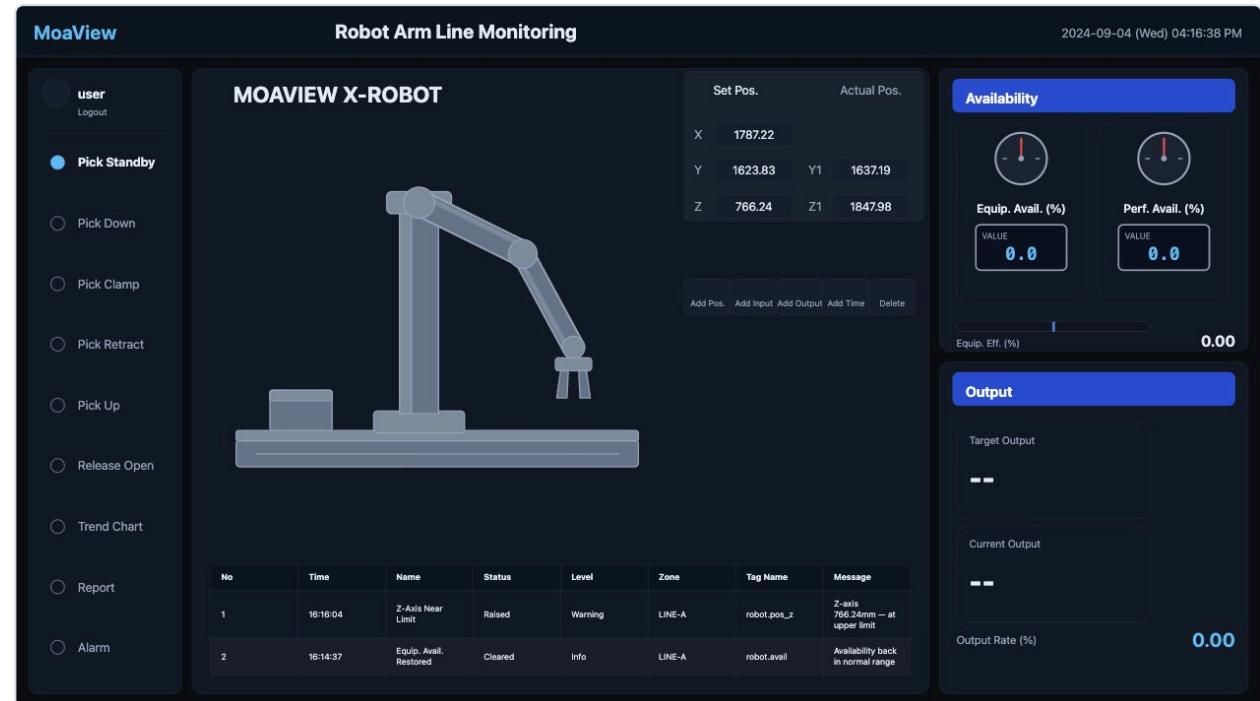
LinkVion Gateway OEE · analytics

Line screens · KPI boards reports

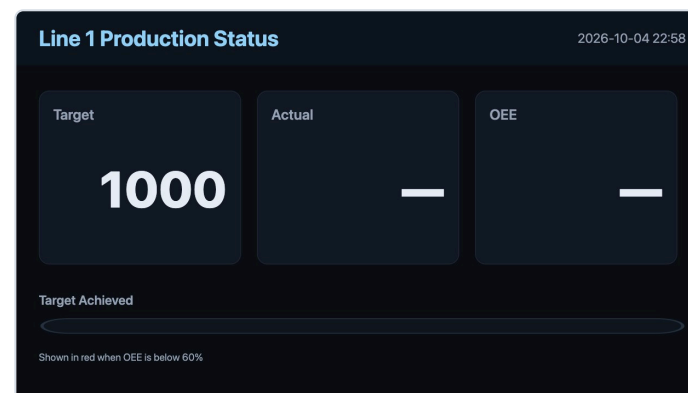
Samples

“Robot Arm Line — 3D Model” · “Production KPI”

Open SCADA View → Design → Samples and search for the title.



Robot arm line: arm position and equipment efficiency



Production KPI template

Note

The Production KPI template has no OEE tags connected here, so its values read '—'.

09 Process & Equipment

Vision Inspection

Judge camera images with an inspection recipe and send the result as tags to PLCs, alarms and screens.

For Line quality and production engineering, inspection machine builders, integrators

Key features

- A job is a camera, a recipe and a trigger. OK/NG and measured values become tags, and can go back to a PLC.
- Samples: four stations, conveyor counting, multi-beam eccentricity (0.1.0.22), person detection (0.1.0.24).
- Detection models (0.1.0.24): upload a model, bind it to a recipe, get box counts as tags. Not a safety function.
- Teaching: tune on the image, calibrate, teach patterns and OCR, check with a test set, publish.

Typical setup

Camera · folder-playback camera trigger · PLC signal

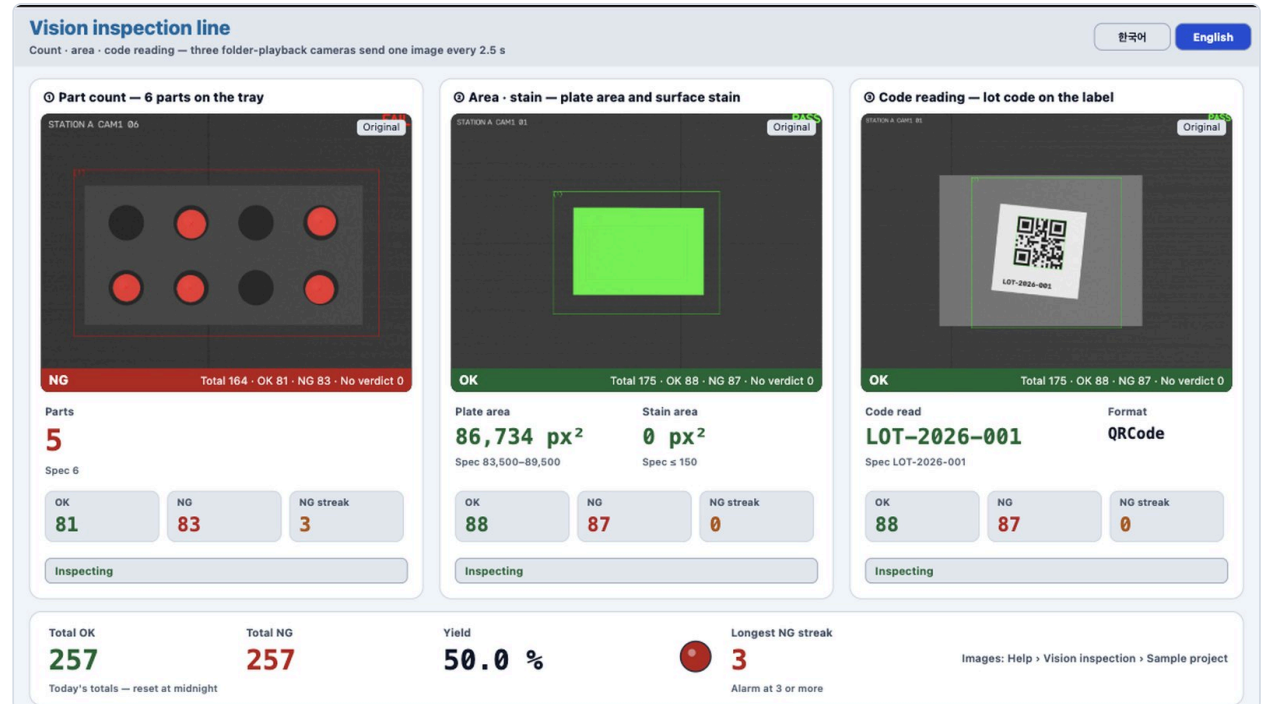
LinkVion Gateway vision inspection · teaching

Verdict screen · records PLC · alarms · reports

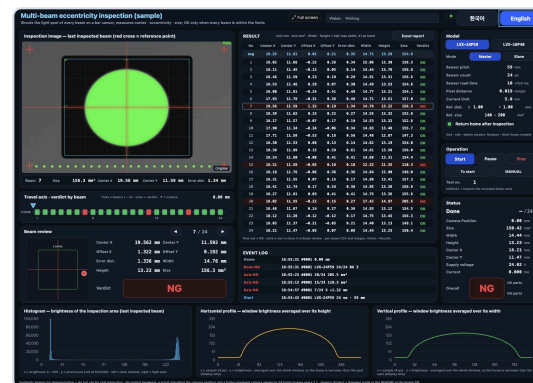
Samples

“Bundles: vision line · conveyor · eccentricity · person detection”

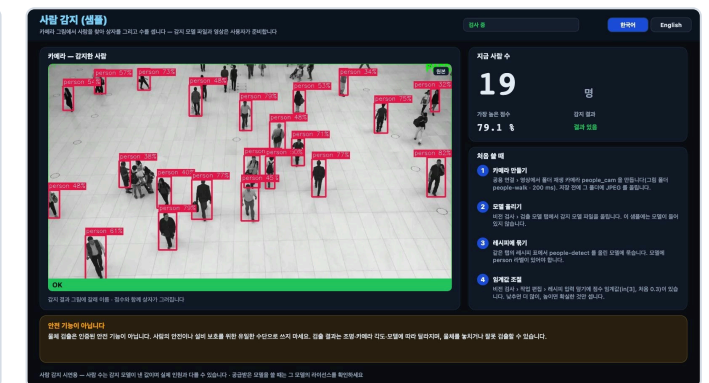
Synthetic images (person: stock footage). Licence vision (teaching: vision-teach). CM4 and Windows, not Mac; r26 for 0.1.0.24.



Vision inspection line: result and yield per station



Multi-beam eccentricity (0.1.0.23)



Person detection with a detection model (0.1.0.24, Korean UI)

10 Access & Parking

Access & Parking

Find the plate in the scene, read it, match it against the registered list, and drive the gate, alerts and totals, as a sample.

For Car park and gate operators, access control integrators

Key features

- The plate finder (0.1.0.18 on) locates the plate in the scene and reads it; a box is drawn over the image.
- A script judges registered, unregistered, read failed or no car. Registered opens the gate; the others raise an alarm.
- One loop of 28 synthetic scenes: 16 registered, 8 unregistered, 0 read failed.

Typical setup

Entrance camera (folder-playback in the sample)

LinkVion Gateway text reading · judge script

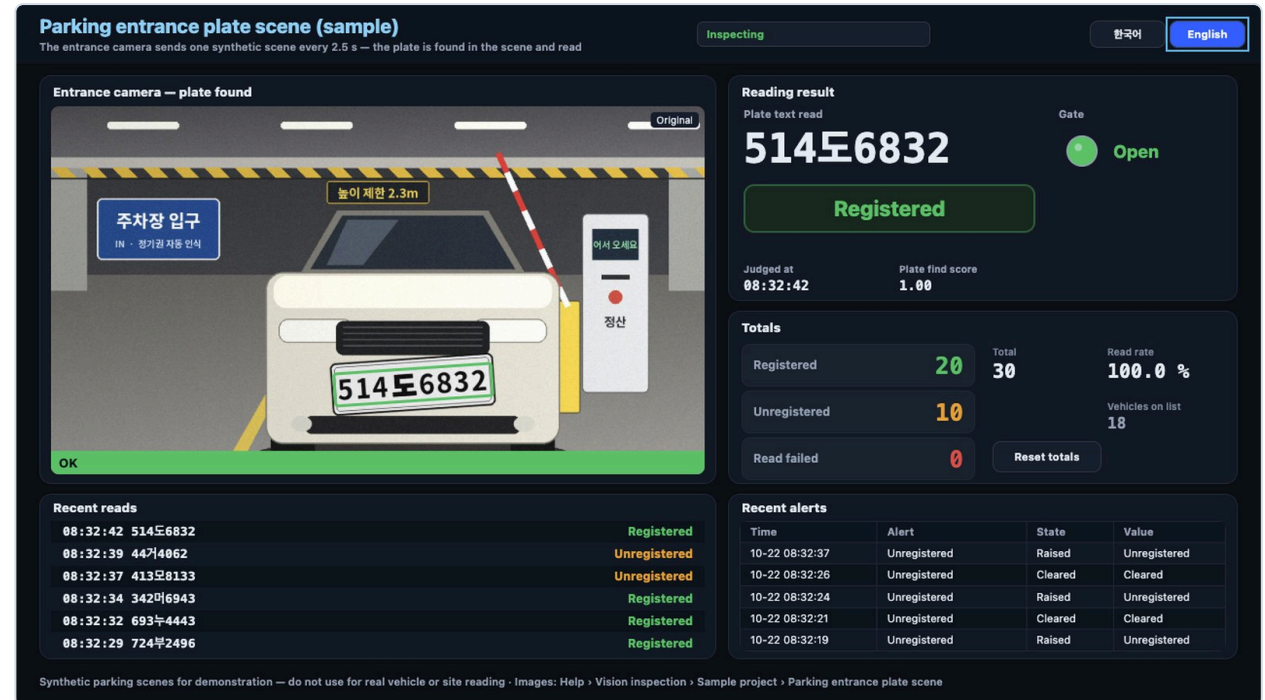
Operator screen · gate output alerts · totals

Samples

Project bundles: Parking entrance plate scene · License plate recognition

Bundled from 0.1.0.16 and 0.1.0.19. Needs the vision function (r13+ for the scene) and the licence.

Note: Scenes and plates are synthetic. Not for real vehicles or access control as is.



Parking entrance plate scene (sample)
The entrance camera sends one synthetic scene every 2.5 s — the plate is found in the scene and read

Inspecting 한국어 English

Entrance camera — plate found Original

주차장 입구
IN · 정기권 자동 인식

높이 제한 2.3m

어서 오세요

정산

514도6832

OK

Reading result
Plate text read
514도6832
Gate **Open**
Registered

Judged at 08:32:42 Plate find score 1.00

Totals

Registered	Unregistered	Read failed	Total	Read rate	Vehicles on list
20	10	0	30	100.0 %	18

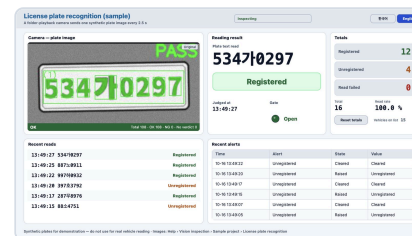
Reset totals

Recent alerts

Time	Alert	State	Value
10-22 08:32:37	Unregistered	Raised	Unregistered
10-22 08:32:26	Unregistered	Cleared	Cleared
10-22 08:32:24	Unregistered	Raised	Unregistered
10-22 08:32:21	Unregistered	Cleared	Cleared
10-22 08:32:19	Unregistered	Raised	Unregistered

Synthetic parking scenes for demonstration — do not use for real vehicle or site reading · Images: Help · Vision inspection · Sample project · Parking entrance plate scene

Parking entrance scene: found plate box, registered, gate open (0.1.0.21)



License plate recognition (sample)
2.0 (0.1.0.18 on) license plate recognition

Inspecting

판독 결과
534가0297
Registered
Gate Open

Judged at 10:29:27 Plate find score 1.00

Totals

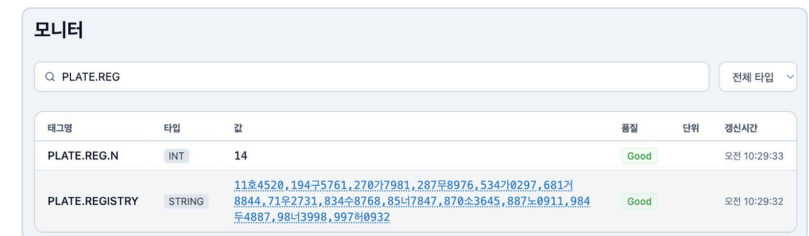
Registered	Unregistered	Read failed	Total	Read rate
12	4	0	16	100.0 %

Recent alerts

Time	Alert	State	Value
10-22 10:29:27	Registered	Cleared	Cleared
10-22 10:29:26	Unregistered	Raised	Unregistered
10-22 10:29:25	Unregistered	Cleared	Cleared
10-22 10:29:24	Unregistered	Raised	Unregistered
10-22 10:29:23	Unregistered	Cleared	Cleared
10-22 10:29:22	Unregistered	Raised	Unregistered
10-22 10:29:21	Unregistered	Cleared	Cleared
10-22 10:29:20	Unregistered	Raised	Unregistered

Vehicle license for demonstration — do not use for real vehicle reading · Images: Help · Vision inspection · Sample project · License plate recognition

License plate recognition: registered



모니터

Q PLATE.REG 전체 타입

태그명	타입	값	품질	단위	경신시간
PLATE.REG.N	INT	14	Good		오전 10:29:33
PLATE.REGISTRY	STRING	1184520,19475761,270717981,28798976,53470297,68128844,7192731,83488768,8547847,87033645,88790911,984도4887,9843998,99780932	Good		오전 10:29:32

Editing the list in the monitor (Korean UI)

11 Process & Equipment

Test & Reliability

Keep cycles, states and faults of dozens of test stations on one screen, and get the test report written for you.

For Component and product reliability labs, test rig makers, test equipment on show

Key features

- Forty stations in an 8 × 5 grid: cycles, progress bar, state color and cycle time per cell.
- Fault codes (jam, over-torque, sensor) go to a history table by collection rule; the test report writes a row per hour.
- Multiplexed read: the screen writes a station number and that station's torque comes with the next poll.
- A 1920×1080 visitor board shows the running total and progress.

Typical setup

Test controller Modbus TCP · cycles · state · faults

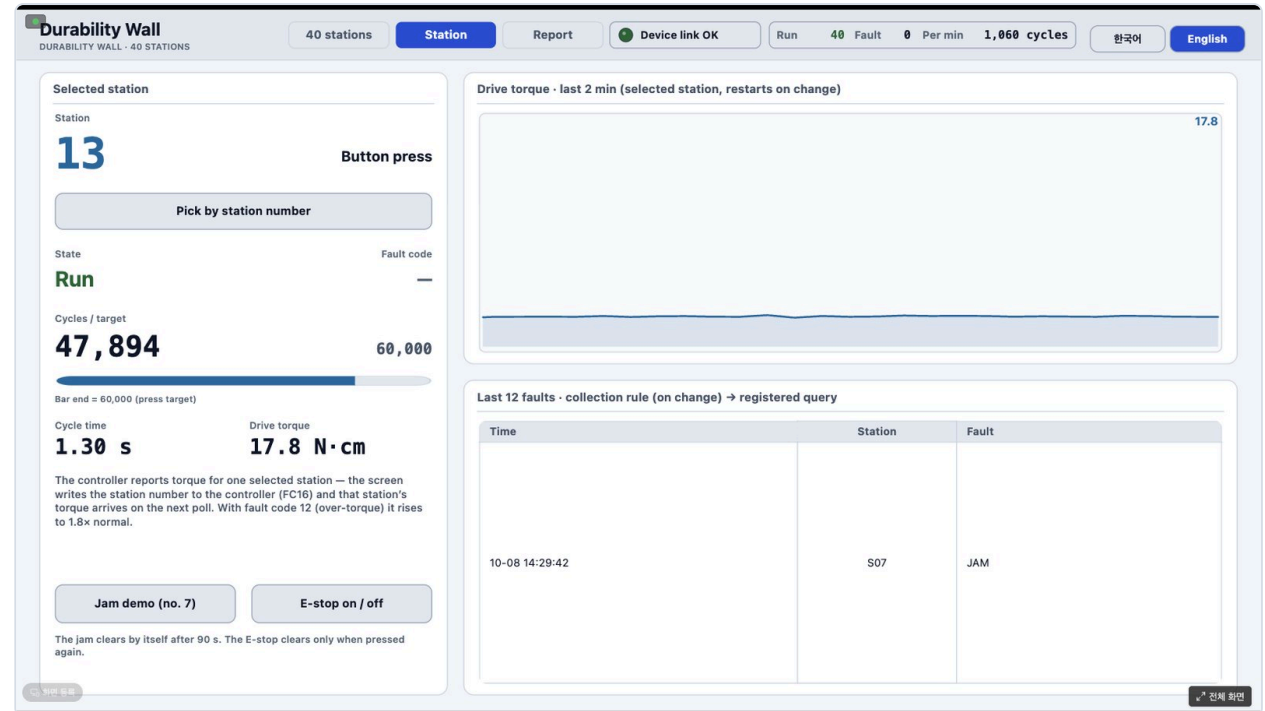
LinkVion Gateway totals · collection rules · report

Engineer screen · counter board test report

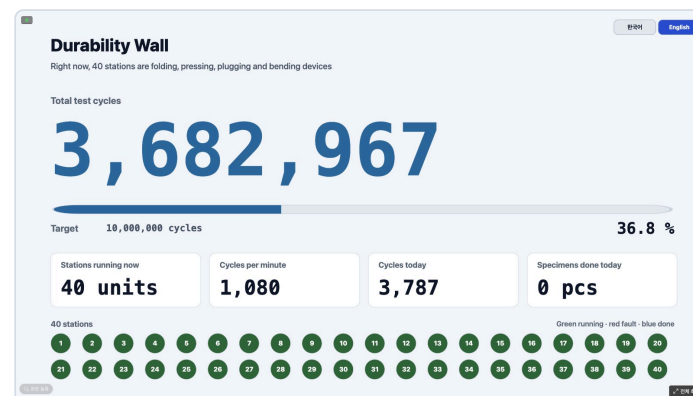
Samples

Project bundle: Durability Test Wall (“내구 시험 벽”)

Ships with 0.1.0.11, under Project → Samples. cafe.naver.com/moaview/50



Durability test wall: station detail with state, fault code and torque



Visitor counter board (1920×1080)

Note

Values come from a controller simulator inside the gateway. Not connected to a real test rig.

12 Control Room

Control Rooms & Multi-display

Tie several monitors into one project and run them as one set.

For Central control rooms, plant situation rooms, monitoring rooms

Key features

- Monitors 1, 2 and 3 get their screens in advance: overview, trends, alarms, control.
- Act in one window and the screens on the other monitors respond.
- A side menu swaps only the content frame. Master layers and screen navigation.
- Alarms keep a raise, acknowledge and clear history. User roles decide who may operate.

Typical setup

Field devices · PLCs

many protocols

LinkVion Gateway

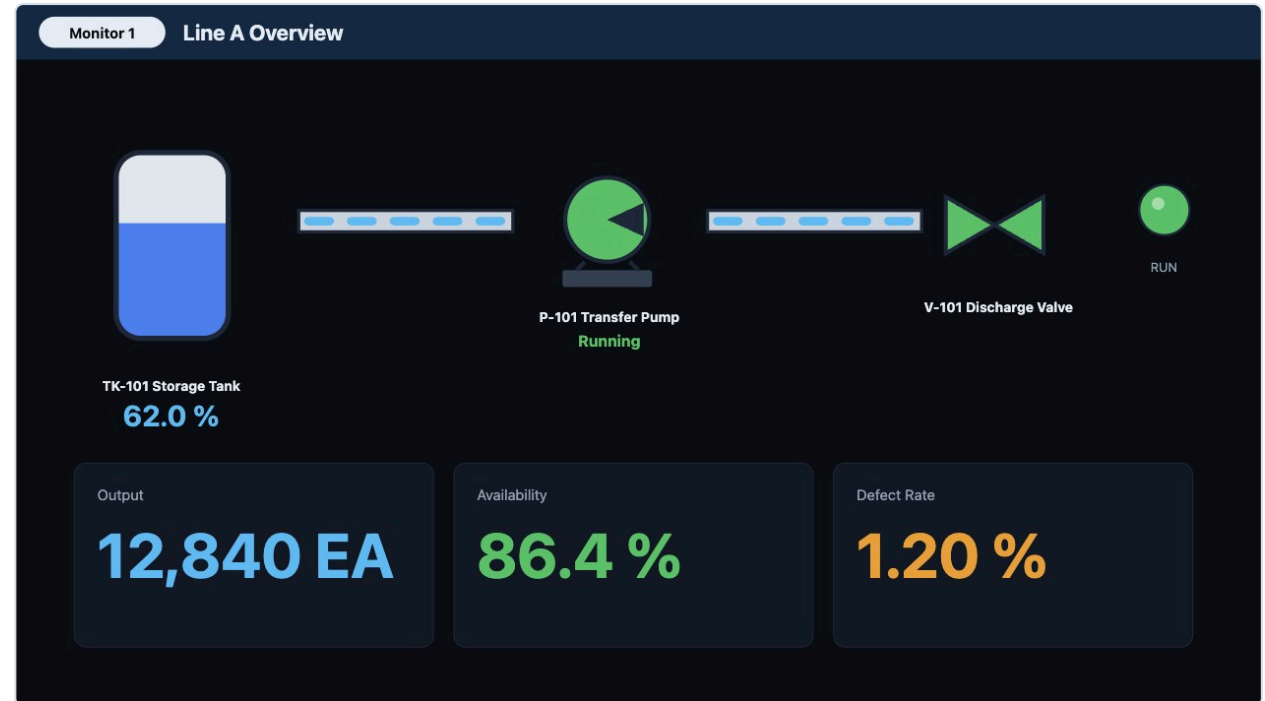
Control room PC

monitors (browser windows)

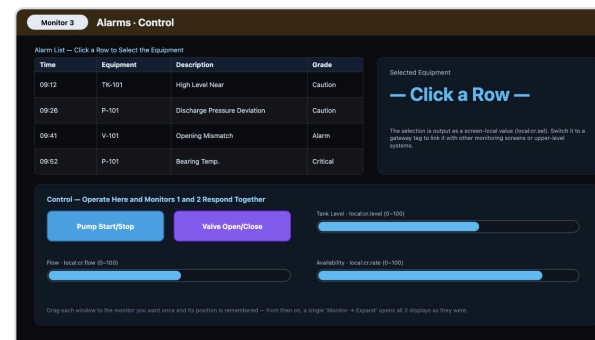
Samples

“Control Room, 3 Displays (Multi-monitor)” · “Menu + Frame Dashboard” · “Master Background + Screen Navigation” · Bundle: CCTV viewer (“CCTV 뷰어”)

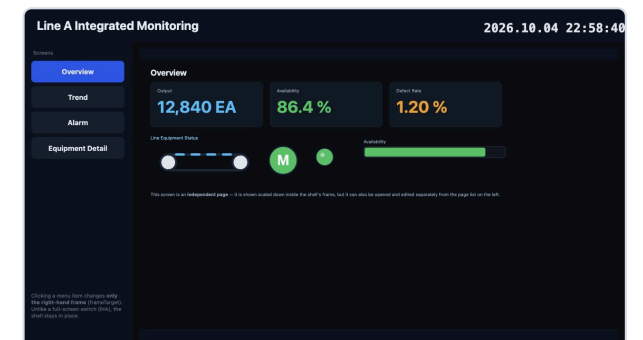
Open SCADA View → Design → Samples and search for the title.



Control room, monitor 1: line overview



Monitor 3: alarms, control



Menu + frame dashboard

13 Signage

Digital Signage

Play information screens on a schedule, and switch to an emergency screen when it matters.

For Shops and franchises, building lobbies, factory floors and canteens, transit

Key features

- Video, playlists and moving backgrounds. Portrait screens (1080×1920) are designed in portrait.
- Register displays and schedule groups by time, holidays, opening hours and tags; display power too.
- Emergency screens come up from a button, REST or a tag condition such as a fire signal. If the network drops, the schedule carries on.
- Proof-of-play CSV. Order-number calls show the number with a chime (0.1.0.23; no voice yet).

Typical setup

Video · images · tables tags (fire signal etc.)

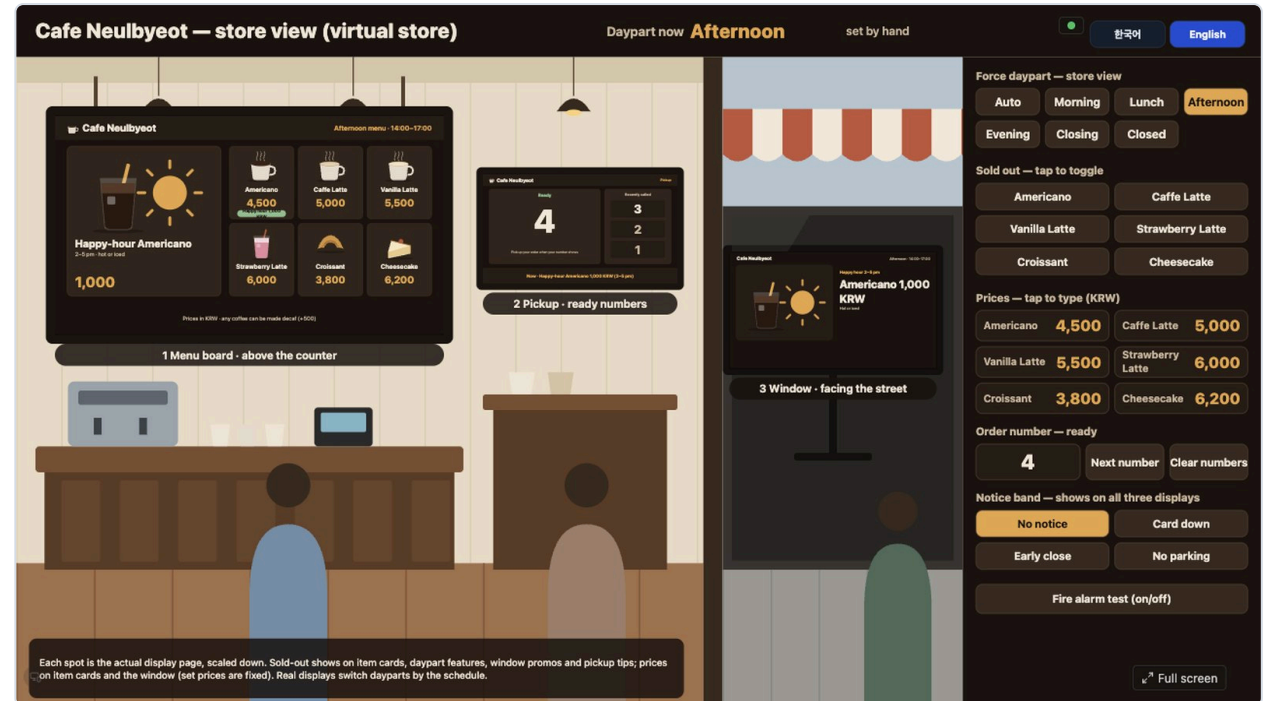
LinkVion Gateway schedule · emergency · play log

Browser displays mini PC · Raspberry Pi

Samples

“Cafe Menu Board” · “Subway In-car Information Monitor” · “Apartment Elevator Display (Portrait)” · Project bundle: lobby, canteen, plant (“링크비온 사이니지 — 로비·식당·생산동”) · Project bundle: cafe with three displays (“카페 디스플레이 3대”)

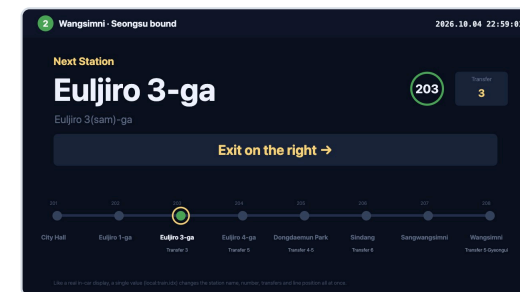
Open SCADA View → Design → Samples and search for the title.



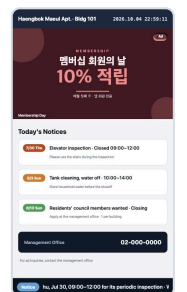
Cafe with three displays: store view (0.1.0.21)

COFFEE			
Coffee · Latte			
Menu	Menu	ICE	HOT
Americano	Americano	1,500	1,500
Caffe Latte	Caffe Latte	2,900	2,900
Vanilla Latte	Vanilla Latte	3,500	3,500
Caramel Macchiato	Caramel Macchiato	3,900	3,900
Cold Brew	Cold Brew	3,300	—
Brown Sugar Latte	Brown Sugar Latte	4,300	4,300

Cafe menu board



Subway in-car display



Elevator, portrait

14 Kiosk

Kiosk, Reception & Queue

Build reception, ordering and queue screens that answer a touch, in the screen designer.

For Clinic and optician reception, restaurant waitlists, meeting room, library and wedding hall information

Key features

- Buttons write values and move between screens. Quantities and totals are calculated on screen.
- The called number and the next in line advance on their own.
- Database query results feed tables and door-side panels directly.
- One project drives several monitors, such as a lobby overview and a panel at each door.
- Scanner input and phone-camera scanning (HTTPS) fill a cart and store receipts (sample Barcode cart, 0.1.0.24).

Typical setup

Touch monitors · kiosks

booking database

LinkVion Gateway

screens · tags · queries

Queue boards · door panels

staff screens

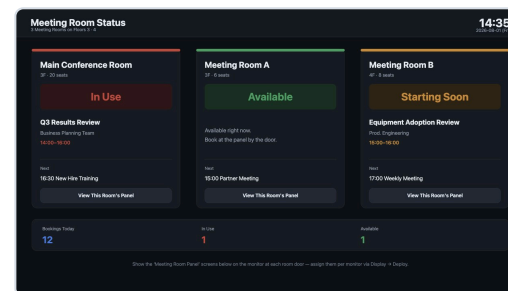
Samples

“Clinic Waiting List” · “Meeting Room Booking Panel” · “Restaurant Waitlist” · “Fast Food Ordering Kiosk” · “Wedding Hall Guide · Database” · Bundle: barcode cart (“바코드 장바구니”)

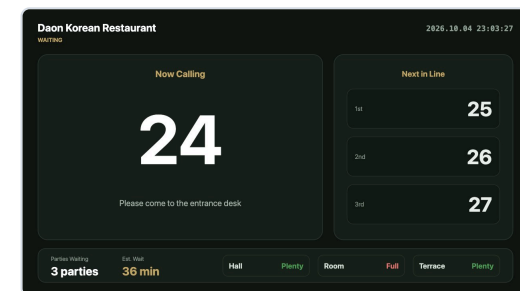
Open SCADA View → Design → Samples and search for the title.



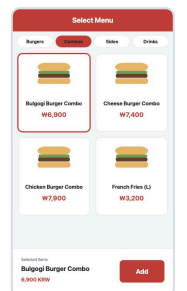
Clinic waiting list: called number and four rooms



Meeting rooms, lobby



Restaurant queue board



Ordering, portrait

15 Exhibition & AV

Exhibition, Show & AV

Projector and display power, stage lighting and media servers, handled by one gateway.

For Technical operators of exhibitions, shows and events, AV system integrators, media art and visitor centre builders

Key features

- Power: PJLink, Wake-on-LAN, SNMP PDU, Samsung MDC and LG templates add devices at once (CSV too); SCADA power parts switch them.
- Lighting: Art-Net 4 and sACN (E1.31) at 44 Hz, patch, scenes, fades, cues, master, blackout, console input, DMX monitor.
- OSC: exchange messages with media servers, bind addresses to tags, send cues with osc().
- Measured on CM4: Art-Net frame p99 about 22.8 ms, 3.3 % CPU at 16 universes.

Typical setup

Projectors · displays · PDUs lighting nodes · media servers

LinkVion Gateway PJLink · Art-Net · sACN · OSC

Operator screens · cue panel

Samples

Product screens, not a sample: device bundle, lighting editor, OSC mapping

Tested against simulated devices; on-site verification with real equipment is planned. No sACN input or ArtSync yet.

Nodes 1

Output 44 Hz

Scene 1

Master 100 %

☐ Blackout

Patch

Scenes

Cue list

Universe map

DMX monitor

Nodes

Save

id

Name

Fade (s)

1	개관	2	<div>Run</div>	<div></div>
2	공연	0	<div>Run</div>	<div></div>

+ Add scene

Scene 1 개관

Capture current output

Color

par1 RGBW

head1 RGBW

Pick a color for fixtures with red/green/blue (white). With a white LED, the part all three share moves to white (white color temperature varies by fixture, so this is not exact color matching).

id	Parameter	Value (0-255, blank = default)
dim1	dim (HTP)	255
par1	red (HTP)	200
par1	green (HTP)	0
par1	blue (HTP)	0
par1	white (HTP)	100
head1	pan	127.5
head1	tilt	127.5
head1	speed	0
head1	dim (HTP)	0
head1	shutter	255
head1	red	255

Lighting editor: scene table and color picker, output 44 Hz (simulated node)

SCADA power parts: projector, wake, displays, outlet

[illegible]

OSC mapping table

16 Exhibition & AV

Exhibitions & Showrooms

Run the opening and closing sequence from one button, and guard device faults and showcase climate during the day.

For Operators and facility managers of museums, science centres and corporate showrooms

Key features

- Opening runs lighting, HVAC, projectors and displays, then kiosks, waiting for answers and retrying. Closing runs in reverse.
- An automatic schedule follows the opening hours; so does signage display power.
- Alarms for lamp failure, kiosk no response, showcase humidity and temperature; a counter tracks visitors.
- A daily report keeps visitors and state per hour and compares lamp hours with the replacement mark.

Typical setup

Lighting · HVAC · projectors displays · kiosks · counters

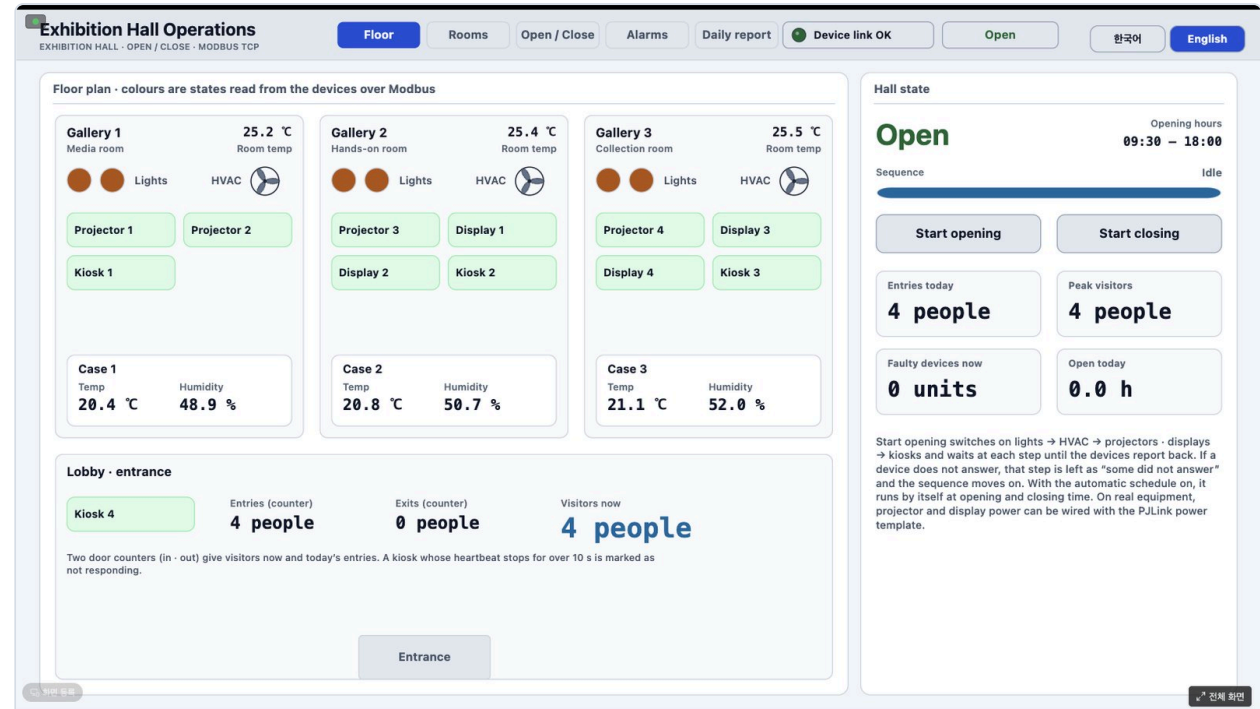
LinkVion Gateway sequence · schedule · alarms

Floor overview · daily report facility screens

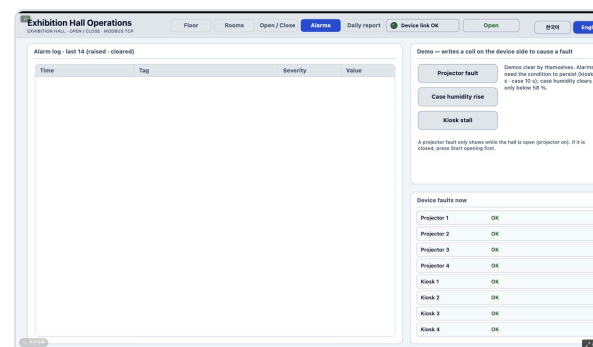
Samples

Project bundle: Exhibition Hall (“체험 전시관”)

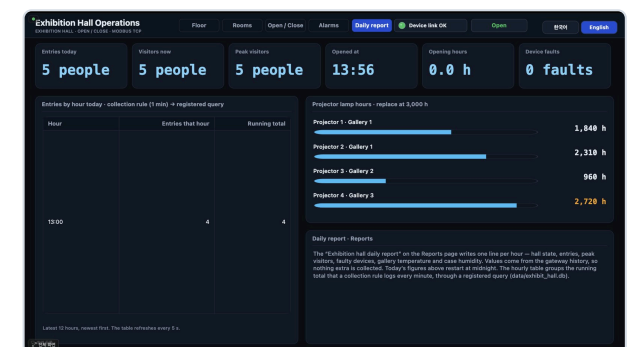
Ships with 0.1.0.11. Devices are simulators in the gateway; real ones use the PJLink and WOL templates. cafe.naver.com/moaview/48



Exhibition hall: three rooms and lobby with lighting, HVAC, device states and visitors



Alarms and events



Daily report

17 Exhibition & AV

Events & Experiential Marketing

Run an interactive exhibit with one I/O module and LinkVion, no PLC, all the way to a ranking board.

For Event and promotion agencies, pop-up booth and visitor experience operators

Key features

- A portrait kiosk (Korean keyboard) takes names and queues players.
- Game rules are a JavaScript script (100 ms tick); lamps, beacon, buzzer are I/O coils.
- Results go to the database; a ranking query shows today's top 10 on a big board.
- Boxing sample (0.1.0.20): two rings, three judges, tablet scoring; the board's bell plays on a tag signal.

Typical setup

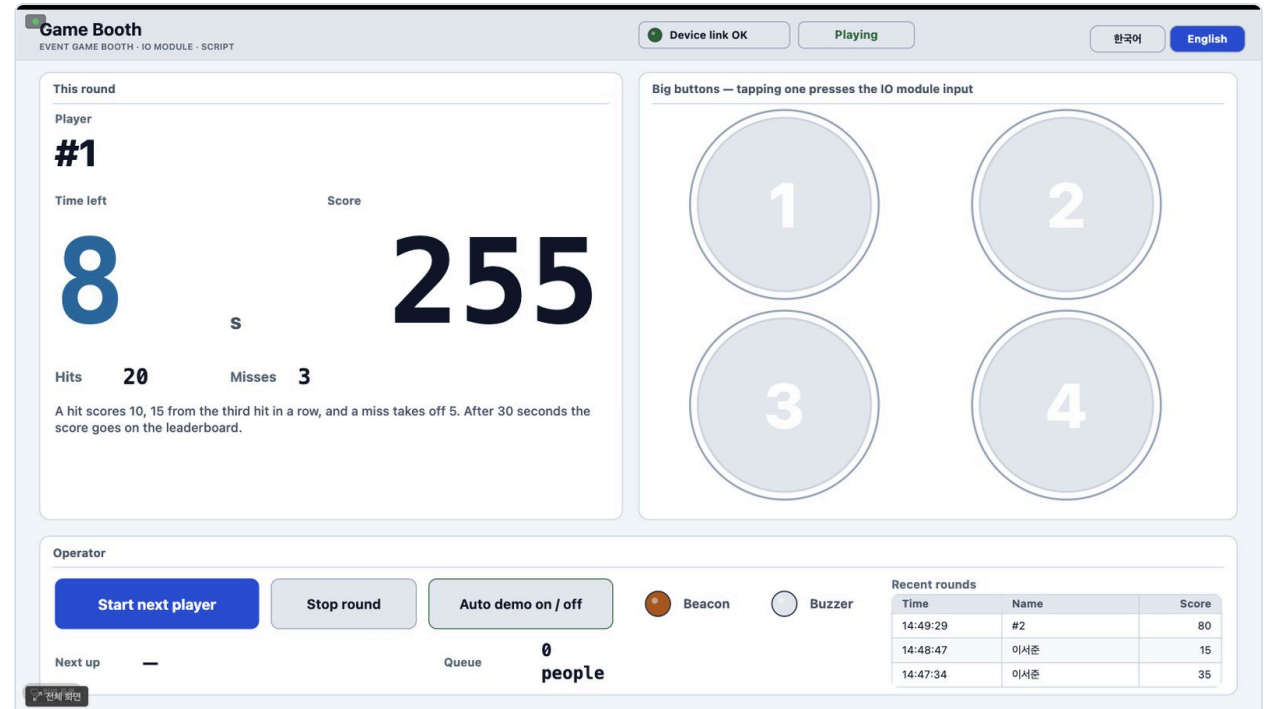
Buttons · lamps · beacon I/O module (Modbus TCP)

LinkVion Gateway game script · database

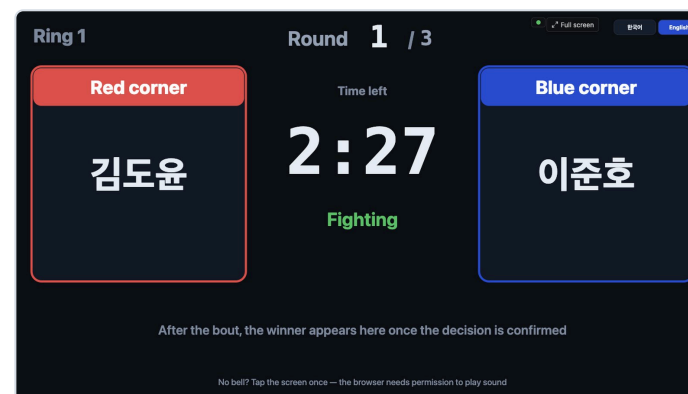
Kiosk · game screen ranking board

Samples

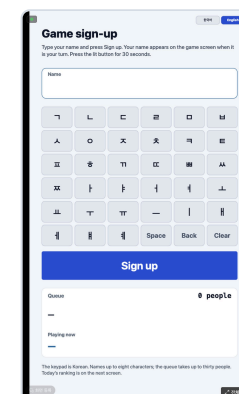
Project bundles: Event Game Booth · Boxing Scoring & Scoreboard
From 0.1.0.11 and 0.1.0.20; game booth values come from an I/O simulator.



Event game booth: four big buttons, time left, score



Boxing scoreboard: round and time left (0.1.0.20)



Registration kiosk (portrait)

3D Built-in 3D demo

3D Models: Design & Demo

Show equipment as it really looks, not as a drawing, and bind tags to the parts inside the model.

For Integrators and machine builders making inspection and line screens

Key features

- Each part of a glTF (.glb) model takes color, visibility, rotation and highlight: an amber box that keeps the verdict color.
- In Design, a live preview in the property panel lets you search parts by name and see their binding counts.
- Click a part in the preview and its name goes into the binding card. No guessing among CAD names like Mesh_042.
- The demo is a vehicle connector check: click an item row and that connector lights up in 3D.

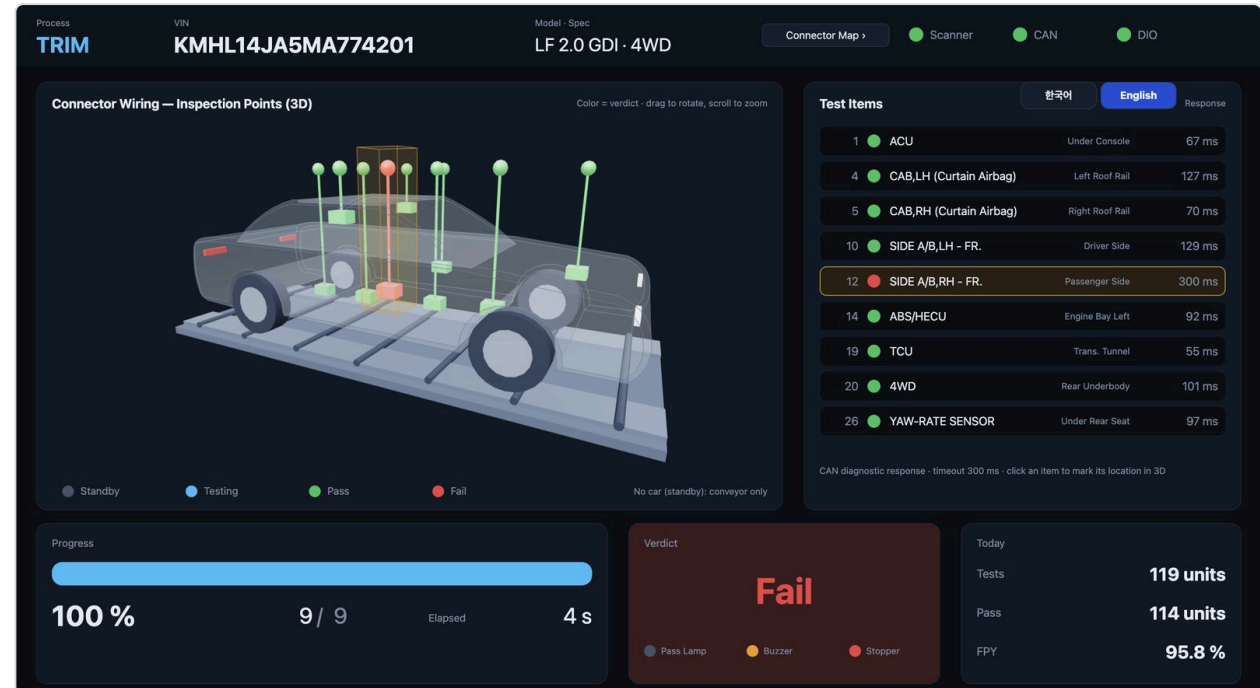
Typical setup

CAD · 3D model	glTF (.glb) · up to 5 MB advised
LinkVion SCADA Design	pick parts in the preview
Operator screen	color · visibility · rotation · highlight

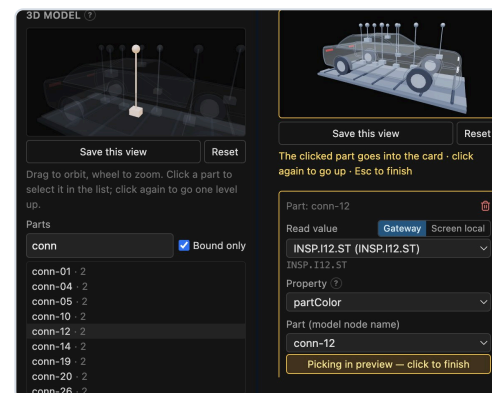
Samples

“Vehicle Connector Check — 3D (Sample)” · “Robot Arm Line — 3D Model”

Open SCADA View → Design → Samples and search for the title.



Run: clicking row 12 boxes the failed (red) connector in amber



Design: preview, part search, 'Pick in preview'

Note

The camera does not turn to the selected part by itself. Up to four live 3D views per page.

RUNTIME

Where LinkVion Runs

The same LinkVion program runs on a small industrial box or on an office PC. Screens open in a browser, wherever you are.



In a box, on site

LinkVion Box (CM4) · CM5 industrial box · small Raspberry Pi. Runs on its own, no PC.



Installed on a PC

Windows and macOS installers. Linux PCs on request.



Screens in a browser

Chrome · Edge · Safari. Nothing to install: PC, phone and tablet open the same address.

Platform	Form	Status	Notes
LinkVion Box (CM4)	Raspberry Pi CM4 · eMMC · 64-bit Linux (Debian 13) · real-time kernel	In use	Our in-house unit runs 0.1.0.24. Runs standalone without a PC, updated with signed update files. Vision is an optional package. Details on the next page.
CM5 industrial box	Raspberry Pi CM5 (checked on Waveshare IPCBOX-CM5-A)	Boots · installs	4 × RS-485 · RTC. No real-time kernel needed. The CAN port is hardware only; the gateway cannot use it yet. EtherCAT not verified.
Small Raspberry Pi	Pi 3 B · Zero 2 W (64-bit)	Checked (Zero 2 W)	Lightweight setup for collection and bridging. 32-bit-only boards (Pi 2 V1.1 and older, B+) do not work.
Linux PC (x86_64)	Desktop or industrial PC	Unverified · on request	No installer has been released yet. On request we build and test first.
Windows	Windows x64 installer	Released (beta)	Not code-signed: SmartScreen warns and Smart App Control may block it. Built without 11 plugins. From 0.1.0.17 vision is a setup component (off by default). Update by installing the new version.
Mac	Apple silicon · macOS 14 or later · notarized dmg	Released (beta)	Intel Macs are not supported. Signed update files are uploaded and checked in the app (applied with one terminal command). No vision function.

All platforms Every screen opens in a browser: design, operation and settings. Phones and tablets use the same address as the PC, with no client to install.

Status as of 2026-10-25 (CM5 and small Pi checked 2026-10-05). “In use” means it runs on our own unit, not at a customer site. The Windows build was installed and started on one Windows PC.

LINKVION BOX CM4

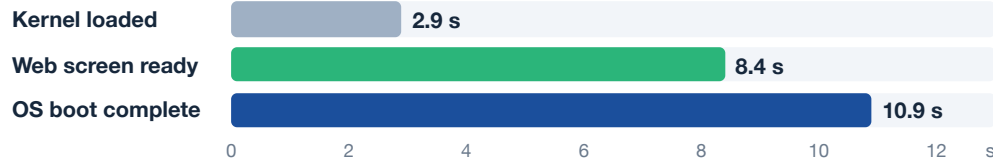
LinkVion Box (CM4)

A small box that runs on its own next to the equipment, no PC needed. It carries the same LinkVion as the PC version.

Configuration (unit from café post 26)

Carrier board	Waveshare CM4-DUAL-ETH-MINI (metal-case BOX version)
Module	Raspberry Pi CM4, 4 cores at 1.5 GHz, on-board eMMC
Network	2 × gigabit Ethernet: one for devices, one can be kept for EtherCAT
OS	64-bit Linux (Debian 13) + real-time kernel 6.6.78-rt51
Serial	RS-485 through USB adapters (FTDI · CP210x · CH341 drivers built in)

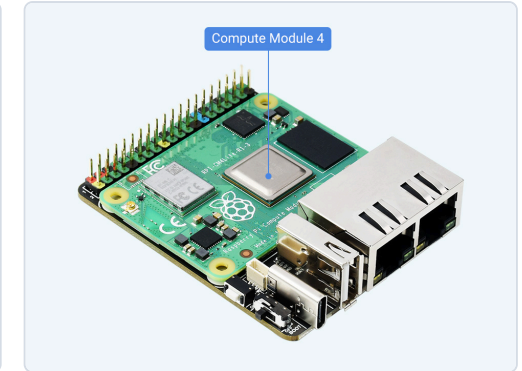
Boot time (from power on)



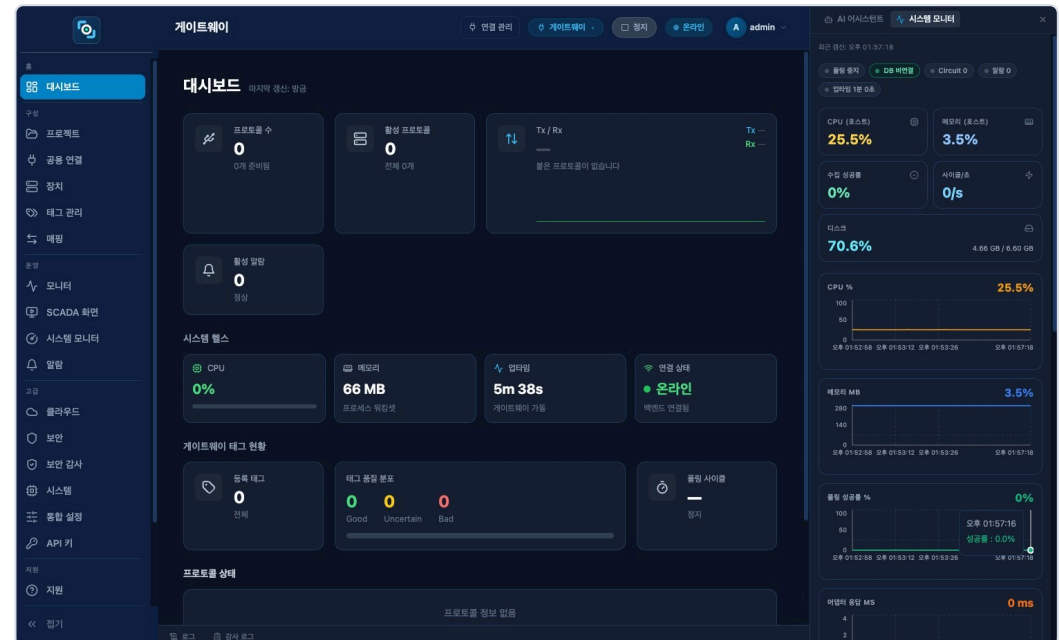
OS 10.9 s: systemd-analyze (kernel 2.9 + userspace 8.0), café post 26, 2026-08-21. Web 8.4 s: measured the same day to the first web response after trimming service dependencies (11.1 s before). The web screen opens before the OS reports boot complete. Not re-measured on later releases.

Performance · operation

- Mitsubishi MC, 10,000 words in a 16 ms cycle: CM4, Release build, loopback measurement (2026-07-15). A real PLC adds network round trips.
- Ready for an EtherCAT master (real-time kernel + dedicated port). For jitter-critical setups we recommend an Intel i210 NIC on a board with a PCIe slot.
- Updates: upload a signed update file (.acfw) in the app; it checks signature, target and hashes and keeps it. Applying it is one terminal command.
- Standalone: starts by itself as a service at power on. Login and roles are enforced, and passwords in the settings are masked on screen.



Photos: Waveshare (CM4-DUAL-ETH-MINI-BOX · board), manufacturer product photos. The LinkVion Box is this board with a CM4 and LinkVion installed.



LinkVion running on the CM4: dashboard and system monitor (host CPU, memory, disk). Our own capture from café post 26 (2026-08-21, Korean UI), taken before a project was loaded, so tags are 0.

PLATFORM

One Platform

Every category stands on the same base: equipment links, data collection, screens and records in one product.

Connectivity

40+ protocol adapters
Modbus TCP/RTU · Mitsubishi MC · LS
XGT · Siemens S7 · Omron FINS ·
EtherNet/IP · BACnet · MQTT 3.1.1 and 5
· web requests
PJLink · WOL · Art-Net · sACN · OSC ·
RTSP cameras

OPC UA

Server: publish tags as OPC UA nodes
Client: read another server's values into
tags
Certificates · trust list · users · per-node
permissions

SCADA screens

Design and run in the same place
57 built-in sample screens
Multi-monitor · phone layouts · 3D
models · cameras

Scripting & vision

Control logic in JavaScript
Test sequences · judgement · simulation
Camera image inspection · recipe
teaching (optional)

History & reports

Automatic history database
SQLite · MariaDB · InfluxDB
Reports · CSV · Excel export

Alarms & security

Raise, acknowledge, clear history
Email notification · HTTPS (8443)
Login · roles · audit log

AI assistant

Works on tags and screens through MCP
tools
Changes apply only after a person
approves
Can run on a local model

Hardware & install

LinkVion Box (CM4): runs on its own, no
PC
Windows and macOS installers
Signed update files

Start with the samples

Every screen in this brochure ships with the product. Log in to the gateway, open SCADA View → Design → Samples, search for the title given on each page and switch to Run. With the account language set to English, the screens show in English. Connecting your own equipment is something we plan together after seeing the site.

Contact

Company **LEBI**
Email **linkvion@gmail.com**
Community **cafe.naver.com/moaview (in Korean)**