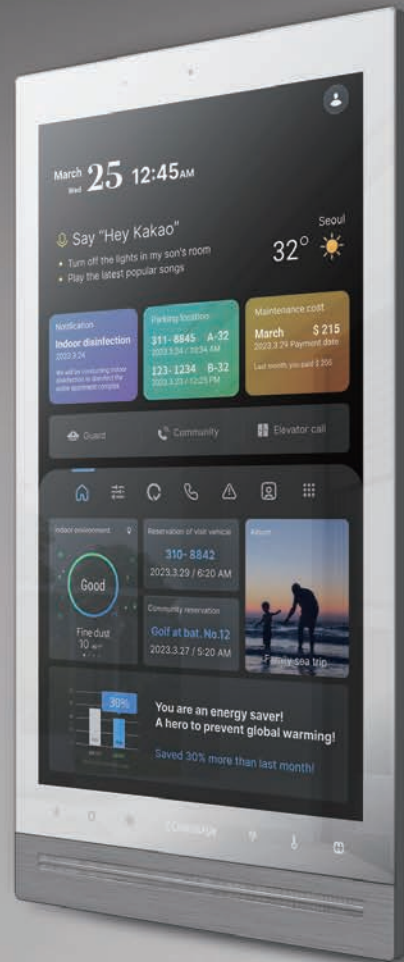




# World's first A.I Service A.I. Home Mirror

"A.I Home Mirror" makes customer's home more convenient, providing customized solution in accordance with their life pattern.

This solution can be used on entire generation conveniently with intuitive UI and voice guide, allowing customers to control mobile app and A.I platform service.



A.I. Home Mirror  
CHM-2200 / 2200(S)

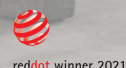


# Speaking, Listening and Showing, A.I. ANSWER T

Smart ANSWER T makes life easier and more convenient.  
It provides a differentiated experience through A.I. service, so that responds to  
customer's questions and provides solution on its own.

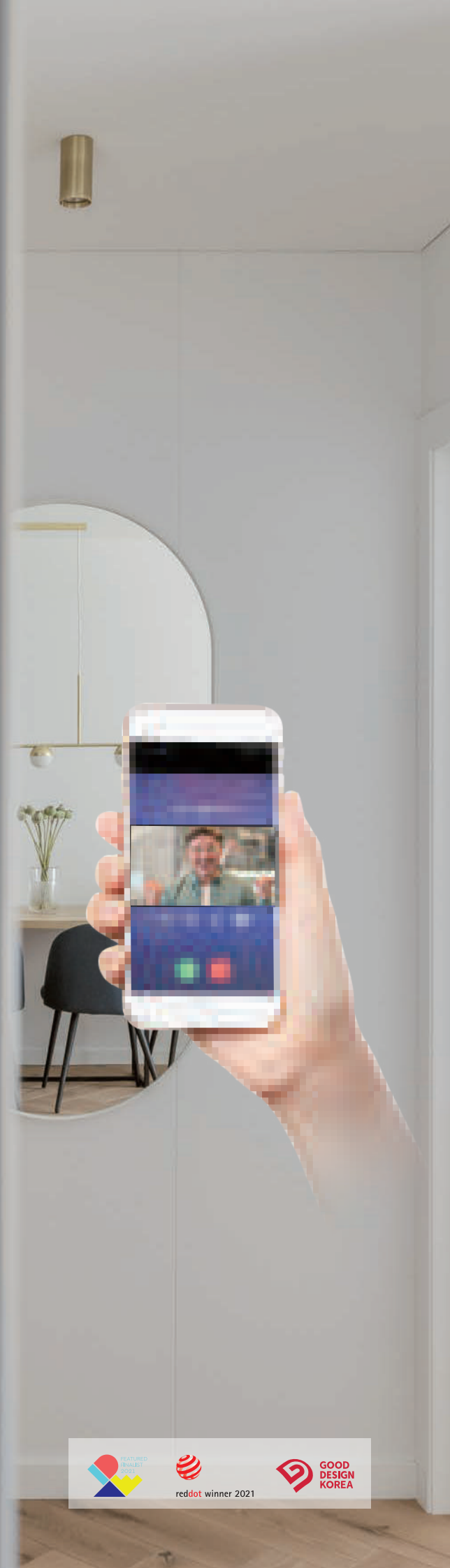


A.I. Monitor [ANSWER T]  
CAP-1000A / 1001A



# Talk & Door release with Smart phone SmartView Monitor

It makes our life more safe by detecting and recording suspicious movements from outside with a SmartView monitor. We provide a Smart & Security service that can open the door through talking with visitor, and save visitor videos and photos by detecting outside motion automatically in all types of residence such as single houses, villas, townhouses, condominium and apartments.



SmartView Monitor

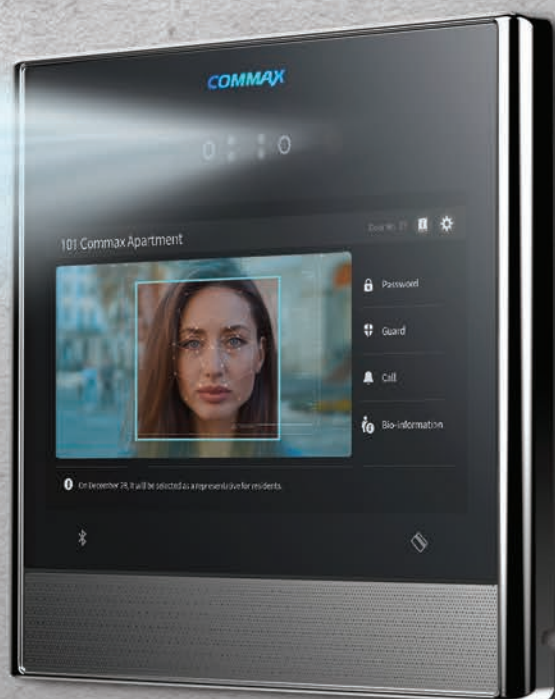
CIP-70QPT / CDV-1004QT / CDV-70QT





# Access control via Face recognition BIO Lobbyphone

Quick and convenient access is available with face recognition solution. (Touch-less bio access) Innovative technology solutions can be applied to various environments with easy installation and expandability.



Face Recognition BIO Lobbyphone  
CIOT-LBIO / DRC-BIOL / DRC-BIOS

# Why A.I. Smarthome solution?

COMMAX A.I. Smarthome solutions provide customized solutions for each housing type and provide smart living and value to users through voice recognition.



## Benefits of A.I. Smarthome solutions



**A.I. Smarthome solution using voice recognition**  
Convenient home management!



**A.I. Smarthome solutions using mobile apps**  
At home or outside - wherever you are, your home is in your hands!



**Cloud-based IoT built-in solution (Serverless)**



**Security solution that adds security to security**  
Your home is safer with KISA's IoT security certification!



# A.I. Smarthome solution function

The A.I. Smarthome solution connects both households and common areas with security and convenience features from the moment you enter the complex, allowing you to experience the smartest living space.

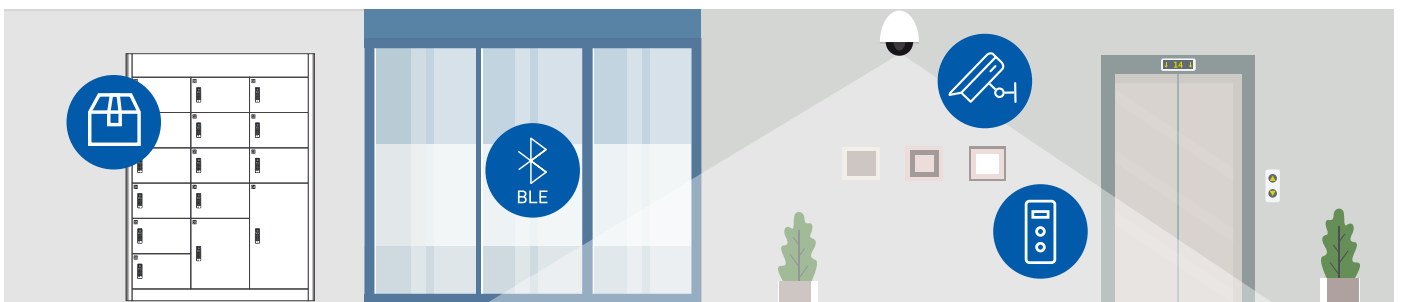
## House Zone

A.I.-IoT Space solution, ventilation purification system, oxygen supply system, smart lighting



## Common Entrance Zone

IoT unmanned delivery system, elevator voice call, remote meter reading system



## Community Zone

A.I. Fitness system



## Outdoor Zone

Parking control system, parking video guidance system, IP CCTV system, emergency bell system



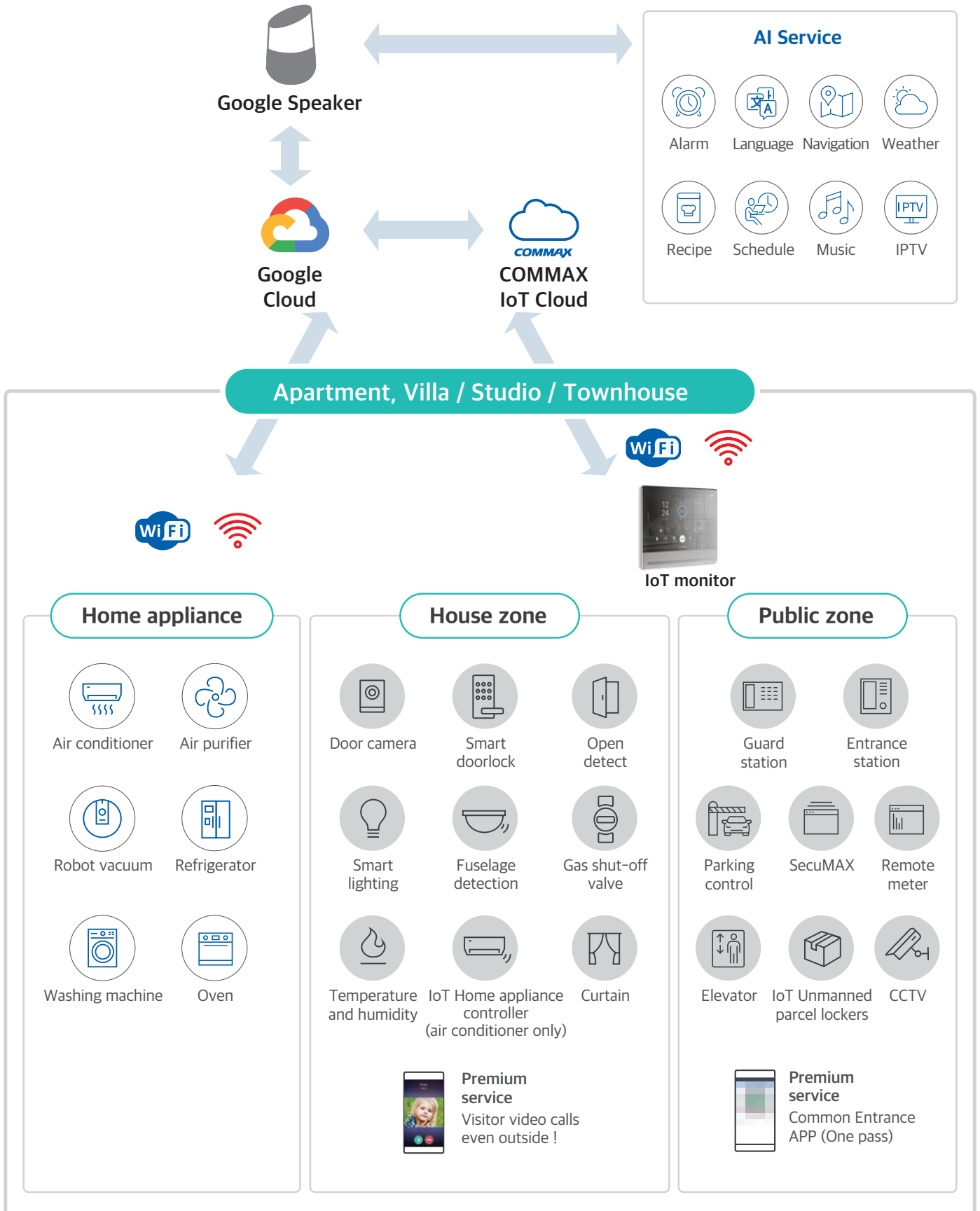
※ The above functions are intended to aid understanding, and service items may change due to reasons such as non-implementation or performance improvement upon actual move-in.



# A.I. Voice Control

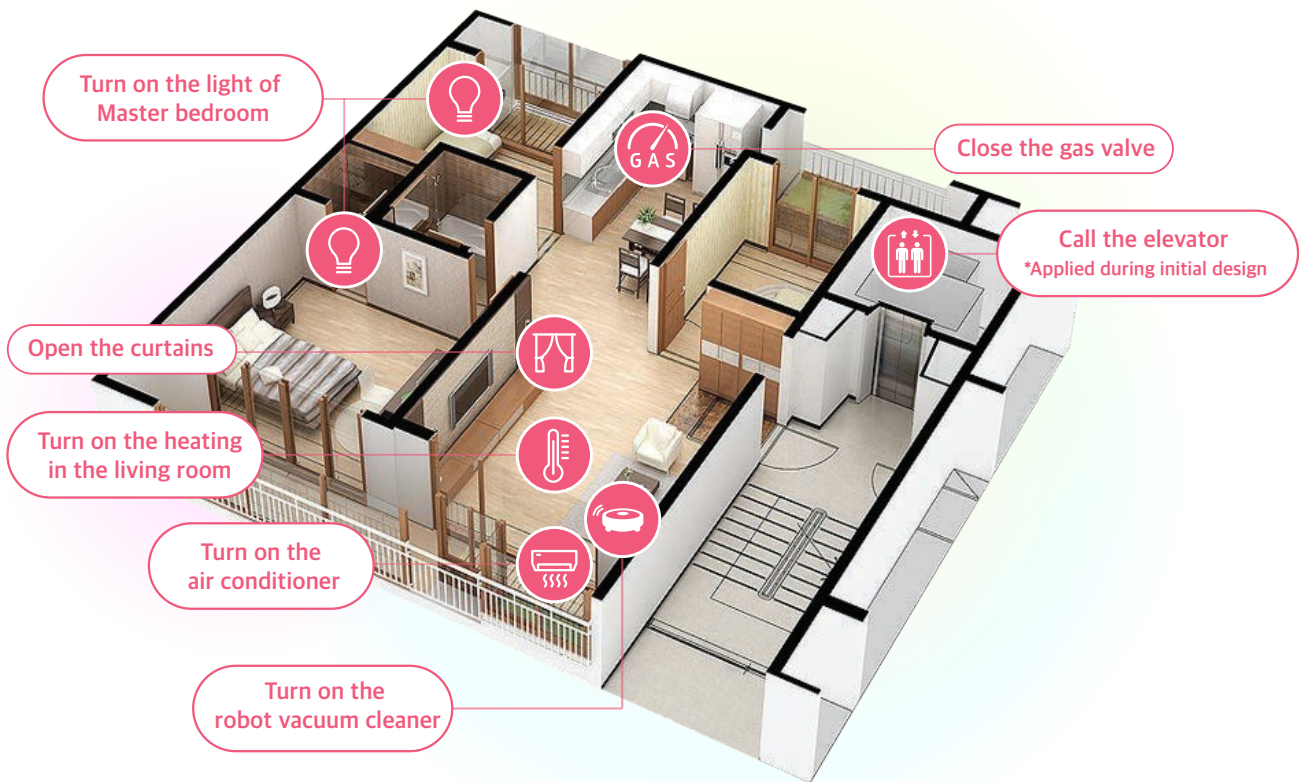
## Standard Configuration Diagram

The A.I. HOME service, created by integrating the A.I. platform with COMMAX Cloud, allows residents to live conveniently according to the space and lifestyle of various housing types.



## Voice control service

The A.I. Home service allows you to control your home environment appliances using your voice through Google Speaker, and receive various living information.



### Monitor

- Visitor verification and call
- Control of wired/wireless sensors and devices
- Integration with mobile app



### Door camera

- Visitor Call
- Call using monitor / mobile app



### Smart curtain

- Curtain open/close function
- Control via monitor / mobile app



### Smart door lock

- Entrance door control
- Door opening through monitor



### Boiler integration

- Boiler temperature control
- Control via monitor / mobile app



### IoT door open detection sensor

- Install in front door and window frames
- When a door opens, emergency alerts are sent to monitor / mobile app (when security or away mode is enabled)



### IoT lighting switch

- Batch-light control, Room light control
- Controlled by monitor / mobile app / Google integrating IoT sensors



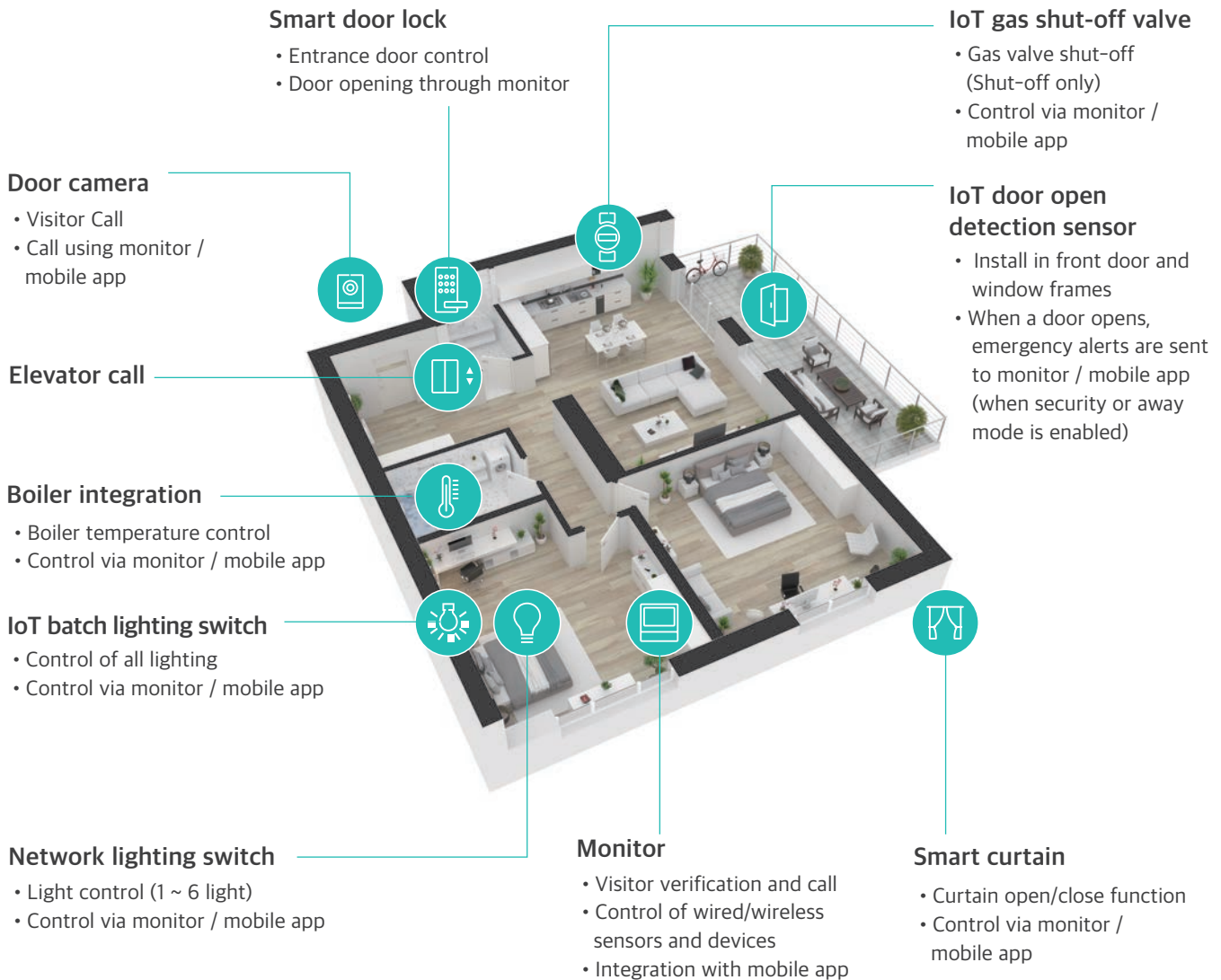
### IoT gas shut-off valve

- Gas valve shut-off (Shut-off only)
- Control via monitor / mobile app

# A.I. Apartment · Villa



**Diagram** An integrated perfect A.I. residential solution to our family members



## Additional premium configuration

**Hey Google**

“Turn on the living room lights.”  
 “Close the gas valve.”  
 “Set the boiler to 28°C.”

**Control your home conveniently with voice via A.I. speaker.**

Create a more comfortable environment, control devices and verifying visitors with voice from anywhere in your home.

A.I. home mirror      A.I. monitor

## Common area













Common entrance lobby phone      Guard station      CCTV system

Parking control System      IoT Unmanned parcel lockers      Elevator call device







**Household configuration** The most basic configuration for creating a smart life starting from A.I. apartments and villas!

<p><b>Monitor</b></p> <hr/> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>Premium Type (10-inch)</p> </div> <div style="text-align: center;">  <p>Premium Type (7-inch)</p> </div> </div> <p><b>Door Camera</b></p> <hr/> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>Luxury Type</p> </div> <div style="text-align: center;">  <p>Standard Type</p> </div> </div>	<p><b>Door Lock</b></p> <hr/> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>Premium Type (Facial/ Fingerprint Recognition)</p> </div> <div style="text-align: center;">  <p>Luxury Type</p> </div> <div style="text-align: center;">  <p>Standard Type</p> </div> <div style="text-align: center;">  <p>Compact Lock</p> </div> </div> <p><b>Sensor and Control devices</b></p> <hr/> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>Batch lighting switch</p> </div> <div style="text-align: center;">  <p>Network lighting switch</p> </div> <div style="text-align: center;">  <p>IoT Gas shut-off valve</p> </div> <div style="text-align: center;">  <p>Boiler integration (limited products)</p> </div> </div>
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**+ Security** A safer smart life with security and disaster prevention features! "Close the gas valve."




PIR Temperature and  
humidity sensor



IoT Door detection  
sensor



Magnetic sensor  
(wired)



Moving detection  
sensor (wired)

**+ Convenience** A more convenient smart life with Home IoT Things! "Turn off the living room lights."



IoT Temperature /  
humidity sensor



Smart curtain



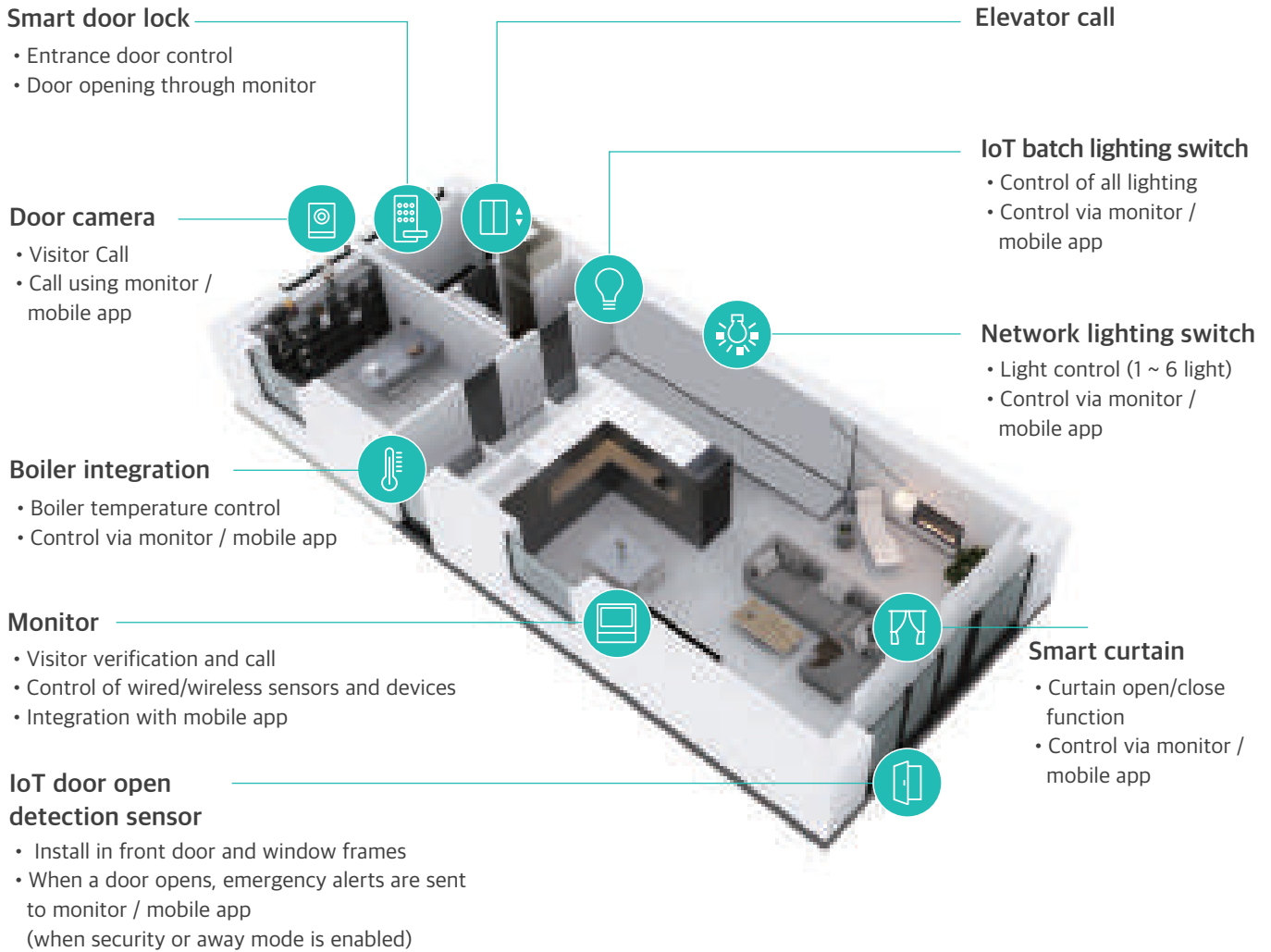
IoT Light switch



IoT Home appliance controller  
(air conditioner only)

# A.I. Studio

**Diagram** Safe solution for Single(1~2) type of households



## Additional premium configuration

## Common area

**Hey Google**

“Turn on the living room lights.”  
 “Close the gas valve.”  
 “Set the boiler to 28°C.”

### Control your home conveniently with voice via A.I. speaker.

Create a more comfortable environment, control devices and verifying visitors with voice from anywhere in your home.



A.I. home mirror



A.I. monitor



Common entrance lobby phone



Guard station



CCTV system












Parking control System




IoT Unmanned parcel lockers




**Household configuration** The most basic structure to create a smart life starting with A.I. studio!

<p><b>Monitor</b></p> <hr/> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>Premium Type (10-inch)</p> </div> <div style="text-align: center;">  <p>Premium Type (7-inch)</p> </div> </div>	<p><b>Door Lock</b></p> <hr/> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>Premium Type (Facial/ Fingerprint Recognition)</p> </div> <div style="text-align: center;">  <p>Luxury Type</p> </div> <div style="text-align: center;">  <p>Standard Type</p> </div> </div>
<p><b>Door Camera</b></p> <hr/> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>Luxury Type</p> </div> <div style="text-align: center;">  <p>Standard Type</p> </div> </div>	<p><b>Sensor and Control devices</b></p> <hr/> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>Network lighting switch</p> </div> <div style="text-align: center;">  <p>Boiler integration (limited products)</p> </div> </div>


**+ Security** A safer smart life with security and disaster prevention features! "Close the gas valve."




PIR Temperature and  
humidity sensor



IoT Door detection  
sensor



Magnetic sensor  
(wired)



Moving detection  
sensor (wired)

**+ Convenience** A more convenient smart life with Home IoT Things! "Turn off the living room lights."



IoT Temperature /  
humidity sensor



Smart curtain



IoT Light switch



IoT Home appliance controller  
(air conditioner only)



# A.I. Townhouse



**Diagram** Artificial intelligence is a premium solution for townhouse customization

## Sub-phone

- Check visitor and video call, door release

## Network lighting switch

- Light control (1 ~ 6 light)
- Control via monitor / mobile app

## IoT door open detection sensor

- Install in front door and window frames
- When a door opens, emergency alerts are sent to monitor / mobile app (when security or away mode is enabled)

## Bathroom interphone

- Check visitor and audio call, door release

## Smart door lock

- Entrance door control
- Door opening through monitor

## IoT batch lighting switch

- Control of all lighting
- Control via monitor / mobile app

## Door camera

- Visitor Call
- Call using monitor / mobile app

## Monitor

- Visitor verification and call
- Control of wired/wireless sensors and devices
- Integration with mobile app

## IoT gas shut-off valve

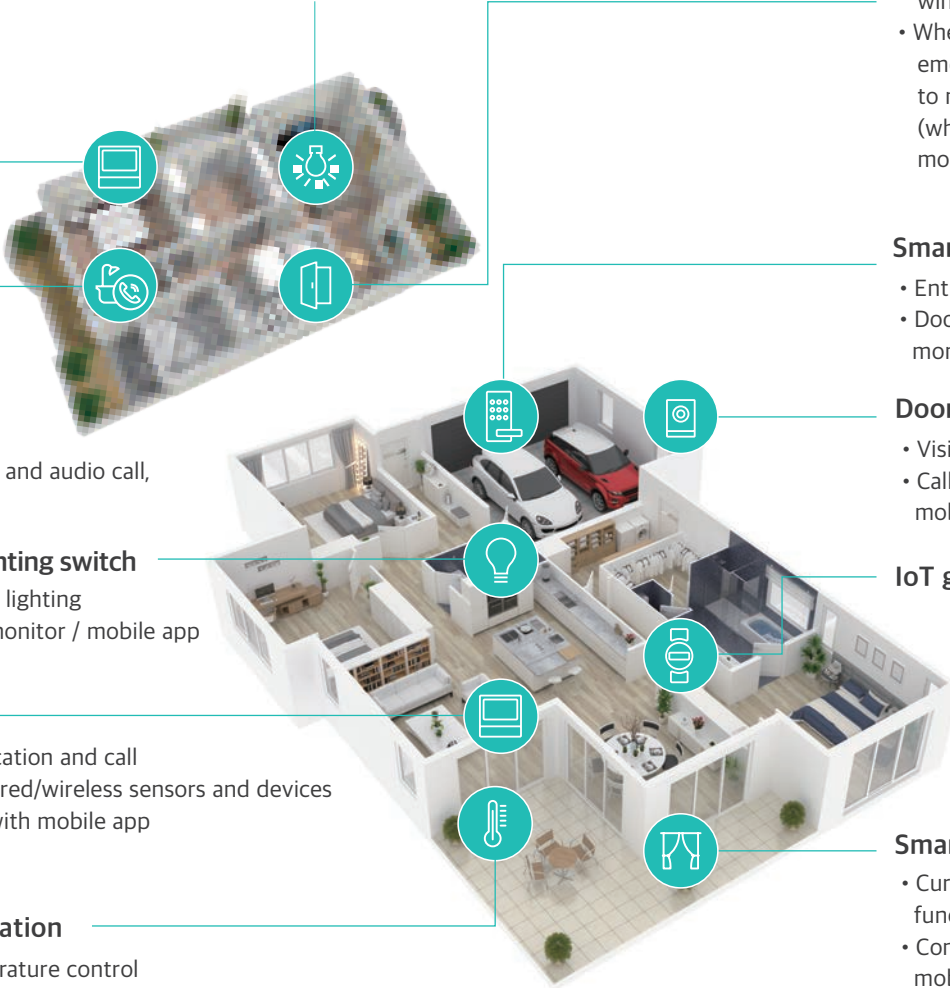
- Gas valve shut-off (Shut-off only)
- Control via monitor / mobile app

## Boiler integration

- Boiler temperature control
- Control via monitor / mobile app

## Smart curtain

- Curtain open/close function
- Control via monitor / mobile app



## Add luxury configuration

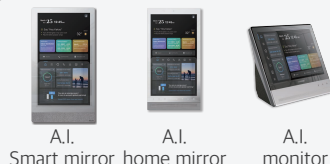
## Common area

Hey Google

"Turn on the living room lights."  
"Close the gas valve."  
"Set the boiler to 28°C."

## Control your home conveniently with voice via A.I. speaker.

Luxury smart life with premium A.I. products that improve the quality of life!



A.I. Smart mirror    A.I. home mirror    A.I. monitor



Common entrance lobby phone



Guard station



CCTV system



Parking control System



IoT Unmanned parcel lockers



**Household configuration** The most basic configuration to create a smart life starting from an A.I. townhouse!

<p><b>Monitor</b></p> <p>Premium Type (10-inch)    Premium Type (7-inch)</p>	<p><b>Door Camera</b></p> <p>Luxury Type    Standard Type</p>	<p><b>Door Lock</b></p> <p>Premium Type (Facial/Fingerprint Recognition)    Luxury Type    Standard Type    Compact Lock</p>
<p><b>Sub-Phone</b></p> <p>Sub phone    Bathroom phone</p>	<p><b>Sensor and Control devices</b></p> <p>Batch lighting switch    Network lighting switch    IoT Gas shut-off valve    Boiler integration (limited products)</p>	

**+ Security** A safer smart life with security and disaster prevention features! "Close the gas valve."

<p>PIR Temperature and humidity sensor</p>	<p>IoT Door detection sensor</p>
<p>Magnetic sensor (wired)</p>	<p>Moving detection sensor (wired)</p>

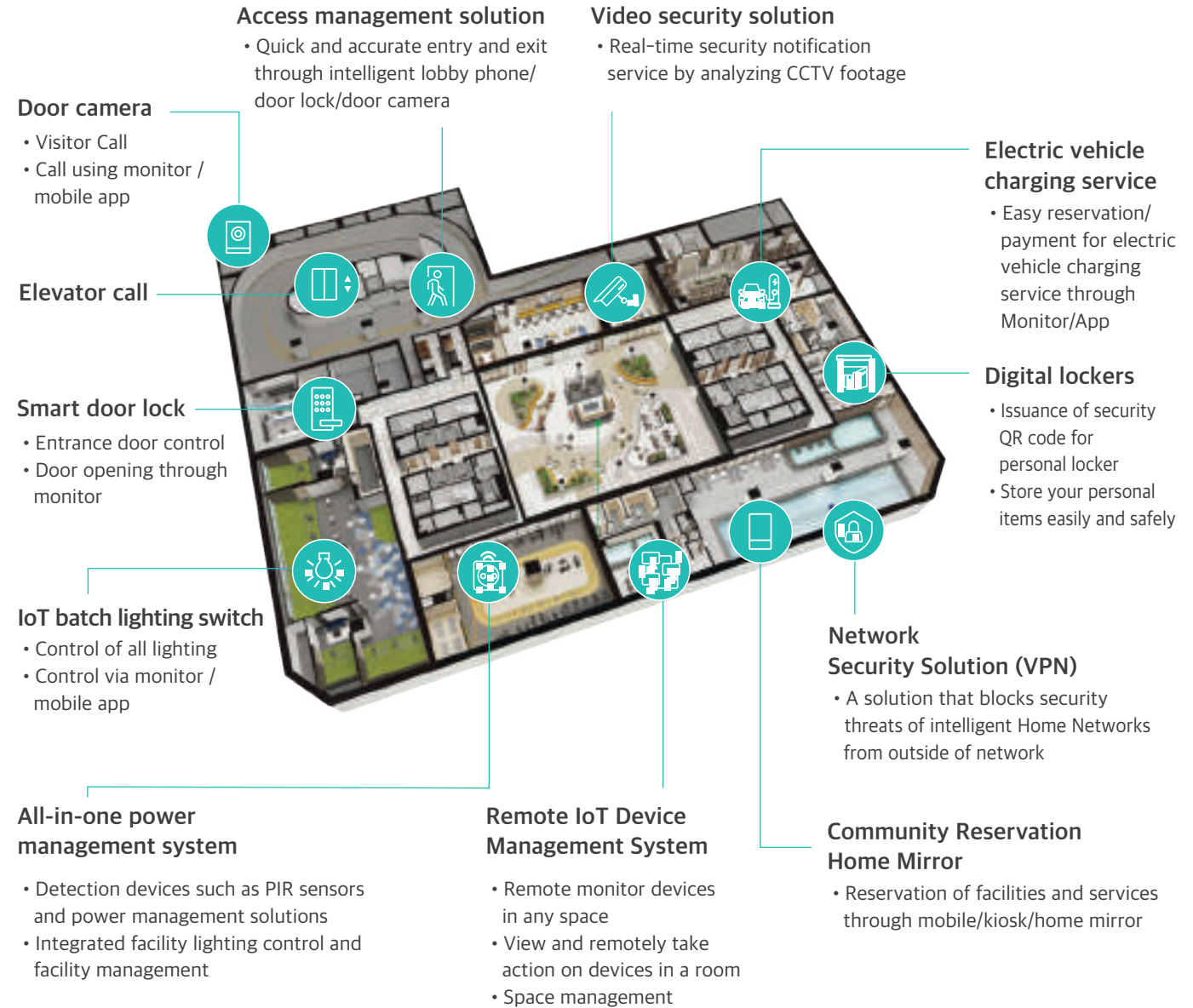
**+ Convenience** A more convenient smart life with Home IoT Things! "Turn off the living room lights."

<p>IoT Temperature / humidity sensor</p>	<p>Smart curtain</p>
<p>IoT Light switch</p>	<p>IoT Home appliance controller (air conditioner only)</p>

# Community management solution



**Diagram** A.I. Smart Home is a premium solution for community management solution customization



## Add luxury configuration

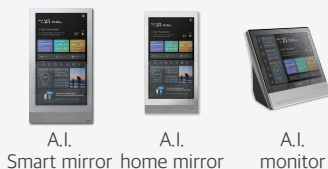
## Common area

Hey Google

“Turn on the living room lights.”  
 “Close the gas valve.”  
 “Set the boiler to 28°C.”

### Control your home conveniently with voice commands.

Luxury smart life with premium A.I. products that improve the quality of life!



Common entrance lobby phone



Guard station



CCTV system



Parking control System








IoT Unmanned parcel lockers







Elevator call device



**Household configuration** The most basic configuration to create a smart life starting from an A.I. community management solution!

<p><b>Monitor</b></p>  <p>Premium Type (10-inch)    Premium Type (7-inch)</p>	<p><b>Door Camera</b></p>  <p>Luxury Type    Standard Type</p>	<p><b>Door Lock</b></p>  <p>Premium Type (Facial/Fingerprint Recognition)    Luxury Type    Standard Type    Compact Lock</p>
<p><b>Sub-Phone</b></p>  <p>Sub phone    Bathroom phone</p>	<p><b>Sensor and Control devices</b></p>  <p>Batch lighting switch    Network lighting switch    IoT Gas shut-off valve    Boiler integration (limited products)</p>	

**+ Security** A safer smart life with security and disaster prevention features! "Close the gas valve."

 <p>PIR Temperature and humidity sensor</p>	 <p>IoT Door detection sensor</p>
 <p>Magnetic sensor (wired)</p>	 <p>Moving detection sensor (wired)</p>

**+ Convenience** A more convenient smart life with Home IoT Things! "Turn off the living room lights."

 <p>IoT Smart plug</p>	 <p>IoT Temperature / humidity sensor</p>	 <p>Smart curtain</p>
 <p>IoT Light switch</p>	 <p>IoT Home appliance controller (air conditioner only)</p>	

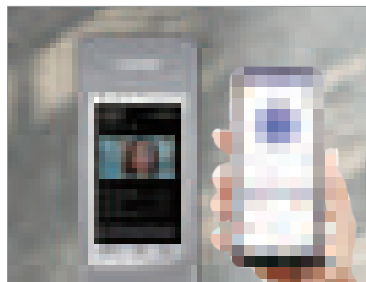


# Lobby Kiosk



## Video call to my house

Video calls with the monitor in the house from the common entrance of the complex



## Convenient access with BLE function

BLE function allows touch-less access (Some restrictions are limited depending on the environment such as smartphone specifications and BLE)



## Access control strengthens safety functions

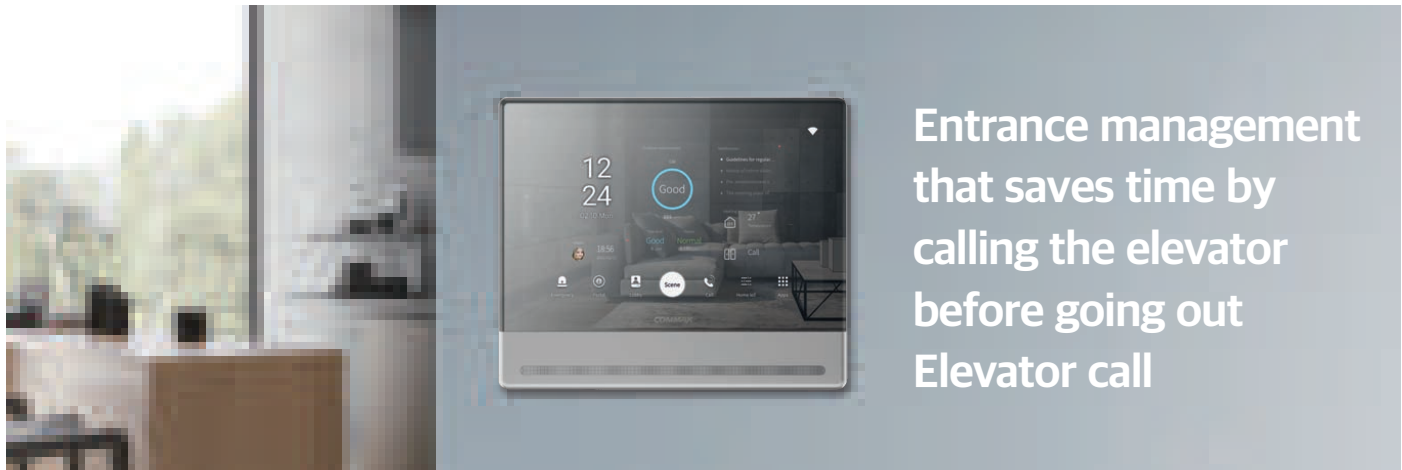
It is linked with an automatic door to control the access of uninvited guests from the outside



## 22-inch wide display

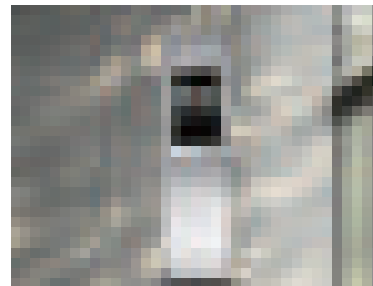
The display displays how to call and guide, enabling a luxurious exterior design

# Entrance management



### Floor mode

When the household calls an elevator from the monitor, the elevator is called to the corresponding floor



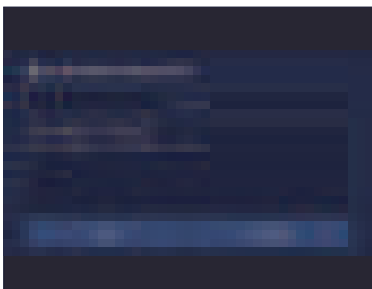
### Lobby mode

When the resident passes through the automatic lobby door, the elevator is called to the lobby floor

- The elevator call function is available when a contact-type elevator is installed  
 → Need to check the company that can link elevator (linkable companies : Hyundai Elevator, TK Elevator, etc.)  
 \* Floor mode : Elevator “descent” button - communication room (MDF) UTP wiring required  
 \* Lobby Mode : Elevator “Rise” button - Communication room (MDF) UTP wiring required  
 \* If the elevator and Smart intercom system interconnection time are different, additional expenses may be added.  
 \* The timing of the installation of the elevator and the system is different, so the elevator site between the final elevator interworking test  
 \* Lobby mode and floor mode cannot be used as the same relay.

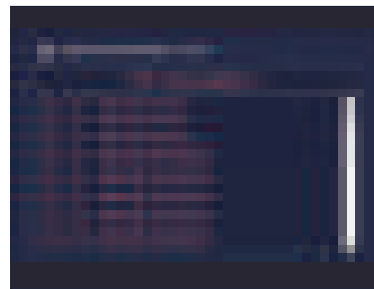
# Access management system

Operating program that can control integrated management and household safety and security (PC server + management program)



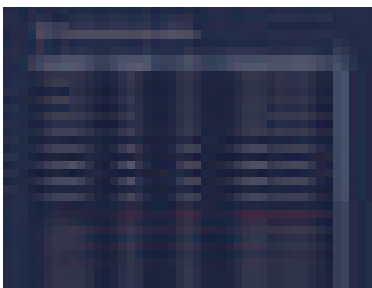
## Setting/checking registered information

Registration and management of information for access to the common entrance within the complex



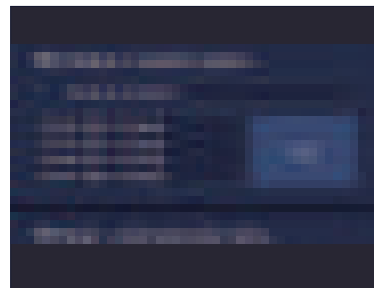
## Real-time alarm function

Real-time alarm in case of household emergency situation



## Common entrance access management

Management of overall status and information of common entrance



## Vehicle information inquiry and management

Manage vehicle information in connection with parking system

# COMMAX Security solution

## Diagram

### Central Monitoring Center

- VMAX or VNVR

VNVR

L3



### Roof (Skyview)

- Skyview camera
- Pedestrian observation

Skyview camera



### Public Lobby entrance

- Warning of illegal dumping
- Intrusion detection (warning broadcast, etc.)

Bullet camera

PTZ camera



### Parking lot

- Check parking space
- Emergency call system

Wide angle camera

Emergency call



### Vehicle entrance/exit line

- Management of entry/exit vehicles
- Parking control, license plate recognition
- Lobby phone (household call)

LPR

Lobby phone



### Elevator

- Minimize abnormal sound sources in the elevator
- Minimize blind spots

Elevator camera



Vehicle entry/exit



Underground parking lot



Public zone



Common entrance



Management office



Recycling bin



Rooftop

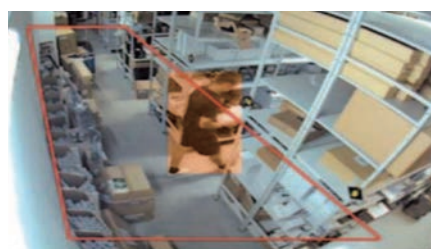


Elevator



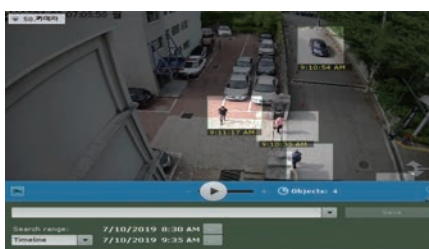
# Security intelligent solution

## Intelligent solution



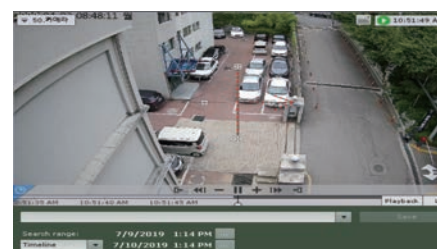
### Time Compression Functions

Simultaneous display of a situation within a specified time within one screen



### Conditional analysis function

Tracking analysis by classifying objects such as vehicle / person classification tracking / motion direction tracking / color tracking



### Intelligent video monitoring

Analyze images such as intrusion detection / fire detection and detect, and display dangerous situations by itself



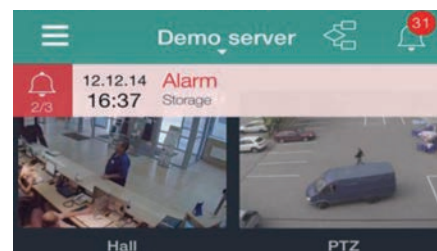
### 3D live E-MAP

3D Live E-MAP support allows for intuitive monitoring and search.



### Face recognition function

Even if you input a recorded file from other system, post-search is possible using video analysis technology.

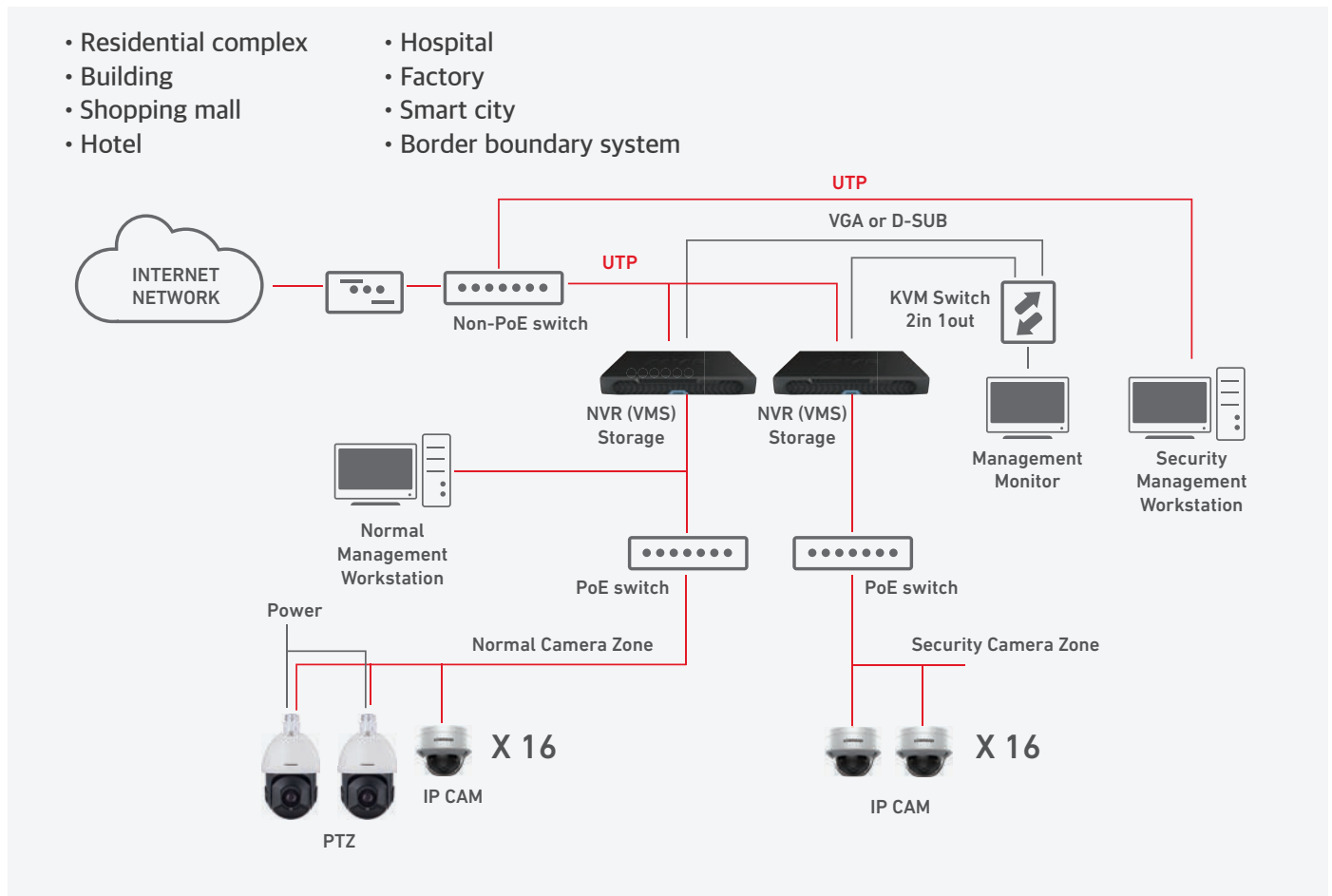


### Mobile APP monitoring

Real-time monitoring, recording search, and event check are possible through the APP.

# Security specialized cameras

## Diagram



## Camera configuration for each surveillance location



### Elevator abnormal sound source detection

Equipped with a warning light and speaker voice warning function, enabling monitoring and prevention in the event of an intrusion into a designated area such as an elevator or an incident/accident.



### Illegal parking warning broadcast

Monitor and control space where multiple vehicles pass by identifying vehicle traffic lines



### Vehicle number identification

Installed in the entry/exit area, it can identify and store the numbers of vehicles entering and exiting. Intelligent storage devices enable the movement path of vehicles to be identified and allow efficient control of vehicles within the complex.



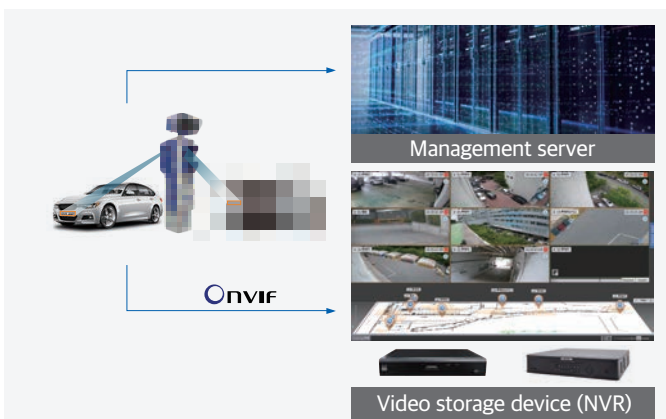
### All day color

Clear objects when shooting at night, A function that smartly corrects color and shape. Videos shot at night, recognition of objects, and emergency situations, Quick and accurate judgment possible

# Parking Control System



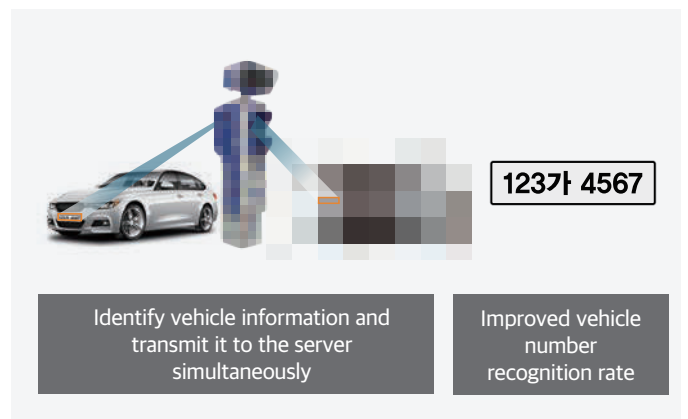
## Fast and accurate number recognition system



### Multi Streaming IP camera

Dual streaming support allows camera video to be transmitted to the number recognition system and NVR without a video transmission interface, respectively.

- Simultaneous video transmission with Multi Streaming support
- Excellent NVR compatibility by applying standard protocol (Onvif)
- Real-time monitoring and video storage without a separate CCTV camera



### Front and rear vehicle number recognition

Possible Two-way recognition and data analysis of two (front, rear) license plates of the same vehicle

- Improved vehicle number recognition rate through dual vehicle number recognition cameras
- Technology to simultaneously analyze data from the front and rear of the same vehicle
- Maintain a normal recognition rate even in bad weather such as rain or heavy snow by filming the rear license plate, which can be maintained in a relatively cleaner state than the front license plate.



## DEEP LEARNING BASE NUMBER RECOGNITION ALGORITHM

### Apartment complex server interconnection function

Recognize normal numbers through analysis and deep learning of unrecognized or misrecognized license plates through big data / Periodic updates and management

### Continuous algorithm upgrade



High electric vehicle license plate recognition rate



Normal recognition of vehicle number



Big-Data



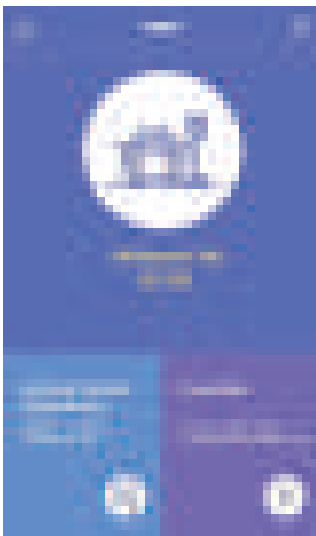
Deep Learning

## APP for Parking Control system

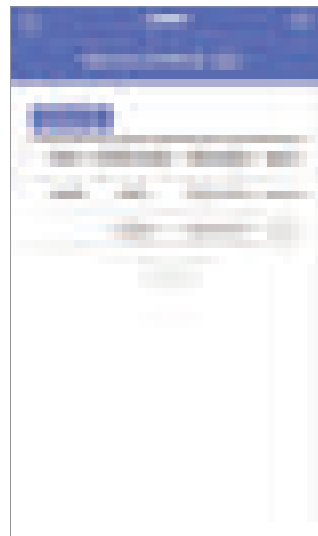
You can conveniently check parking conditions anywhere with the mobile app.



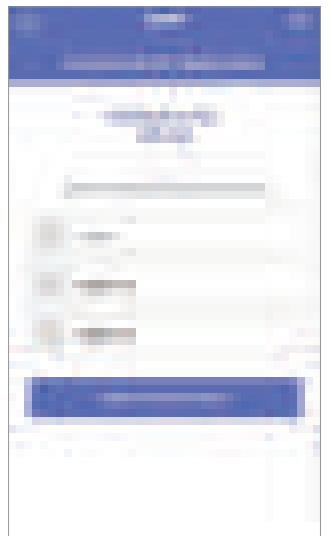
Log-in Screen



Home Screen



List of visiting vehicles

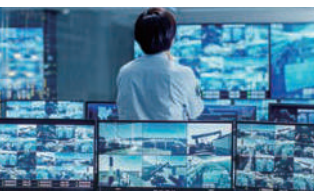


Registering Visiting vehicle

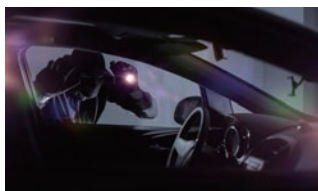
## Parking Control system



Parking guidance



Parking control



Video security



Parking location information



# IoT unmanned delivery box



## Through convenient QR code data communication

QR code on smartphone  
Deliver information through the app notifies the user.



## No need for electrical work IoT system

Simple installation work that does not require electricity supply or internet connection reduces costs and saves time.



## Conveniently configured the way you want it

Each unit can be combined depending on the installation location and purpose.



## Differentiated customer service

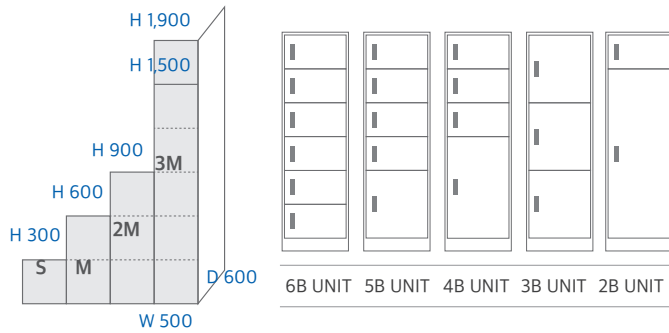
One-year free A/S, in-house call center operation, remote support, and on-site processing are available.

## Size specifications

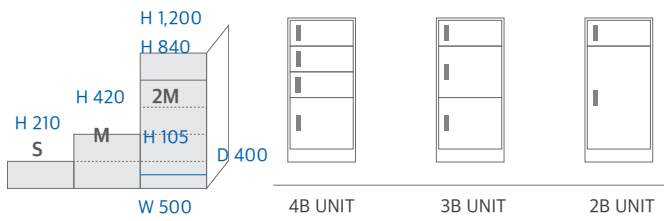
Product combinations for each unit are possible as needed.

### BASIC 1900

unit(mm)



### BASIC 1100



Division	Product Name
1900 IoT Size 1900(H) x500(W) x600(D)	10Box(6Bx4B)
	15Box(6Bx5Bx4B)
	20Box(6Bx5Bx4Bx5B)
	30Box(6Bx5Bx4B), 15Box x 2Set
	40Box(6Bx5Bx4B), 15Box x 2Set, 10Box x 1Set
	50Box(6Bx5Bx4B), 15Box x 2Set, 10Box x 2Set
	60Box(6Bx5Bx4B), 15Box x 4Set
	70Box(6Bx5Bx4B), 15Box x 4Set, 10Box x 1Set
	80Box(6Bx5Bx4B), 15Box x 4Set, 10Box x 2Set
	90Box(6Bx5Bx4B), 15Box x 6Set
100Box(6Bx5Bx4B), 15Box x 6Set, 10Box x 1Set	

## How to use

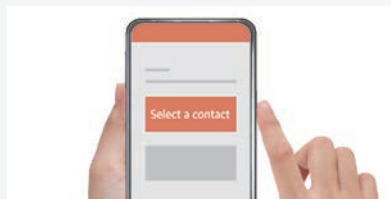
Delivery person : Scan QR through selected delivery app → Enter approval number → Store item in locker

User : Enter the authentication number received in SMS → Receive product

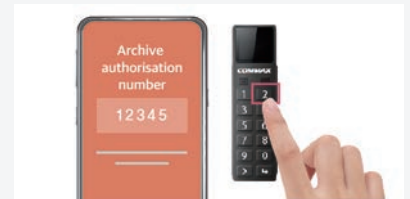
### Delivery person storage of goods



Press the start button and scan the QR code

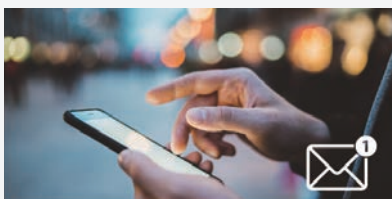


Select recipient through delivery app

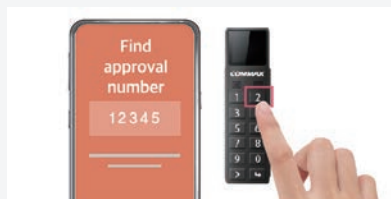


After entering the approval number, store the item in the locker.

### Storage of user items



Notification of storage and password via SMS or APP



Start button > Enter the received password



Storage box OPEN Receiving stored items

# Cyber security solution

**Cyber security solution (VPN) that blocks hacking and security threats by separating the network within the complex, further strengthening home network security**



## Logical network separation by generation without changing wall pad/network

- Each generation without changing the existing wall pad/network separation provided
- P2P communication between households is possible through VPN server routing



## Certification

- Electronic name-based authentication, mutual authentication between server and terminal
- Uses ECC-P256 algorithm



## Data confidentiality

- Application of NIS verified cryptographic module (KCMVP)
- Authentication and identification information encryption, encryption key storage in secure area



## Access control

- Only whitelist-based authorized requests can access
- Block access between households at the source, allow access only when authorized



## Data integrity

- S/W tamper-proof integrity check
- Hash and electronic signature verification



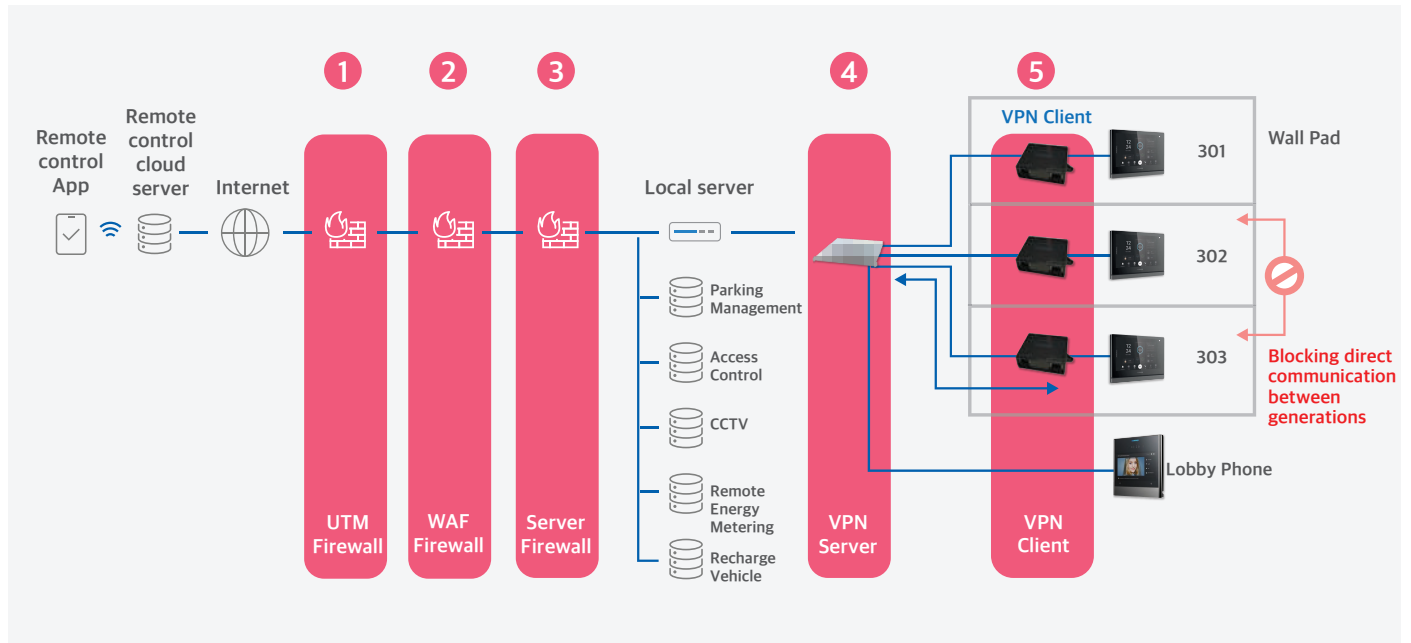
## Transmission data protection

- Transmitted data integrity verification and non-repudiation
- Complies with TLS v1.2/1.3 standards, supports AES/ARIA algorithms



## Solution Diagram

Network separation through virtual tunnel and encryption assigns individual networks to each generation.



## Division

## Specification

VPN server capacity classification	<ul style="list-style-type: none"> <li>• Classification by number of clients - 500/1000/2000/3000 Account</li> </ul>
Cloud service integration security	<ul style="list-style-type: none"> <li>• Encrypted communication between Wallpad - VPN server - (external) cloud service server applied</li> <li>• Supports applying SSL to cloud servers</li> </ul>

## Where to use



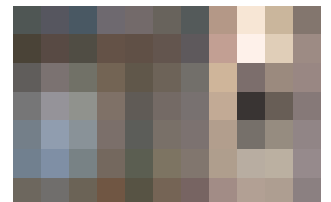
Vehicle entry/exit



Underground parking lot



Public zone



Common entrance



Management office



Recycling bin



Rooftop

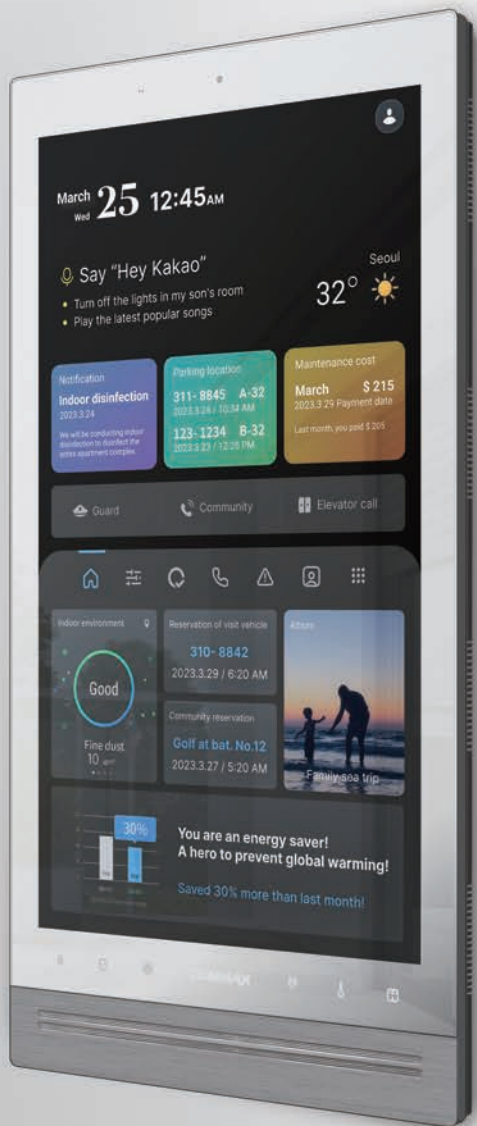


Elevator

# A.I. Home Solution

Smart A.I. service is an integrated digital voice assistant that will enhance your living experience, by allowing you to interact with your home with regular speech.

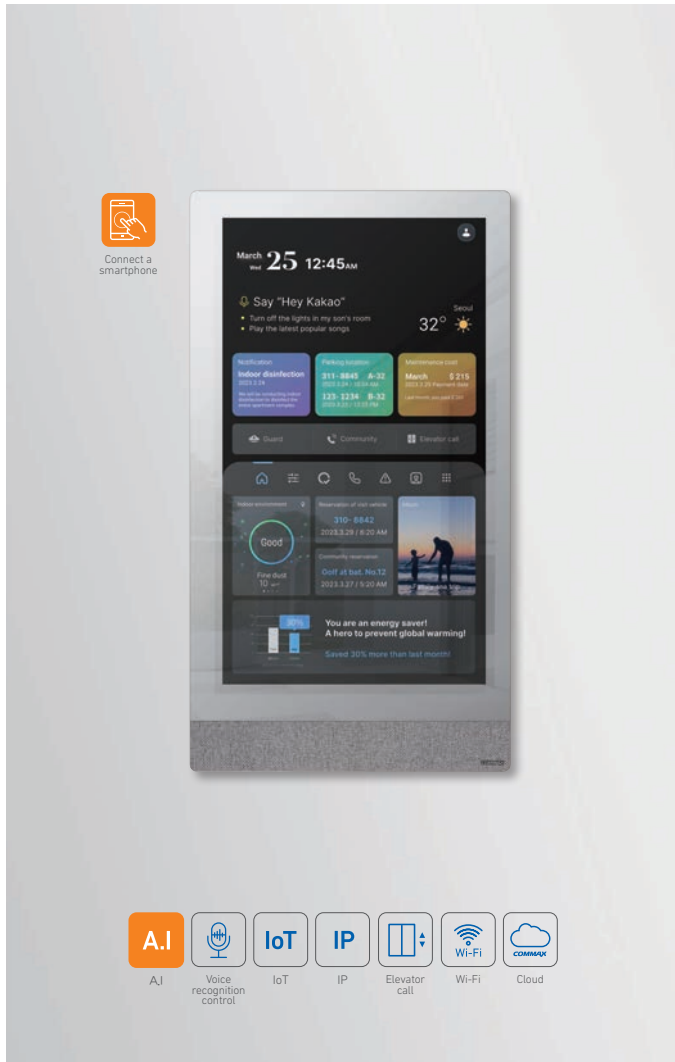
There are many wall pad options, for different types of communities and they all fully support IoT and smart home device integration. These smart homes can be connected over a standard IP network with different server options to create a fully connected smart community.



# A.I. SMART MIRROR [ANSWER S]

NEW

CSM-3200(S) (SLAVE)



- A.I.
- Voice recognition control
- IoT
- IP
- Elevator call
- Wi-Fi
- Cloud

- Control smart home devices with voice UX via A.I. speaker
- SIP, WiFi, Zigbee
- TCP/IP Communication
- Applicable for Household, Hotel, Retail outlets
- Android based UX
- Providing Full HD smart mirroring environment
- Convenience : News, Calendar, Public Notice
- Smart Home : Gas & Boiler and light extinguishment control
- Security : Emergency alarm, CCTV linked security and disaster prevention

Power source	AC 100V~240V, 50~60Hz
Display	32 inch TFT LCD (1080 x 1920 (Full HD))
Mount type	Flush-mounted type
Memory / RAM	16GB eMMC / 2GB DDR3
OS	Android
Network	Ethernet(10/100/1000 Base-T), Bluetooth, Wi-Fi (2.4GHz, 5GHz 802.11a/b/g/n/ac), ZigBee
Mic / Speaker	Digital MEMS x 2 / 5W x 2
Camera	5M CMOS
Dimension(mm)	465(W)x845(H)x50(D)

# A.I. HOME MIRROR [ANSWER H]

NEW

CHM-2200 (MASTER)  
CHM-2200(S) (SLAVE)



- A.I.
- Voice recognition control
- IoT
- IP
- Elevator call
- Wi-Fi
- Cloud

- Control smart home devices with voice UX via A.I. speaker
- Smart home device and sensor interworking by wire (485) and wireless (ZigBee)
- Frequently used functions are easily operated by buttons
- Door camera - video call, monitoring, door open / Lobby video call and door open / guard station call and talk
- Smart home control and video call through mobile App

Power source	DC 12V, 5A
Display	21.5 inch TFT LCD (1080 x 1920 (Full HD))
Mount type	Flush-mounted type
Memory / RAM	16GB eMMC / 2GB DDR3
OS	Android
Network	Ethernet(10/100/1000 Base-T), Bluetooth, Wi-Fi (2.4GHz, 5GHz 802.11a/b/g/n/ac), ZigBee
Mic / Speaker	Digital MEMS x 2 / 2W x 2
Camera	5M CMOS
Dimension(mm)	313.4(W)x600.4(H)x27.6(D)



## A.I. MONITOR [ANSWER T]

NEW

CAP-1001A (MASTER)

CAP-1000A (SLAVE)



- Google A.I. speaker interwork and voice recognition (CAP-1001A)
- Control smart home devices by voice recognition
- Connect to IoT devices
  - switch, curtain, blind, gas lock, power outlet and plug
- Opened door, temperature, humidity and motion detection
- Connects with smartphone
- Screen brightness optimized by lighting sensor

Power source	DC 12V
Display	10.1 inch IPS LCD (1280 x 800 (HD))
Mount type	Table type
Memory / RAM	16GB eMMC / 2GB DDR3
OS	Android
Network	Wi-Fi (2.4GHz, 802.11b/g/n), ZigBee (2.4GHz HA1.2), Bluetooth
Mic / Speaker	Digital MEMS x 2 / 10W FR X 2ch + Passive Radiator
Dimension(mm)	250(W)x210(H)x106.3(D)

## MONITOR

NEW

CIOT-1000YN



- Google A.I. speaker interwork and voice recognition
- Automatic recording function (door camera motion detection)
- Connectable to both, wireless IoT devices (Zigbee) and wired devices(485)
- Smartphone integration through COMMAX IoT app
- Easy registration of door camera and CCTV through auto scan function
- Visitor storage function (32GB of external memory)

Power source	PoE S/W
Display	10.1 inch TFT LCD (1024 x 600)
Mount type	Wall-mounted type
Memory / RAM	16GB eMMC / 1GB DDR3
CPU	Quad core
OS	Android
Network	Wi-Fi 2.4Ghz, IEEE 802.15.4, Zigbee HA 1.2(Compatible)
Dimension(mm)	261(W)x184(H)x26(D)

## MONITOR

CIOT-700M2



- Google A.I. speaker interwork and voice recognition
- Automatic recording function (door camera motion detection)
- Connectable to both wireless IoT devices (Zigbee) and wired devices (485 or General type)
- Smartphone integration through COMMAX IoT app
- Easy registration of door camera and CCTV through auto scan function

Power source	PoE S/W
Display	7 inch TFT LCD (1024 x 600)
Mount type	Wall-mounted type
Memory / RAM	16GB eMMC / 1GB DDR3
CPU	Quad core
OS	Android
Network	Wi-Fi 2.4Ghz, IEEE 802.15.4, Zigbee HA 1.2(Compatible), Ethernet(SIP)
Dimension(mm)	244(W)×180(H)×18(D)

## DOOR CAMERA

CIOT-D20Y



- Door lock release (DC type)
- SIP-based VoIP system
- Touch button
- Digital Door lock connectable
- Indoor Unit
- Echo cancelling function

Power source	PoE S/W
Camera	2M pixel
Mount type	Wall-mounted type
Angle	120°
Protection class	IP54
Video codec	H.264
Dimension(mm)	108(W)×146(H)×28(D)

## DOOR CAMERA

CIOT-D21M · D20M



CIOT-D20M

CIOT-D21M

- Door lock release (DC Type)
- Acrylic cover (CIOT-D20M), Metallic cover (CIOT-D21M)
- Tact button (CIOT-D21M), Touch button (CIOT-D20M)
- SIP-based VoIP system
- Echo cancelling function

Power source	PoE S/W
Camera	2M pixel
Mount type	Wall-mounted type
Angle	120°
Protection class	IP54
Video codec	H.264
Dimension(mm)	112(W)×146(H)×28(D)

## DOOR CAMERA

CIOT-D20P



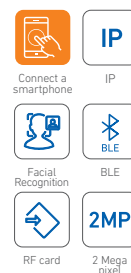
- Vandal proof design
- Button LED
- 2 door open
- Waterproof(IP 67)
- SIP-based VoIP system
- Echo cancelling function

Power source	PoE S/W
Camera	2M pixel
Mount type	Wall-mounted type
Angle	90°
Protection class	IP67
Video codec	H.264
Dimension(mm)	59(W)×164(H)×42(D)

## FACE RECOGNITION ENTRANCE STATION

NEW

CIOT-LBIO



- Facial recognition
- E-Key function(Connect a smartphone)
- Door open by RF card/password
- Able to post local advertisements

Power source	DC 14V
Display	10.1 inch TFT LCD
Camera	2M IP Camera(Wide angle 150°)
Mount type	Flush-mounted type
Angle	150°
CPU	Quad core
OS	Android
Dimension(mm)	260(W)×270(H)×26(50)(D)
Installation hole size(mm)	207(W)×217(H)

## ENTRANCE STATION

CIOT-L20M2



- Space blue ● Silver ● Dark gray
- Name searching through LCD display
- SIP-based VoIP system • TCP/IP Communication
- 2MP camera • BLE recognition • RFID card
- Used as a gate phone and lobby phone at barrier gate of parking • Motion Detection
- Elevator Call function (Connects to CCU-310EV)

Power source	DC 14V
Display	7 inch TFT LCD
Camera	2M pixel
Mount type	Flush-mounted type
Angle	120°
CPU	Dual core
OS	Android
Dimension(mm)	249(W)×256(H)×7(36)(D)
Installation hole size(mm)	210(W)×216(H)

## ENTRANCE STATION

CIOT-L20MP



- House call by household number
- Security office call enable
- Name searching through OLED display
- SIP-based VoIP system
- BLE recognition

Power source	DC 14V
Display	2.4 inch OLED
Camera	2M pixel
Mount type	Flush-mounted type
Angle	120°
CPU	Dual core
OS	Android
Dimension(mm)	130(W)×248(H)×12(23)(D)
Installation hole size(mm)	112(W)×211(H)

## ENTRANCE STATION

CIOT-L7FM



- House call by household number
- Security office call enable
- Name searching through LCD display
- SIP-based VoIP system
- BLE recognition

Power source	DC 14V
Display	7 inch TFT LCD
Camera	2M pixel
Mount type	Flush-mounted type
Angle	120°
CPU	Dual core
OS	Android
Dimension(mm)	130(W)×248(H)×12(23)(D)
Installation hole size(mm)	112(W)×211(H)

## ENTRANCE STATION

CIOT-L10M



- Security office call enable
- Name searching through OLED display
- SIP-based VoIP system
- BLE recognition
- Registering RFID card

Power source	DC 14V
Display	2.4 inch OLED
Camera	2M pixel
Mount type	Flush-mounted type
Angle	120°
CPU	Dual core
OS	Android
Dimension(mm)	130(W)×248(H)×12(23)(D)
Installation hole size(mm)	112(W)×211(H)

## ENTRANCE STATION

CIOT-24XM



- Extension panel with name plate
- Call a household unit
- 24 button for house call

Power source	DC 14V
Mount type	Flush-mounted type
Dimension(mm)	130(W)×248(H)×12(23)(D)
Installation hole size(mm)	112(W)×211(H)

## GUARD STATION

CIOT-G701M



- SIP-based VoIP system
- Emergency check and release
- House call and talk
- Saving visitors image & video clip(Main entrance)
- Check visitors at security office from the household monitor

Power source	DC 14V
Display	7 inch TFT LCD
Camera	VGA
Mount type	Desktop / Wall-mounted
OS	Android
Video codec	H.264
Dimension(mm)	252(W)×247(H)×33(D)



## SIP GATEWAY

CGW-1KM



- SIP user (unit) registration function (100 units)
- Control of emergency and event history management for SIP user
- Control of Access device (Lobby phone) by password and card

Power source	PoE S/W
CPU	Dual Core
RAM	DDR3 / 1GB
Flash	eMMC 4GB
OS	Linux
Network	SIP
Dimension(mm)	104(W)x94(H)x29(D)

## 4(8) PORT POE S/W

CIOT-H4L2 · H8L2



- 4(8)ch x 10/100Mbps port
- 4(8)ch x supporting network cable powering
- 4(8)ch x cascading LAN interfaces
- Built-in voltage-stabilized power

Power source	AC 100~240V, 50/60Hz
PoE output	DC 48~52V
Speed	4/8ch x 10/100Mbps
Wiring ports	UTP (70m)
Dimension(mm)	CIOT-H4L2 : 200(W)x120(H)x40(D) CIOT-H8L2 : 270(W)x180(H)x44(D)

## SERVER

CHS-40DS/LS/BS



- COMMAX LINUX server based embedded system
- IP digital method housing install

CPU	Intel2 Xeon Processor E-2124 V8 (3.3GHz/8M)
Capacity	1,000 Households
RAM	16G DDR3 PC4-2400 ECC/ REG 8G x 2EA
OS	Embedded Linux
HDD	1TB S-ATA3, 7200rpm, 64MB
Dimension(mm)	437(W)x594(H)x44(D)

## SERVER

CHS-60DS/LS/BS



- COMMAX LINUX server based embedded system
- IP digital method housing install

CPU	Intel2 Xeon 6generation E-2124 (Quad core(4) / 3.5GHz / 8MB)
Capacity	2,000 Households
RAM	16G DDR3 PC4-2400 ECC/REG
OS	Embedded Linux
HDD	1TB S-ATA3 6G, 7200rpm, 64MB x 2EA RAID
Dimension(mm)	437(W)x648(H)x89(D)

## LAYER 3 SWITCH

CSS-24H3/DY



- Twenty 100/1000Base-X ports and four GE combo ports
- Subcards supported : 4x1000Base-X SFP subcard, 2x10GE SFP+ subcard and 4x10GE SFP+subcard

Downlink port	Twenty-four 10/100M electrical ports
Uplink port	2GE electrical ports 2GE SFP optical ports
MAC address table	8K MAC
Input voltage	AC100-240V, 50/60Hz
Power consumption	20W
Operating temp.	0°C~45°C
Dimensions(mm)	442(W)x44(H)x220(D)

## LAYER 2 SWITCH

CSS-24H2/DY

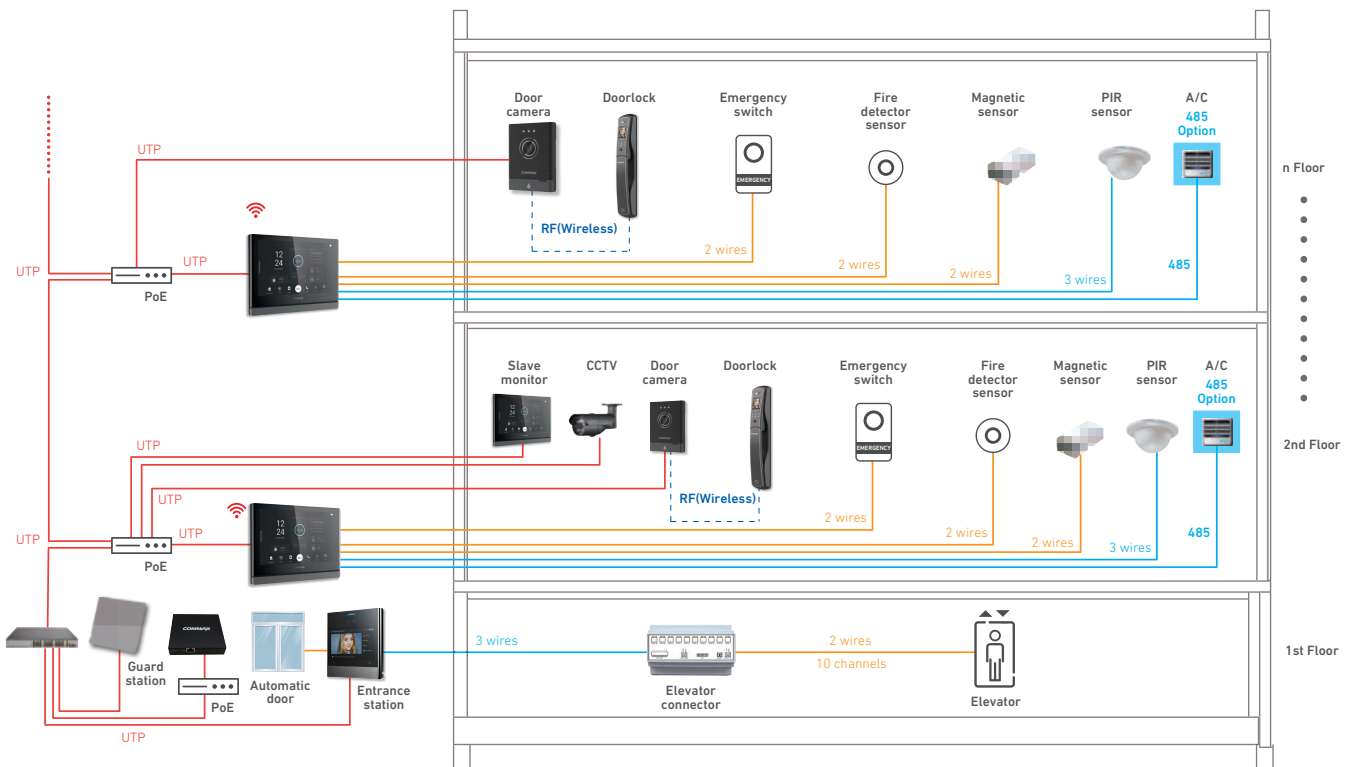
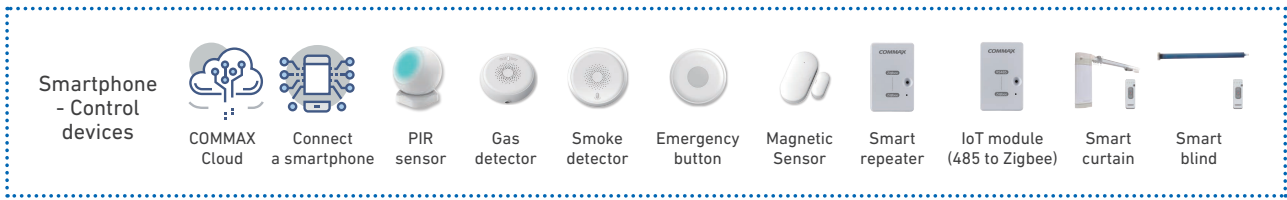


- Twenty-four 10/100M Ethernet electrical port
- Two GE RJ45 ports
- Two GE SFP port
- AC Power supply
- Packet forwarding rate : 9.6 Mpps
- Switching capacity : 12.8 Gbps

RAM	63W
Fixed port	20x100/1000Base-X ports and 4 Combo
Forwarding performance	96Mpps
Switching capacity	128Gbps
MAC address table	32K
Input voltage	AC 100-240V, 50/60Hz DC -48V~-60V
Dimension(mm)	442(W)x44(H)x420(D)

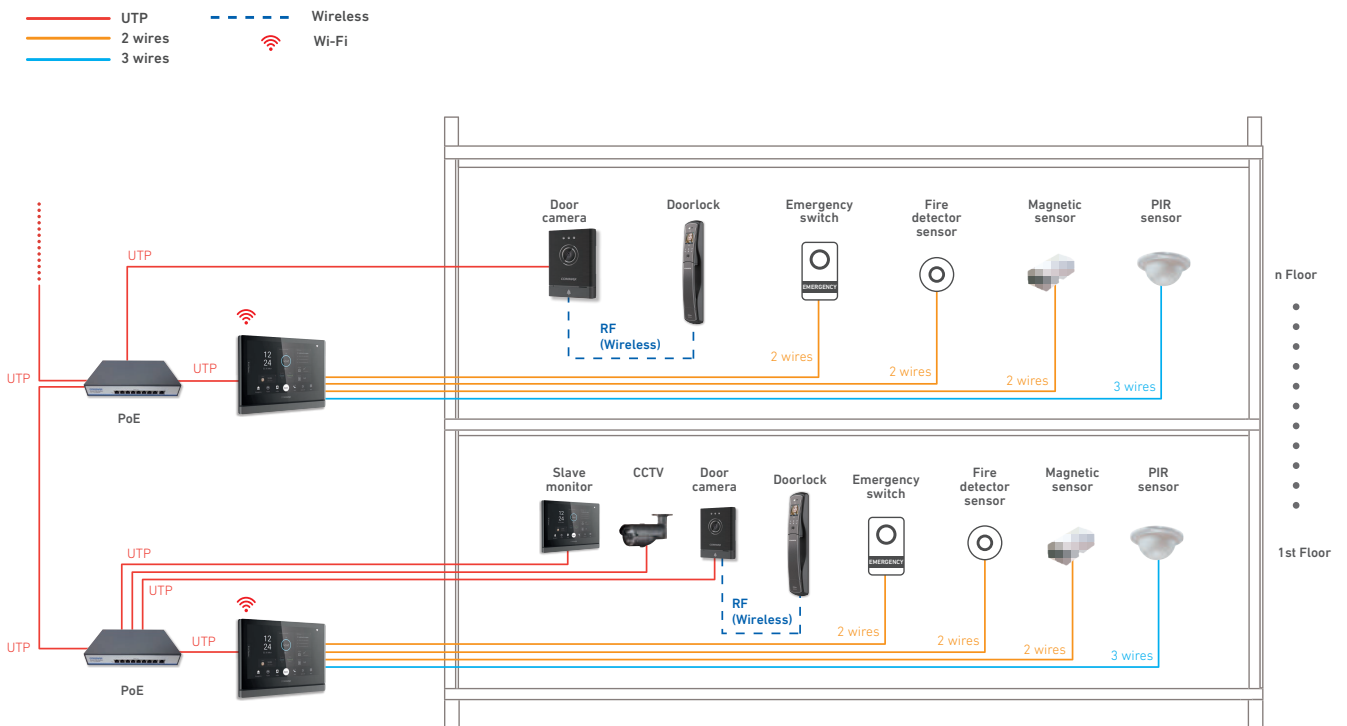
# APPLICATION | A.I. HOME SOLUTION

## APARTMENT COMPLEX



# APPLICATION | A.I. HOME SOLUTION

## SINGLE HOUSE



# IP SOLUTION

This solution is specialized for households:  
It is a complete solution that is easy and fast to install  
and can be deployed to an infinite number of households.





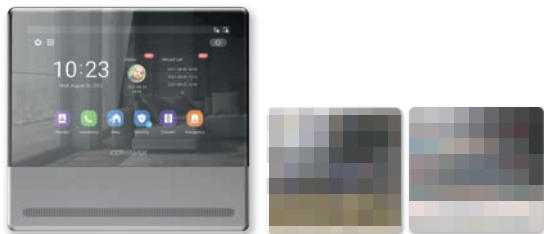
# MONITOR

CIP-70QPT

NEW



Video & picture auto recording



Case Color ● Neo-Silver ● Gold ○ White Pearl

- Smartphone video call (COMMAX Hey Call App) and CCTV monitoring
- Push alarm, Smartphone video recording, motion detection function
- Door open by digital doorlock function (Door open option setting)
- Full-touch display, image storage (Micro SD Card required)
- Compatible with IP door camera (CIP camera) and CCTV camera
- Recording by NVR of CCTV video
- Max. 4 Monitors (Master/Slave)
- Video recording (Motion detection and recording video)

Power source	PoE S/W
Display	7 inch IPS LCD (1024 x 600)
Mount type	Wall-mounted type
Resolution	1024 x 600
Network	Ethernet(10/100 Base-T), Wi-Fi
Camera	2M Pixel
Wiring ports	UTP (CAT.5e) /Door camera : 4 wires, RS-485 : 3 wires Digital door lock : wireless (RF-447), Sensor : 5 wires
Dimension(mm)	184(W)x171(H)x22(D)

# DOOR CAMERA

CIP-D20YS

NEW



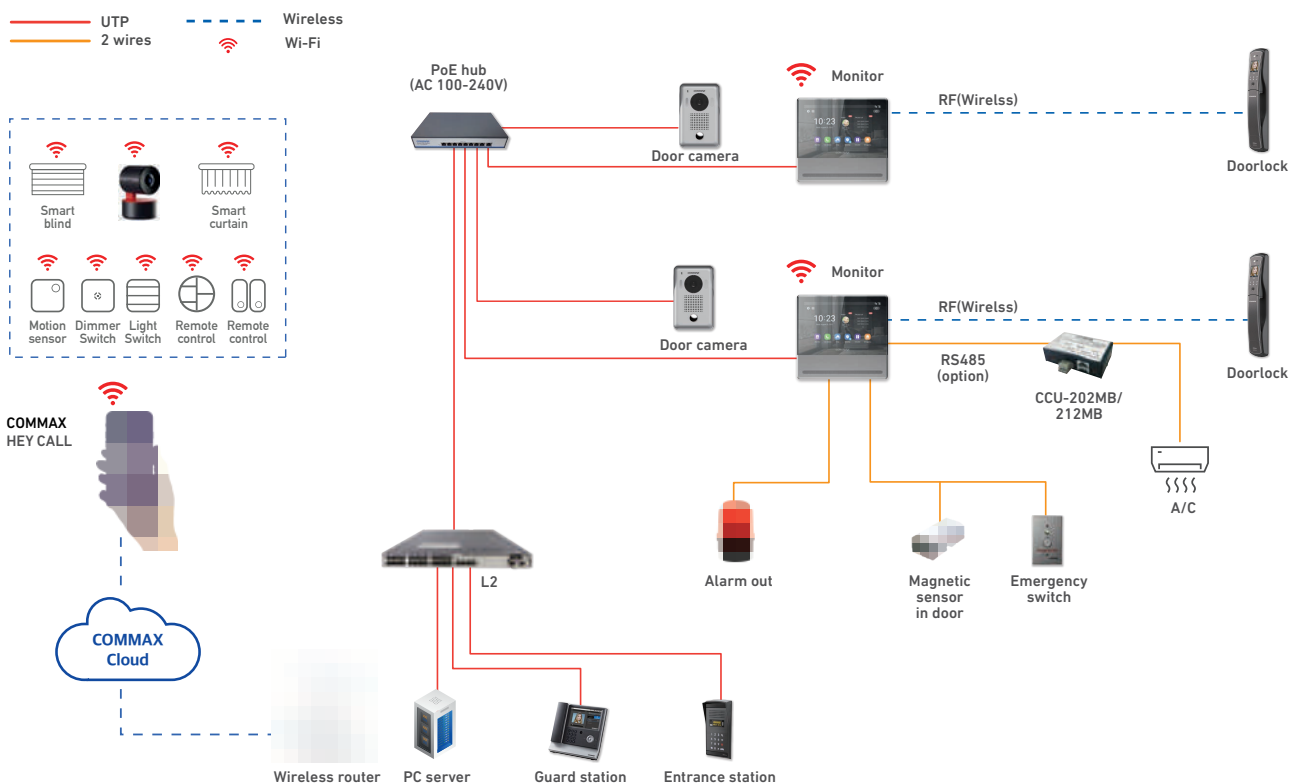
2mega pixel



- SIP, Onvif Standard
- PoE type (1UTP)
- Visitor call with video
- FULL HD (2M) High-resolution camera
- Indicator LED applied to call button
- Application of IR or WHITE LED for night identification
- 2 door release function (door1, door2)

Power source	PoE
Resolution	2M Pixel (1080P)
Operation temp.	-10°C ~ +40°C
Wiring ports	UTP (CAT.5e)
Camera viewing angle	120°
IP Rating	IP65
Dimension(mm)	107(W)x165(H)x51(D)

## APPLICATION | IP SOLUTION - APARTMENT COMPLEX



## MONITOR

CIP-710QP



Video&picture auto recording



**Case Color** ● Neo-Silver ● Gold

- Door open for entrance station
- Full-touch display
- AHD 1MP door camera
- Security call
- Emergency switch
- Video recording
- Image recording (Mini SD card 16GB)(option)

Power source	PoE S/W
Display	7 inch IPS LCD (1024 x 600)
Mount type	Wall-mounted type
Network	Ethernet(10/100 Base-T), RS485
Camera	Under AHD 1MP
Wiring ports	UTP (CAT.5e) /Door camera : 4 wires, RS-485 : 3 wires Digital door lock : wireless (RF-447), Sensor : 5 wires
Dimension(mm)	184(W)x171(H)x22(D)

## MONITOR

CIP-710M



Video&picture auto recording

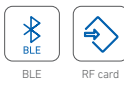


- SIP based IP monitor
- AHD 1MP door camera
- DID function
- Guard and elevator call via RS-485 (Optional connecting CCU-310EV)
- Connecting security, emergency, PIR devices and a digital door lock

Power source	AC 100~240V(50~60Hz)(option) or DC 14V
Display	7 inch TFT LCD (1024 x 600)
Mount type	Wall-mounted type
Network	Ethernet(10/100 Base-T)
Camera	Under AHD 1MP
Wiring ports	Door camera : 4 wires, RS-485 : 3 wires, Sensor: 5 wires, Digital door lock : wireless(RF-447) Hub : UTP(CAT.5e), DC 12V Out : 2 wires
Dimension(mm)	244(W)x180(H)x22(D)

## ENTRANCE STATION

CIOT-L20M2



2 Mega pixel



Rainshield(option)

**Case Color** ● Space blue ● Silver ● Dark gray

- SIP-based VoIP system
- BLE recognition
- TCP/IP Communication
- RFID card
- Motion detection
- Elevator call function(Connects to CCU-310EV)

Power source	DC 14V
Display	7 inch TFT LCD (800 x 480)
Camera	2MP camera
Mount type	Flush-mounted type
Wiring	LAN(Cat.5e)
Operation Temp	-20°C~+50°C
Dimension(mm)	249(W)x256(H)x7(36)(D)
Installation hole size(mm)	210(W)x216(H)
Fill up box size(mm)	220(W)x240(H)x81(D)

## GUARD STATION

CIOT-G701M



- SIP-based VoIP system
- Emergency check and release
- House call and talk
- Recording visitors image & video clip(Main entrance)
- Visitor monitoring and calling at the public entrance
- Check security office visitors on the household monitor(CIOT-G701M)

Power source	DC 14V
Display	7 inch TFT LCD
Mount type	Desktop / Wall-mounted type
Camera	VGA
OS	Android
Video codec	H.264
Dimension(mm)	252(W)x247(H)x33(D)

# IP DISTRIBUTOR

CCU-IPBUS

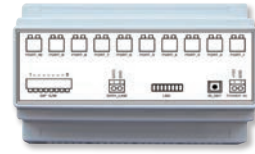


- BUS type(In/Out)
- Board for multi configuration(Need each house)
- 3 Port : Wall pad / Up Link / Down Link

Power source	DC 12V
Network	Ethernet(10/100 Base-T)
Wiring ports	Monitor/ Up Link/Down Link : UTP(CAT.5e)
Distance	Hub : 100m(UTP)
Dimension(mm)	44(W)x77(H)

# ELEVATOR CONNECTOR

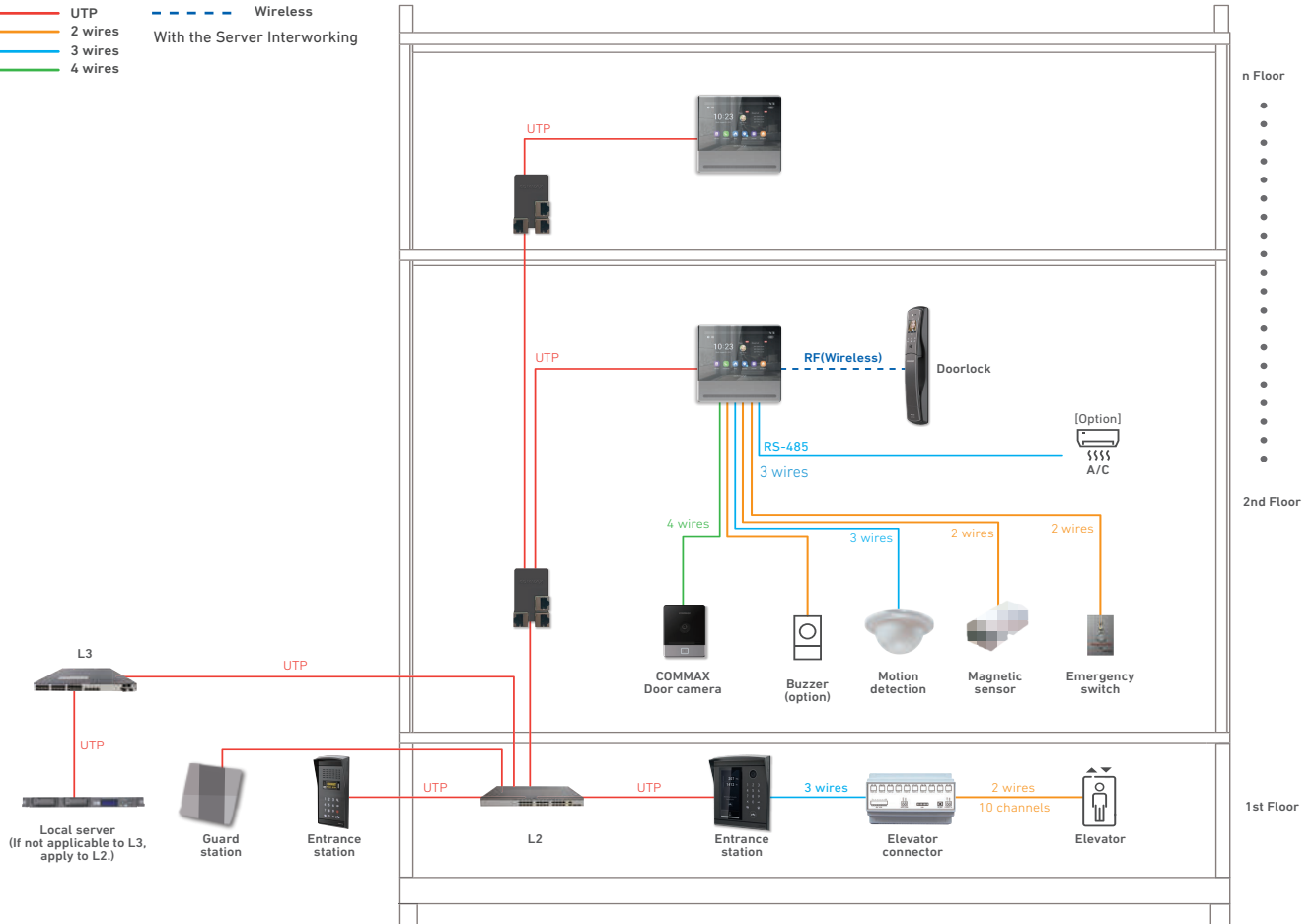
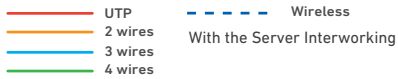
CCU-310EV



- Able to call from Entrance station and Monitor (Lobby mode / Unit mode)
- Unit mode : Able to set up to 630 units or 80 floors
- Lobby mode : Able to set up to 89 Entrance stations

Power source	DC 12V
Mount type	Wall-mounted type, DIN rail type
Wiring	DATA : 2 wires Elevator S/W : 2 wires x 10ports
Distance	1km (0.65Ø)
Dimension(mm)	157(W)x86(H)x59(D)

## APPLICATION | IP SOLUTION - APARTMENT COMPLEX



Apartment / Condominium / Villa / Single house

See & Open with your Smart Phone

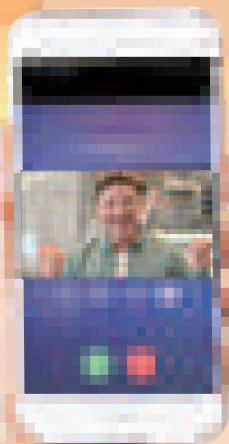
# SmartView



Talk with visitor and open door anywhere with your Smart Phone. Real-time monitoring and video/photo saving via motion detection enhance your home security. IoT device using same platform can be controlled with COMMAX HeyCall app and experience an upgrading SmartHome service with Smartview.

## Home In Hand!

Smart video door phone helping you, Anywhere & Anytime, talk to guests by smartphone!



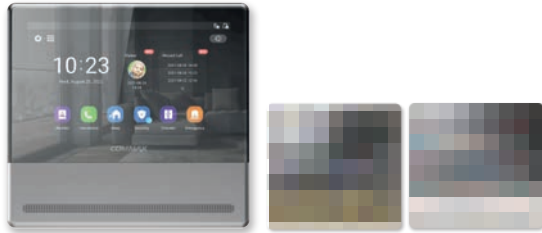


# IP SmartView

## MONITOR

CIP-70QPT

NEW



**Case Color** ● Neo-Silver ● Gold ○ White Pearl

- Smartphone video call (COMMAX Hey Call App) and CCTV monitoring
- Push alarm, Smartphone video recording, motion detection function
- Door open by digital doorlock function (Door open option setting)
- Full-touch display, image storage (Micro SD Card required)
- Compatible with IP door camera (CIP camera) and CCTV camera
- Recording by NVR of CCTV video
- Max. 4 Monitors (Master/Slave)
- Video recording (Motion detection and recording video)

Power source	PoE S/W
Display	7 inch IPS LCD (1024 x 600)
Mount type	Wall-mounted type
Resolution	1024 x 600
Network	Ethernet(10/100 Base-T), Wi-Fi
Camera	2M Pixel
Wiring ports	UTP (CAT.5e) /Door camera : 4 wires, RS-485 : 3 wires, Buzzer : 2 wires, Alarm out : 2 wires
Dimension(mm)	184(W)x171(H)x22(D)

## DOOR CAMERA

CIP-D20YS

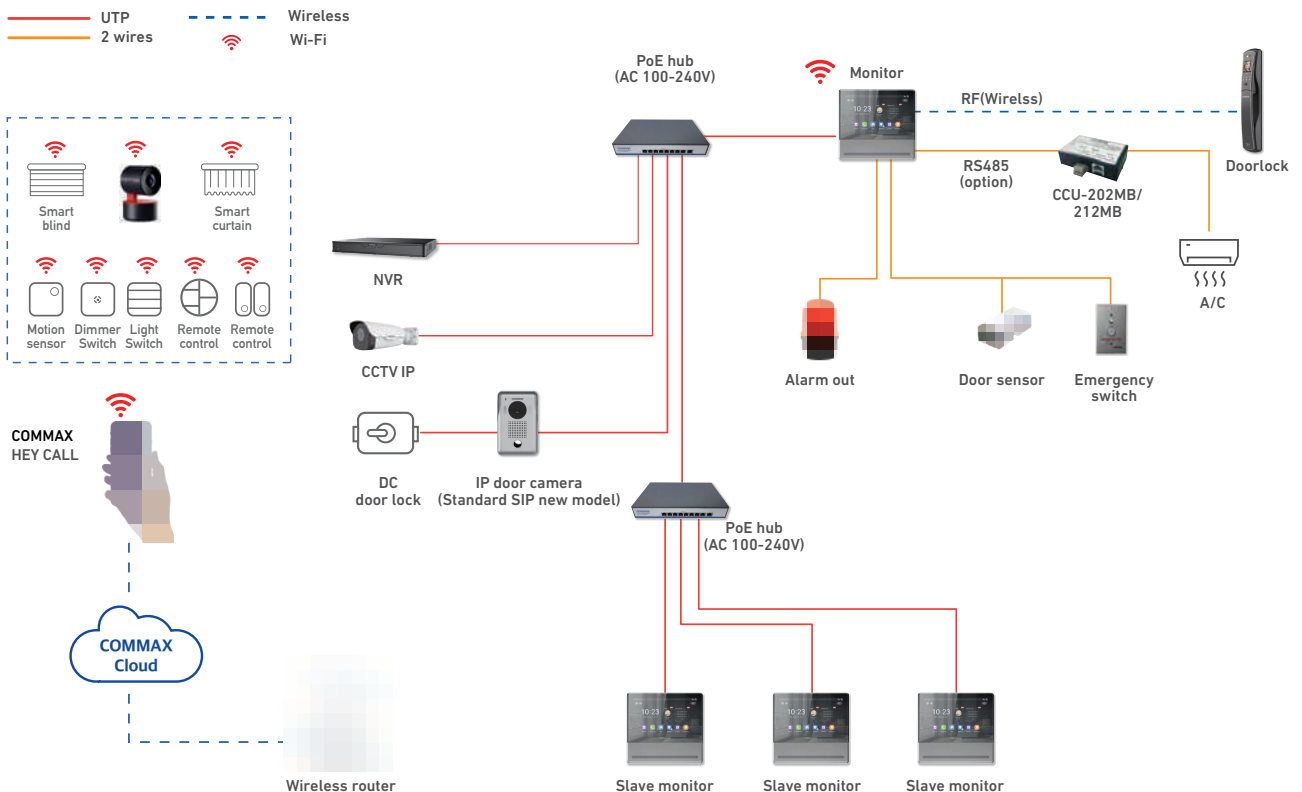
NEW



- SIP, Onvif Standard
- PoE type (1UTP)
- Visitor call with video
- FULL HD (2M) High-resolution camera
- Indicator LED applied to call button
- Application of IR or WHITE LED for night identification
- 2 door release function (door1, door2)

Power source	PoE
Resolution	2M Pixel (1080P)
Operation temp.	-10°C ~ +40°C
Wiring ports	UTP (CAT.5e)
Camera viewing angle	120°
IP Rating	IP65
Dimension(mm)	107(W)x165(H)x51(D)

## APPLICATION | SmartView - SINGLE HOUSE



## MONITOR (4-4-4)

CDV-1004QT

NEW



Connect a smartphone



**Case Color** ● Neo-Silver ● Gold ○ White Pearl

- Black mirror & Tempered Glass • Full touch display
- WiFi based Monitor connecting with smartphone
- 2MP AHD door camera connection • Motion detecting
- Internal memory 50 CUT, external memory 128GB
- 2 Door camera & Digital door lock connecting
- Smartphone video call • Two Magnetic Sensors interlocking
- Image, Video recording function

Power source	AC 100-240V, 50/60Hz (To SMPS)
Display	10.1 inch IPS LCD (1280 x 800)
Mount type	Wall-mounted type
Wiring	Door camera : 4 wires / Expansion : 4 wires CCTV : 2 wires / Magnetic sensor : 2 wires
Network	Wi-Fi 2.4Ghz
Camera	Under AHD 2MP
Dimension(mm)	250(W)x210(H)x22(D)

## MONITOR (2-2-2)

CDV-70QT

NEW



Connect a smartphone



**Case Color** ● Neo-Silver ● Gold ○ White Pearl

- Black mirror & Tempered Glass • Full touch display
- WiFi based Monitor connecting with smartphone
- Interlock with 2 MP AHD door camera • Motion detecting
- Internal memory 50 CUT, external memory 128GB
- Smartphone video call • Magnetic Sensor 1, 2 interlock
- Image, Video recording function
- Digital door lock connecting

Power source	AC 100-240V, 50/60Hz (To SMPS)
Display	7 inch IPS LCD (1024 x 600)
Mount type	Wall-mounted type
Wiring	Door camera : 4 wires / Digital door lock : wireless (RF-447) / Magnetic sensor : 2 wires x 2
Network	Wi-Fi 2.4Ghz
Camera	Under AHD 2MP
Dimension(mm)	184(W)x171(H)x22(D)

## DOOR CAMERA

DRC-4PF

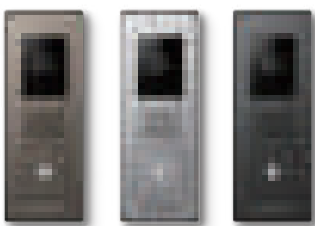
NEW

IP65

IP 65

2MP

2mega pixel



- Illumination sensor & Night LED (IR LED)
- Volume control
- House call and talk

Power source	DC 12V(From monitor)
Material	Die Casting
Resolution	AHD 2MP
Mount type	Wall-mounted type
Angle	110~120°
Wiring	4 wires
IP Rating	IP65
Operation Temp	-30°C ~ +50°C
Dimension(mm)	50(W)x135(H)x26(D)

## DOOR CAMERA

DRC-40YFD

NEW

2MP

2mega pixel



- 2 Door open camera
- House call and talk
- Built-in illumination sensor and white LED
- Available for indoor and outdoor

Power source	DC 12V(From monitor)
Material	Die Casting
Resolution	AHD 2M pixel
Mount type	Wall-mounted type
Angle	135°(D)
Wiring	4 wires
Operation Temp	-10°C ~ +50°C
Dimension(mm)	102.5(W)x160(H)x50(D)

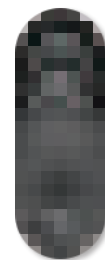
## DOOR CAMERA

DRC-4CPHD2

NEW

2MP

2mega pixel

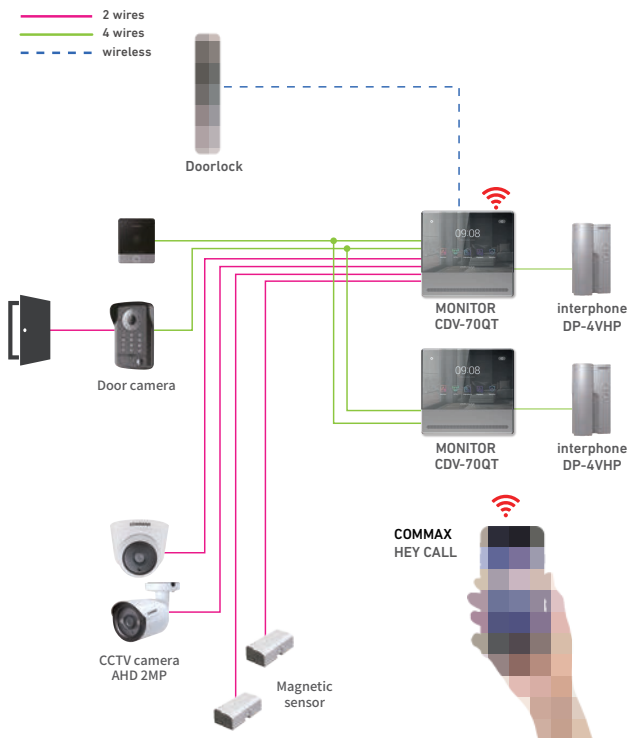


- Built-in illumination sensor and white LED
- Available for indoor and outdoor
- House call and talk

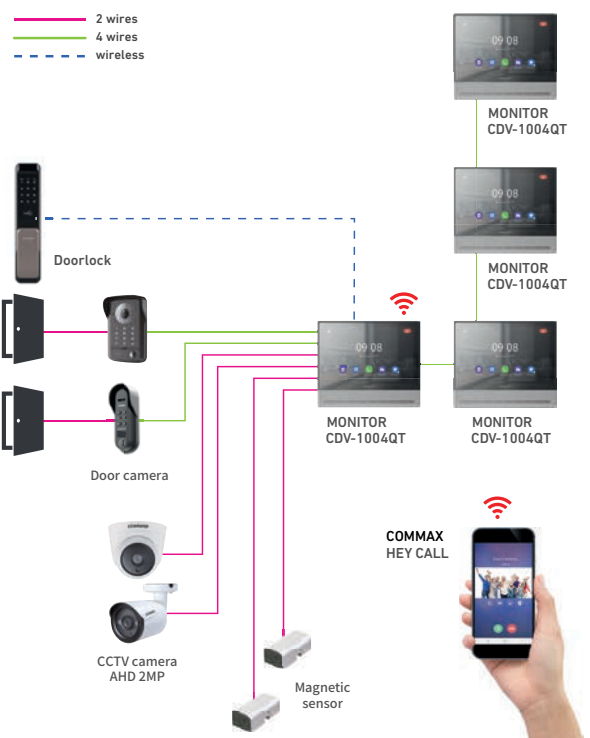
Power source	DC 12V(From monitor)
Material	Die Casting
Resolution	AHD 2M pixel
Mount type	Wall-mounted type
Angle	97°(D)
Wiring	4 wires
Operation Temp	-10°C ~ +40°C
Dimension(mm)	58.7(W)x164(H)x42(D)

# APPLICATION

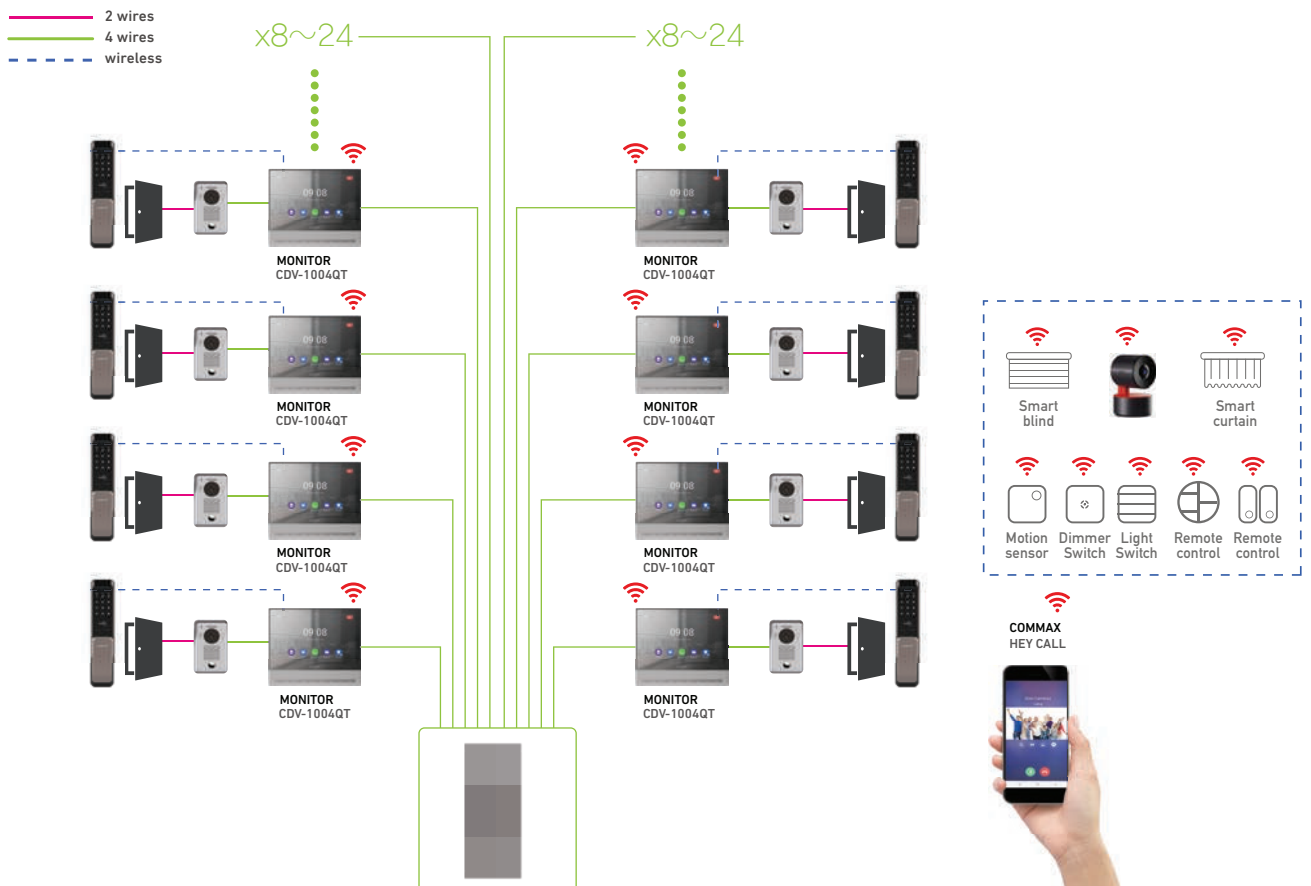
## SINGLE HOUSE (CDV-70QT)



## SINGLE HOUSE (CDV-1004QT)



## SMART APARTMENT + IoT (CDV-1004QT)



Single house

# HOME BLACK BOX

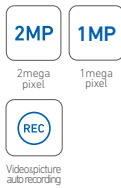
COMMAX HOME BLACK BOX monitor is a powerful security system that detects and records activities around your home. It enables real-time monitoring through your smartphone.





## MONITOR (4-4-4)

CDV-1024MA

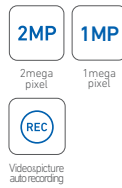


- Security function(Security sensor 1,2)
- Connecting 2 individual door camera & 2 CCTV  
(Call from individual door camera, all monitor will be displayed.)
- Intercommunicate between monitors (Page & Call)
- Saving image & video clip(With Micro SD)
- DVR function with SD card (256GB) • 2MP camera
- Motion detection and image saving(optional) • Connect 4 monitor available

Power source	AC 100-240V, 50/60Hz
Display	10.1 inch TFT LCD (1024x600)
Mount type	Wall-mounted type
Wiring	Door camera : 4 wires / Expansion : 4 wires CCTV : 2 wires / Magnetic sensor : 2 wires
Camera	Under AHD 2MP
Dimension(mm)	308(W)x213(H)x23(D)

## MONITOR (4-4-4)

CDV-704MF



- Security function (Security sensor 1, 2)
- Connecting 2 individual door cameras & 2 CCTVs  
(Call from individual door camera, all monitor will be displayed.)
- Intercommunicate between monitors (Page & Call)
- Saving image & movie clip (With Micro SD)
- DVR function with SD card (256GB) • 2MP camera
- Motion detection and image saving (Optional)

Power source	AC 100-240V, 50/60Hz
Display	7 inch TFT LCD (1024 x 600)
Mount type	Wall-mounted type
Wiring	Door camera : 4 wires / Expansion : 4 wires CCTV : 2 wires / Magnetic sensor : 2 wires
Camera	Under AHD 2MP
Dimension(mm)	244(W)x180(H)x18(D)

## MONITOR (2-2-2)

CDV-70MF



- Auto saving image & movie clip (Motion sensing)
- Security function(Wired sensor 1,2)
- Recording function with Micro SD card (256GB)
- 1MP camera • Monitoring function (Door cameras & CCTVs)
- Controlling 2 Doors (Only CAM1)
- Intercommunicating with Monitor & Interphone

Power source	AC 100-240V, 50/60Hz
Display	7 inch TFT LCD
Mount type	Wall-mounted type
Wiring	Door camera 1, 2 : 4 wires x 2 port Intercom: 4 wires, door detecting 1, 2 : 2 wires x 2 port CCTV 1, 2 : 2 wires x 2port / Digital door lock : 4 wires (Power 2 : wires / opening short : 2 wires)
Camera	Under AHD 1MP
Dimension(mm)	244(W)x180(H)x18(D)

## DOOR LOCK CAMERA

DRC-40DK · 41DK

NEW

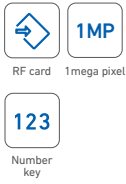


- 2 Door open camera
- 3 way access (PW, RF Card, Video phone)
- Enter the password using 10 key
- Illuminance sensor
- House call and talk
- Built-in white LED

Power source	DC 12V (Adaptor)
Material	Plastic
Resolution	0.52MP
Mount type	DRC-40DK : Wall-mounted type DRC-41DK : Flush-mounted type
Angle	Horiz. 75° Vert. 55°
Wiring	4 wires to a monitor / 2 wires to door 1 / 3 wires to door 2 (non-polarity)
Operation Temp	-10°C ~+50°C
Dimension(mm)	127(W)x193(H)x54(D)

## DOOR LOCK CAMERA NEW

DRC-40DKH · 41DKH



- 2 Door open camera
- 3 way access (PW, RF Card, Video phone)
- Enter the password using 10 key
- Illuminance sensor
- House call and talk
- Built-in type • Built-in white LED

Power source	DC 12V (Adaptor)
Material	Plastic
Resolution	1MP
Mount type	DRC-40DKH : Wall-mounted type DRC-41DKH : Flush-mounted type
Angle	Horiz. 75° Vert. 55°
Wiring	4 wires to a monitor / 2 wires to door 1 / 3 wires to door 2 (non-polarity)
Operation Temp	-10°C ~+50°C
Dimension(mm)	127(W)x193(H)x63(D)

## DOOR CAMERA NEW

DRC-40QFD · 40QHD

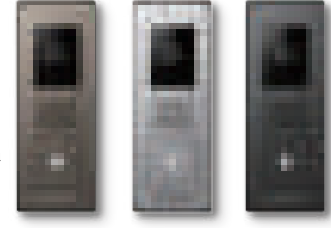


- Built in illumination sensor and white LED
- House call and talk

Power source	DC 12V(From monitor)
Material	Acrylic
Resolution	DRC-40QFD : AHD 2MP DRC-40QHD : 1MP
Mount type	Flush-mounted type
Angle	Horiz. 75° Vert. 55°
Wiring	4 wires
Operation Temp	-10°C ~ +40°C
Dimension(mm)	110(W)x131(H)x13.5(D)

## DOOR CAMERA NEW

DRC-4PIP · 4PF



- Illumination sensor & Night LED (IR LED)
- Volume control
- House call and talk

Power source	DC 12V(From monitor)
Material	Die Casting
Resolution	DRC-4PF : AHD 2MP DRC-4PIP : 0.52MP
Mount type	Wall-mounted type
Angle	110~120°
Wiring	4 wires
IP Rating	IP65
Operation Temp	-30°C ~ +50°C
Dimension(mm)	50(W)x135(H)x26(D)

## DOOR CAMERA NEW

DRC-40YFD · 40YHD



- 2 Door open camera
- House call and talk
- Built-in illumination sensor and white LED
- Available for indoor and outdoor

Power source	DC 12V(From monitor)
Material	Die Casting
Resolution	DRC-40YFD : AHD 2MP DRC-40YHD : 1MP
Mount type	Wall-mounted type
Angle	135°(D)
Wiring	4 wires
Operation Temp	-10°C ~+50°C
Dimension(mm)	102.5(W)x160(H)x50(D)

## DOOR CAMERA

DRC-40KHD

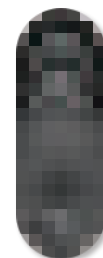


- House call and talk
- Built-in illumination sensor and white LED
- Available for indoor and outdoor

Power source	DC 12V(From monitor)
Material	Die Casting
Resolution	AHD 1.3MP
Mount type	Wall-mounted type
Angle	112°(D)
Wiring	4 wires
Operation Temp	-10°C ~ +40°C
Dimension(mm)	96(W)x155(H)x32(D)

## DOOR CAMERA

DRC-4CPHD · 4CPHD2



- Built-in illumination sensor and white LED
- Available for indoor and outdoor
- House call and talk

Power source	DC 12V(From monitor)
Material	Die Casting
Resolution	DRC-4CPHD : AHD 1.3MP DRC-4CPHD2 : AHD 2MP
Mount type	Wall-mounted type
Angle	97°(D)
Wiring	4 wires
Operation Temp	-10°C ~+40°C
Dimension(mm)	58.7(W)x164(H)x42(D)

## MAGNETIC SENSOR

MS-10



- Magnetic type sensor
- Indoor use
- Door/Window frame wall-mounted type

Power source	DC 9~13V
Consumption	Max 10mA
Effective range	27mm
Detection type	N.C
Reed S/W	Flex/MDSR Type
Operating temp.	-20°C~+70°C
Dimension(mm)	12(W)×55(H)×13(D)

## IR DOME CAMERA

CAD-2M04R24SH

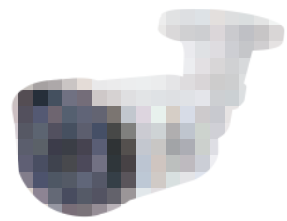


- 4 Megapixel IR Dome Camera
- 1 /2.7" CMOS Image Sensor
- 3.6 mm Fixed Lens
- 4.0Megapixel @ 2688 x 1520

Image Sensor	1 /2.7" CMOS Image Sensor
Min. Illumination	0.001Lux / F1.2, 0Lux IR on
Lens	3.6mm Fixed
Video Output	2560 x 1440
Digital WDR	Auto / On / Off
Power supply/Consump.	DC 12V 1.5A / Max. 3.48W
IR Range/LEDs	20M (Ø5 x 24pcs)
Dimensions/Weight	Ø92.3mm x77.5mm / 350g

## IR BULLET CAMERA

CAV-2M04R24SH

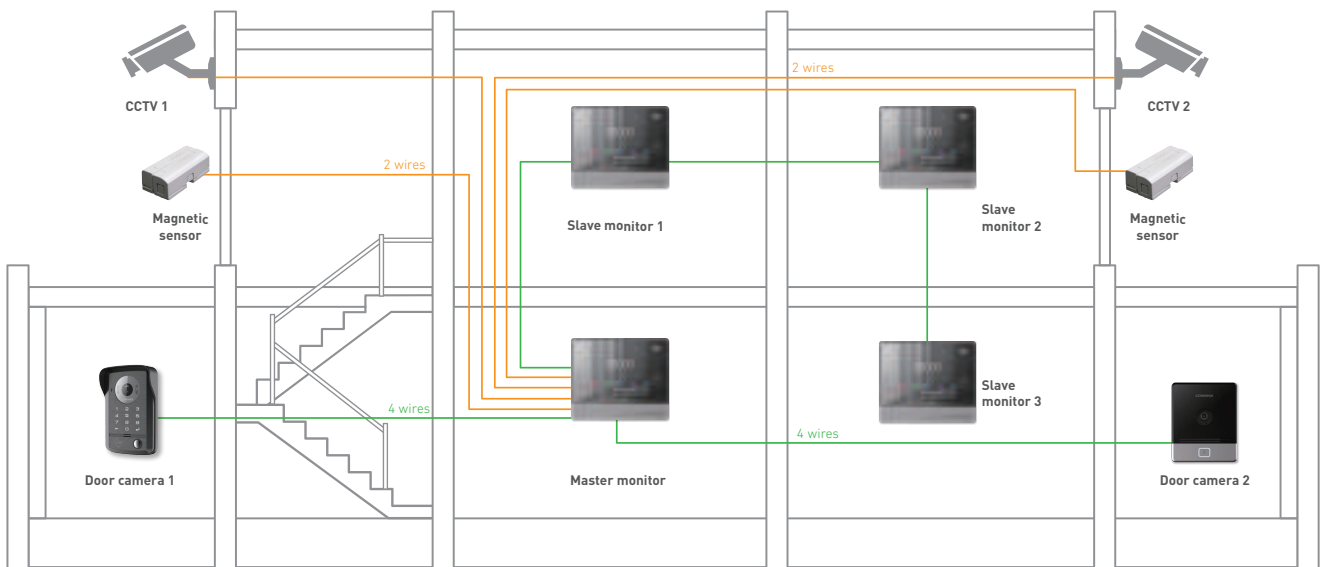


- 4 Megapixel IR Bullet Camera
- 1 /2.7" CMOS Image Sensor
- 3.6 mm Fixed Lens
- 4.0Megapixel @ 2688 x 1520

Image Sensor	1 /2.7" CMOS Image Sensor
Min. Illumination	0.001Lux / F1.2, 0Lux IR on
Lens	3.6mm Fixed
Video Output	2560 x 1440
Digital WDR	Auto / On / Off
Power supply/Consump.	DC 12V 1.5A / Max. 4.08W
IR Range/LEDs	40M (2pcs Array IR Led)
Dimensions/Weight	174x71x65(mm) / 500g

## APPLICATION | HOME BLACK BOX

- 2 wires
- 4 wires



Condominium / Villa / Office / Townhouse - 200 to 300 households

# GATE VIEW IoT

GATE VIEW IoT is optimized for small and medium sized apartment and condo, complex. It provides a safer and more convenient environment. Control it anytime and anywhere by a smartphone.





# MONITOR

NEW

CAV-1000QGX · 1001QGX



Case Color ● Neo-Silver ● Gold

- Google A.I. platform interwork and voice recognition
- Connectable to both wireless IoT devices(Zigbee) and wired devices(RS-485 or General type) • SD card(32GB)
- Smartphone integration through COMMAX App (Door & lobby call, door open, device control, status monitoring, push notifications)
- Real-time CCTV monitoring through DVR
- Connecting up to 1MP camera
- Elevator call function (optional by connecting CCU-310EV)
- Automatic recording function(motion detection)
- RJ45 port plug for easy wiring

Power source	1000QGX : DC 14V / 1001QGX : AC 100~240V, 50/60Hz
Display	10.1 inch IPS LCD (1280 x 800)
Mount type	1000QGX : Flush-mounted /1001QGX : Wall-mounted
OS	Android
Wiring ports	Door camera : 4 wires or 8 wires(only motion detecting), RS-485 : 3 wires, Lobby/Security : 8 wires(UTP type 2 Port) Motion detecting : 3 wires, Slave : 8 wires, Emergency : 2 wires, Digital door lock : 4 wires (Power 2 wires, Opening short : 2 wires)
Distance	Door camera : 28m(Ø0.5) Lobby : 300m(Ø0.5) Security : 1km(Ø0.65)
Dimension(mm)	CAV-1000QGX : 250(W)×210(H)×10.8(14.8)(D) CAV-1001QGX : 250(W)×210(H)×22(D)

# MONITOR

NEW

CAV-70QGX



Case Color ● Neo-Silver ● Gold

- Google A.I. platform interwork and voice recognition
- Connectable to both wireless IoT devices(Zigbee) and wired devices(RS-485 or General type) • SD card(32GB)
- Smartphone integration through COMMAX App (Door & lobby call, door open, device control, status monitoring, push notifications)
- Real-time CCTV monitoring through DVR
- Connecting up to 2MP camera
- Elevator call function (optional by connecting CCU-310EV)
- Automatic recording function(motion detection)
- RJ45 port plug for easy wiring

Power source	AC 100-240V, 50/60Hz
Display	7 inch IPS LCD (1024 x 600)
Mount type	Wall-mounted type
OS	Android
Wiring ports	Door camera : 4 wires or 8 wires(only motion detecting), RS-485 : 3 wires, Lobby/Security : 8 wires(UTP type 2 Port) Motion detecting : 3 wires, Fire emergency : 2 wires, Digital door lock : 4 wires(Power 2 wires, Opening short : 2 wires)
Distance	Door camera : 28m(Ø0.5) Lobby : 300m(Ø0.5) Security : 1km(Ø0.65)
Dimension(mm)	184(W)x171(H)x23(D)

## DOOR CAMERA DRC-40QFD · 40QHD

NEW

1MP  
1mega pixel

2MP  
2mega pixel



- Built in illumination sensor and white LED
- House call and talk
- RJ45 port plug for easy wiring

Power source	DC 12V (From a monitor)
Camera	DRC-40QFD : AHD 2MP DRC-40QHD : 1MP
Mount type	Flush-mounted type
Wiring	4 wires
Angle	Horiz. : 75°, Vertical : 55° (Adjustable)
Dimension(mm)	110(W)x131(H)x13.5(D)

## DOOR CAMERA DRC-40QFM · 40QHM

NEW

1MP  
1mega pixel

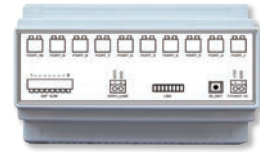
2MP  
2mega pixel



- Motion detection camera for Gateview IoT monitor
- Built in illumination sensor and white LED
- House call and talk
- Volume control
- RJ45 port plug for easy wiring

Power source	DC 12V (From a monitor)
Camera	DRC-40QFM : AHD 2MP DRC-40QHM : 1MP
Mount type	Flush-mounted type
Wiring	8 wires
Angle	Horiz. : 75°, Vertical : 55° (Adjustable)
Dimension(mm)	110(W)x131(H)x13.5(D)

## ELEVATOR CONNECTOR CCU-310EV

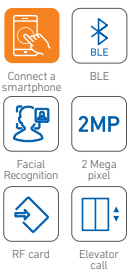


- Able to call from Entrance station and Monitor (Lobby mode / Unit mode)
- Unit mode :  
Able to set up to 630 units or 80 floors
- Lobby mode :  
Able to set up to 89 Entrance stations

Power source	DC 12V
Mount type	Wall-mounted type, DIN rail type
Wiring	DATA : 2 wires Elevator S/W : 2 wires x 10ports
Distance	1km (0.65Ø)
Dimension(mm)	157(W)x86(H)x59(D)

## FACE RECOGNITION ENTRANCE STATION DRC-BIOL(N)

NEW



- Facial recognition
- Door open by BLE, RFID, Password (BLE : Smartphone App)
- Call a household unit or a security guard station
- Elevator call (Optional connecting CCU-310EV)

Power source	DC 14V
Display	10.1 inch TFT LCD
Camera	2M IP Camera(Wide angle 150°)
Mount type	Flush-mounted type
Angle	150°
CPU	Quad core
OS	Android
Dimension(mm)	249(W)x256(H)x7(36)(D)
Installation hole size(mm)	210(W)x216(H)

## GUARD STATION CDS-70ML

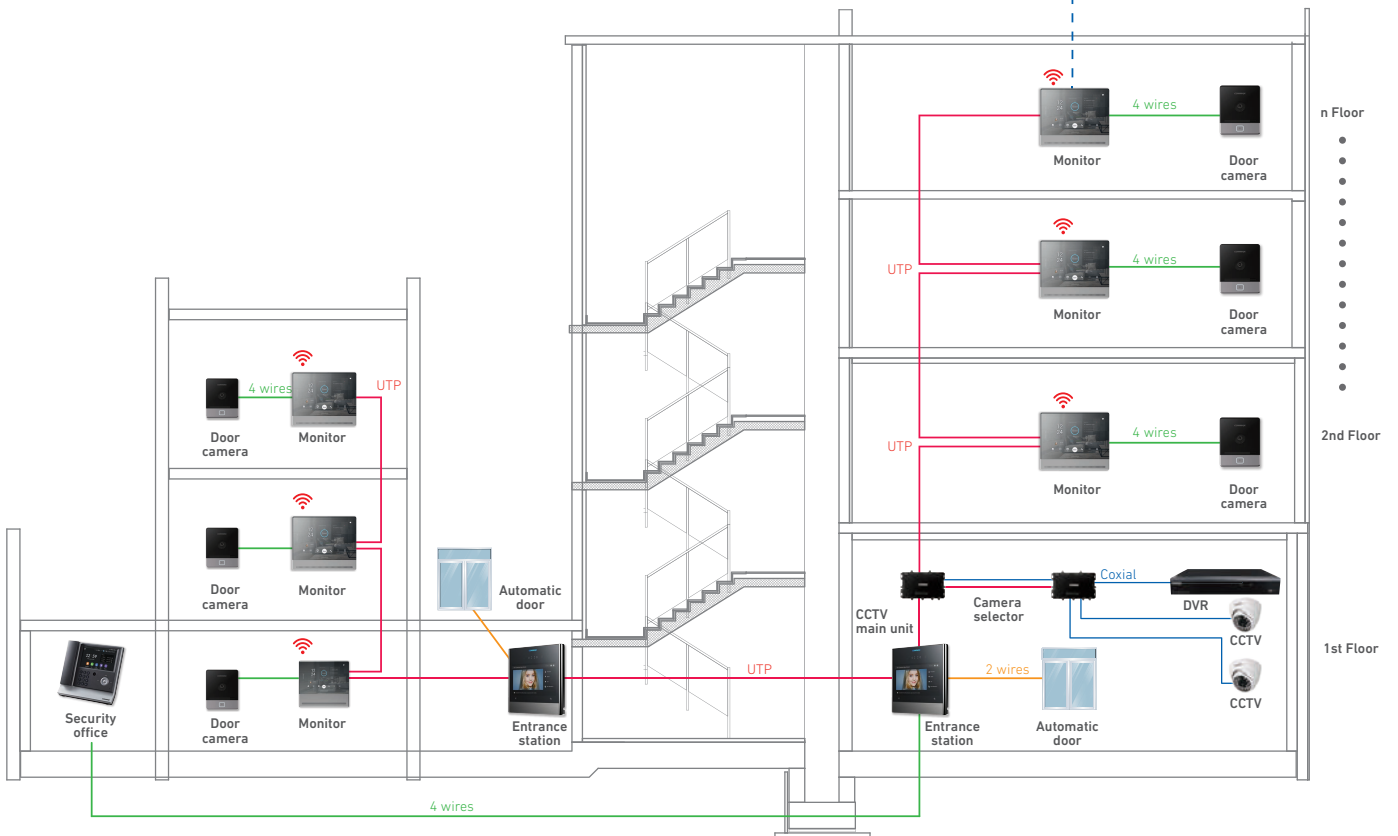
NEW



- GUI touch screen
- Video call & Opening door
- Recording missed
- Volume control
- Secumax connection

Power source	DC 14V
Display	7 inch TFT LCD
Mount type	Desktop
Wiring	Video phone : 8 wires External call : 18 wires Extend external call : 18 wires (option)
Distance	Voice : 1km (0.65Ø), Video : 300m
Dimension(mm)	252(W)x247(H)x33(D)

# APPLICATION | GATE VIEW IoT



# IoT Devices

IoT devices will help you to make a different lifestyle.  
More safety and more convenience.  
Turn on/off the lights and make the best condition  
with your smartphone whenever where you are.



## IoT SENSOR (TEMP./HUMIDITY) CIS-ZTH02



- Integrated service with IoT Monitor
- To sense temperature and humidity in real time over the range (Tolerance(Temperature/humidity) :  $\pm 0.5^{\circ}\text{C} / \pm 5\%$ )
- To send information to Monitor and Gateway

Power source	DC 3V(AAAx2 battery)
Mount type	Wall-mount(Adhesive tape)
Network	Zigbee (2.4 GHz)
Wiring	Wireless
Distance	50m(without any obstruction)
Operation temp.	-10°C ~ 55°C
Dimension(mm)	Ø61.2x23

## IoT PIR SENSOR CIS-ZP02



- Integrated service with IoT Monitor
- To detect motion within the range (able to check from Monitor)
- To interact with Monitor for away & prevention mode

Power source	DC 3V(CR123A battery)
Mount type	Wall-mount(Adhesive tape & Magnetic)
Network	Zigbee (2.4 GHz)
Wiring	Wireless
Distance	50m(without any obstruction)
Operation temp.	-10°C ~ 55°C
Dimension(mm)	Ø48x53.2

## IoT GAS DETECTOR CIS-ZGD01



- Integrated service with IoT Monitor
- Real time gas leak detection
- To generate emergency sounds(72dB) and information to monitor & gateway
- To detect neutral gas leak in real time (8% LEL  $\pm$  3% LEL)

Power source	DC 12V, 100mA_waiting (separate adaptor)
Mount type	Wall-mounted type
Network	Zigbee (2.4 GHz)
Wiring	Wireless
Distance	50m(without any obstruction)
Operation temp.	-10°C ~ 55°C
Dimension(mm)	Ø86x29.6



## IoT SMOKE DETECTOR

CIS-ZSD01



Connect a smartphone



IoT



- Integrated service with IoT Monitor
- Real time smoke detection
- To generate emergency sounds and information to monitor & gateway (When smoke leakage is detected)

Power source	DC 12V
Mount type	Wall-mount(Adhesive tape)
Network	Zigbee (2.4 GHz)
Wiring	Wireless
Distance	50m(without any obstruction)
Operation temp.	-10°C ~ 55°C
Dimension(mm)	Ø90x37

## IoT EMERGENCY BUTTON

CIA-ZEB02



Connect a smartphone



IoT



- Integrated service with IoT Monitor
- To send emergency signal to monitor & gateway

Power source	DC 3V(CR2032 battery)
Mount type	Wall-mount(Adhesive tape)
Network	Zigbee (2.4 GHz)
Wiring ports	Wireless
Distance	50m(without any obstruction)
Operation temp.	-10°C ~ 55°C
Dimension(mm)	Ø50x16

## IoT MAGNETIC SENSOR

CIS-MD02



Connect a smartphone



IoT



- Integrated service with IoT Monitor
- Window status detection – Open / Close (With in 25mm)
- To interact with monitor for away & prevention mode

Power source	DC 3V(CR2032 battery)
Mount type	Wall-mount(Adhesive tape)
Network	Zigbee (2.4 GHz)
Wiring ports	Wireless
Distance	50m(without any obstruction)
Operation temp.	-10°C ~ 55°C
Dimension(mm)	Main : 26.5x52.5x13.5 Slave : 12.5x25.5x13.5

## IoT MAGNETIC SENSOR

CIS-MD01



Connect a smartphone



IoT



- Integrated service with IoT Monitor
- Door open detection
- Low power consumption
- Zigbee communication support

Power source (Battery)	3V Lithium Cell (CR2032), 2EA
Sensing mode	Magnetic
Installation	Indoor
Operating time	2 Years(50 Times/a day)
Network	IEEE 802.15.4, Zigbee HA 1.2(Compatible)
Dimension(mm)	Sensor : 35(W)x55(H)x16(D) Magnetic : 11(W)x55(H)x16(D)

## IoT SMART BLIND

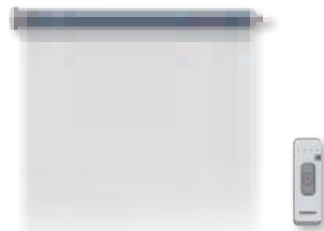
CIA-ZKB01



Connect a smartphone



IoT



- Integrated service with IoT Monitor
- Smart Mirror via 485 to ZigBee module
- Wired connection with Monitor is available via 485 port
- Multiple Smart Blind control
- Powerful performance and noiseless design

Power source	AC 100~250V, 50~60MHZ
Output power	107W
Motor speed	24rpm (Torque 8/N.M)
Motor diameter	35mm
Receiver	Embedded Type
Position set	4 different positions
Protocol	RS-485, Dry Contact, FM Two-way RF
Max. weight	23.8kg / Single
Environment	Indoor Use

\* Blind is not included.

## IoT SMART CURTAIN

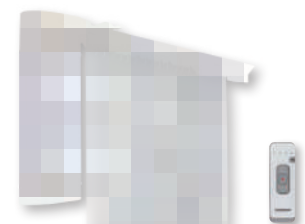
CIA-ZKC03



Connect a smartphone



IoT



- Integrated service with IoT Monitor
- Curtain open, close & stop function
- Smart mirror via 485 to Zigbee module
- Wired connection with Monitor is available via 485port

Power source	AC 90 - 250V, 50/60Hz
Power consumption	Standby : 1.7W, Operation : 35W
Max. weight (Curtain)	35kg
Max. Rail length	10m
Operating temp.	-10°C~50°C
Protocol	IEEE 802.15.4, Zigbee HA 1.2(Compatible) RS-485

\* Curtain is not included.

## IoT WATER DETECTOR

CIS-ZW02



Connect a smartphone



IoT



- Integrated service with IoT Wallpad
- Real time water leak detection with IP 66 rate
- Alarm alerts through Monitor and Gateway

Power source	DC 3V(CR2032 battery)
Mount type	Wall-mount(Adhesive tape)
Network	Zigbee (2.4 GHz)
Wiring ports	Wireless
Distance	50m(without any obstruction)
Operation temp.	-10°C ~ 55°C
Dimension(mm)	Ø44.8x14

## IoT LIGHT SWITCH

CIA-ZES0A, ZES01~ZES03



Connect a smartphone



IoT



CIA-ZES0A CIA-ZES01  
CIA-ZES02 CIA-ZES03

- Intergrated service with IoT Monitor
- Bulk light control / Light control
- Real time status feedback
- Overload protection • Wireless
- Sensitive touch control
- Zigbee communication support

Power source	90V~250V, 50Hz~60Hz
Output	CIA-ZES0A : 4000W/16A CIA-ZES01~ZES03 : 550W/3A(Each Button)
Network	IEEE 802.15.4, Zigbee HA 1.2(Compatible)
Dimension(mm)	90(W)×90(H)×11(43)(D)

## IoT SENSOR (TEMP/HUMIDITY SENSOR)

CIS-ZTH01



Connect a smartphone



IoT



- Integrated service with IoT Monitor
- Temperature and humidity measurement
- Flashes LED when battery is low
- Attachment type

Power source	CR2032 2EA, 3V
Temperature measurement range	-40°C~+125°C (±2°C)
Humidity measurement range	0~100%RH (±4.5%RH)
Network	IEEE 802.15.4, Zigbee HA 1.2(Compatible)
Dimension(mm)	35(W)×55(H)×16(D)

## IoT SMART REPEATER

CIA-ZRT02



Connect a smartphone



IoT



- Integrated service with IoT Monitor
- Able to register each devices from Monitor
- Extension of Zigbee wireless section and Zigbee data relay

Power source	DC 5V (Micro USB type)
Operating temp.	0°C~+50°C
Network	IEEE 802.15.4, Zigbee HA 1.2(Compatible)
Dimension(mm)	35(W)×55(H)×16(D)

## IoT MODULE (485 TO ZIGBEE)

CIM-52Z01



Connect a smartphone



IoT



- Integrated service with IoT Monitor
- Zigbee communication support (RS-485 to Zigbee)
- Low power consumption

Power source	DC 5V (Micro USB type)
Network	IEEE 802.15.4, Zigbee HA 1.2(Compatible) RS-485
Dimension(mm)	35(W)×55(H)×16(D)

## IoT GAS VALVE BREAKER

CIA-GL03



Connect a smartphone



IoT



- Integrated service with IoT Monitor
- Gas valve locking
- Timer function
- Includes display for time confirmation
- Zigbee communication support

Power source	DC 6V (4 AA Batteries)
Sensing temp.	More than 3 minutes at 65°C
Blocking method	Motor Drive Method / Automatic
Blocking time	Within 5 seconds
Action notification	Beep Sound
Network	IEEE 802.15.4, Zigbee HA 1.2(Compatible)
Dimension(mm)	68(W)×136(H)×65(D)

## IoT IR SENSOR

CIA-ZIR02

NEW



Connect a smartphone

IoT

IoT



- Able to register IR device
- Zigbee communication support
- Able to control air conditioner Power & Temperature (With a variety of air conditioner manufactures)

## IoT PIR SENSOR

CIS-PM01



Connect a smartphone

IoT

IoT



- Integrated service with IoT Monitor
- Motion detection
- Temperature & Humidity detection
- Low power consumption
- Zigbee communication

## IoT PIR SENSOR

CIS-ZP01



Connect a smartphone

IoT

IoT



- Integrated service with IoT Monitor
- Motion detection
- Low power consumption
- Zigbee communication

## PIR SENSOR

CPA-4012



Connect a smartphone

IoT

IoT



- Infrared ray energy sensor
- Normal operation enabled after 30 seconds from power on
- Indoor use only
- Wall mounted type

## PIR SENSOR

CPA-0212



- Mirror-type infrared sensor
- Detects infrared rays from 7um~15umz
- Indoor use only
- Ceiling mounted type

## PIR SENSOR

CPB-30S · 10S



- Minimum reflection
- Wide range of adjustment
- IP44 compliance
- Suitable for both, indoor and outdoor installation

## MAGNETIC SENSOR

MS-10

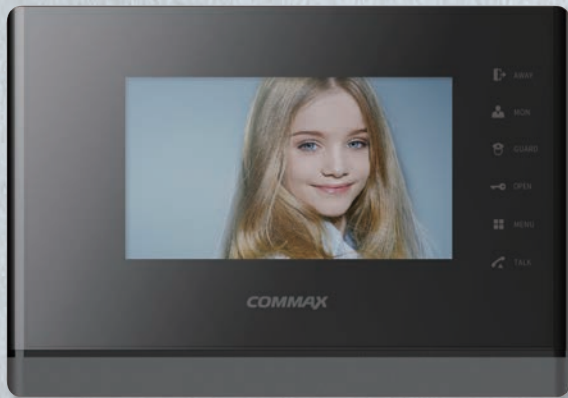


- Magnetic type sensor
- Indoor use only
- Door/Window frame wall-mounted type

Apartment / Villa / Office / Townhouse  
- 300 to 400 households

## GATE VIEW

GATE VIEW is optimized for small and medium sized apartment and apartment complexes. It provides a safer and more convenient environment.





# MONITOR

## CAV-70YG



Elevator call



### Window Color

- Black smog
- White

### Cover Color

- Dark silver
- White
- Pink gold

- Guard call & talk
- Elevator call function
- Monitoring & calling visitors and releasing door lock (public entrance, individual entrance)

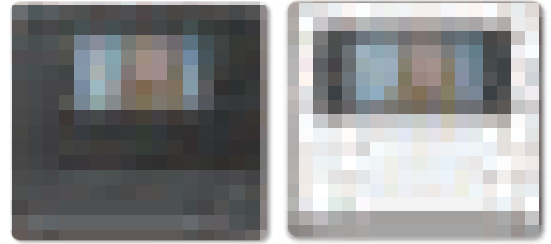
Power source	AC 100-240V, 50/60Hz
Display	7 inch TFT LCD
Mount type	Wall-mounted type
Wiring	Door camera : 4 wires / Lobby : 8 wires
Consumption	Max.15W
Distance	Lobby to final monitor : 300m Monitor to door camera : 30m (CAT.5e)
Dimension(mm)	265(W)×184(H)×22(D)

# MONITOR

## CAV-43YG



Elevator call



- Guard call & talk
- Monitoring & calling visitors and releasing door lock (public entrance, individual entrance)

Power source	AC 100-240V, 50/60Hz
Display	4.3 inch TFT LCD
Mount type	Wall-mounted type
Wiring	Door camera : 4 wires / Lobby : 8 wires
Consumption	Max.12W
Distance	Lobby to final monitor : 300m Monitor to door camera : 30m (CAT.5e)
Dimension(mm)	184(W)×171(H)×24(D)

# FACE RECOGNITION ENTRANCE STATION

## DRC-BIOL

NEW



Connect a smartphone



BLE



Facial Recognition



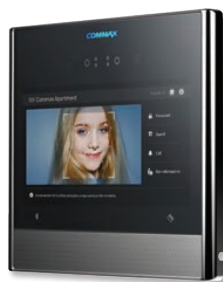
2 Mega pixel



RF card



Elevator call



- Door open via Face recognition, BLE (COMMAX IoT app, ONE KEY), RF card, Password, house call, guard call
- Elevator call (Optional connecting CCU-310EV)

Power source	DC 14V
Display	10.1 inch TFT LCD
Mount type	Flush-mounted type
Wiring	UTP CAT.5E (8 wires)
Distance	Max.300m (From Entrance station to final household)
Angle of view	150°
Operating temp.	-20°C~+50°C
Dimension(mm)	249(W)×256(H)×7(36)(D)
Installation hole size(mm)	207(W)×217(H)

# ENTRANCE STATION

## DRC-707LC · 707LCB

NEW



Connect a smartphone



BLE



RF card



Number key



Elevator call

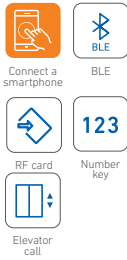


- Door open via BLE (COMMAX IoT app, ONE KEY), RF card, Password, house call, guard call
- BLE function model (DRC-707LCB)
- Elevator call (Optional connecting CCU-310EV)

Power source	DC 14V
Display	7 inch TFT LCD
Mount type	Flush-mounted type
Wiring	UTP(CAT.5e) & Coaxial (Household 8 wires, security 8 wires)
Distance	Max.300m (From Entrance station to final household)
Angle of view	Horiz. 81° , Vert. 66°
Operating temp.	-20°C~+50°C
Dimension(mm)	244(W)×270(H)×19(47)(D)
Installation hole size(mm)	210(W)×216(H)

## ENTRANCE STATION

DRC-10MP/RF1



Rainshield (option)

### PARKING CONTROL and COMMUNITY LOBBY

- Door open via BLE (Smartphone app), RF card, Password, house call, guard call
- Available for parking gate station and community facility station
- Elevator call (Optional connecting CCU-310EV)

Power source	DC 12V
Display	2.4 inch OLED
Mount type	Flush-mounted type
Wiring	UTP(CAT. 5e)
Distance	Max.300m (From Entrance station to final household)
Angle of view	Horiz. : 58°, Vert.: 49°
Operating temp.	-20°C~+50°C
Dimension(mm)	130(W)×249(H)×50(D)
Installation hole size(mm)	210(W)×216(H)

## AUDIO PHONE

AP-3SG



- Talk and door lock release enabled (both individual and public entrance)
- Security office call enabled

Power source	AC 100~240V, 50/60Hz
Mount type	Wall-mount type
Wiring	Door unit : 3 wires Lobby : 6 wires
Min. Illumination	0.1Lux (up to 300mm)
Dimension(mm)	130(W)×315(H)×10(D)
Installation hole size(mm)	110(W)×286(H)

## GUARD STATION

CDS-70ML

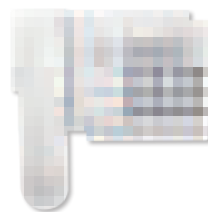
NEW

## GUARD STATION

CDS-4GS

## DISTRIBUTOR

CCU-4GF



- Video call & Opening door (Lobby call)
- GUI Touch screen
- Recording miss call
- Household call
- Parcel management
- Secumax connection

Power source	DC 14V
Display	7 inch TFT LCD
Mount type	Desktop
Wiring	Guard to Lobby : 6 wires External call : 18wires Extend external call : 18 wires (option)
Distance	Voice : 1km (0.65Ø), Video : 300m
Dimension(mm)	252(W)×247(H)×33(D)

- Audio call & Opening door (Lobby call)
- Household call

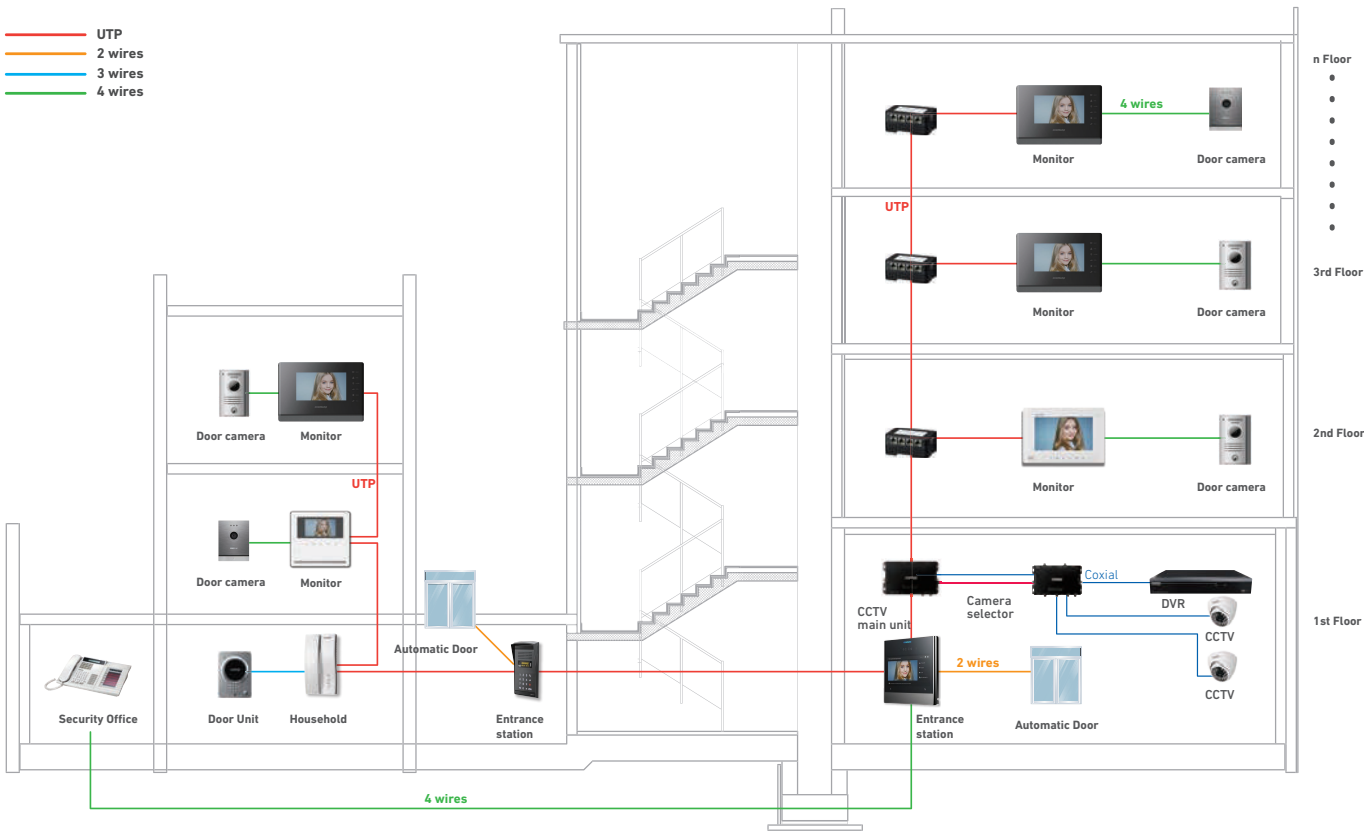
Power source	DC 12V (Adpator excl.)
Power consumption	Max. 2W
Mount type	Wall-mounted type / Desktop
Wiring ports	Guard to Lobby : 4 wires
Distance	1km (From guard to final household)
Dimension(mm)	196(W)×130(H)×51(D)

- Enables "STAR" wiring method for Gate View monitor connections
- CCU-4GF-to-CCU-4GF enabled to expand up to 40 units limited to 300 meters

Power source	DC 12V
Transmission	Lobby 8 Lines(Polarity) (RJ45 CAT.5e Patch Cable)
Distance	Max. 300m (Possible to connect Max 40 units)
Dimension(mm)	106(W)×76(H)×44(D)

# APPLICATION | GATE VIEW

- UTP
- 2 wires
- 3 wires
- 4 wires



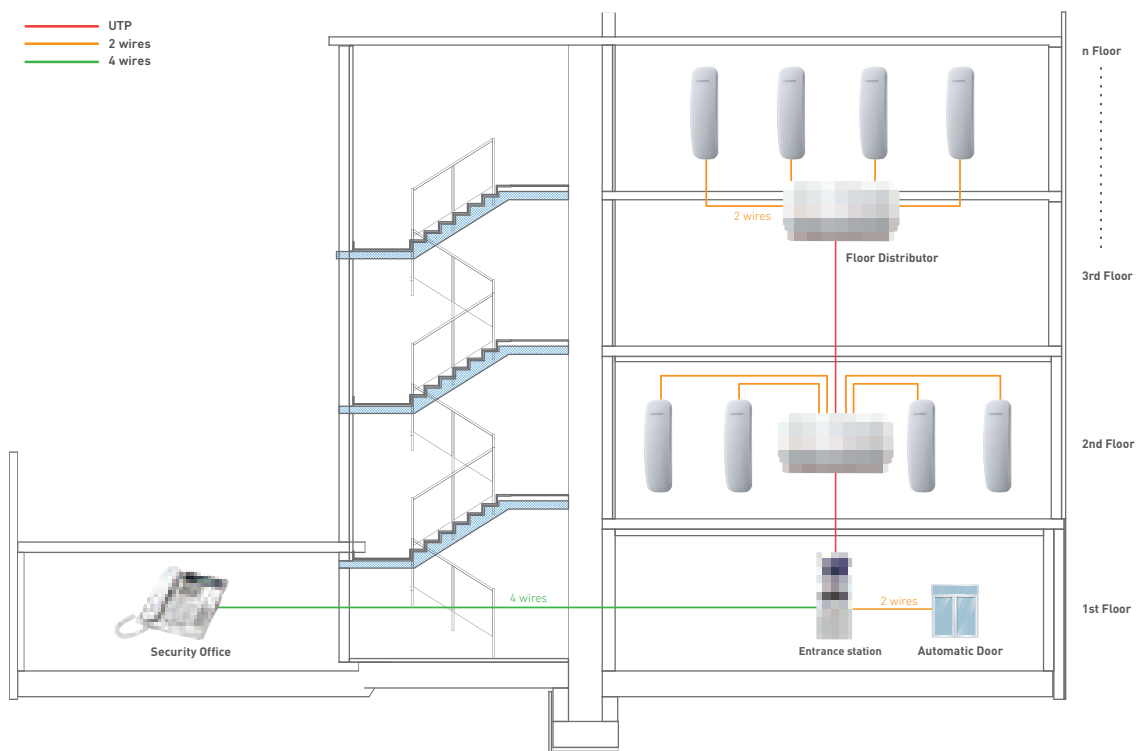
Apartment, Condominium - less than 3,000 households

# AUDIO GATE SYSTEM (2 WIRES & UTP)

AUDIO GATE SYSTEM is optimized for multi-complex apartments, condos, and buildings. Also, it provides a simple installation and is easily expanded.



## APPLICATION | AUDIO GATE SYSTEM (2 WIRES & UTP)





## DOORPHONE

AP-2RAG

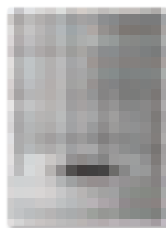


- 2 wire connection with non-polarity from a floor distributor
- Talk with a visitor and door lock release enable

<b>Power source</b>	From floor distributor
<b>Wiring ports</b>	2 wires with non-polarity
<b>Distance</b>	100m (0.65Ø)
<b>Operating temp.</b>	0°C~40°C
<b>Dimension(mm)</b>	70(W)x210(H)x60(D)

## ENTRANCE STATION

DR-2GS

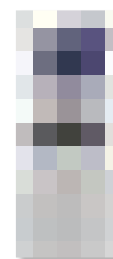


- Entrance station for only Guard call (Enhanced security station)
- Vandal proof
- Guard call and door open only via guard

<b>Power source</b>	DC 12V (from Guard Phone)
<b>Mount type</b>	Wall-mounted type
<b>Operating temp.</b>	-10°C~50°C
<b>Wiring ports</b>	6 wires
<b>Dimension(mm)</b>	87(W)x120(H)x20(D)

## ENTRANCE STATION

DR-2AG/RF1



- Door open via RF card, Password, house call, guard call
- Vandal proof

<b>Power source</b>	DC 12V
<b>Mount type</b>	Flush-mounted type
<b>Operating temp.</b>	-10°C~50°C
<b>Wiring ports</b>	Lobby phone-to-floor distributor : 1 UTP Household unit-to-floor distributor : 2 wires
<b>Dimension(mm)</b>	130(W)x315(H)x10(38)(D)

## FLOOR DISTRIBUTOR

CCU-204AGF · 208AGF



- 2 wire connection with non-polarity
- Provides the power to each household units
- 1UTP cabling between floor distributors

<b>Power source</b>	DC 24V (Adaptor excl.)
<b>Port</b>	4 / 8 channel (Connectable with 2 wire Audio phone up to 4/8ea)
<b>Wiring ports</b>	-Lobby panel-to-Floor distributor : UTP -Household unit-to-Floor distributor : 2 wires -Floor distributor-to-Floor distributor : UTP

## FLOOR DISTRIBUTOR

CCU-216AGF · 232AGF

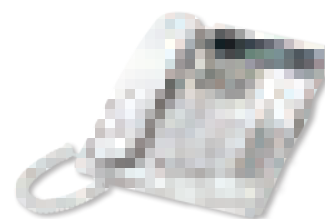


- 2 wire connection with non-polarity
- Provides the power to each household units
- 1UTP cabling between floor distributors

<b>Power source</b>	DC 24V (Adaptor excl.)
<b>Port</b>	16 / 32 channel (Connectable with 2 wire Audio phone up to 16/32 ea)
<b>Wiring ports</b>	-Lobby panel-to-Floor distributor : UTP -Household unit-to-Floor distributor : 2 wires -Floor distributor-to-Floor distributor : UTP

## GUARD STATION

CDS-2AG



- Household unit call
- Lobby phone call
- CID function for a calling household identification
- 1UTP cabling for a simple installation from floor distributor

<b>Power source</b>	DC 12V
<b>Mount type</b>	Desktop
<b>Wiring ports</b>	Building distributor-to-Guard Station : UTP
<b>Distance</b>	Max. 1km
<b>Dimension(mm)</b>	230(W)x200(H)x35(D)

Single house

# FINE VIEW

FINE VIEW is the world's leading videophone. It provides clear video quality through COMMAX's specialized 'FINE VIEW' technology.



## VIDEOPHONE

CDV-70Y



### Window Color

- Black smog
- White

### Cover Color

- Dark silver
- White
- Pink gold

- PAL/NTSC convertible
- Video talk and door release enable
- Support 2 Monitors, 2 Cameras and 2 Interphones

Power source	AC 100-240V, 50/60Hz
Display	7 inch TFT LCD
Mount type	Wall-mounted type
Wiring	Door camera : 4 wires, Interphone : 4 wires
Consumption	Max.12W / standby 3W
Distance	Door camera : 28m (0.5Ø) / Interphone : 30m(0.65Ø)
Dimension(mm)	265(W)×184(H)×22(D)

## VIDEOPHONE

CDV-43Y



- Video talk and door release enable
- Support 2 Monitors, 2 Cameras and 2 Interphones
- PAL/NTSC convertible

Power source	AC 100-240V, 50/60Hz
Display	4.3 inch TFT LCD
Mount type	Wall-mounted type
Wiring	Door camera 1, 2 : 4 wires, Interphone : 4 wires
Consumption	Max. 12W / standby 3W
Distance	Door camera : 28m (0.5Ø) / Interphone : 30m(0.65Ø)
Dimension(mm)	171(W)×184(H)×24(D)

## VIDEOPHONE

CDV-77M



- PAL/NTSC convertible
- Video talk and door release enable
- Support 2 Monitors, 2 Cameras and 2 Interphones

Power source	AC 100-240V, 50/60Hz
Display	7 inch TFT LCD
Mount type	Wall-mounted type
Wiring	Door camera 1, 2 : 4 wires / Interphone : 4 wires
Consumption	Max.12W / standby 3W
Distance	Door camera : 28m (0.5Ø) / Interphone : 30m(0.65Ø)
Dimension(mm)	244(W)×180(H)×18(D)

## VIDEOPHONE

CDV-70H2



- PAL/NTSC convertible
- Video talk and door lock release enable
- Support 2 monitors, 2 door cameras and 2 Interphones
- Intercommunication with sub monitor and interphone

Power source	AC 100-240V, 50/60Hz
Display	7 inch TFT LCD
Mount type	Wall-mounted type
Wiring	Door camera 1, 2 : 4 wires / Sub interphone : 4 wires
Consumption	Max. 16W / standby 3W
Distance	Door camera : 28m (0.5Ø) / Interphone : 30m(0.65Ø)
Dimension(mm)	180(W)×180(H)×28(D)



## VIDEOPHONE

CDV-70N2



- Video talk and door lock release enable
- Handset type design
- Expandable up to 2 monitors, 2 door cameras and 2 interphones

<b>Power source</b>	AC 100-240V, 50/60Hz
<b>Display</b>	7 inch TFT LCD
<b>Mount type</b>	Wall-mounted type
<b>Wiring</b>	Door camera 1, 2 : 4 wires / Sub interphone : 4 wires
<b>Distance</b>	Door camera : 28m(0.5Ø) / Interphone : 30m(0.65Ø)
<b>Consumption</b>	Max. 16W / standby 3W
<b>Dimension(mm)</b>	230(W)x180(H)x28(D)

## VIDEOPHONE

CDV-43M

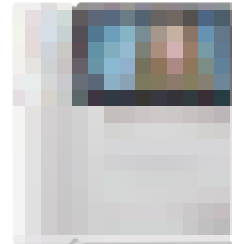


- Video talk and door lock release enable
- Support 2 Monitors, 2 Cameras and 2 Interphones
- PAL/NTSC convertible

<b>Power source</b>	AC 100-240V, 50/60Hz
<b>Display</b>	4.3 inch TFT LCD
<b>Mount type</b>	Wall-mounted type
<b>Wiring</b>	Door camera 1, 2 : 4 wires / Sub interphone : 4 wires
<b>Distance</b>	Door camera : 28m(0.5Ø) / Interphone : 30m(0.65Ø)
<b>Consumption</b>	Max. 10W / standby 2.1W
<b>Dimension(mm)</b>	180(W)x180(H)x28(D)

## VIDEOPHONE

CDV-43K2



- Support 2 monitors, 2 cameras and 2 Interphones
- Intercommunication with sub monitor and interphone
- Built-in memory storing in SD memory (SD Card is not included)

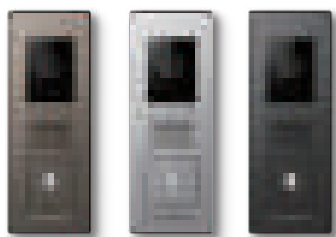
<b>Power source</b>	AC 100-240V, 50/60Hz
<b>Display</b>	4.3 inch TFT LCD
<b>Mount type</b>	Wall-mounted type
<b>Wiring</b>	Door camera 1, 2 : 4 wires / Sub interphone : 4 wires
<b>Distance</b>	Door camera : 28m(0.5Ø) / Interphone : 30m(0.65Ø)
<b>Consumption</b>	Max. 8W / standby 2.5W
<b>Dimension(mm)</b>	157(W)x167(H)x28(D)

## DOOR CAMERA

DRC-4PIP

NEW

IP65



- House call and talk
- Illumination sensor & Night LED (IR LED)
- Volume control

<b>Power source</b>	DC 12V(From monitor)
<b>Material</b>	Die Casting
<b>Resolution</b>	0.52MP
<b>Mount type</b>	Wall-mounted type
<b>Angle</b>	110~120°
<b>Wiring</b>	4 wires
<b>IP Rating</b>	IP65
<b>Operation Temp</b>	-30°C ~ +50°C
<b>Dimension(mm)</b>	50(W)x135(H)x26(D)

## DOOR CAMERA

DRC-4LN



Rosé

Dark silver

- House call and talk
- Built-in illumination sensor and white LED
- Volume control

<b>Power source</b>	DC 12V(From monitor)
<b>Material</b>	Acrylic + Plastic
<b>Resolution</b>	0.52MP
<b>Mount type</b>	Wall-mounted type
<b>Angle</b>	Horiz. 68° Vertical 50°
<b>Wiring</b>	4 wires
<b>Operation Temp</b>	-10°C~+50°C
<b>Dimension(mm)</b>	99.8(W)x142.4(H)x35.2(D)

## DOOR CAMERA

DRC-4Y



- House call and talk
- Illuminance sensor In door model
- Built-in white LED

<b>Power source</b>	DC 12V(From monitor)
<b>Material</b>	Acrylic + Plastic
<b>Resolution</b>	0.52MP
<b>Mount type</b>	Wall-mounted type
<b>Angle</b>	98°
<b>Wiring</b>	4 wires
<b>Operation Temp</b>	-10°C~+50°C
<b>Dimension(mm)</b>	92(W)x150(H)x35(D)



## DOOR CAMERA

DRC-4CPN3



- Built-in illumination sensor
- Outdoor model
- House call and talk
- 2 door open camera

Power source	DC 12V(From monitor)
Material	Die Casting
Resolution	0.52MP
Mount type	Wall-mounted type
Angle	97°(D)
Wiring	4 wires
Operation Temp	-10°C~+50°C
Dimension(mm)	58.7(W)×164(H)×42(D)

## DOOR LOCK CAMERA

DRC-40DK



RF card



Number key



- 2 Door open camera
- 3 way access (PW, RF Card, Video phone)
- Enter the password using 10 key
- Illuminance sensor
- House call and talk
- Built-in white LED

Power source	DC 12V (Adaptor)
Material	Plastic
Resolution	0.52MP
Mount type	Wall-mounted type
Angle	Horiz. 75° Vert. 55°
Wiring	4 wires to a monitor / 2 wires to door 1 / 3 wires to door 2 (non-polarity)
Operation Temp	-10°C ~+50°C
Dimension(mm)	127(W)×193(H)×54(D)

## DOOR CAMERA

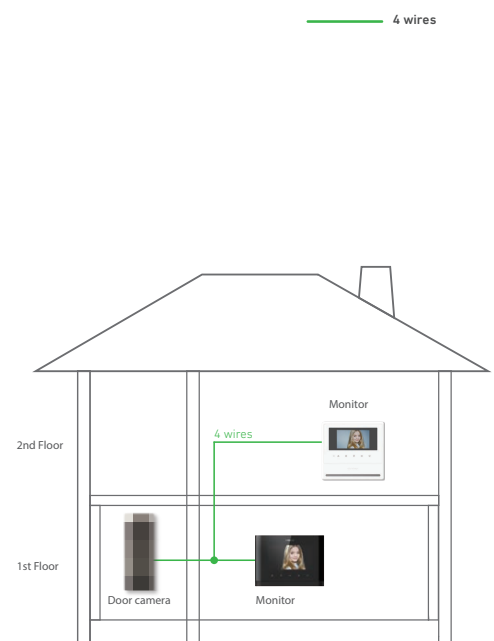
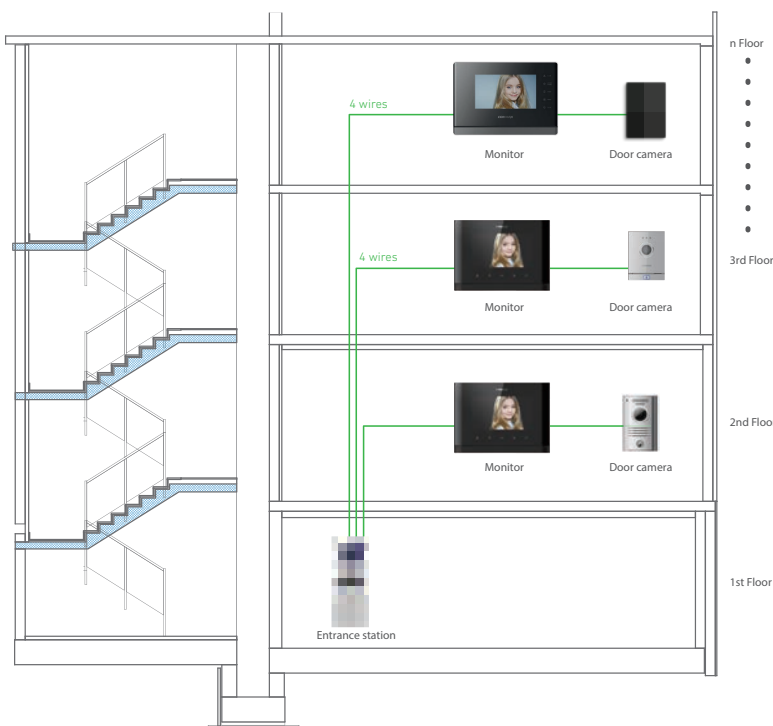
DRC-40K



- Illuminance sensor
- House call and talk
- Out door model
- House call and talk
- Built-in white LED

Power source	DC 12V(From monitor)
Material	Die Casting
Resolution	0.52MP
Mount type	Wall-mounted type
Angle	Horiz. 75° Vertical 55°
Wiring	4 wires
Operation Temp	-10°C~+50°C
Dimension(mm)	96(W)×155(H)×32(D)

## APPLICATION | FINE VIEW



Villa / Office / Commercial Facility

# MULTI BUTTON VIDEO STATION (AUDIO optional)

MULTI BUTTON VIDEO STATION is optimized for small sized apartment and condo complexes. It can be combined with COMMAX FINE VIEW SERIES. (CDV-70QT, CDV-70Y, CDV-43Y, etc)  
Audio phone can be combined with Video in same building (DP-3HP)



## MULTI BUTTON ENTRANCE STATION

DRC-2/4/6/8/10ML/RF1



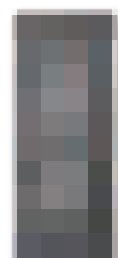
DRC-10ML DRC-8ML DRC-6ML DRC-4ML DRC-2ML

- RF card registration and deletion
- Extendable to DRC-24XM(F)
- 2/4/6/8/10 direct buttons
- OLED
- Built-in white LED

Power source	DC 12V
Direct button	2/4/6/8/10
Material	Aluminum
Wiring	4 wires
Distance	28m(0.5Ø) 50m(0.65Ø)
Operation temp.	-20°C~+50°C
Dimension(mm)	DRC-2(4)ML/RF1 : 130(W)x246(H)x50(D) DRC-6(8,10)ML/RF1 : 130(W)x315(H)x50(D)
Installation hole size(mm)	DRC-2(4)ML/RF1 : 115(W) X 223(H) DRC-6(8,10)ML/RF1 : 110(W) x 286(H)

## EXTENSION PANEL

DRC-24XM(F)



- 24 Direct buttons panel (DRC-24XM) extensibility
- Extendable to DRC-24XM(F)

Power source	From DRC-6/8/10ML
Direct button	24
Material	Aluminum
Wiring	4 wires
Distance	28m(0.5Ø) 50m(0.65Ø)
Operation temp.	-20°C~+50°C
Dimension(mm)	130(W)x315(H)x10(D)
Installation hole size(mm)	110(W)x286(H)

## MULTI BUTTON ENTRANCE STATION

DRC-2/3/4UC



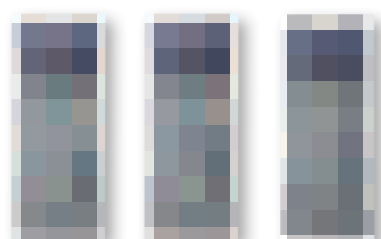
DRC-2UC DRC-3UC DRC-4UC

- 2/3/4 button wide name plate
- House call and talk
- Built-in white LED

Power source	DC 12V
Direct button	2/3/4
Material	Aluminum
Wiring	4 wires
Distance	28m(0.5Ø) 50m(0.65Ø)
Operation temp.	-10°C~+50°C
Dimension(mm)	130(W)x250(H)x50(D)
Installation hole size(mm)	115(W)x223(H)

## MULTI BUTTON ENTRANCE STATION

DRC-5/6/7UC



DRC-5UC DRC-6UC DRC-7UC

- 5/6/7 button wide name plate
- House call and talk
- Built-in white LED

Power source	DC 12V
Direct button	5/6/7
Material	Aluminum
Wiring	4 wires
Distance	28m(0.5Ø) 50m(0.65Ø)
Operation temp.	-10°C~+50°C
Dimension(mm)	142(W)x315(H)x50(D)
Installation hole size(mm)	115(W)x289(H)



Villa / Office / Commercial Facility

# MULTI BUTTON AUDIO STATION

MULTI BUTTON AUDIO STATION is optimized for small and medium sized apartment and condo complexes.

It enhances security with access control.

Only n+3 wiring type audio unit can be compatible. (DP-RS, DP-SS , DP-ML)



## MULTI BUTTON AUDIO STATION

DR-24ML



- 24 button wide name plate
- Metal design
- House call and talk
- LED light
- Connect with extension panel
- Connect with DP-SS, DP-RS, DP-ML

Power source	DC 12V
Direct button	24
Material	Aluminum
Wiring	Common 3 wires + Individual 1 wire
Distance	28m(0.5Ø) 50m(0.65Ø)
Operation temp.	-10°C ~ 50°C
Dimension(mm)	130(W)×315(H)×10(D)
Installation hole size(mm)	112(W)×211(H)

## EXTENSION PANEL

DR-26XM/28XM/30XM/32XM



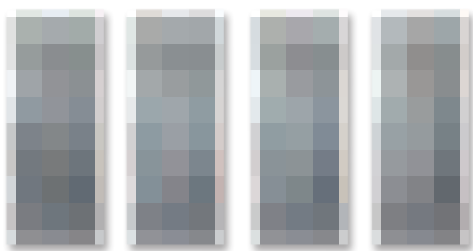
DR-26XM DR-28XM DR-30XM DR-32XM

- 26~32 button wide name plate
- Metal design
- House call and talk
- LED light

Power source	DC 12V
Direct button	26/28/30/32
Material	Aluminum
Wiring	Common 3 wires + Individual 1 wire
Distance	28m(0.5Ø) 50m(0.65Ø)
Operation temp.	-10°C ~ 50°C
Dimension(mm)	130(W)×248(H)×12(23)(D)
Installation hole size(mm)	112(W)×211(H)

## MULTI BUTTON AUDIO STATION

DR-2/4/6/8UM



DRC-2UM DRC-4UM DRC-6UM DRC-8UM

- 2/4/6/8 button wide name plate
- LED light
- House call and talk

Power source	DC 12V
Direct button	2/4/6/8
Material	Aluminum
Wiring	Common 3 wires + Individual 1 wire
Distance	28m(0.5Ø) 50m(0.65Ø)
Operation temp.	-10°C ~ 50°C
Dimension(mm)	130(W)×315(H)×10(D)
Installation hole size(mm)	110(W)×284(H)

## EXTENSION PANEL

DR-NUS



- Slave panel
- DR-4US/6US/8US/10US/12US
- LED light
- House call and talk

Power source	DC 12V
Direct button	4/6/8/10/12
Material	Aluminum
Wiring	Common 3 wires + Individual 1 wire
Distance	28m(0.5Ø) 50m(0.65Ø)
Operation temp.	-10°C ~ 50°C
Dimension(mm)	130(W)×315(H)×10(D)
Installation hole size(mm)	110(W)×284(H)



# AUDIO PHONE

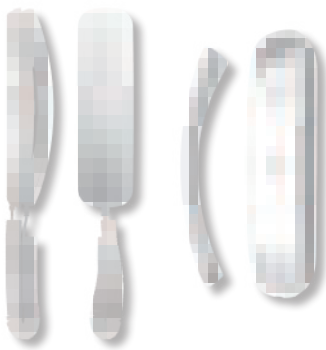
AUDIO PHONE is a standard product that provides a better audio quality along with its refined design.



## AUDIO PHONE DP-RS

## AUDIO PHONE DP-SS

## AUDIO PHONE DP-ML



- Talk with a visitor
- Door release
- User friendly handset design with convenient hand grip
- Link with Multi-Panel (DR-nUM)
- Up to 56 households

- Talk with a visitor
- Door release
- Link with Multi-Panel (DR-nUM)
- Up to 56 households

- Up to 2 audiophones in a household (DP-ML)
- Door release
- Up to 56 households

<b>Power source</b>	DC 12V (from Multipanel)
<b>Mount type</b>	Wall-mounted type
<b>Wiring ports</b>	n + 3 wires
<b>Distance</b>	Door unit : 100m (0.65Ø)
<b>Dimension(mm)</b>	58.3(W)×209(H)×48(D)

<b>Power source</b>	DC 12V (from Multipanel)
<b>Mount type</b>	Wall-mounted type
<b>Wiring ports</b>	n + 3 wires
<b>Distance</b>	100m(0.65Ø), 150m(0.8Ø)
<b>Dimension(mm)</b>	72(W)×210(H)×33(61)(D)

<b>Power source</b>	DC 12V (from Multipanel)
<b>Mount type</b>	Wall-mounted type
<b>Wiring ports</b>	n + 3 wires
<b>Distance</b>	100m(0.65Ø), 150m(0.8Ø)
<b>Dimension(mm)</b>	98(W)×208(H)×65(D)

## AUDIO PHONE

DP-2LD



- Battery operated(6V) or DC 9~12V Adaptor
- 2 wires with non-polarity
- Talk with a visitor
- Door release

## AUDIO PHONE

DP-2S



- AC 110/220/230/240V, 50/60Hz
- 2 wires with non-polarity
- Talk with a visitor
- Door release

## AUDIO PHONE

DP-201LA



- AC 110/220/230/240V, 50/60Hz
- 2 wires with non-polarity
- Power supply for door lock release (AC 12V)
- Talk with a visitor
- Door release

## AUDIO PHONE

DP-LA101M/S



- AC 110/220/230/240V, 50/60Hz
- 2 wires with non-polarity
- Up to 2 phones in a household
- DP-LA101M(Master) - LA101S (Slave)
- Power supply for door lock release (AC 12V)  
DP-LA101M(Master) - LA101S (Slave)

## AUDIO PHONE

DP-LA01M/S



- AC 110/220/230/240V, 50/60Hz
- 2 wires with non-polarity
- Up to 2 phones in a household  
DP-LA01M(Master) - LA01S (Slave)

## AUDIO DOOR UNIT

### AUDIO DOOR UNIT

DR-201D · 201DE



DR-201D DR-201DE

- 2 wires with non-polarity entrance panel
- House call and talk
- Emergency button use (DR-201DE / Red button)

### AUDIO DOOR UNIT

DR-2L



- 2 wires with non-polarity entrance panel
- House call and talk

### AUDIO DOOR UNIT

DR-2GN · 2PN



- 2 wires with non-polarity entrance panel
- House call and talk
- Vandal proof (Die casting material)

### AUDIO DOOR UNIT

DR-DW3N



- House or office call and talk
- Compatible with TP-6RC / TP-12RC

Single house / Villa / Office / Commercial Facility

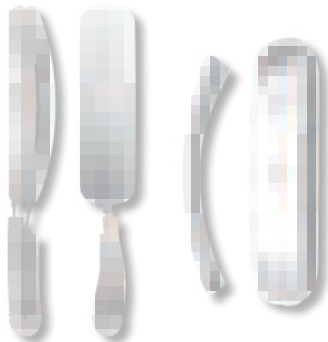
# INTERPHONE / INTERCOM

COMMAX provides INTERPHONE and INTERCOM global standards with distinguished design and high-quality communication system.



## INTERPHONE

TP-NR



- Talk with a visitor
- User friendly handset design with convenient hand grip

## INTERPHONE

TP-12RM



- Master unit of TP-NR / TP-S (Sub-unit)
- Covering total system just through one power installation
- Calling to each station
- Convenient caller identification by adopting red LED

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## INTERPHONE

TP-1L



- 1:1 paging and talking feature
- Convenient & Flexible installation using 1.5V batteries

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## INTERPHONE

TP-6RC



- Intercommunication between 6 units
- ID setting enabled with dip switch
- Effective calling to all units by paging function
- Door lock release (when connecting DR-DW3N door station)
- Calling & paging

---

## INTERPHONE

TP-12RC

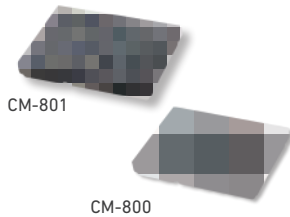


- Intercommunication between 12 units
- ID setting enabled with dip switch
- Effective calling to all units by paging function
- Door lock release (when connecting DR-DW3N door station)
- Calling & paging

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## INTERCOM

CM-801 · 800

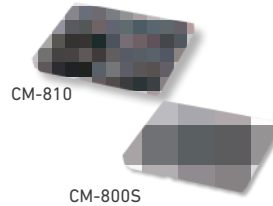


- 1:1 paging and talking feature
- Enabling long distance communication through PTT
- Indicating in-use status

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## INTERCOM

CM-810 · 800S



- 1 Master unit (CM-810) and 10 Sub-unit (CM-800S) intercom
- Calling ID display on the FND display with adjustable sound level
- Enabling long distance communication through PTT

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## INTERCOM

CM-810M



- 10 Master unit intercom
- Calling ID display on the FND display with adjustable sound level
- Enabling long distance communication through PTT

---

## WIRELESS INTERCOM

WI-3SN



- No cross of wires (Power Line Communication)
- Can be installed anywhere with AC outlet
- Enabling long communication through PTT (priority call function)

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## WIRELESS INTERCOM

WI-2B

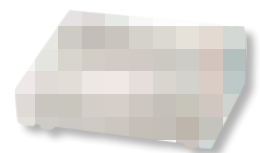


- No cross of wires (Power Line Communication)
- Available to install anywhere with AC outlet
- Enabling long communication through PTT (priority call function)

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## POWER INTERCOM

PI-30LN · 20LN · 10LN



- Master unit of CM-800L (Max 30 Units)
- Distance to sub unit : Up to 2km
- Group paging & whole paging and communicating
- Receiving Lamp (flicker)



# SMART DOOR LOCK

SMART DOOR LOCK is an access control system with proven safety, usability and leading design for your home security.



# FACE RECOGNITION DOOR LOCK

CDL-88PBio



- Premium Biometric Push-Pull Doorlock
- High quality premium BAR type push-pull design
- Register 100 Users with 6-way access methods (Face recognition, RF Card, Pin number, Fingerprint, Mechanical Key, Connected Monitor(option))
- 2.4 inch LCD display • Emergency power(Micro USB 5V)
- Automatically detect when a person approaches and power on (CDL-88PBio(IR))

<b>Applicable</b>	Normal fire door	Thickness 40mm ~ 80mm
<b>Access methods</b>	Pin number (Face recognition unit)	6~8 digit number combination (1 pin number per 100users)
	Pin number (Number plate)	4~12 digit number combination (Up to 4 pin number)
	RF card	Up to 100 cards (1 Rf Card per 100 users)
	Mechanical Key	Individual mechanical lock
	Fingerprint	Up to 100 Fingerprints
<b>Power source</b>	DC 6V	Alkaline AA battery 8pcs (LR6 1.5V AA size)
<b>Type of product</b>	Fireproof type, Temperature sensor type, Key type, Master key door lock	
<b>Temp. alarm</b>	Temperature sensor	60 degree ± 10 degree
<b>Option</b>	Monitor Remote module(447.275Mhz)	
<b>Dimension(mm)</b>	90(W)x455(H)x55(D)	

# FACE RECOGNITION DOOR LOCK

NEW

CDL-710MPBio



ROSE GOLD

BLACK

- Convenient face authentication door opening function
- No worries about password guessing with the imaginary number function!
- Easy, no-tap installation
- It's convenient to let you know when to replace the battery in advance
- Prevention of intrusion through prank prevention and intrusion detection
- High temperature detection sensor functions such as fire
- Emergency power(Micro USB 5V C type(optional))
- Out-body handles can only be operated by pulling, In-body handles can only be operated by pushing.

<b>Applicable</b>	Normal fire door	Thickness 40mm ~ 50mm
<b>Access methods</b>	Pin number	4~12 digit number combination (Up to 4 pin number)
	RF card	Up to 30 cards
	Face recognition	Up to 50 Face recognition
<b>Power source</b>	DC 6V (Alkaline AA battery 4pcs (LR6 1.5V AA size))	
<b>Temp. alarm</b>	Temperature sensor (60 degree ± 10 degree)	
<b>Option</b>	Home network remote module	
<b>Dimension(mm)</b>	96(W)x228(H)x49(D)	

## FACE RECOGNITION DOOR LOCK

CDL-3PRBio



Facial Recognition



Palm Recognition



RF card



BLACK RED

BLACK GOLD

BROWN

- Biometric Push-Pull Doorlock
- Register 100 Users with 5-way access methods (Face recognition, RF Card, Pin number, Mechanical Key)
- 2.8 inch LCD display and Emergency power (9V square battery)
- Monitor Remote module(447.275Mhz) (optional)

<b>Applicable</b>	Normal fire door	Thickness 40mm ~ 60mm
<b>Access methods</b>	Pin number (Face recognition unit)	6~8 digit number combination (1 pin number per 100users)
	Pin number (Number plate)	4~12 digit number combination (Up to 4 pin number)
	RF card	Up to 100 cards (1 Rf Card per 100 users)
	Mechanical Key	Individual mechanical lock
<b>Power source</b>	DC 6V	Alkaline AA battery 8pcs (LR6 1.5V AA size)
<b>Type of product</b>	Fireproof type, Temperature sensor type, Key type, Master key door lock	
<b>Temp. alarm</b>	Temperature sensor (60 degree ± 10 degree)	
<b>Dimension(mm)</b>	72(W)x377(H)x80(D)	

## SMART DOOR LOCK

CDL-260P



RF card



Fingerprint Recognition



- 3rd Generation Design Strategic Pushpull Digital Door Lock
- 4 way door opening (easy opening with fingerprint)
- No worries about password guessing with the imaginary number function!
- Sound settings and manner mode to be considerate of family and neighbors
- Prevention of intrusion through prank prevention and intrusion detection
- High temp. detection, alert and automatic unlocking
- Emergency power(9V alkaline battery(optional))

<b>Applicable</b>	Normal fire door	Thickness 40mm ~ 60mm
<b>Access methods</b>	Pin number (Number plate)	4~12 digit number combination (Up to 4 pin number)
	RF Card	Up to 30 cards
	Fingerprint	Up to 100 Fingerprints
	Mechanical Key	Individual mechanical lock
<b>Power source</b>	DC 6V (Alkaline AA battery 8pcs (LR6 1.5V AA size))	
<b>Type of product</b>	Fireproof type, Temperature sensor type, Key type, Master key door lock	
<b>Temp. alarm</b>	Temperature sensor (60 degree ± 10 degree)	
<b>Dimension(mm)</b>	83(W)x385(H)x67(D)	

## PREMIUM DOOR LOCK

CDL-88PB · 88P



Connect a smartphone (CDL-88PB)



Fingerprint Recognition



RF card



BROWN SILVER

BLACK SILVER

BLACK GOLD

- High quality premium BAR type push-pull design
- 5 WAY Access methods (RF card, Pin number, Fingerprint, Mechanical key, Connected Monitor(option))
- Smart Phone Access (CDL-88PB) • ONE KEY(Bluetooth) (CDL-88PB)
- Emergency power(Micro USB 5V)
- Monitor Remote module(447.275Mhz) (optional)

<b>Applicable</b>	Normal fire door	Thickness 40mm ~ 80mm
<b>Access methods</b>	Smart phone	One key App.
	Pin number (Number plate)	4~12 digit number combination (Up to 4 pin number)
	RF Card	Up to 30 cards
	Mechanical Key	Individual mechanical lock
<b>Power source</b>	DC 6V (Alkaline AA battery 8pcs (LR6 1.5V AA size))	
<b>Type of product</b>	Fireproof type, Temperature sensor type, Key type, Master key door lock	
<b>Temp. alarm</b>	Temperature sensor (60 degree ± 10 degree)	
<b>Dimension(mm)</b>	90(W)x455(H)x55(D)	

## SMART DOOR LOCK

CDL-250P



RF card



- 3rd Generation Design Strategic Pushpull Digital Door Lock
- No worries about password guessing with the imaginary number function!
- Sound settings and manner mode to be considerate of family and neighbors
- It's convenient to let you know when to replace the battery in advance
- Prevention of intrusion through prank prevention and intrusion detection
- High temp. detection, alert and automatic unlocking
- Emergency power(9V alkaline battery(optional))

<b>Applicable</b>	Normal fire door	Thickness 40mm ~ 60mm
<b>Access methods</b>	Pin number	4~12 digit number combination (Up to 4 pin number)
	RF card	Up to 30 cards
	Mechanical Key	Individual mechanical lock
<b>Power source</b>	DC 6V (Alkaline AA battery 8pcs (LR6 1.5V AA size))	
<b>Temp. alarm</b>	Temperature sensor (60 degree ± 10 degree)	
<b>Option</b>	Home network Remote module	
<b>Dimension(mm)</b>	83(W)x385(H)x67(D)	

## SMART DOOR LOCK

NEW

CDL-800MP



RF card



- Easy-to-install non-perforated pushpull digital door lock
- Pin number 4~12 digit number combination (Up to 4 pin number) / RF Card(Up to 30 cards) / Individual mechanical lock(Optional)
- Emergency power(9V alkaline battery(optional))
- High temp. detection, alert and automatic unlocking

<b>Applicable</b>	Normal fire door	Thickness 40mm ~ 50mm
<b>Access methods</b>	Pin number	4~12 digit number combination (Up to 4 pin number)
	RF card	Up to 30 cards
	Default : No key (Mechanical Key - Optional)	Individual mechanical lock
<b>Power source</b>	DC 6V (Alkaline AA battery 4pcs (LR6 1.5V AA size))	
<b>Temp. alarm</b>	Temperature sensor (60 degree ± 10 degree)	
<b>Option</b>	Home network Remote module	
<b>Dimension(mm)</b>	83(W)x333(H)x67(D)	

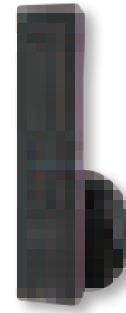
## SMART DOOR LOCK

NEW

CDL-700MP



RF card



- Easy, no-tap installation
- No worries about password guessing with the imaginary number function!
- It's convenient to let you know when to replace the battery in advance
- Prevention of intrusion through prank prevention and intrusion detection
- High temp. detection, alert and automatic unlocking
- Emergency power(Micro USB 5V C type(optional))
- Out-body handles can only be operated by pulling, In-body handles can only be operated by pushing.

<b>Applicable</b>	Normal fire door	Thickness 40mm ~ 50mm
<b>Access methods</b>	Pin number	4~12 digit number combination (Up to 4 pin number)
	RF card	Up to 30 cards
<b>Power source</b>	DC 6V (Alkaline AA battery 4pcs (LR6 1.5V AA size))	
<b>Temp. alarm</b>	Temperature sensor (60 degree ± 10 degree)	
<b>Option</b>	Home network Remote module	
<b>Dimension(mm)</b>	96(W)x228(H)x49(D)	

## SMART DOOR LOCK

CDL-230P · 230PB · 240P



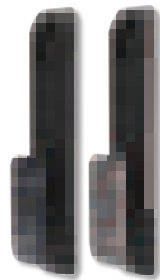
RF card



Fingerprint Recognition (CDL-240P)



CDL-230P / 240PB  
Dark silver Light brown



CDL-240P  
Dark silver Light brown

- 4 way access methods(RF Card, Pin number, Mechanical Key, Connected Monitor(option))
- Durable body for protecting against high temp. and shock
- High temp. detection, alert and automatic unlocking
- Multi-layered authentication(Pin number/RF Card)
- Emergency power(9V alkaline battery) • ONE KEY(Bluetooth) (CDL-230PB)
- Fingerprint(Up to 100 Fingerprints) (CDL-240P)

<b>Applicable</b>	Normal fire door	Thickness 40mm ~ 60mm
<b>Access methods</b>	Pin number (Number plate)	4~12 digit number combination (Up to 4 pin number)
	RF Card	Up to 30 cards
	Mechanical Key	Individual mechanical lock
	Fingerprint	Up to 100 Fingerprint (CDL-230P)
<b>Power source</b>	DC 6V (Alkaline AA battery 8pcs (LR6 1.5V AA size))	
<b>Type of product</b>	Fireproof type, Temperature sensor type, Key type, Master key door lock	
<b>Temp. alarm</b>	Temperature sensor (60 degree ± 10 degree)	
<b>Dimension(mm)</b>	80(W)x382(H)x71(D)	

## SMART DOOR LOCK

CDL-200P · 210P



RF card



Fingerprint Recognition (CDL-210P)



CDL-200P CDL-210P

- Push pull Doorlock with 3(4) way access methods (RF card, Pin number, Mechanical key, Fingerprint(CDL-210P))
- Emergency power(9V alkaline battery(optional))
- Pin number 4~12 digit number combination (Up to 4 pin number) / RF Card(Up to 30 cards) / Individual mechanical lock / Fingerprint(Up to 100 Fingerprints) (CDL-210P)
- Fireproof type, Temperature sensor type, Key type, Master key door lock
- Monitor Remote module(447.275Mhz) (optional)

<b>Applicable</b>	Normal fire door	Thickness 40mm ~60mm
<b>Access methods</b>	Pin number	4~12 digit number combination (Up to 4 pin number)
	RF card	Up to 30 cards
	Mechanical Key	Individual mechanical lock
	Fingerprint	Up to 100 Fingerprint (CDL-210P)
<b>Power source</b>	DC 6V (Alkaline AA battery 8pcs (LR6 1.5V AA size))	
<b>Type of product</b>	Fireproof type, Temperature sensor type, Key type, Master Key doorlock	
<b>Temp. alarm</b>	Temperature sensor (60 degree ± 10 degree)	
<b>Dimension(mm)</b>	80(W)x382(H)x71(D)	



## FACE RECOGNITION DOOR LOCK

CDL-300LBio



Facial Recognition



Palm Recognition



RF card



- Biometric Digital Doorlock
- Register 100 Users and 5-way access methods (Face recognition, RF Card, Pin number, Mechanical Key)
- 2.8 inch LCD display and Emergency power(Micro USB 5V)
- Automatically detect when a person approaches and power on

<b>Applicable</b>	Normal fire door	Thickness 40mm ~ 60mm
	Pin number	6~8 digit number combination (Face recognition unit) (1 pin number per 100users)
<b>Access methods</b>	Pin number (Number plate)	4~12 digit number combination (Up to 4 pin number)
	RF card	Up to 100 cards (1 Rf Card per 100 users)
	Mechanical Key	Individual mechanical lock
<b>Power source</b>	DC 6V (Alkaline AA battery 8pcs (LR6 1.5V AA size))	
<b>Type of product</b>	Fireproof type, Temperature sensor type, Key type, Master key door lock	
<b>Temp. alarm</b>	Temperature sensor (60 degree ± 10 degree)	
<b>Dimension(mm)</b>	83(W)x326(H)x72(D)	

## SMART DOOR LOCK

CDL-200L · 210L



RF card



Fingerprint Recognition (CDL-210L)



CDL-200L

CDL-210L

- Lever Type Doorlock with 3(4) way access methods (RF card, Pin number, Mechanical key, Fingerprint(CDL-210L))
- Emergency power(9V alkaline battery(optional))
- Pin number 4~12 digit number combination (Up to 4 pin number) / RF Card(Up to 30 cards) / Individual mechanical lock / Fingerprint(Up to 100 Fingerprints) (CDL-210L)
- Fireproof type, Temperature sensor type, Key type, Master key door lock
- Monitor Remote module(447.275Mhz) (optional)

<b>Applicable</b>	Normal fire door	Thickness 40mm ~ 60mm
	Pin number	4~12 digit number combination (Up to 4 pin number)
<b>Access methods</b>	RF card	Up to 30 cards
	Mechanical key	Individual mechanical lock(Key type only)
	Fingerprint	Up to 100 Fingerprints(CDL-210L)
<b>Power source</b>	DC 6V (Alkaline AA battery, 8pcs(LR6 1.5V AA size))	
<b>Type of product</b>	Fireproof type, Temperature sensor type, Key type, Master key door lock	
<b>Temp. alarm</b>	Temperature sensor (60 degree ± 10 degree)	
<b>Dimension(mm)</b>	77(W)x302(H)x71(D)	

## SMART DOOR LOCK

CDL-300L · 310L



RF card



Fingerprint Recognition (CDL-310L)



CDL-300L

CDL-310L

- 3(4) way access methods (RF Card, Pin number, Mechanical key, Fingerprint(CDL-310L))
- Durable body for protecting against high temp. and shock
- Connectivity with home network system using remote controller(option)

<b>Applicable</b>	Normal fire door	Thickness 40mm ~ 60mm
	Pin number	4~12 digit number combination (Up to 4 pin number)
<b>Access methods</b>	RF card	Up to 30 cards
	Mechanical key	Individual mechanical lock
	Fingerprint	Up to 100 Fingerprints(CDL-831L)
<b>Power source</b>	DC 6V (Alkaline AA battery, 8pcs(LR6 1.5V AA size))	
<b>Type of product</b>	Fireproof type, Temperature sensor type, Key type, Master key door lock	
<b>Temp. alarm</b>	Temperature sensor (60 degree ± 10 degree)	
<b>Option</b>	Home network Remote module	
<b>Dimension(mm)</b>	83(W)x326(H)x72(D)	

## SMART DOOR LOCK

CDL-400M · 410M · 400MC · 410MC



RF card



CDL-400M  
CDL-400MC

CDL-410M  
CDL-410MC

- Mini Lever type Doorlock
- Easy, no-tap installation
- 2 way access methods (RF Card, Pin number)
- Home networking of remote controlle(CDL-400MC/CDL-410MC)
- Emergency power(9V alkaline battery(optional))

<b>Applicable</b>	Normal fire door	Thickness 40mm ~ 60mm
	Pin number	4~12 digit number combination (Up to 4 pin number)
<b>Access methods</b>	RF card	Up to 30 cards
<b>Power source</b>	DC 6V (Alkaline AA battery, 4pcs(LR6 1.5V AA size))	
<b>Type of product</b>	Temperature sensor type, Non key type, Master key door lock	
<b>Temp. alarm</b>	Temperature sensor (60 degree ± 10 degree)	
<b>Dimension(mm)</b>	80(W)x230(H)x63(D)	

## ROCK AND LOCK

CDL-100WL · 800WL



CDL-100WL/WLC

CDL-800WL/WLC

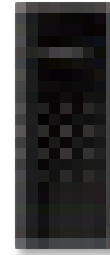
- High-quality premium design door lock
- CDL-800WL : 2 way access methods (Pin number, Fingerprint)  
CDL-100WL : 2 way access methods (RF Card, Pin number)
- Emergency power (9V alkaline battery(optional) Micro USB 5pin))

<b>Applicable</b>	Interior door	Thickness 35mm ~ 50mm
<b>Access methods</b>	Pin number (Number plate)	4~12 digit number combination (Up to 4 pin number)
	RF Card(CDL-100WL)	Up to 30 cards
	Fingerprint(CDL-800WL)	Up to 100 Fingerprints
<b>Power source</b>	DC 6V (Alkaline AA battery 4pcs(LR6 1.5V AA size))	
<b>Type of product</b>	Non Fireproof type, Temperature sensor type, Key type, Master key door lock	
<b>Temp. alarm</b>	Temperature sensor (60 degree ± 10 degree)	
<b>Dimension(mm)</b>	95(W)x95(H)x71(D)	

## SMART DOOR LOCK

NEW

CDL-207U



- Door-opening function with the use of password, card
- Connection to home network system(Optional)
- External double locking device
- High temperature detection sensor functions such as fire
- Alarm function in case of house breaking and theft
- Emergency power(DC 9V alkaline battery)

<b>Applicable</b>	Normal fire door	Thickness 35mm ~ 50mm
<b>Access methods</b>	Pin number	3~12 digit number combination
	RF card	Up to 50 cards
	Home network remote module	Optional
<b>Power source</b>	DC 6V (Alkaline AA battery 4pcs (LR6 1.5V AA size))	
<b>Temp. alarm</b>	Temperature sensor (65 degree ± 10 degree)	
<b>Dimension(mm)</b>	67(W)x159(H)x16(D)	

## SMART DOOR LOCK

CDL-107U



- 3 way door opening (easy opening with smartphone)
- Open / close the door outside of the home through Z-Wave Hub (Z-Wave is for Americas only)
- Emergency power(9V alkaline battery(optional))
- Indoor door Thickness 35mm ~ 50mm
- Pin number 4~10 digit number combination / RF Card(Up to 30 cards) / Individual mechanical lock
- Non Fireproof type, Temperature sensor type, Key type, Sub key door lock

<b>Applicable</b>	Indoor door	Thickness 35mm ~ 50mm
<b>Access methods</b>	Pin number	4~10 digit number combination
	Z-WAVE	Smartphone
	Mechanical Key	Individual mechanical lock
<b>Power source</b>	DC 6V (Alkaline AA battery 4pcs (LR6 1.5V AA size))	
<b>Type of product</b>	Temperature sensor type	
<b>Temp. alarm</b>	Temperature sensor(60 degree ± 10 degree(Normal test))	
<b>Option</b>	Monitor Remote module(447.275Mhz)	
<b>Dimension(mm)</b>	85(W)x175(H)x30(D)	

## SMART DOOR LOCK

CDL-100G · 100GC



CDL-100G



CDL-100GC



CDL-100GC

CDL-100G

- Hinge method (left and right conversion possible) (CDL-100G)
- Clip-type fixing method (Glass door without handle) (CDL-100GC)
- Indoor/outdoor double locking
- Notification sound can be adjusted (bass-treble)
- Check for locking error
- A separate holder is required when installing on a double-sided by tempered glass door
- Emergency power(DC 9V alkaline battery)

<b>Applicable</b>	Glass door	Thickness 12mm
<b>Access methods</b>	Pin number	3~19 digit number combination
	RF card	Up to 50 cards
<b>Power source</b>	DC 6V (Alkaline AA battery 4pcs (LR6 1.5V AA size))	
<b>Temp. alarm</b>	Temperature sensor (60 degree ± 10 degree)	
<b>Dimension(mm)</b>	CDL-100G : 71(W)x172(H)x18(D)	
	CDL-100GC : 64(W)x165(H)x24(D)	

# CCTV

COMMAX supplies various CCTV systems that customers need.



## 4MP NIGHT SHOOTER VANDAL IR DOME CAMERA

CNV-401RL

4MP

4 mega pixel



Night shooter



## 4MP NIGHT SHOOTER IR BULLET CAMERA

CNU-402RL

4MP

4 mega pixel



Night shooter



## 2MP DUAL LENS MINI PTZ CAMERA

CNP-20104R

2MP

2 mega pixel



Dual Lens



A.I.



Night shooter



- 1/3" progressive Scan 4.0MP CMOS image sensor
- 2.8mm Fixed Lens
- Max. 2688x1520@ 30fps
- Smart IR UP to 30m
- Ultra 265, H265, H.264, MJPEG
- ROI, 9:16 Corridor mode
- 120dB True WDR
- IP67, IK10 Vandal resistant

- 1/3" progressive Scan 4MP CMOS image sensor
- 4.0mm Fixed Lens
- Max. 2688x1520@ 30fps
- Smart IR UP to 50m
- Ultra 265, H265, H.264, MJPEG
- ROI, 9:16 Corridor mode
- Built in Mic.
- 120dB True WDR
- IP67

- 1/2.8" progressive Scan 2MP CMOS image sensor
- Starlight Illumination
- 2.8mm Fixed & 2.8~12mm AF Motorized Lens
- 2-way communications using speaker & Mic.
- Ultra 265, H265, H.264, MJPEG
- Wall installation
- DC12V, PoE+ (IEEE802.3 at), Max 16W
- IP66

## 2MP MOTORIZED IR BULLET CAMERA

CNU-208R

2MP

2 mega  
pixel



- 1/2.7" progressive Scan 2MP CMOS image sensor
- 2.8~12mm, AF Auto Focusing and Motorized zoom
- Max. 1920x1080@ 30fps
- Smart IR UP to 50m
- Ultra 265, H265, H.264, MJPEG
- ROI, 9:16 Corridor mode
- 120dB True WDR
- IP67

## 2MP MOTORIZED IR BULLET CAMERA

CNV-201R2

2MP

2 mega  
pixel



- 1/2.7" progressive Scan 2MP CMOS image sensor
- 2.8mm Fixed Lens
- Max. 1920x1080@ 30fps
- Smart IR UP to 30m
- Ultra 265, H265, H.264, MJPEG
- ROI, 9:16 Corridor mode
- 120dB True WDR
- IP67, IK10 Vandal resistant

## 2MP MOTORIZED IR DOME CAMERA

CNV-208R

2MP

2 mega  
pixel



- 1/2.7" progressive Scan 2MP CMOS image sensor
- 2.8~12mm AF Motorized Lens
- Max. 1920x1080@ 30fps
- Dual streams
- Smart IR UP to 40m
- Ultra 265, H265, H.264, MJPEG
- ROI, 9:16 Corridor mode, BLC, HLC, Privacy Mask
- 120dB True WDR
- IP67, IK10 Vandal resistant

## 2MP IR BULLET CAMERA

CNU-202R2

2MP

2 mega  
pixel



- 1/2.7" progressive Scan 2MP CMOS image sensor
- 4.0mm Fixed Lens
- Max. 1920x1080@ 30fps
- Smart IR UP to 30m
- Ultra 265, H265, H.264, MJPEG
- ROI, 9:16 Corridor mode
- Built in Mic.
- 120dB True WDR
- IP67

## 16CH 4K NVR

CVN-1630UE2

4K

4K



- 16ch video recording
- Support 4K resolution
- Max. 2 HDD slots (Max. 10TB x 2)
- 16ch PoE port
- HDMI & VGA
- Front : 1 x USB2.0, Rear : 1 x USB3.0
- Alarm In/Out : 4/1
- 1ch audio In/Out
- Support Intelligent function

## 4/8 CH 4K NVR

CVN-0430UE2 · 0830UE2

4K

4K



- 4 or 8ch video recording
- Support 4K resolution
- Max. 1 HDD slot (Max. 6TB x 1)
- 4 or 8ch PoE port
- HDMI & VGA
- 2 x USB2.0
- 1ch audio Out
- Support Intelligent function
- IP67, IK10 Vandal resistant



# HOSPITAL COMMUNICATION SYSTEM

HOSPITAL COMMUNICATION SYSTEM provides a "one-stop" communication solution for intelligent hospital environments.



## MAIN NURSE STATION

CNS-70MN

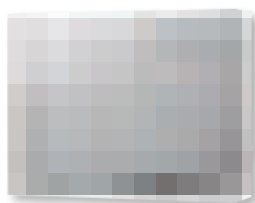


- A simple memo function.
- Group announcement function.
- Hands-free function.
- Installation flexibility (Desktop/Wall-mounted type)

Power source	From CNS-PSM
Mount type	Desktop (Wall-mounted type)
Wiring ports	8 wires
Distance	100m(0.65Ø)
Dimension(mm)	252(W)×247(H)×40(D)

## MAIN UNIT

CNS-PSM

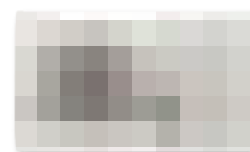


- Power supply and signal relay
- Automatic UPS connection in case of a blackout

Power source	AC 220- 240V, 60Hz
Mount type	Wall-mounted type
Wiring ports	Common 4 wires 2 wires separate
Distance	100m(0.65Ø)
Dimension(mm)	420(W)×328(H)×105(D)

## BED HEAD CONSOLE

CNS-8CS



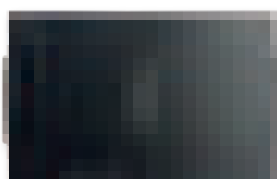
- Paging and calling nurse's waiting room
- Various ways of emergency paging and calling
- Interlocking with corridor lights (CL-302I and others)

Power source	From CNS-PSM
Mount type	Flush-mounted type
Wiring ports	8 wires
Distance	100m(0.65Ø)
Dimension(mm)	195(W)×117(H)×16(D)

## DISPLAY

NEW

CNS-101NM



- 4-wire and 8-wire nurse call receivers interlocking
- Display device announcement and digital image output
- Display the number when calling the hospital bed
- Emergency call to the bathroom, male/female separation
- Shower room emergency call, male/female separation
- Print promotional video or promotional image when waiting
- Hospital promotional video available
- Separate hospital rooms and common toilets

Power source	DC 14V, 2A
Display	Monitor interlocking
Resolution	720p (HD)
Memory	FLASH: 32MB / RAM: 128MB DDR3
Micro SD	32GB (MAX)
Interface	RS-232, RS-485, Digital Video Output
Dimension(mm)	162(W)×89(H)×22(D)

## DISTRIBUTOR

CNS-812LD · 812MD



- Connection to the slave phone in a hospital room from master phone and sub nursing phone
- Connection function of display panel
- Able to connect up to 4 sub-groups
- Signal distribution for simultaneous calling

Power source	DC 24V
Mount type	Wall-mounted type
Wiring ports	Common 8 wires 2 wires separate
Distance	100m(0.65Ø)
Dimension(mm)	106(W)×76(H)×44(D)

## OPERATING ROOM SWITCH

CNS-8AS



- Call by elbow switch
- When calling, flashing red LED, ringing melody
- Cancel button
- Interlocking with FOOT switch
- Able to communicate with CNS-70MN

Power source	DC 29V (from CNS-PSM)
Mount type	Flush-mounted type
Wiring ports	8 wires
Distance	100m(0.65Ø)
Dimension(mm)	195(W)×117(H)×16(D)

## OPERATING ROOM SWITCH

CNS-8AS2



- Call by elbow switch
- When calling, flashing red LED, ringing melody
- Cancel button • Interlocking with FOOT switch
- Able to communicate with CNS-70MN

Power source	DC 29V (from CNS-PSM)
Mount type	Flush-mounted type
Wiring ports	8 wires
Distance	100m(0.65Ø)
Dimension(mm)	195(W)×117(H)×16(D)

## NURSE CALL SWITCH

CNS-8CD



- Able to call and talk to a nurse as well as call cancel function
- Interlocking with Corridor light, CNS-70MN and emergency switch

Power source	DC 29V (from CNS-PSM)
Mount type	Desktop type
Wiring ports	Common 8 wires 2 wires separate
Distance	100m(0.65Ø)
Dimension(mm)	183(W)×169(H)×41(D)

## PRESENCE SWITCH

PB-500



- Presence switch (To turn off alarm and corridor light entering room)
- Durable and lightweight aluminum material

Power source	From JNS-4CS/CNS-8CS
Mount type	Flush-mounted type
Wiring ports	2 wires
Dimension(mm)	71(W)×116(H)×3(45)(D)

## EM. SWITCH

ES-400



- Emergency switch (restroom)
- Waterproof
- Durable and lightweight aluminum material

Power source	From JNS-4CS/CNS-8CS
Mount type	Flush-mounted type
Wiring ports	2 wires
Dimension(mm)	71(W)×116(H)×3(45)(D)

## EM. SWITCH

ES-410

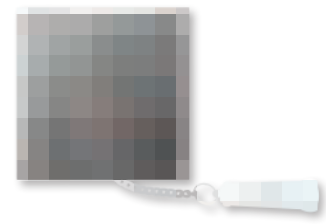


- Emergency switch with string (Pull type)
- Wired switch • LED Indicator
- Durable and lightweight aluminum material

Power source	From JNS-4CS/CNS-8CS
Mount type	Flush-mounted type
Wiring ports	2 wires
Dimension(mm)	71(W)×116(H)×3(45)(D)

## SHOWER EM. SWITCH

ES-420



- Emergency switch with chain (Shower room)
- Waterproof
- Durable and lightweight aluminum material

Power source	From JNS-4CS
Mount type	Flush-mounted type
Wiring ports	2 wires
Dimension(mm)	118(W)×118(H)×3(45)(D)

## CORRIDOR LIGHT

CL-302I



- Corridor light
- 2 Color models(Red/Green)
- LED

Power source	From JNS-4CS/CNS-8CS
Mount type	Flush-mounted type
Wiring ports	3 wires
Dimension(mm)	118(W)×118(H)×73.1(D)

## PILLOW SPEAKER

PS-100



- Pillow speaker
- Remote control of On/Off(2 lamps)

Power source	From JNS-4CS/CNS-8CS
Mount type	Fixing clip on the bed
Wiring ports	8 wires
Dimension(mm)	55(W)×171(H)×20(D)

## CALL CORD SW

CC-200



- Emergency call cord

Power source	From JNS-4CS
Mount type	Fixing clip on the bed
Wiring ports	2 wires

# MONITORS

## A.I. HOME SOLUTION



CSM-3200(S)



CHM-2200  
CHM-2200(S)



CSH-1400VX



CAP-1001A  
CAP-1000A



CIOT-1000YN



CIOT-700M2

## IP SOLUTION



CIP-70QPT



CIP-710QP



CIP-710M

## SMARTVIEW



CDV-1004QT



CDV-70QT



CIP-70QPT

## HOME BLACK BOX



CDV-1024MA



CDV-704MF



CDV-70MF

## GATE VIEW IoT



CAV-1000QGX  
CAV-1001QGX



CAV-70QGX

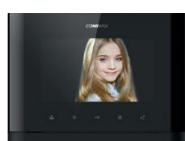
## FINE VIEW



CDV-70Y



CDV-43Y



CDV-77M



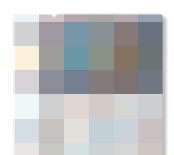
CDV-70H2



CDV-70N2



CDV-43M



CDV-43K2



# DOOR CAMERAS

## IP SERIES | 2MP | OUTDOOR



CIOT-D21M

CIOT-D20P

CIP-D20YS

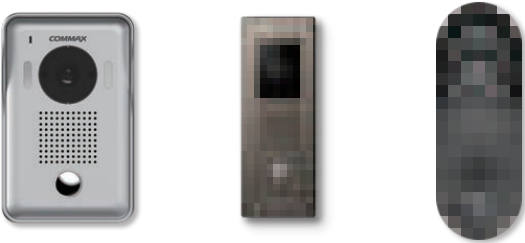
## IP SERIES | 2MP | INDOOR



CIOT-D20Y

CIOT-D20M

## 2MP | OUTDOOR



DRC-40YFD

DRC-4PF

DRC-4CPN3

## 2MP | INDOOR



DRC-40QFD

DRC-40QFM

## 1MP | OUTDOOR



DRC-40DKH  
DRC-41DKH

DRC-40YHD

DRC-40KHD

DRC-4CPHD

## 1MP | INDOOR



DRC-40QHM

DRC-40QHD

## 0.52MP | OUTDOOR



DRC-40DK  
DRC-41DK

DRC-4PIP

DRC-40K

DRC-4CPN3

## 0.52MP | INDOOR



DRC-4LN

DRC-4Y

# ENTRANCE STATIONS

## A.I. HOME SOLUTION



CIOT-LBIO



CIOT-L20M2



CIOT-L20MP



CIOT-L7FM



CIOT-L10M



CIOT-24XM

## IP SOLUTION



CIOT-L20M2

## GATE VIEW IoT



DRC-BIOL(N)

## AUDIO GATE SYSTEM



DR-2GS



DR-2AG/RF1

## MULTI BUTTON ENTRANCE STATION



DRC-10ML



DRC-8ML



DRC-6ML



DRC-4ML



DRC-2ML



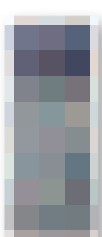
DRC-24XM(F)



DRC-7UC



DRC-6UC



DRC-5UC



DRC-4UC



DRC-3UC



DRC-2UC

# DOOR LOCKS

## FACE RECOGNITION DOOR LOCK



CDL-88PBio



CDL-710MPBio



CDL-3PRBio



CDL-300LBio

## PREMIUM DOOR LOCK



CDL-88PB  
CDL-88P



CDL-260P



CDL-250P



CDL-800MP



CDL-260P



CDL-230P



CDL-230PB

## FINGERPRINT RECOGNITION DOOR LOCK



CDL-810MP



CDL-240P



CDL-210P



CDL-310L



CDL-210L



CDL-100WL/WLC

## DOOR LOCK



CDL-200P



CDL-300L



CDL-200L



CDL-400M  
CDL-400MC



CDL-410M  
CDL-410MC



CDL-207U



CDL-107U

# Accessories

## RAIN SHIELD

DIE CASTING TYPE



Mounted type



Flushed type

Applicable product DRC-7MS, CIOT-L20M2, DRC-703S, DRC-707LC/707LCB, DRC-7MBL, DRC-77MU

Dimension(mm) 273(W)x320(H)x50(D)

## RAIN SHIELD

METAL PLATE TYPE



Mounted type



Flushed type

Applicable product DRC-7MS, CIOT-L20M2, DRC-703S, DRC-707LC/707LCB, DRC-7MBL, DRC-77MU

Dimension(mm) 255(W)x280(H)x60(D)

## RAIN SHIELD

DOOR CAMERA



Applicable product Metal plate type

## TERMINAL BOARD

CTB-1C4M



Propose Connect 4 wallpads with 1 Door camera

Applicable product Video distributor for videophone

## RELAY BOARD

CRB-4CH



Propose Connect 1 wallpads with 4 Door camera

Applicable product 4 wire monitor & door camera

## TERMINAL BOARD

CTB-GV UTP



- GATEVIEW SYSTEM
- Connecting Converter to UTP type
- Wiring : 10P to UTP

## RF MODULE

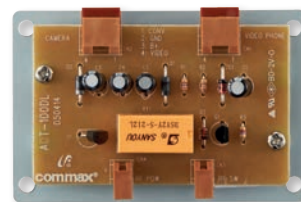
MODULE 447MHZ



- RF module for doorlock open via videophone

## TERMINAL BOARD

ADT-100DL



- Interwork Videophone and DDL MODULE (RF-447MHz)
- Wiring : Videophone - 4p, Door - 4p, DDL P/W - 2p, DDL OPEN - 2p





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