THINGSTRON

Intelligent Connected Building

Intelligent Integrated Control System for School, Hotel and Art Center

The information contained in this document correspond to the facts.

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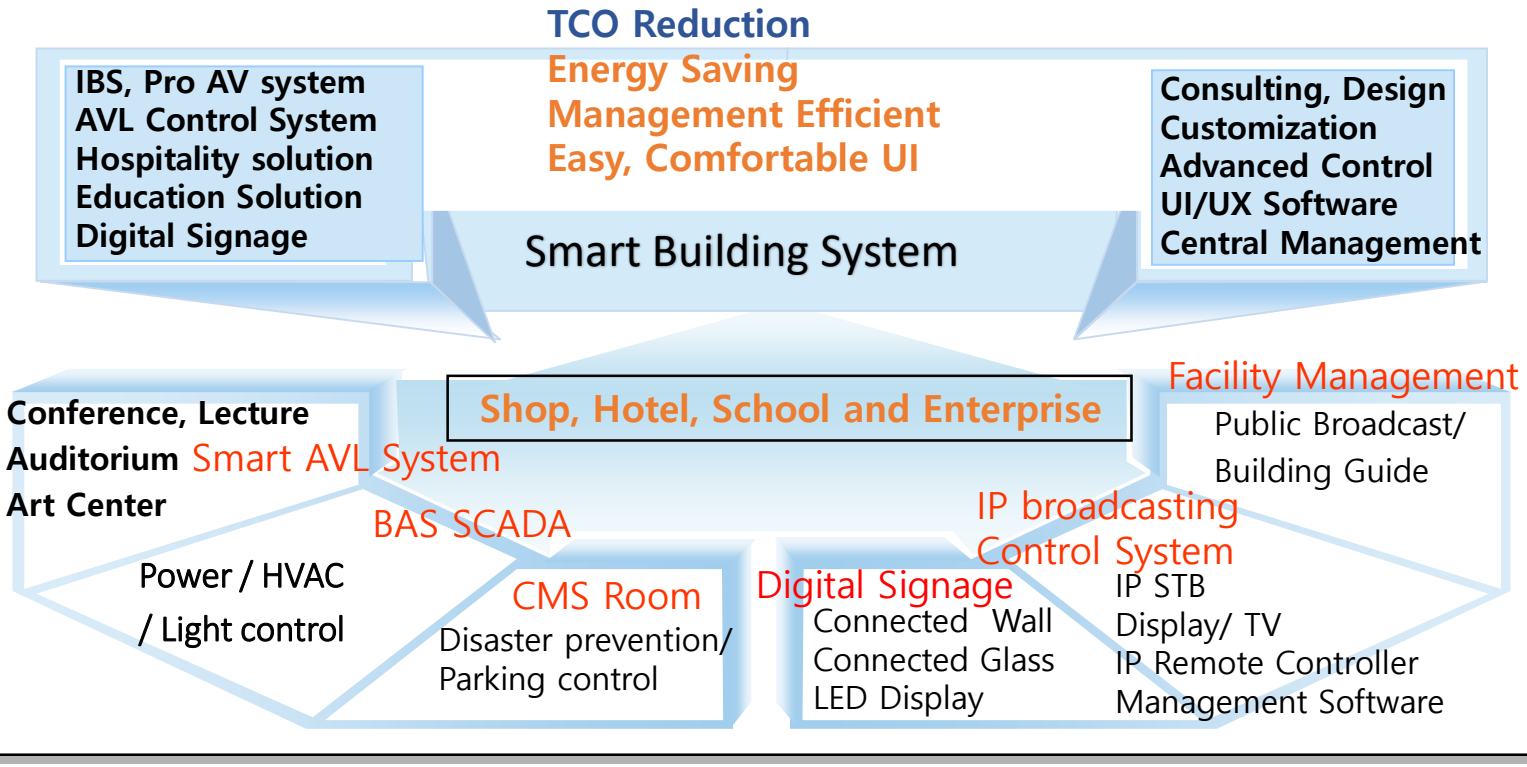
Business Outline

Intelligent Building System – Convergence Solution with SCADA and ICT
Hospitality – Smart Solution for Hotel, Resort, Villa and Education Center
Digital Signage – Connected Video Wall, Glass and LED Display
Professional AVL Control System - Audio, Video, Lighting, Shades, Power
Professional AV system - Conference, Auditorium and Acoustic Art Center



Information & Communication Division

- Integrated management of voice and data lines
- High-speed information communication network construction
- Line management by local service provider

[Integrated wiring]

(User PC) (Telephone) Outlet UTP 4P Voice/Data IDF

Display

-UTP Cat.5 25Pr
-F/O 8CORE

[Building Guide]
[Exchanger, LAN]

Voice MDF Data MDF Exchanger • Network equipment (Optical terminal)

PSTN Internet

(A telecommunications carrier)

Integrated Security Division

- Color camera installed in main entrance and security area
- Video recording and storage by digital recording device
- Security Area Access Control

Access Controller Exit Button Electric Lock Card Reader Door Security camera Matrix Switcher VCA

[Access control] [CCTV]

•Disaster Prevention Center

Access control DVR (Monitoring Monitor) (Integrated monitoring facility) SI SERVER Editing system Public Broadcasting

IB Network(BACNet/IP)

Central monitoring board Parking control Central monitoring board

Audio Video department

-Satellite ANT, Public hearing ANT

- CATV equipment
- Pro A/V , AVAutomation facility construction
- Construction of general / emergency / BGM broadcast facilities

[CATV]

Head end TV BOX TV TV Outlet Integrated cable

[Pro A/V System]

[Public Broadcasting]

Rack Interlocking receiver speaker

Building Automation Division

- Integrated BAS system construction
- Vehicle management by parking control system

BAS Network LCP

[Parking control]

[Power control][Lighting control] [Automatic machine control]

Cutting-Edge Smart Conference Rooms

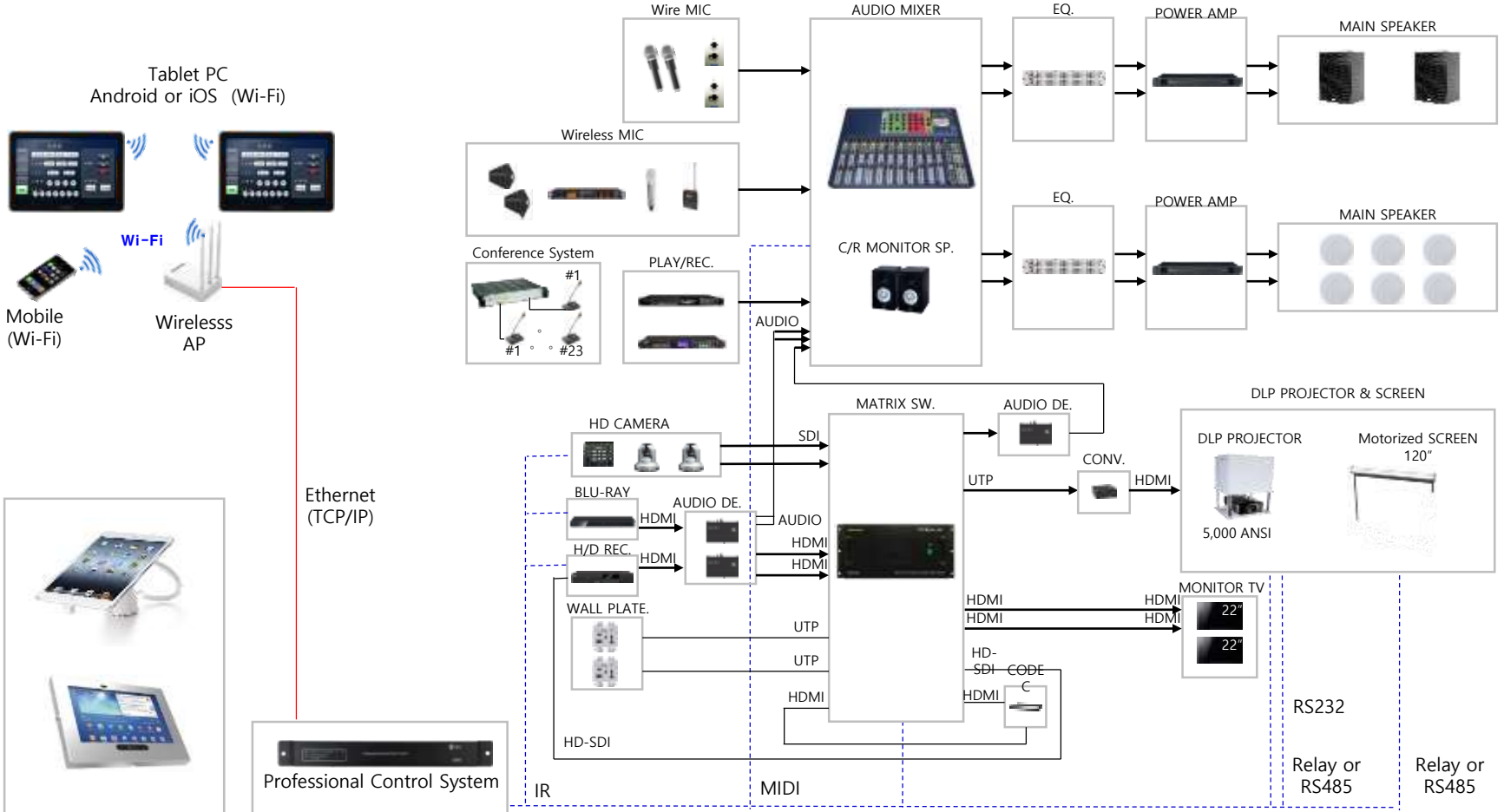
Hosting a large group seminar or conference is easier than ever before with Thingstron technology.

Your guests will be impressed by the ease with which they can start their presentation and control the technologies in the room.

Conference hosts can be left to their own devices with full control over the lighting, shades, temperature, and audio volume through a simple touch screen interface.

With cost-effective and energy-efficient technologies such as occupancy sensors and room scheduling software, the lighting and AV systems automatically shut down when the event is over and the room is empty.

You can be sure that no projector lamps are left on overnight and any system troubles can be remotely solved with Thingstron technology.


Tablet PC
Android or iOS (Wi-Fi)
Wi-Fi
Mobile
(Wi-Fi)
Wirelesss
AP
Ethernet
(TCP/IP)
Professional Control System
Wire MIC
Wireless MIC
Conference System
#1
#1
#23
PLAY/REC.
AUDIO MIXER
C/R MONITOR SP.
EQ.
POWER AMP
MAIN SPEAKER
EQ.
POWER AMP
MAIN SPEAKER
AUDIO
HD CAMERA
SDI
BLU-RAY
HDMI
AUDIO DE.
AUDIO
H/D REC.
HDMI
HDMI
HDMI
WALL PLATE.
UTP
UTP
HDMI
HD-SDI
MATRIX SW.
AUDIO DE.
UTP
CONV.
HDMI
DLP PROJECTOR & SCREEN
DLP PROJECTOR
5,000 ANSI
Motorized SCREEN
120”
MONITOR TV
22”
22”
HDMI
HDMI
HDMI
HDMI
HD-
SDI
CODE
C
HDMI
RS232
Relay or
RS485
Relay or
RS485
IR
MIDI

Smart AV Room, Luxury Rooms & Suites

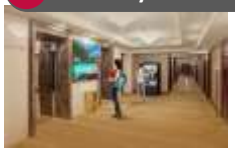
Let your guests relax and feel pampered with smart technologies that exceed their expectations.

With Thingstron, your guests can instantly change their environment to suit their mood without even getting out of bed. Lighting, climate, shades, and more can all be selected and adjusted on the user-friendly touch screen interface. Guests have full customizable control over high-quality, high-resolution streaming video and audio, so a cinematic theater experience in the bedroom can coexist with a dance party in the living room.

Give your guests an experience to remember with the help of Thingstron technology.

5 Fitness Center

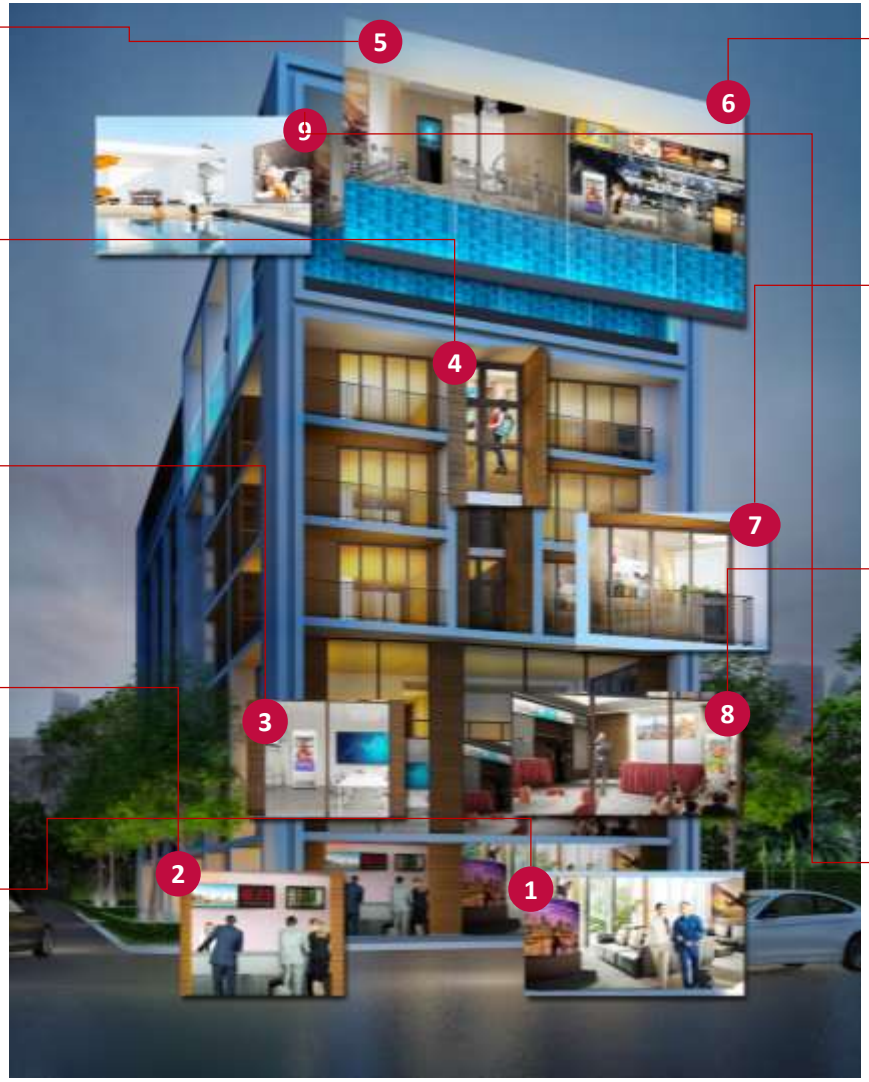
4 Hallway



3 Meeting Room

2 Reception

1 Lobby Hall

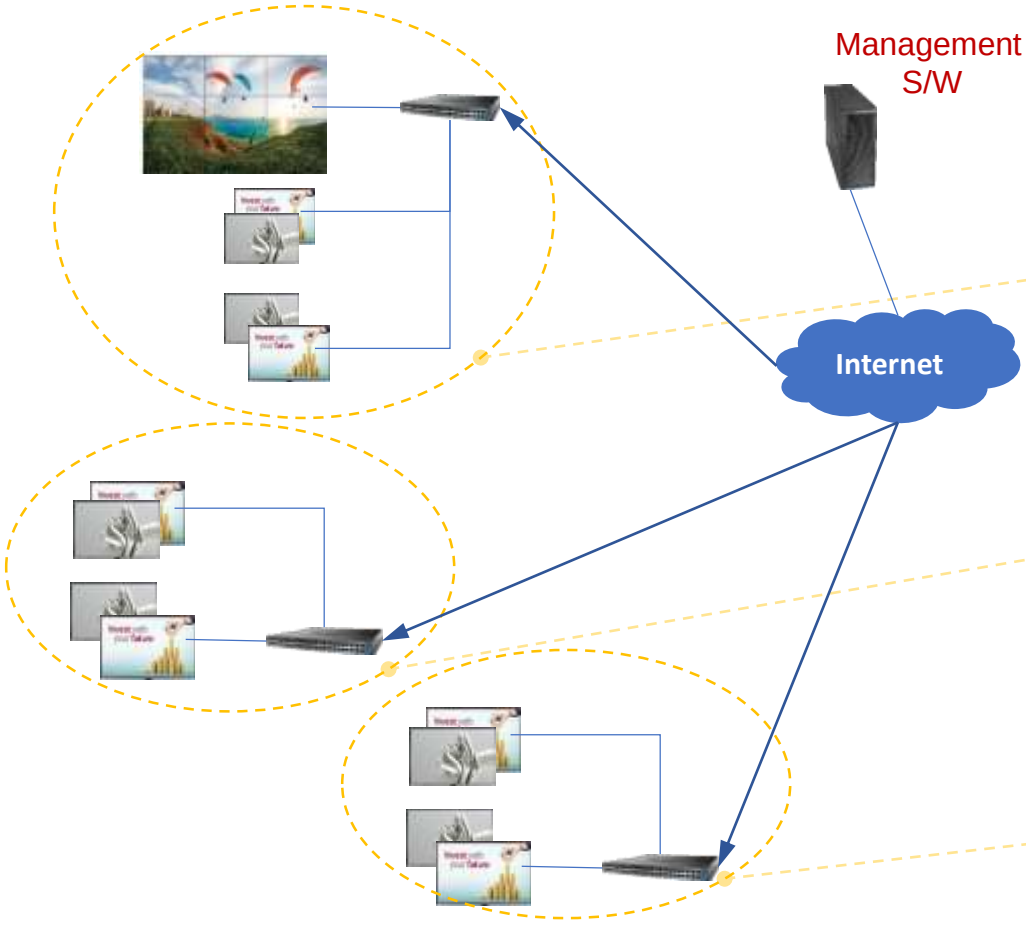


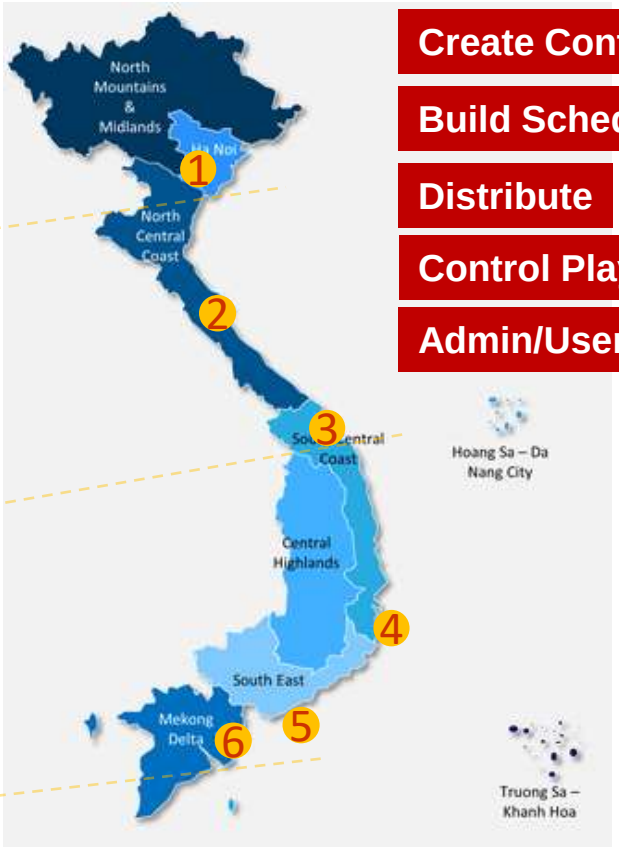
6 Restaurant / Bar

7 Hotel Room

8 Conference Center / Event

9 Outdoor Swimming Pool





Create Content

Build Schedule

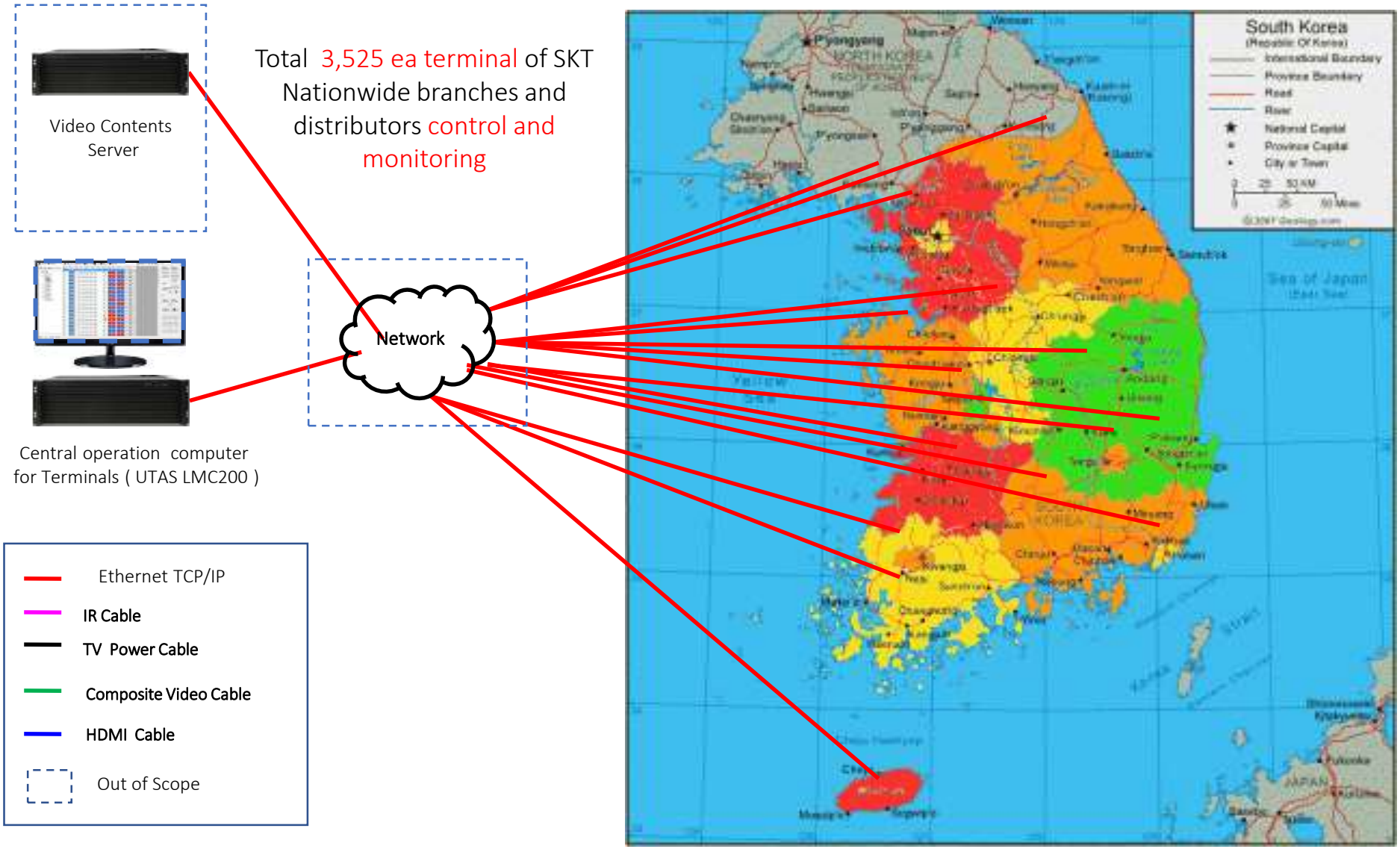
Distribute

Control Players

Admin/User

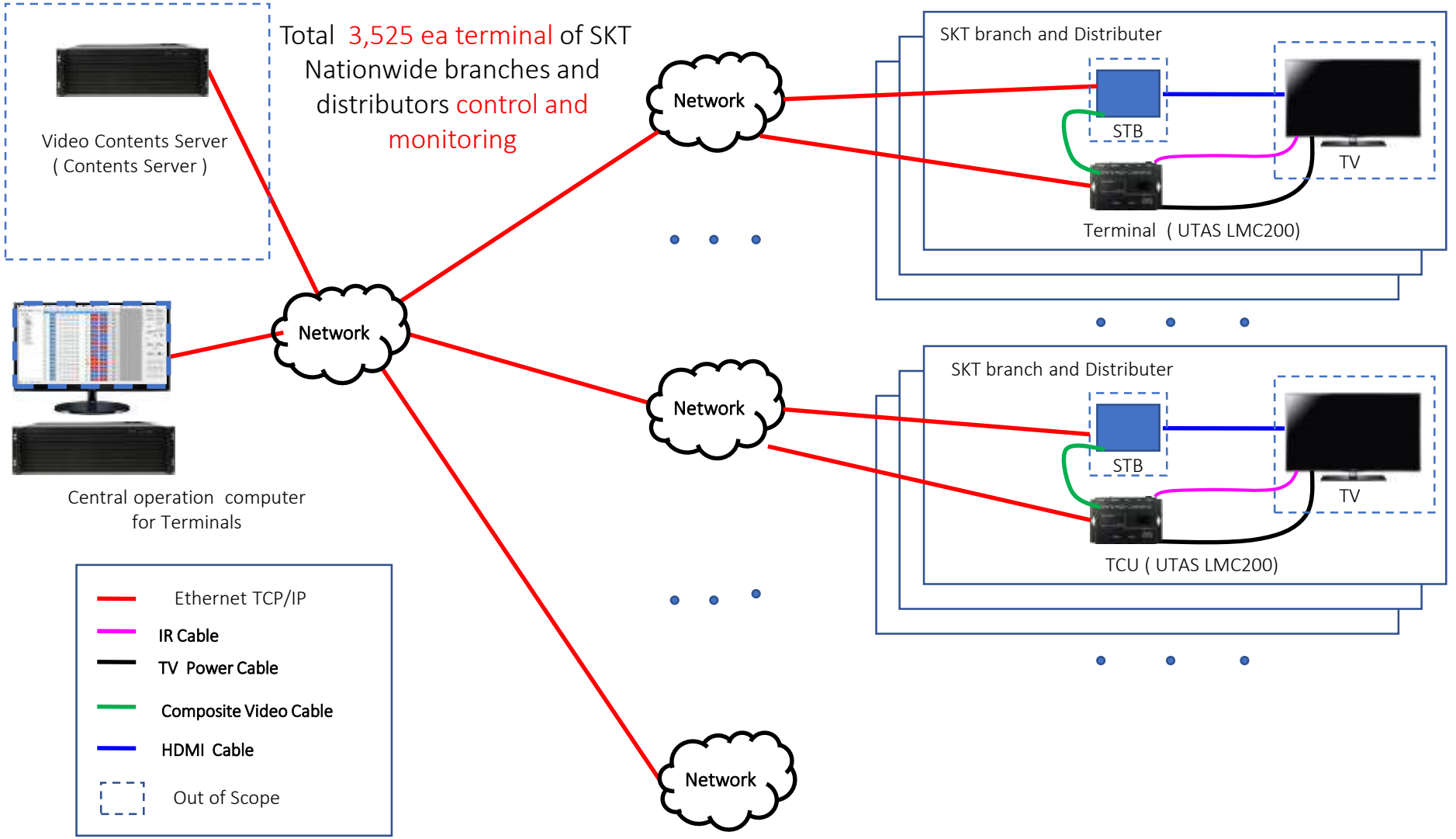
IP Broadcast operation system for multiple buildings

SK telecom



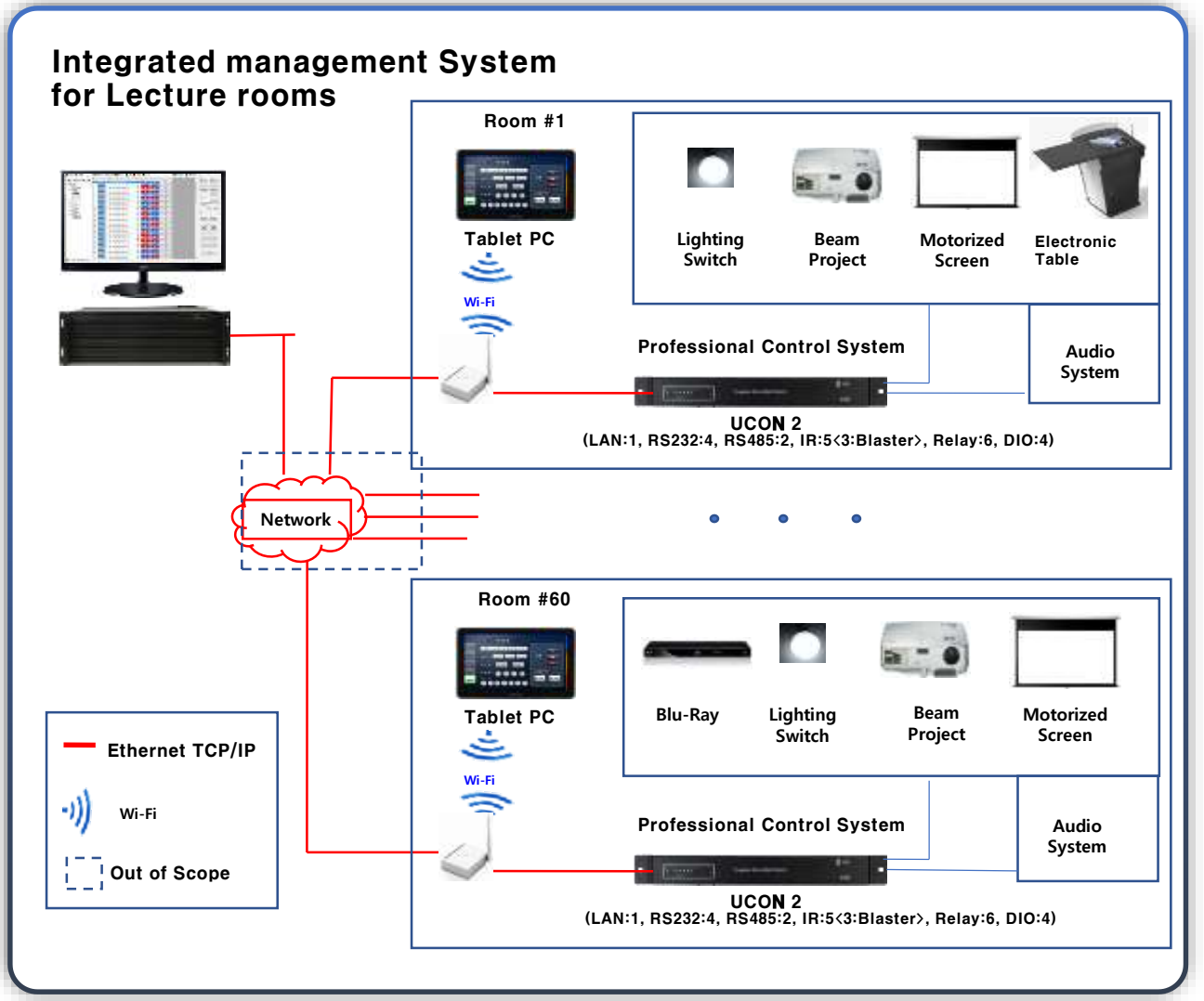
IP broadcast operation system for multiple buildings

SK telecom



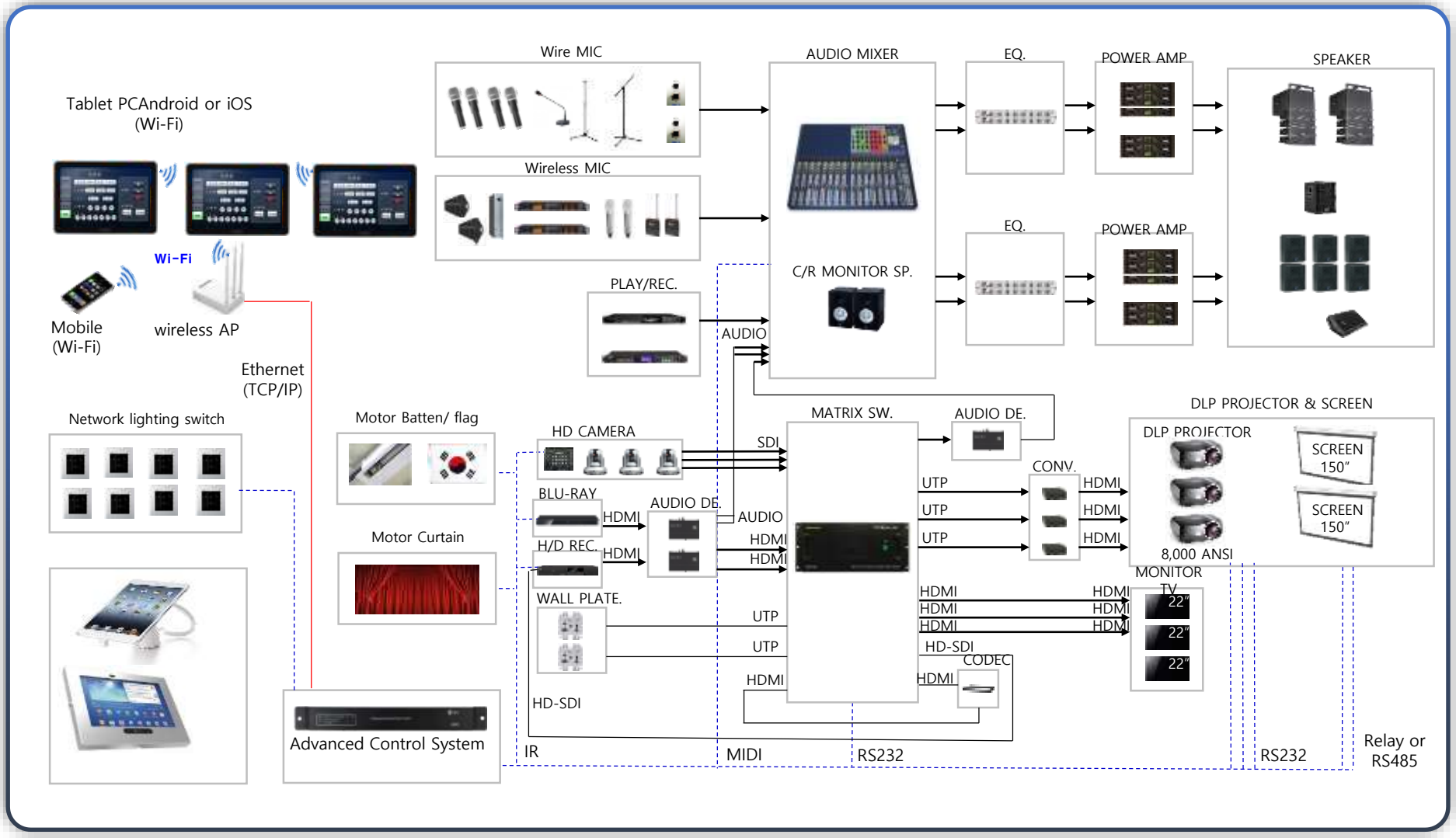
Enhanced Classrooms

Thingstron offers easy-to-use solutions that increase classroom uptime. Teachers or professors can begin a presentation with one touch of a touch screen or by simply plugging a single cable into their laptop. Time lost untangling cables or finding the right connector is a thing of the past when one cable controls everything!



Intelligent Auditoriums

With Thingstron technology, your educators can walk in to their next lecture fully confident that they won't lose any class time due to finicky technology. Intelligent room scheduling capabilities ensure that the scene is set the moment the session begins. The touch screen outside the room shows the room is in use and the title of the lecture is printed across the screen for wayward students seeking the correct room. The lights in the auditorium turn on and are warmed up to full brightness, the room adjusts to a pleasant temperature, and the shades are drawn for a minimum of distractions. Setting up the presentation is as simple as pressing the one-touch meeting start button on the touch screen to the side of the podium. The AV system automatically selects the input source and immediately the presentation is displayed on the room's screen. In the time it took to open a laptop, the lecture is ready to begin.


Tablet PCAndroid or iOS
(Wi-Fi)
Wi-Fi
Mobile
(Wi-Fi)
wireless AP
Ethernet
(TCP/IP)
Network lighting switch
Wire MIC
Wireless MIC
PLAY/REC.
AUDIO MIXER
C/R MONITOR SP.
EQ.
EQ.
POWER AMP
POWER AMP
SPEAKER
AUDIO
Motor Batten/ flag
Motor Curtain
HD CAMERA
SDI
MATRIX SW.
AUDIO DE.
DLP PROJECTOR & SCREEN
DLP PROJECTOR
SCREEN 150″
SCREEN 150″
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UTP
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HD-SDI
UTP
UTP
UTP
CONV.
HDMI
HDMI
HDMI
MONITOR TV
22″
22″
22″
HDMI
HDMI
HDMI
HDMI
HDMI
HDMI
HD-SDI
CODEC
HDMI
HD-SDI
Advanced Control System
IR
MIDI
RS232
RS232
Relay or
RS485

K Wave

Lotte KMP Airport Media Gate

LGE Showroom

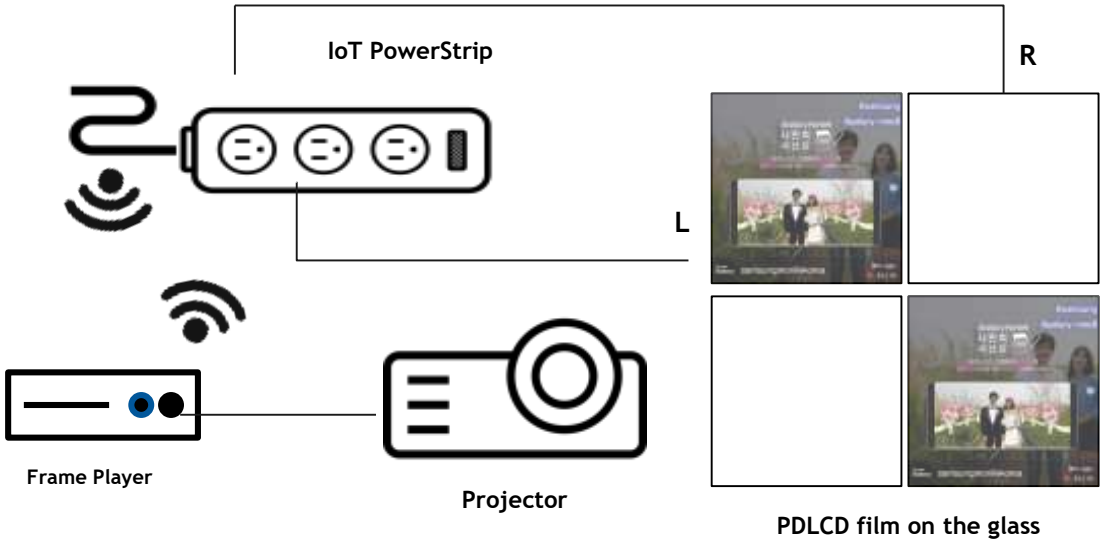
NH Building Lobby

How it Works?

Each display will be connected to YFrame Player separately and These Frame Players will be connected in a local network. Installer will set the position of display using smartphone application by grid pattern on the display.
After screen positioning, each Frame Player will play the same **4K contents download from cloud by showing cropped, rotated contents according to display position.**

Number of Display ConnectedWall can cover

up to 255 displays in a local network, numberless in a internet server connection.



How it Works?

PDLCD film has a characteristic become transparent when it is power on. When it is power off, film will become opacity and we can use film as a rear projection screen. Attach two square PDLC films on a glass and YouFrame Player control the IoT PowerStrip to turn on/off the left/right PDLC film.

For the transparent film, YouFrame Player shows black screen to prevent light on transparent film.
This kind of **PDLCD film control can be extended with various IoT sensors as like door, motion and button sensors.**

Usage Model

The power on/off transparent characteristic of ConnectedGlass can cause **more customer attention** and make them to visit store.

Because of brightness limitation, ConnectedGlass is more useful for **indoor stores or night time.**

HD Video
Signal Input

HD CAMERA

DIGITAL PLAYER

COMPUTER

HD TV

AV broadcast Room

Control Pc via USB

LED DISPLAY

Receiving
Card

.....

HD-SDI
DVI
HDMI

CAT.6 UTP cable

POWER cable

Video Switcher

Video Processor
& LED controller

Power Distribution Panel

Starfield Shopping Mall 75.5M x 1.8M

Starfield Shopping Mall 13M x 8M 583 inch

Professional AVL Control System Block Diagram

User Interface - LAN

Manager System

Wall mountable Touch Panel

User Interface – Wi Fi

Android Smart Pad/Phone

iOS Pad/Phone

LAN

Wi-Fi

Sensing Device

Video detector

Current detector

Temp. Humidity Sensor

Ocupancy Sensor

IR

Serial

Relay

LAN

Integrated Control System

Advanced Control System

Professional Control System

DMX512

MIDI

IR

Relay

Serial

Wi-Fi

LAN

Wi-Fi / LAN Exctender, Adaptor

UDIO16

WME700

LME700

IR

Relay

Serial

Utility Device

DMX512 Device

MIDI Device

IR Device

TV

AV Receiver

Bluray Player

Air Con/ STB

Relay Device

Elevation

Power Distributor

Screen

Blind

Serial Device

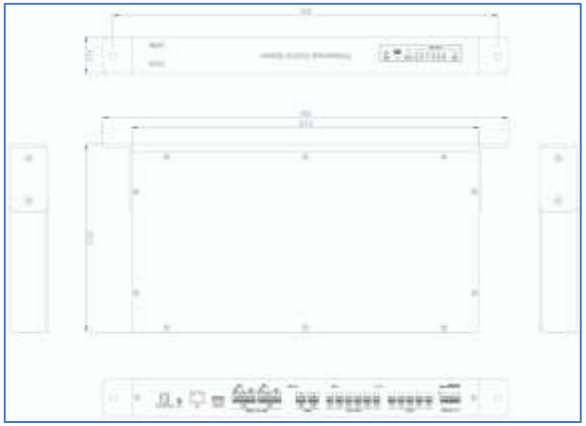
Projector

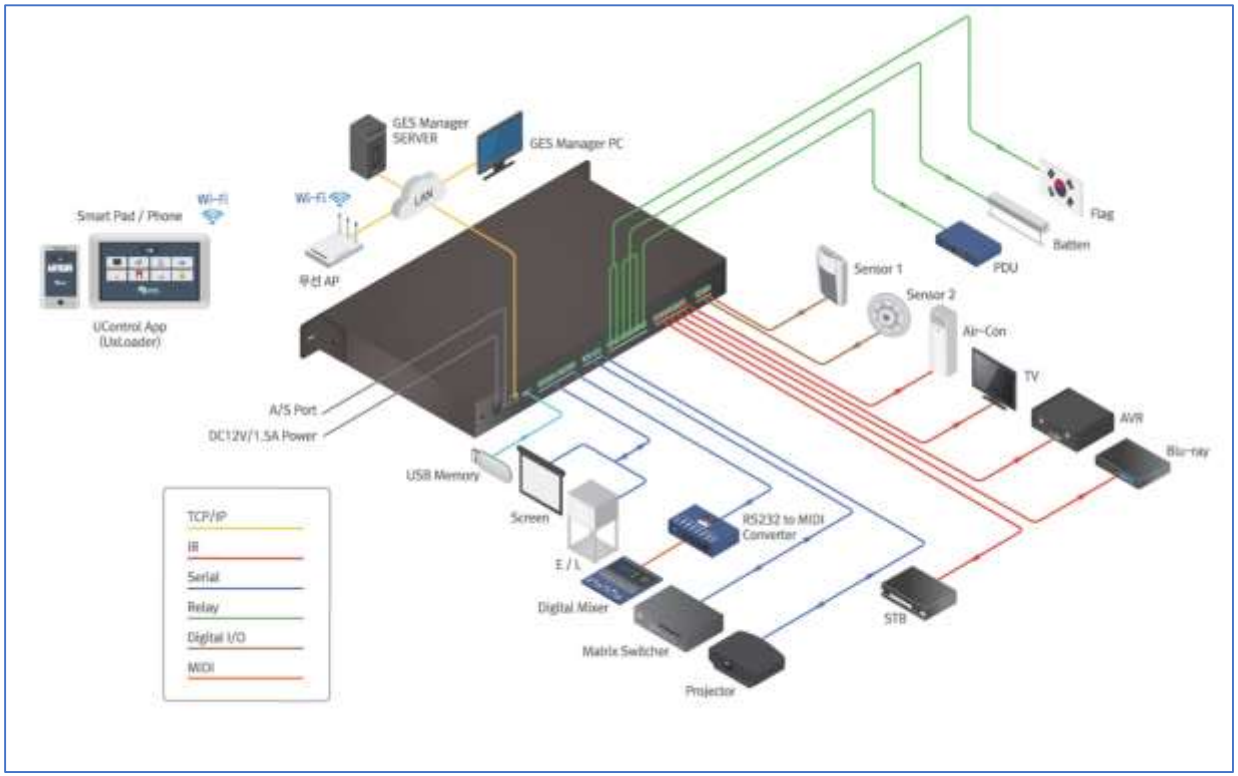
Light

Matrix Switcher

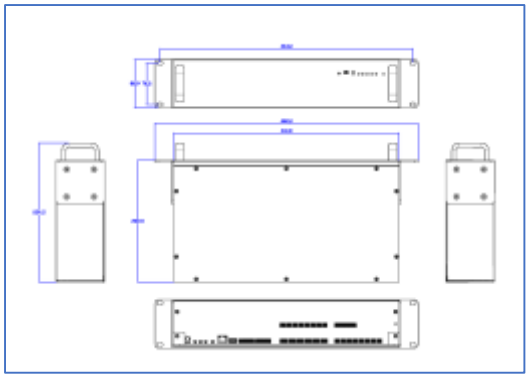
Air Con.

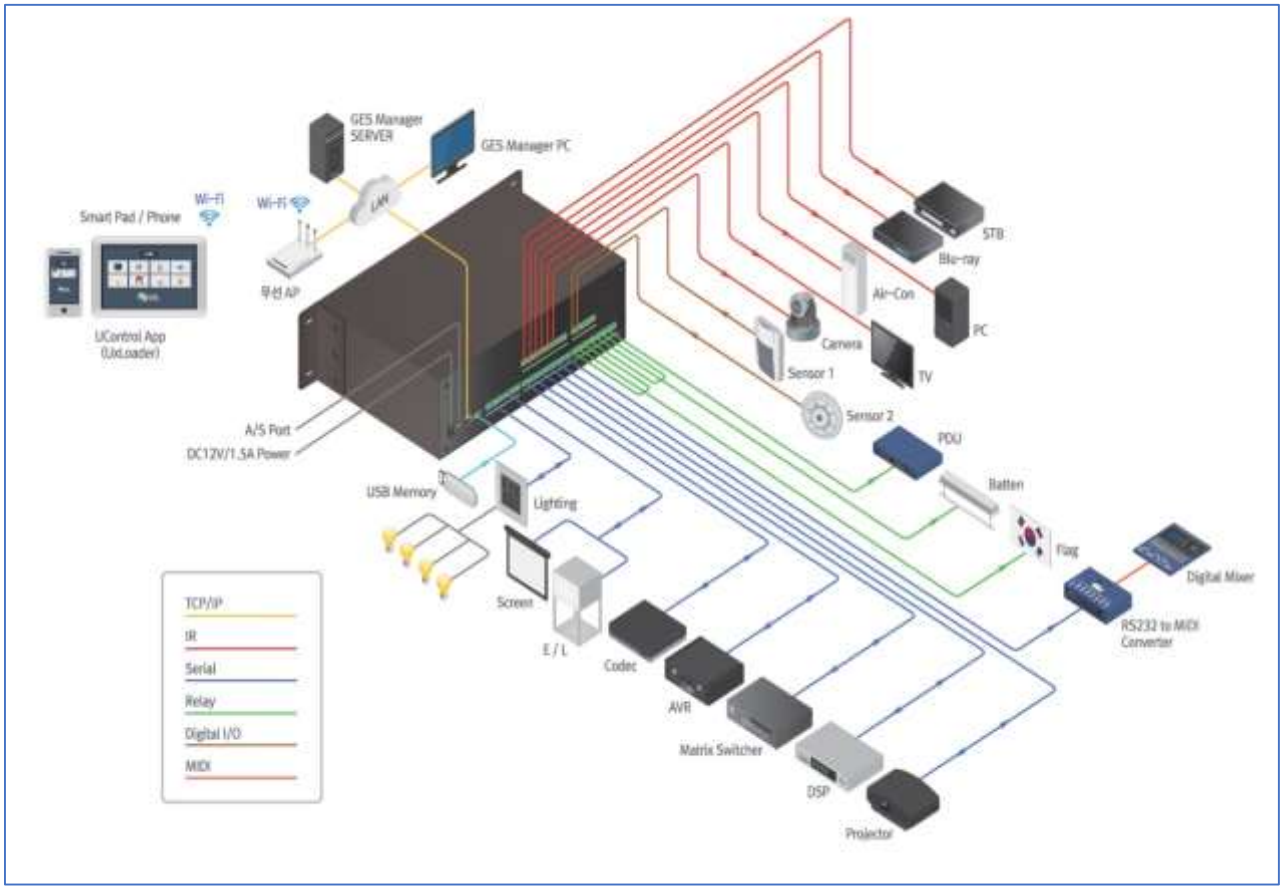
Professional Control System





Advanced Control System



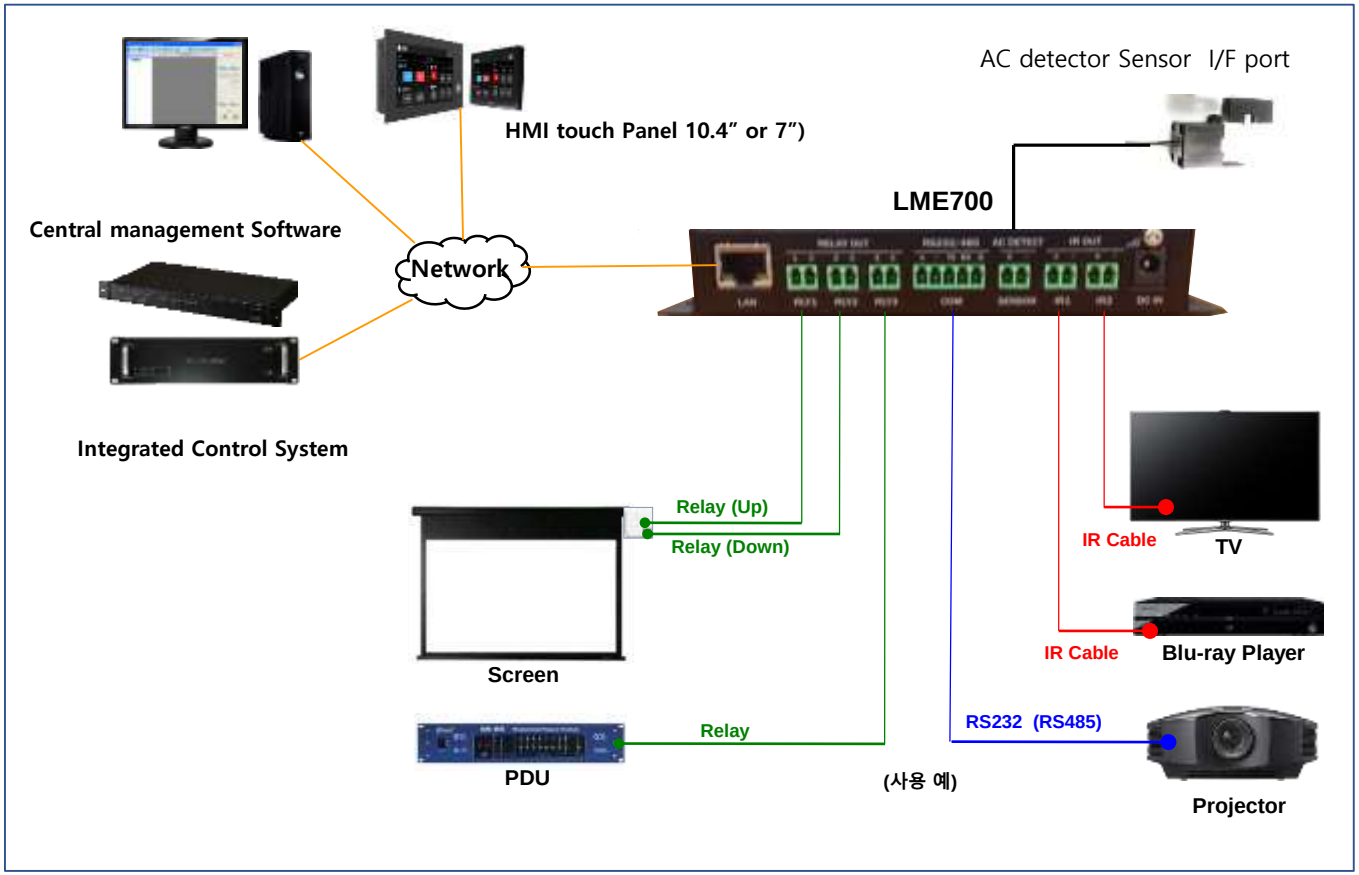


IP network Control Adaptor

. IR , Relay, RS232/RS485 control port

. Ac current Sensor I/F Port to detect Power On/Off Status of Utility

· Ethernet Port for remote control by central Management software



Client	Zio International Interior contractor [sub-contract]
Work Type	Consultation
Work Scope	Computer simulation and partial design for main room
Year of Project	2015

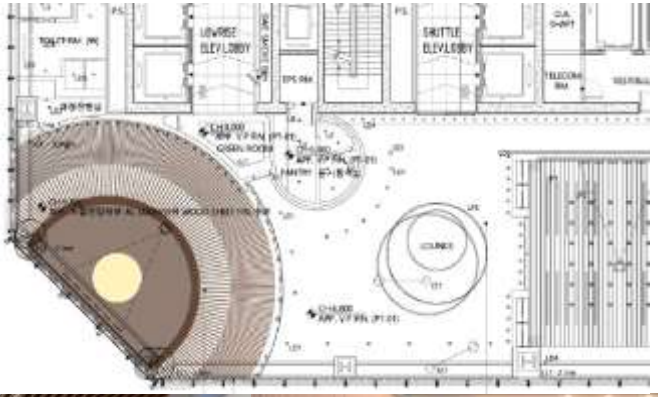
Vietnam National Assembly House

Client	BGIS [sub-contract]
Work Type	consultation/ site supervision/contractor
Work Scope	acoustic & sound isolation improvement for multipurpose hall, meeting rooms, lounge
Year of Project	2017

Facebook Seoul: Meeting rooms, Multi purpose hall, Lounge

Client	AI Architect [sub-contract]
Work Type	consultation
Work Scope	acoustic & sound isolation design for board room and multi purpose halls
Year of Project	2017

IFC Seoul: Board Room & Multipurpose Hall



Client	Daebang G&G
Work Type	supplier
Work Scope	Acoustic diffuser supply
Year of Project	2017

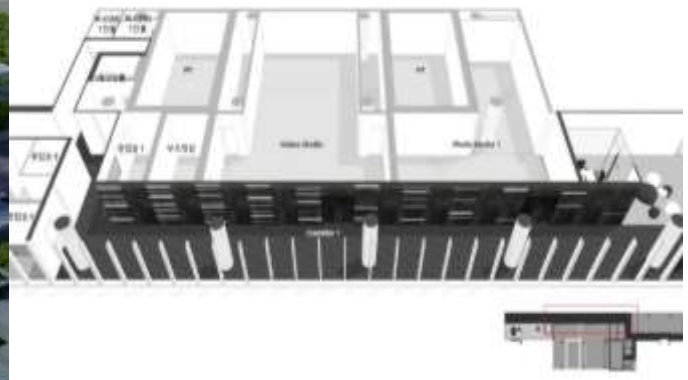
밀양문화재단 MIRYANG CULTURAL FOUNDATION

Miryang Cultural Foundation: Arirang Art Center

Client	CJ Networks [sub-contract]
Work Type	Consultation/contractor
Work Scope	acoustic & sound isolation design/installation for photo, video, music studios
Year of Project	2017

AMOREPACIFIC

AMORE Pacific New HQ : Digital Factory



Client	Catholic Diocese
Work Type	Consultation
Work Scope	acoustic & sound isolation design for multipurpose hall, lecture rooms, seminar halls
Year of Project	2016

Hwayangdong Young People's Cultural Center

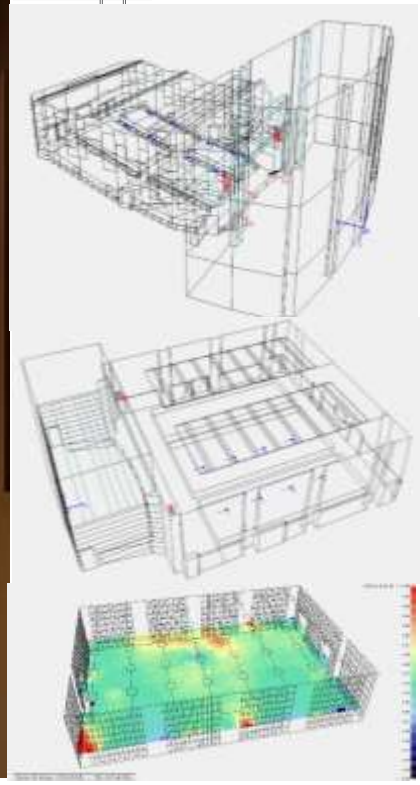
Client	Louis Quatorze
Work Type	Consultation/contractor
Work Scope	acoustic & sound isolation design for multipurpose hall
Year of Project	2016

LOUIS QUATORZE

Louis Quatorze Platform – L: White Cube Hall

Client	Hereem Architects [sub-contract]
Work Type	Consultation
Work Scope	acoustic & sound isolation design for multipurpose halls(1,000 and 300 seats), studio
Year of Project	2016

St. Johnsburry Academy Jeju : Auditorium, Multipurpose Hall, TV Studio



Client	Hereem Architects [sub-contract]
Work Type	Consultation
Work Scope	acoustic & sound isolation design for 500 seat multipurpose hall
Year of Project	2016

S-OIL

S Oil Ma-Gok TS & D Lab. Center Auditorium

Client	Jooeun Interior Design [sub-contract]
Work Type	Consultation
Work Scope	acoustic design for 300 seat multipurpose hall
Year of Project	2016

HVCC
한라비스테온공조(주)
Halla Visteon Climate Control Corp.

Halla Visteon Climate Control Corp. Auditorium

Client	Samoo Architects [sub-contract]
Work Type	Consultation/site supervision
Work Scope	acoustic design for multipurpose halls & event hall
Year of Project	2014

Dream, Design, Play ddp

Dongdaemoon
WORLD DESIGN PLAZA & PARK COMPLEX

Client	AI Architects [sub-contract]
Work Type	Consultation/Contractor
Work Scope	acoustic design & installation for 336 seat multipurpose hall
Year of Project	2014

Doosan Tower Concert Hall

Client	DMP Architects [sub-contract]
Work Type	Consultation
Work Scope	acoustic design for 300 seat multipurpose hall, lecture rooms, board room, meeting rooms
Year of Project	2014

NHN Chuncheon Training Institute

Thank You

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