Ubiquitous Leader

KOCOM

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Kocom. 2010. 11

※ This catalogue is based on the date as shown in the right and specifications are subject to change without notice for quality improvement.

HOME MANAGER   Since1976

HOME MANAGER Since 1976

Ubiquitous Leader- KOCOM

Ubiquitous Leader-

KOCOM

*KOCOM will take the lead in the globalization of intellectual housing culture in 21st century.

KOCOM has brought up the international competitiveness of Home Network Solution which is our main business with the self-confidence that our network solution technology will become the standard of international network technology.

Please expect and encourage the shining future of KOCOM which will develop again and again.

CONTENTS

Global Partner

KOCOM grows up as* the world business partner beyond Korea.

Enjoying together with the World
KOCOM opens up a new housing culture through
a high-tech solution with safety and convenience.
We will be the No.1 Leader of fine proportions in the world.

■■ Global Partner Kocom

No.1 Global Top Brand Kocom

We have focused on various solution businesses to apply to a home, an office, a hotel, etc. for the improvement of convenient and stable living life and LED lighting business of the future eco-friendly technology, and also gathered our core competence for strengthening global marketing via international exporting against all over the world - USA, Europe, China, Japan and so on.

We will do our best to be an enterprise with the best customer satisfaction, large growth potentiality and competitiveness through our mission that KOCOM's product is Quality Assurance (Q.A).

Our vision is to make the living & activity space where everybody can use more easily, conveniently and safely via various network solutions at anytime and anywhere and the U-City realizing the dream of Ubiquitous Life for happiness of everybody.

Bussiness

The dream making the more* enjoyable and happy world! It shows the hopeful future of KOCOM with the highest potentiality.

KOCOM secures a digital technology and global leadership and has possessed the appearance of a global leader through an advanced biz structure and global management.
You can see the whole world of KOCOM through diverse data at a look.
Please find out the new future of KOCOM growing up as a global digital leader.

Kocom Bussiness

Dreaming of a Global Kocom

Ubiquitous Digital Home – KOCOM Home Network System
It realizes the future intelligent digital home that it is possible to communicate easily and interactively inside and outside of a house by connecting all home digital appliances with a wire/wireless network.

Power Security made by KOCOM Digital CCTV System
It offers a reasonable and powerful monitoring solution with high efficiency and a competitive price.

Eco-friendly LED Light – LumiOne
The combination of home-network technology of KOCOM and the LumiOne" which is the light source of next generation will pursue the Green Light Culture for the harmony of a human and nature.

KOCOM Ventilation System – Home Flesh
KOCOM Ventilation System is a happy solution to protect the health and happiness of a family and a ubiquitous system for a healthy lifestyle.

Customized Optimum Network SI Service
KOCOM Network SI Service offers various services in relation to a network such as telecommunication service, internet service and etc. as well as the construction, operation and consultation of a customized network infrastructure.

KOCOM multimedia leading refreshing digital world!
KOCOM multimedia business successfully expanded a business area by developing firstly a digital still camera in Korea. In addition, it hardens a multimedia biz area by developing and manufacturing the smallest and lightest digital dual camera in the world.

Kocom History

History

2008
Selected as the Grand Prize for Premium Brand in 2008
Awarded a letter of commendation from Ministry of Knowledge Economy
Selected a Wallpad as a Good-Design Product
Acquired a TTA Certificate for a Home Gateway of Kocom

2010
Acquired a High-efficiency certification for LED lighting
(LP30-E26BA12C6N, LP30-E26BA12W3N, LM-G53AB05C6N, LM-G53AB05W3N, LB- E26BA07C6N, LB-E26BA07W3N, LP20-E26BA-07C60, LP20-E26BA-07W30)

2003
Awarded the Top Superiority Prize at "Digital Innovation Grand Prix" (Prize of SMBA Chief)
Awarded Korean Industrial Design Prize (Home Automation, CCTV Camera)
Awarded Good Design(KDC-330, KMC-90) (KIDP)
Developed and produced 3.3M digital camera
Awarded the Superior Electronic Industry Prize (Electronic Industries Association of Korea)

2006
World first class products selection Selection by Ministry of Commerce.
Developed and acquired a certification for Home Gateway with RFID/USN

2004
Participated in digital home network model service(KT Consortium)

2001
Awarded Korean Industrial Design Prize (Web PC Camera KMC-88i)
Established a branch office in Shenzen, China
Nominated as iNNO-BIZ company(SMBA)
Ranked in A grade at KBP Corporate Financial Reliability Evaluation (Ranked third among KOSDAQ-listed companies)
Awarded Superior IR Company Prize (KOSDAQ)
Developed the Cyber APT System for export (Japan)
Renamed to KOCOM Co. Ltd.

1999
Purchased Seoul branch building(#260-7, Yeomchang-dong, Gangseo-gu)
Designated as Superior Company with Technological Competitiveness (SMBA)

1993
Awarded Korea Industrial Design Prize(CCTV Camera)
Awarded Superior venture company prize
Received commendation as Superior Company for Quality Innovation
Received Superior company prize in the category of "Prospective SMBs" at "SMB Grand Prix"
Developed colored video doorphone

1995
Obtained the permit for General Construction Work,Class 1 (Electrical Construction Work Permit)
Awarded the Prime Minister Prize (Exemplary Small & Middle Businessman)
Listed as one of 100 prospective SMBs
Developed unmanned security system

1991
Built the 2nd factory (53B 4L, Namdong Industrial Complex, Incheon City; 1,830 pyong)
Permitted as Information & Communication Construction Work, Class 1
Acquired type approval for all-in-one type Home automation

1989
Good Design Awarded (Interphone etc.)

1996
Acquired the first 100PPM authentication for finished product in Korea (Monitor & Camera)
Developed still camera first in Korea
Developed digital still camera first in Korea developed PC camera first in Korea

1984
Developed the first Nurse Call System in Korea

1987
Developed the first CCD type videophone in Korea
Selected as one of prospective SMBs

1980
Incorporated Korea Telecommunication Co. Ltd.

1976
Established Korea Telecommunication

2010's~
Global Ubiquitous Leader
KOCOM

2007's 2009
Global Management
2007~

2000's 2006
New Management
2000~2006

1991's 2000
Takeoff Period
1991~2000

1980's 1990
Growth Period
1981~1990

1976's 1980
Foundation Period
1977~1980

Leading the World Best Leaders in 1st Century

Main Produts Item
Home Network System, Videophone, Videophone, Interphone, Doorphone, CCTV System, Multimedia, LED Lighting System

2005
Awarded Korean Industrial Design Prize(KHN-670)
Hankook Ilbo selection(Korea Leading Campany)
Next-generation world best merchandise selection
Selected KOCOM's Home Network System as the best goods for 2005 customer satisfaction (Home Network System)

2009
Releasing new items (LINE BAR, MR16 5W, PAR20, PAR30)
Applying for 8 domestic & foreign patents
Applying for 16 domestic & foreign patents
Launching LumiONE
Participating in LED EXPO
Releasing 5 LED lights and applying for 3 patents

2007
Acquired MIC Certification for Home Gateway(KHG-108)
Participated in the development and demonstration project on the integrated electric-safety management system suitable for U-City
Acquired a certification for Wall-Pad

Jumped secondly as a U-Home network enterprise

Main Produts Item
Home Network System, Videophone, Interphone, Doorphone, CCTV System, Multimedia

2002
Exported home network system (Japan)
Awarded the Korean Industrial Design Prize(KIV-201C)
Awarded Good Design(KDC-315)
Obtained the authentication of Occupational Health & Safety Management System K-OHSMS18001(Korea Quality Assurance)
Developed 1.3-million pixel digital camera
Developed the first colored hands-free videophone in Korea

2000
Awarded Korea Industrial Design(KDC-100)
Acquired ISO14001 authentication(Korea Quality Assurance)
Designated as supplier for main computer for administrative agencies(KRW 23.4 billion)
Developed DVR(Digital Video Recorder)
Selected as Top company in Industrial Safety & Health Management (Min. of Labor)
CDeveloped Home@Manager(Cyber APT terminal)
Started home network business(Cyber APT)
Permitted as Special Communication Business (by Min. of Information & Communication)

1997
Awarded Industrial Service Medal Listed in KOSDAQ (A15710)

1998
Acquired FCC standards (Digital Camera, Video Phone, PC Camera, etc.)
1998 Awarded Good Design (KIDP)
Designated as venture company (SMBA)

1994
Awarded the 100-million Export Trophy (Commendation by Minister of Industry & Commerce)
Developed the first intelligent system(IAS & ISS) in Korea
QM system first in relevant industries(Authenticated by ISO9001)
Warded Bronze Prize at Successful Design Cases
Developed the first colored digital CCTV in Korea(second in the world)

Jumped as a competitive technology enterprise

Main Produts Item
Homeautomation, Videophone, Interphone, Doorphone, Digital Camera, PC Camera, CCTV System, Developed a rear monitor camera for a vehicle Intelligent System.

1992
Awarded 5-million Export Trophy (Commendation By the Minister of Industry & Commerce)
Established technical research institute
Received commendation by the Minister of Internal Affairs

1990
Selected as Special Company of Military Service Exemption
Acquired quality authentication for card-type telephone
Acquired the first Q MARK authentication in relevant industries (Interphone, Videophone, Doorphone)
Permitted as Special Transmitted Communication Construction Work
Acquired the permission for Telecommunication Work Business

1988
Developed home automation

1985
Applied firstly Quality Control Credit Rating in Korea

Developed home automation & Videophone

Main Produts Item
Homeautomation, Videophone, Interphone, Doorphone, Nurse Call, Wireless Interphone, Wireless Intercom

Established Korea Telecommunication

Main Produts Item
Interphons, Doorphons, Nurse Call

1976
Developed Interphone

:: Home Network System

Home Network System

Home Automation System

Video Phone

Door Camera / Doorlock

Sub Device

Interphone & Door Phone

Ventilation System

HOME ✳
NETWORK SYSTEM

Digital Home Network System

KOCOM Digital Home Network System, It opens up the convenient world just with fingertips.

KOCOM Digital Network is a high-tech solution with verified stability to realize the future intelligent digital home that it is easy for making an information communication inside and outside of a home by connecting home.

KHN-881 / 883
10.2" Color Home Network Wall-Pad

KHN-971 / 973
7" Color Home Network Wall-Pad

KHN-871 / 873
7" Color Home Network Wall-Pad

EMERGENCY
ABSENCE GUARD OPEN
TALK
KOCOM
MIC

Home Network System

Home Automation System

Video Phone

Door Camera / Doorlock

Sub Device

Interphone & Door Phone

Ventilation System

Home Network System

HOME
NETWORK SOLUTION DIAGRAM

It is KOCOM future technology to make the quality of a life to be high through
convenient control of home appliances and wide and various information and services.

Mobile Control

Remote PC Control

Visual Talk

Lighting

Curtain Remote
Controller

Curtain

Voice Recognition
Control

IrDA
Generator

Sub Videophone

Wall-Pad

Gas Controller

Gateway

Heater+Heater
Controller

Parking

Gas leakage
Sensor

Gas
Breaker

Fire Sensor

Kitchen TV
Phone

Control of Household
Appliances

Unmanned
Delivery

Motion Sensor

Elevator

Inspection of meter
by remote control

Moving
Security

Burglar
sensor

Remote
Controller

Bathroom Phone

Automatic
Common Gate

Lighting Switch

Remote Controller

Lobbyphone

Door Camera

Wireless Telephone
(Remote Controller)

Digital
Doorlock

Guard Office
Master

Outdoor

Indoor

Home Network System

Home Automation System

Video Phone

Door Camera/Doorlock

Sub Device

Interphone & Door Phone

Ventilation System

▪▪ Home Network System

HOME ※
NETWORK SYSTEM

It is the advanced type that it is possible to support all major services of Home Network system to realize a premium intelligent digital home, and it organizes around Home Gateway to connect the wallpad of main display with the network inside and outside of a home

Home Control

Mobile Control   Gas, Fire, Burglar alarm Auto Report

Inspection of meter by remote control

Power, Water works, Gas, Hotwater, the amount of heat, etc.

Control of Household Appliances   Internet, Using Internet or Mobile Phone

Living Control   Light, Curtain, Heat, Gas valve Control

Mobile Control | Control of Household Appliances | Lighting | Remote PC Control

Home Security

Security · Emergency System

Monitoring an intruder and a fire, Auto Calling System (ACS)

Door Remote Control

The remote control of a lobby and a door of a household

Visitor Auto-Saving System

It saves the video information of a visitor during one's absence.

Remote Monitoring

It is possible to monitor remotely subsidiary facilities inside of an apartment complex at a guardroom and a home.

Unmanned System   Acceptance and Dispatch of a cargo

Parking Control System

Automatic alarm system for incoming and outgoing of a vehicle.

Remote Monitoring | Moving Security | Unmanned system | Parking

Home Entertainment

Wire/Wireless Network

Easy transferring, saving and sharing of mass storage data

Digital TV System

HD (High Definition) broadcasting and watching a film via HDTV and PC

Remote Health Care   Remote Health System

Unmanned Delivery   Acceptance and Dispatch of a cargo

Digital TV System | Unmanned Delivery | Wire / Wireless Network | Remote Health Care

Advanced Home Network

I Premium ALL IP Home Network System
It offers a high-tech security service with verified stability that it is possible to control easily a home network via internet and a mobile phone of public facilities and security facilities inside of Apartment complex at anytime and anywhere.

Wiring
— UTP CAT.5E/0.5mmx4P
— Optical cable 4 Core
— Picture Line

Kitchen TV Phone
Sub Videophone | Bathroom Phone | Motion Sensor | Fire Sensor
Automatic Common Gate
Remote Controller
Inspection of meter by remote control
Wireless Telephone (Remote Controller)
Gas leakage sensor
Voice Recognition Control | Lighting
Burglar sensor
Curtain | Gas Controller Gas Breaker
Lobbyphone
Door Camera
Wall-Pad
Control of Household Appliances
Digital Doorlock
Heater+Heater Controller
Visual Talk
IrDA Generator
KOCOM   Gateway

Workgroup Switch

CC TV Camera

Guard Master

Guard Master

Unmanned Delivery Service

Unmanned Delivery Server | Elevator Server
Moving Security Server | CCTV Server
Parking Server | Home Network System Server | Remote PC Control Server
Gate Control Server

Parking Gate

Control from Outside
Mobile Phone | Remote PC Control

※ The configuration of this system may be changed by the structure / location of home, and the other peripherals are optional.
※ For Information Home Appliances, it is possible to control some of them only.

Home Network System
Home Automation System
Video Phone
Door Camera / Doorlock
Sub Device
Interphone & Door Phone
Ventilation System

Home Network System

Hybrid Home Network

Hybrid Home Network

KOCOM's hybrid home network offers a convenient and safe housing life anywhere by connecting various digital devices with networks.

Wiring
- UTP CAT.5E/0.5mmx4P
- Lobby(Video),Call(Com.),DC Power
- Lobby(Video),Call(Com.)
- Optical cable 4 Core
- Video Line
- Guard CPEV 0.65mm/5P

Kitchen TV Phone
Sub Videophone
Bathroom Phone
Motion Sensor
Fire Sensor
Automatic Common Gate
Remote Controller
Lighting Switch
Wireless Telephone (Remote Controller)
Lighting
Gas leakage sensor
Inspection of meter by remote control
Burglar sensor
Gas Controller
Gas Breaker
Curtain Control
Lobbyphone
Digital Doorlock
Door Camera
Ventilation Control
Ventilation Unit
Wall-Pad
Heater+Heater Controller
Integrated Access Device
VDA
Workgroup Switch
CC TV Camera
Guard Master
Guard Master
Unmanned Delivery Server
Moving Security Server
Parking Server
Home Network System Server
Elevator Server
CCTV Server
Remote PC Control Server
Remote PC Control Server
Unmanned Delivery Service
Parking Gate

Control from Outside
Mobile Phone
Remote PC Control

ARS Home Network

ARS Home Network

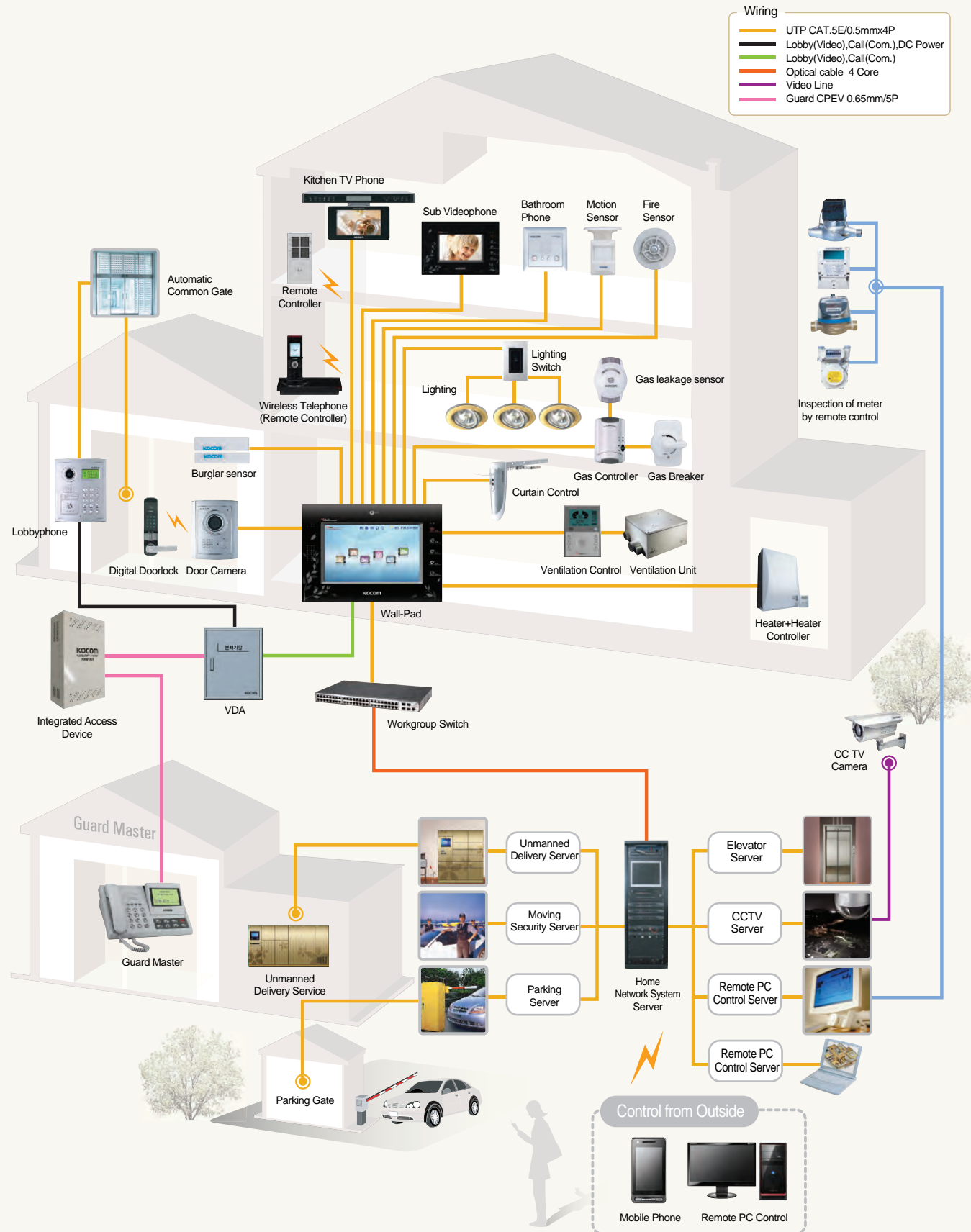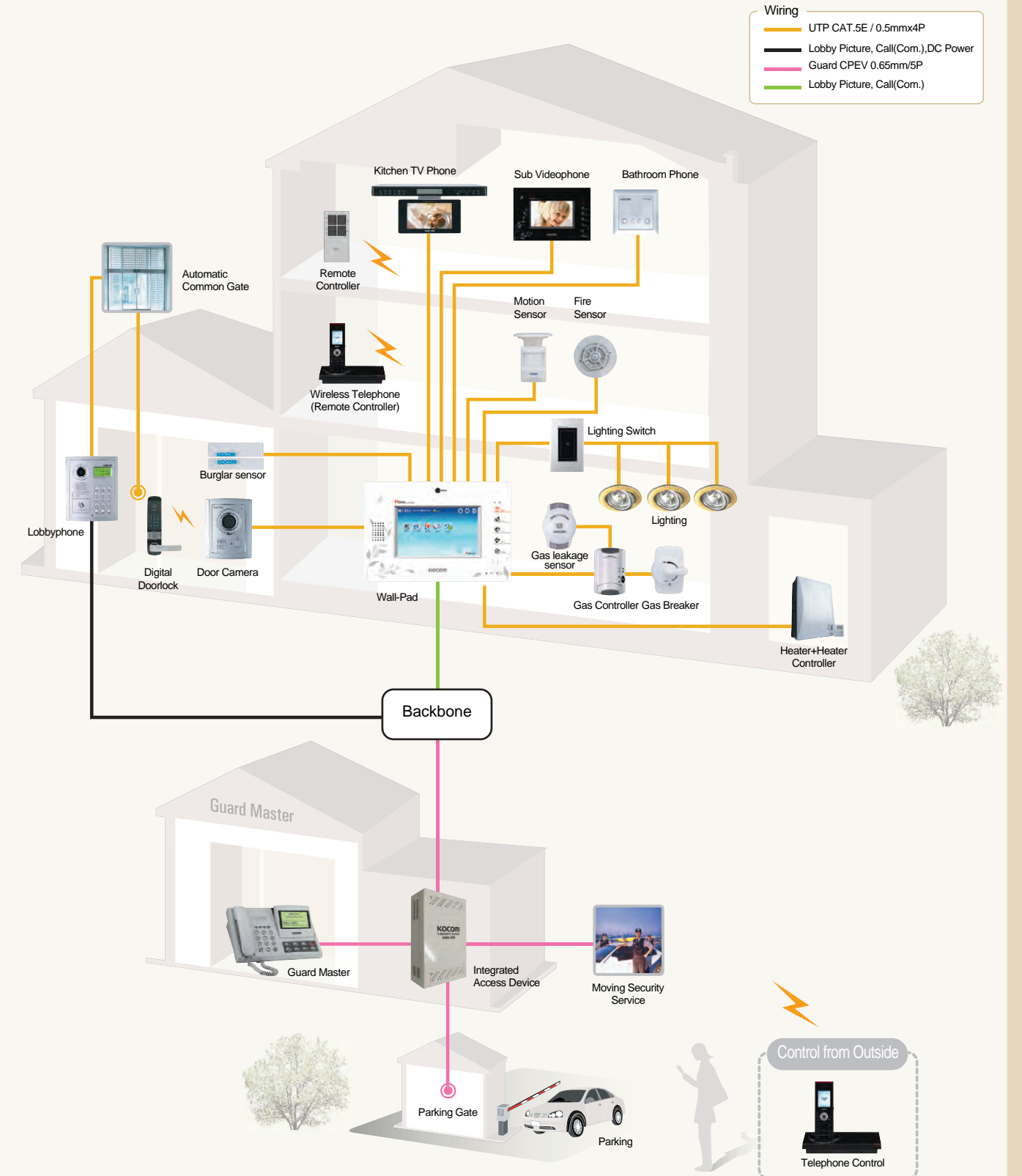It is a standard home-network solution with the basic functions of Home Automation (Home Security). It is possible to control conveniently lighting appliances, a gas valve, heating and so on through ARS control of a home without a special server.

Wiring
- UTP CAT.5E / 0.5mmx4P
- Lobby Picture, Call(Com.),DC Power
- Guard CPEV 0.65mm/5P
- Lobby Picture, Call(Com.)

Kitchen TV Phone
Sub Videophone
Bathroom Phone
Automatic Common Gate
Remote Controller
Motion Sensor
Fire Sensor
Wireless Telephone (Remote Controller)
Lighting Switch
Burglar sensor
Lighting
Lobbyphone
Digital Doorlock
Door Camera
Wall-Pad
Gas leakage sensor
Gas Controller Gas Breaker
Heater+Heater Controller
Backbone
Guard Master
Guard Master
Integrated Access Device
Moving Security Service
Parking Gate
Parking

Control from Outside
Telephone Control

※ The configuration of this system may be changed by the structure / location of home, and the other peripherals are optional.
※ For Information Home Appliances, it is possible to control some of them only.

Home Network System
Home Automation System
Video Phone
Door Camera/Doorlock
Sub Device
Interphone & Door Phone
Ventilation System

:: Home Network System

New

Home Network Color Wall-Pad

KHN-971
KHN-973

- 7" Color Digital Touch LCD
- Remote Control of Entrance
- Security and Accident Detection System
- Visitor identification & Communication through front door & Common gate camera(Lobby phone) and door open
- Video Conference between households and Guard (ALL IP product : KHN-973)
- Mutual Calling & Communication Between Residents
- Auto Record in Absence Mode
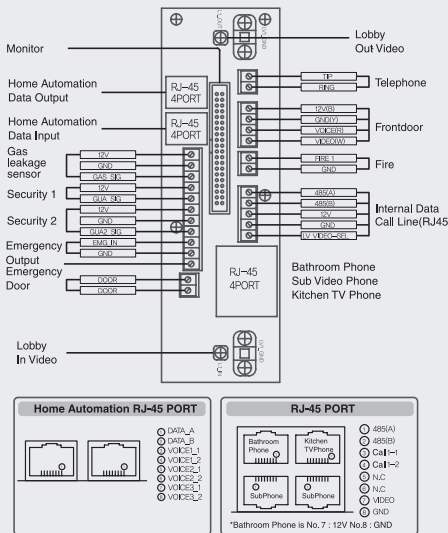- Telephone Function

:: Specifications

- Power : AC 100V~240V 50 / 60Hz
- LCD : 7" Color Digital Touch LCD (LED Type)
- Mount Type : Flush Mount
- OS: Embedded Windows CE
- System Type : GUI based on Touch-Screen
- Communication System : RS-485,TCP/IP
- Dimension (mm) : 292.5(W)×196(H)×17(D)
- Back Dimension (mm) : 225(W)×155(H)×53(D)
- Flush Box (mm) : 320(W)×240(H)×105(D)

✿ Option

- Wireless Telephone (option) - House / Lobby / Guard Master Call
- Bathroom Phone, Sub Video Phone, Kitchen TV Phone
- Lights (Dimming), Gas Valve, Heater (ARS) etc.
- Auto Information Function

:: Wiring Diagram

:: Dimension

:: Door Camera

KC-C71

Home Network Color Wall-Pad

KHN-881
KHN-883

- 10.2" Color Digital Touch LCD
- Remote Control of Entrance
- Security and Accident Detection System
- Visitor identification & Communication through front door & Common gate camera(Lobby phone) and door open
- Video Conference between households and Guard (ALL IP product : KHN-883)
- Mutual Calling & Communication Between Residents
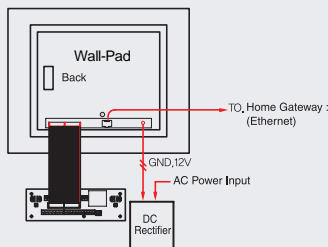- Auto Record in Absence Mode
- Telephone Function

:: Specifications

- Power : AC 100V~240V 50 / 60Hz
- LCD : 10.2" Color Digital Touch LCD (LED Type)
- Mount Type : Flush Mount
- OS: Embedded Windows CE
- System Type : GUI based on Touch-Screen
- Communication System : RS-485,TCP/IP
- Dimension : 337.5(W)×235.5(H)×18.5(D)
- Back Dimension (mm) : 225(W)×175(H)×53(D)
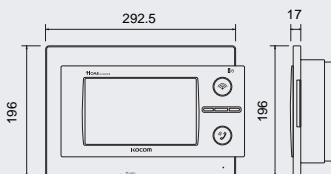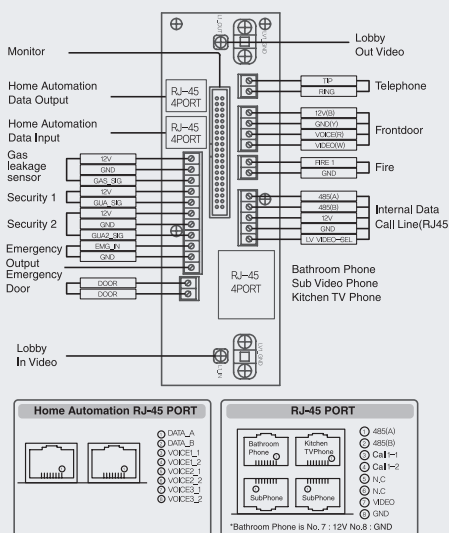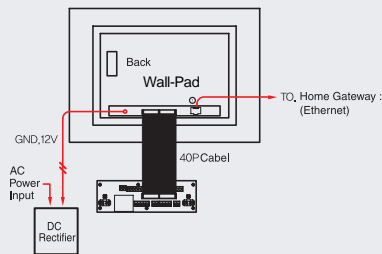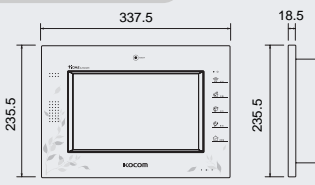- Flush Box (mm) : 320(W)×240(H)×105(D)

✿ Option

- Wireless Telephone (option) - House / Lobby / Guard Master Call
- Bathroom Phone, Sub Video Phone, Kitchen TV Phone
- Lights (Dimming), Gas Valve, Heater (ARS) etc.
- Auto Information Function

:: Wiring Diagram

:: Dimension

:: Door Camera

KC-C71

:: Option

KHN-881/883 (Black B Type)   KHN-881/883 (White B Type)

:: Home Network System

New

Home Network Color Wall-Pad

KHN-871
KHN-873

- ■ 7" Color Digital Touch LCD
- ■ Remote Control of Entrance
- ■ Security and Accident Detection System
- ■ Visitor identification & Communication through front door & Common gate camera(Lobby phone) and door open
- ■ Video Conference between households and Guard (ALL IP product : KHN-873)
- ■ Mutual Calling & Communication Between Residents
- ■ Auto Record in Absence Mode
- ■ Telephone Function

Home Network Color Wall-Pad

KHN-773

- ■ 7" Color Digital Touch LCD
- ■ Remote Control of Entrance
- ■ Security and Accident Detection System
- ■ Visitor identification & Communication through front door & Common gate camera(Lobby phone) and door open
- ■ Video Conference between households and Guard (ALL IP)
- ■ Mutual Calling & Communication Between Residents
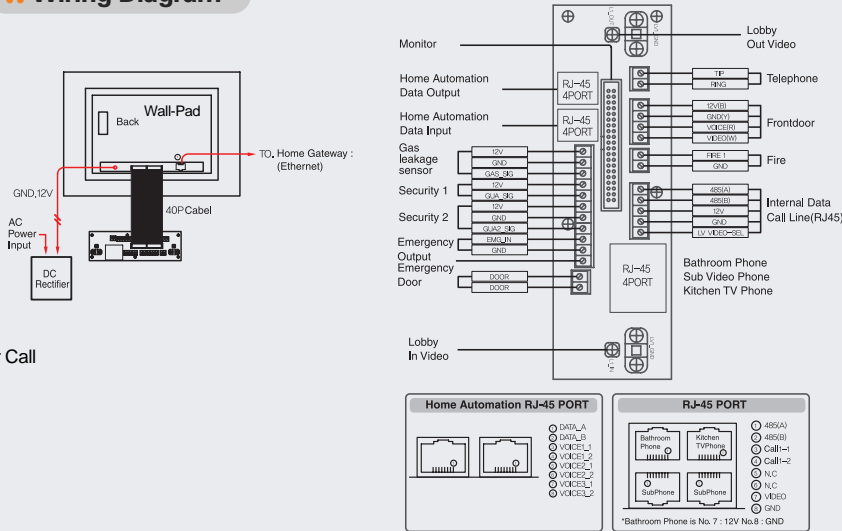- ■ Auto Record in Absence Mode
- ■ Telephone Function

:: Specifications

- • Power : AC 100V~240V 50/60Hz
- • LCD : 7" Color Digital Touch LCD (LED Type)
- • Mount Type : Flush Mount
- • OS : Embedded Windows CE
- • System Type : GUI based on Touch-Screen
- • Communication System : RS-485,TCP/IP
- • Dimension (mm) : 298(W)×208(H)×18.5(D)
- • Back Dimension (mm) : 225(W)×155(H)×53(D)
- • Flush Box (mm) : 320(W)×240(H)×105(D)

✪ Option

- • Wireless Telephone (option) - House / Lobby / Guard Master Call
- • Bathroom Phone, Sub Video Phone, Kitchen TV Phone
- • Lights (Dimming), Gas Valve, Heater (ARS) etc.
- • Auto Information Function

:: Wiring Diagram

:: Specifications

- • Power : AC 100V~240V 50/60Hz
- • LCD : 7" Color Digital Touch LCD (LED Type)
- • Mount Type : Flush Mount
- • OS : Embedded Windows CE
- • System Type : GUI based on Touch-Screen
- • Communication System : RS-485,TCP/IP
- • Dimension : 289(W)×184(H)×18.5(D)
- • Back Dimension (mm) : 220(W)×145(H)×53(D)
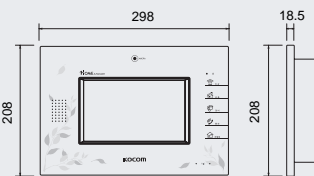- • Flush Box (mm) : 320(W)×240(H)×105(D)

✪ Option

- • Wireless Telephone (option) - House / Lobby / Guard Master Call
- • Bathroom Phone, Sub Video Phone, Kitchen TV Phone
- • Lights (Dimming), Gas Valve, Heater (ARS) etc.
- • Auto Information Function

:: Wiring Diagram

:: Dimension

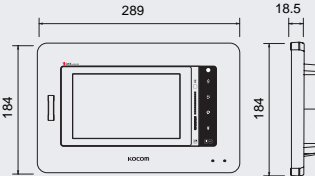298
18.5
208
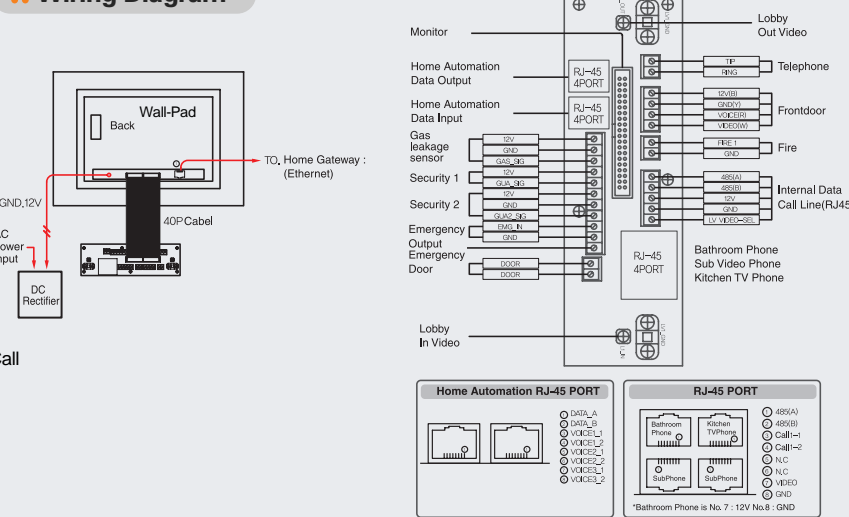
:: Door Camera

KC-C71

:: Option

KHN-871/ 873 (Black B Type)
KHN-871/ 873 (White B Type)

:: Dimension

289
18.5
184

:: Door Camera

KC-C71

Home Network System/Gateway

Smart Gateway

KHG-108 / 112
KHG-116

■ Home Control function : Lights, Heater, Gas, Curtain and Electrical Appliance
■ SMS transmission for mobile phone control
■ Network function : Switching Hub (10/100Mbps) up to 16 ports
■ IPTV / Wired AP / IP Camera connection
■ Management : Remote upgrade & Control, home device setting, managing & working status LED

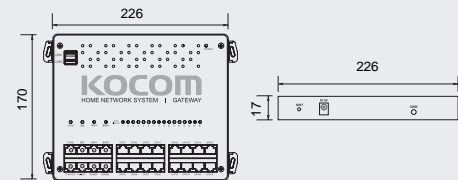KHG-112   KHG-116

:: Specifications

Interface

(1) Ethernet
    A. House Section Port wire-speed function
    B. External & House section Port down-link Function
    C. External & House section Port up-link Function
(2) IP Multicasting : IGMP, IGMP Snooping
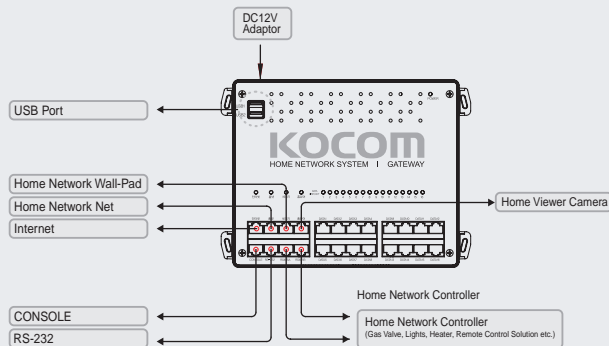(3) Aging : Test Traffic / Duration, Frame Size, LAN Interface

Network

(1) DHCP : DHCP Client, DHCP Server, DHCP Relay
(2) NAT : Network Address Modification
(3) SNMP/MIB2 : Telemanagement Control Status & Modification
(4) Qos : 802.1p, Tos (IP precedence or dscp)
(5) Packet Scheduling : SPQ, WRR/WFQ

Service

(1) Control : Light Control, Temperature Control, Valve Control
(2) Emergency Alarm : Alarm, SMS Transmission

O/S & Maintenance Service

(1) Upgrade : OS, Software (Remote Control, Manually)
(2) Maintenance Service : Revert, Setting, Status Check

System

(1) WAN Interface OverFlow : Maximum Traffic
(2) Environmental Condition : Assurance temperature, Relative Humidity Power (Stand by : 4W / Max : 10W), Individual Power system

:: Dimension

:: Wiring Diagram

Home Network System/Lobbyphone & Guard Master

:: Specifications

• Power : DC 12V ± 1V
  (Stand by : 4W / Max : 10W-Public Power)
• Connection : Max. 99
• Lobbyphone Data Type : TCP / IP Type
• Communication : Handsfree Type (VoIP)
• Assurance temperature : -20℃ ~ 50℃
• Dimension(mm) : 235(W)×295(H)×21(D)
• Box (mm) : 240(W)×320(H)×100(D)
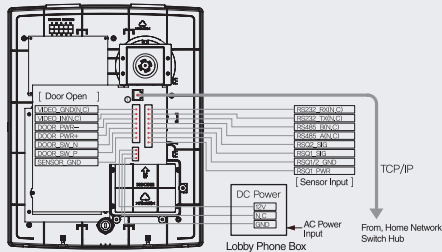
:: Wiring Diagram

All IP Type Lobby Phone

KLP-300R2

■ TCP / IP Lobby phone
■ 2.3˝ Graphic LCD
■ Call / Communication with resident & Guard
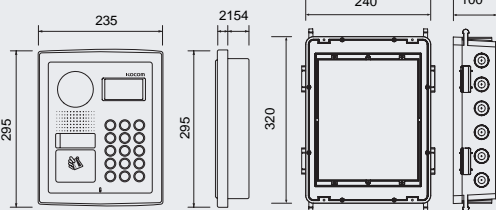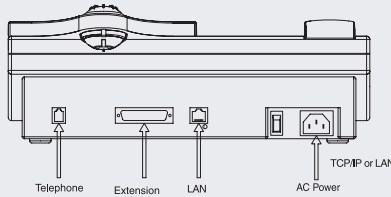■ Door open function by Accese code or RF Card (Option)

:: Dimension

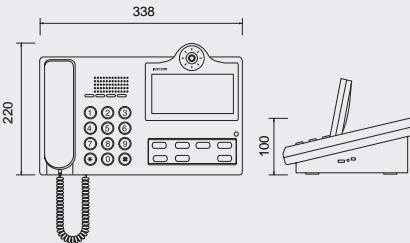## :: Specifications

• Power : AC 100V~240V 50 / 60Hz
  (Stand by : 8.2W, Max : 19W)
• Wiring : UTP CAT.5E
• Assurance temperature : 0℃ ~ 50℃
• Dimension(mm) : 338(W)×220(H)×100(D)

Guard Master

KAM-300

■ 7˝ LCD Digital Touch Display
■ Video conference between household and Lobbbyphone
■ Gate open in communication with visitor
■ Absence Function (Setting)
■ Telephone (PSTN) Function

:: Wiring Diagram

:: Dimension

Home Network System
Home Automation System
Video Phone
Door Camera/Doorlock
Sub Device
Interphone & Door Phone
Ventilation System

Home Automation System

Home Automation System

Premium Home Automation System leading stability, convenience and refreshment

KOCOM's Home Automation System consists of a terminal (a wallpad), a lobby phone, a kitchen video phone, a sub-video phone, a bathroom phone and etc., and KOCOM has developed, manufactured and supplied home and abroad with various Home Automation Devices.

KOCOM Home Automation has gradually advanced from a hardware-based security panel and repeated high qualification and intellectualization as a Home Security System by connecting with imaging (video) solutions, various sensors (fire, gas and security), etc.

KHV-478 / KCV-358
7" KHV-478 / 5" KCV-358 Color Home Automation

KCV-C374
7" Color Home Automation

KCV-J351
3.5" Color Home Automation

HOME ❄ AUTOMATION

Home Automation System

System Diagram

Wiring
- 2Wire
- 3Wire
- 4Wire
- 8Wire
- Lobby (Video)

KHV-478 / KHV-458 / KCV-358

- 8Wire — Sub Videophone
- 8Wire — Telephone Line
- Bathroom Phone
- 2Wire
- 4Wire
- 2Wire
- 3Wire
- 2Wire — Fire Sensor / Gas leakage Sensor / Motion Sensor / Burglar Sensor — Option
- 8Wire — Lobby (Video)
- 4Wire
- 8Wire — Kitchen TV Videophone
- Automatic Common Gate / Lobby Phone (KLP-305)
- Doorlock / KC-C71
- 2Wire / 2Wire
- Front Door Open AC/DC
- Emergency Call
- Guard Master
- 8Wire — Guard Master (KAM-305)

5" & 7" Color Home Automation

KHV-478 / KHV-458
KCV-358

KHV-478/KHV-458/KCV-358

- 7" Color LCD(KHV-478) 5" Color LCD(KHV-458 / KCV-358)
- Door Open & Monitoring Function
- Call & Communication with Guard Master(KAM-305)
- Telephon Function
- Common Gate Camera Open & Monitoring Function
- DSP Handsfree Type
- Mutual Calling & Communication Between Residents
- Security : Gas leakage sensor(KHV-478, KCV-458), Security 1(Burglar sensor)
  Security 2 (Motion Sensor), Emergency Button(KHV-478, KCV-458)

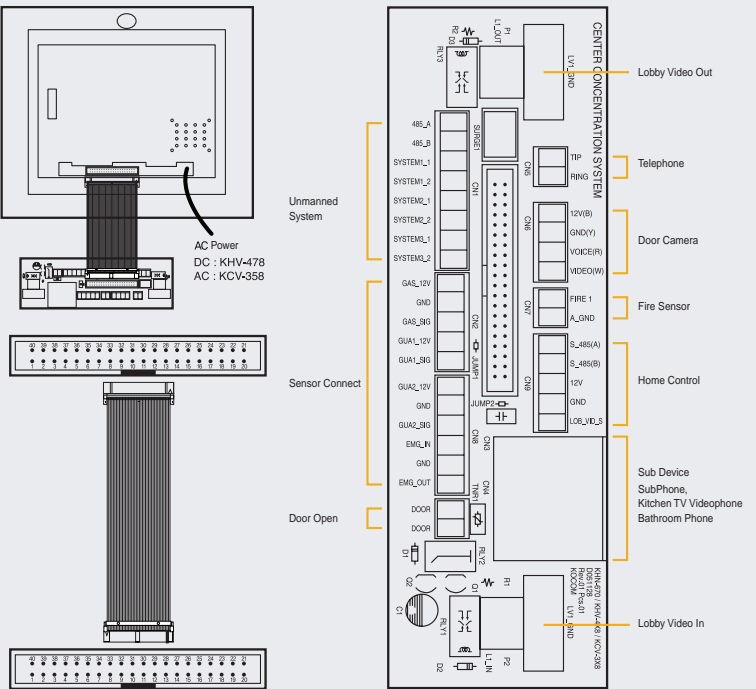⊛ Option • Kitchen TV Videophone, Sub Videophone, Bathroom Videophone
• Images Memory (32cut)
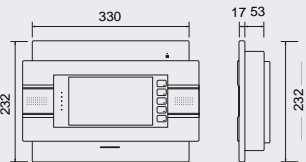
Awarded Korean
Industrial Design Prize
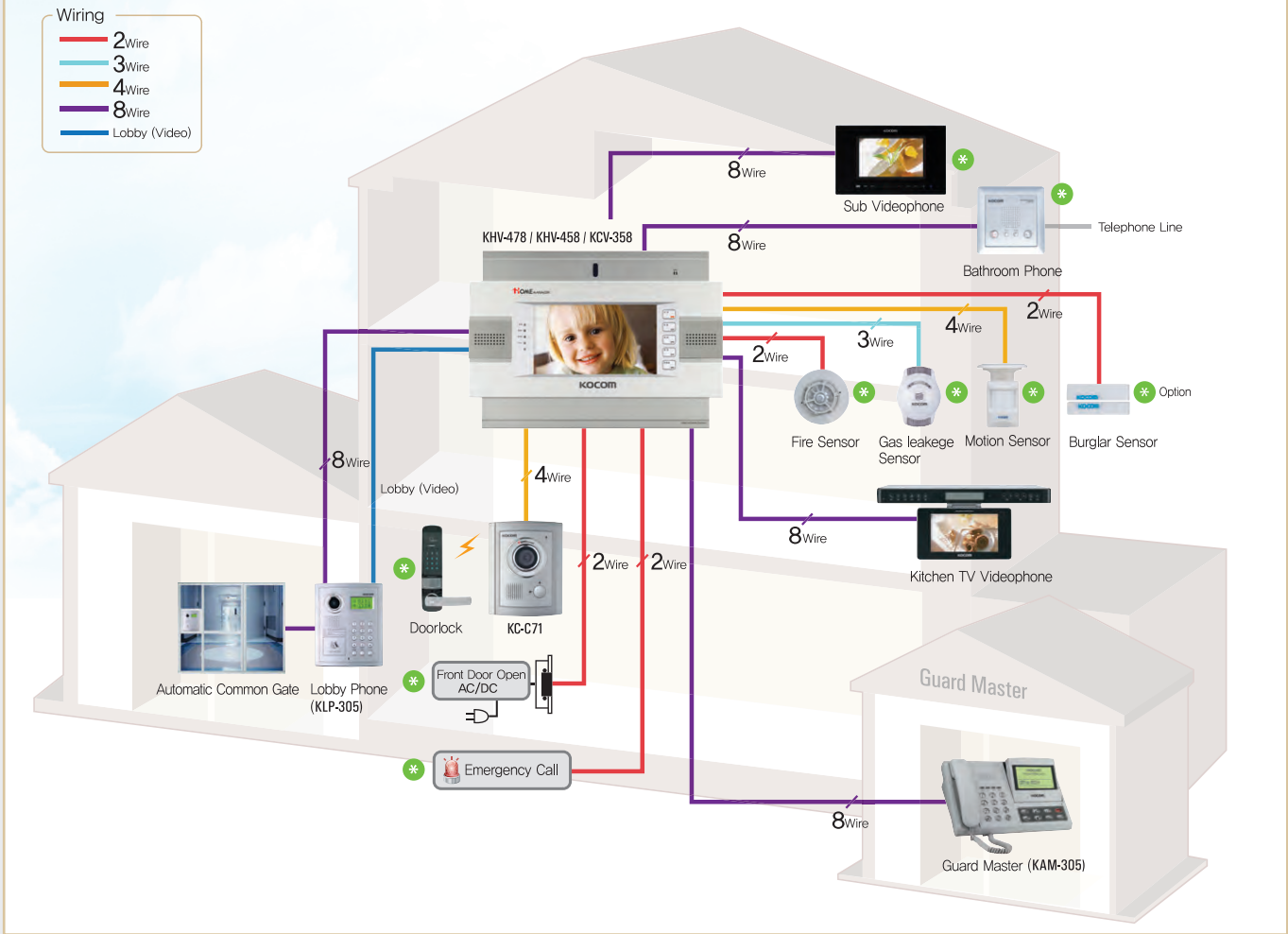
Specifications

- Power : AC 100V~240V 50 / 60Hz
- Monitor : 7″ Color LCD (KHV-478)
  5″ Color LCD (KHN-458 / KCV-358)
- Telephone Type : Electronic type
- Communication : Handsfree type
- SYSTEM : Telephone - 1Circuit / Door Camera - 1Circuit
  Door Open- 1Circuit / Emergency Button - 1Circuit
  Sensor - 4Circuit
- Telephone(2Wire) / Door Camera(4Wire)
  Guard Office(10Wire / 8Wire)
  Fire Sensor(2Wire) / Gas leakage sensor(3Wire)
  Burglar sensor (Door Open Sensor-2Wire)
  Motion Sensor (3Wire) / Emergency Button(2Wire)
- Mount Type : Flush mount
- Dimension (mm) : 330(W)×232(H)×17(D)
- Back Dimension(mm) : 225(W)×180(H)×53(D)
- Box (mm) : 320(W)×240(H)×105(D)

Dimension

330   17 53

232

232

Door Camera

KC-C71

Wiring Diagram

AC Power
DC : KHV-478
AC : KCV-358

CENTER CONCENTRATION SYSTEM

- Lobby Video Out
- Telephone
- Door Camera
- Fire Sensor
- Home Control
- Sub Device
  SubPhone,
  Kitchen TV Videophone
  Bathroom Phone
- Door Open
- Lobby Video In

Unmanned System
Sensor Connect
Door Open

27

Ubiquitous Leader - KOCOM |

Home Network System
Home Automation System
Video Phone
Door Camera / Doorlock
Sub Device
Interphone & Door Phone
Ventilation System

⠿ Home Automation System

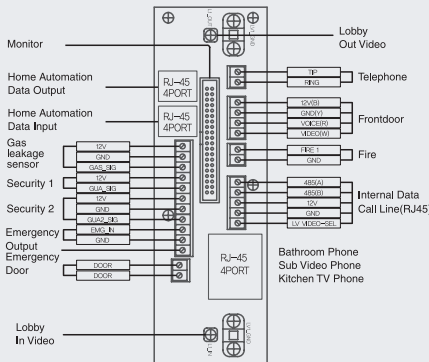## 7" Color Home Automation

KHN-970

- ■ 7" Color Digital Touch LCD
- ■ Remote Control of Entrance
- ■ Security and Accident Detection System
- ■ Visitor identification & Communication through front door
   & Common gate camera(Lobby phone) and door open
- ■ Mutual Calling & Communication Between Residents
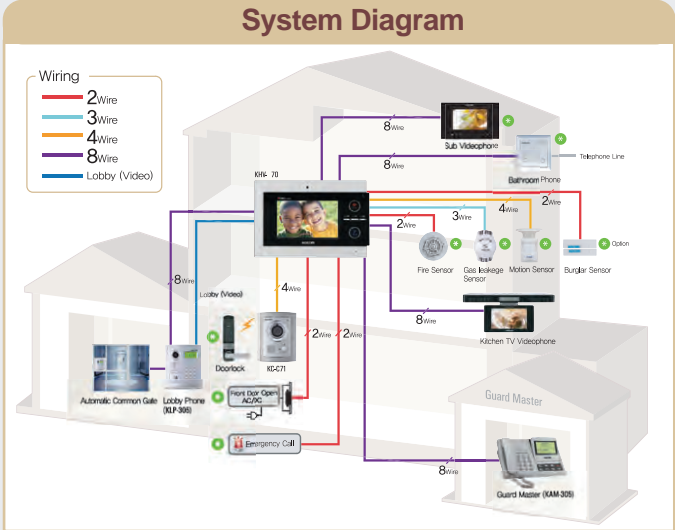- ■ Auto Record in Absence Mode
- ■ Telephone Function

10.2" Color Home Automation

KHN-880

- ■ 10.2" Color Digital Touch LCD
- ■ Remote Control of Entrance
- ■ Security and Accident Detection System
- ■ Visitor identification & Communication through front door
   & Common gate camera(Lobby phone) and door open
- ■ Mutual Calling & Communication Between Residents
- ■ Auto Record in Absence Mode
- ■ Telephone Function

⠿ Specifications

- Power : AC 100V~240V 50 / 60Hz
- Monitor : 7" Color Digital Touch LCD (LED Type)
- OS: Embedded Windows CE
- System Type : GUI based on Touch-Screen
- Communication System : RS-485
- Mount type : Flush mount
- Dimension (mm): 292.5(W)×196(H)×17(D)
- Back Dimension (mm): 225(W)×155(H)×53(D)
- Flush Box (mm) : 320(W)×240(H)×105(D)

⠿ Wiring Diagram
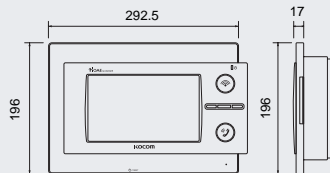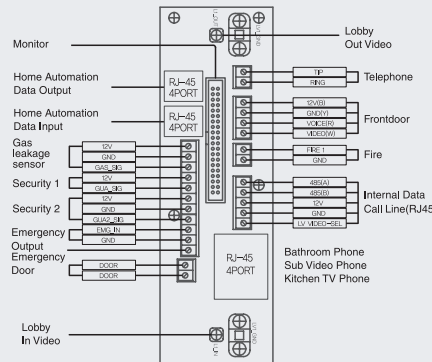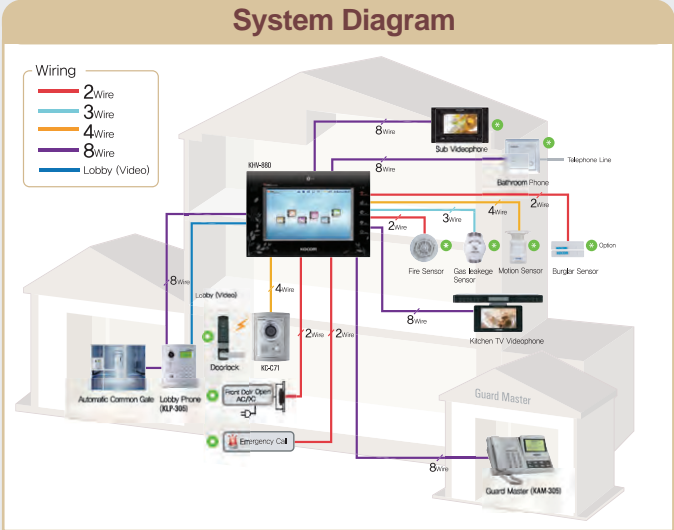

⠿ Dimension

⠿ Door Camera

KC-C71

⠿ Specifications

- Power : AC 100V~240V 50 / 60Hz
- Monitor : 10.2" Color Digital Touch LCD (LED Type)
- OS: Embedded Windows CE
- System Type : GUI based on Touch-Screen
- Communication System : RS-485
- Mount type : Flush mount
- Dimension : 337.5(W)×235.5(H)×18.5(D)
- Back Dimension (mm): 225(W)×175(H)×53(D)
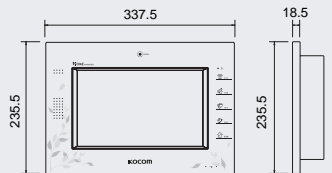- Flush Box (mm) : 320(W)×240(H)×105(D)

⠿ Wiring Diagram

⠿ Dimension

⠿ Door Camera

KC-C71

⠿ Option

Black Type White Type

System Diagram

System Diagram

:: Home Automation System

7"Color Home Automation

KHN-870

- ■ 7" Color Digital Touch LCD
- ■ Remote Control of Entrance
- ■ Security and Accident Detection System
- ■ Visitor identification & Communication through front door & Common gate camera(Lobby phone) and door open
- ■ Mutual Calling & Communication Between Residents
- ■ Auto Record in Absence Mode
- ■ Telephone Function
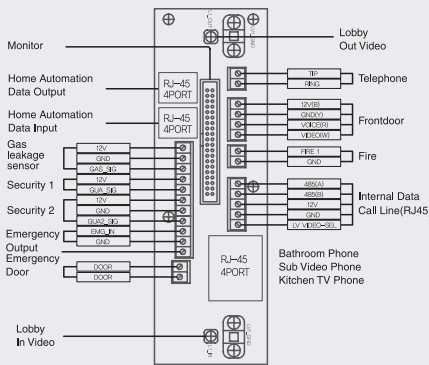
7"Color Home Automation

KCV-C374

- ■ 7" Color Digital LCD
- ■ LCD OSD Menu Display
- ■ Remote Control of Entrance
- ■ Visitor identification & Communication through front door & Common gate camera(Lobby phone) and door open
- ■ Simple & Compact Home Automation Wall-pad
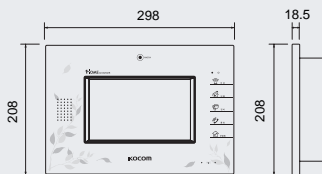- ■ Ultra Low Power Consumption.

:: Specifications

- • Power : AC 100V~240V 50 / 60Hz
- • Monitor : 7"Color Digital Touch LCD (LED Type)
- • OS : Embedded Windows CE
- • System Type : GUI based on Touch-Screen
- • Communication System : RS-485
- • Mount type : Flush mount
- • Dimension (mm) : 298(W)×208(H)×18.5(D)
- • Back Dimension (mm) : 225(W)×155(H)×53(D)
- • Flush Box (mm) : 320(W)×240(H)×105(D)
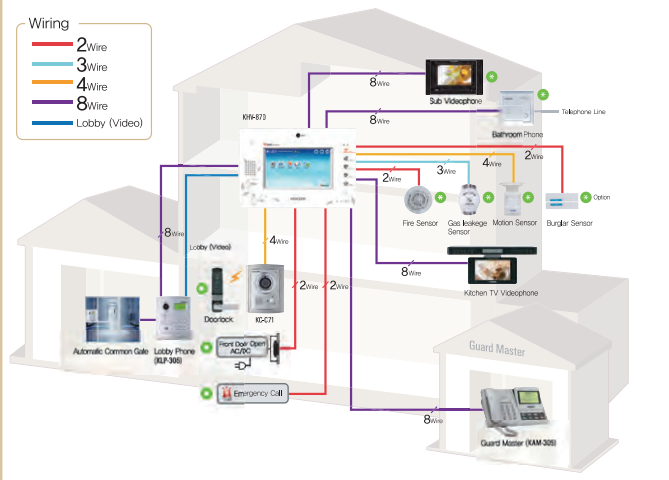
:: Wiring Diagram

:: System Diagram

Wiring
- 2 Wire
- 3 Wire
- 4 Wire
- 8 Wire
- Lobby (Video)

:: Dimension

298   18.5

208   208

:: Door Camera

KC-C71

:: Option

Black Type   White Type

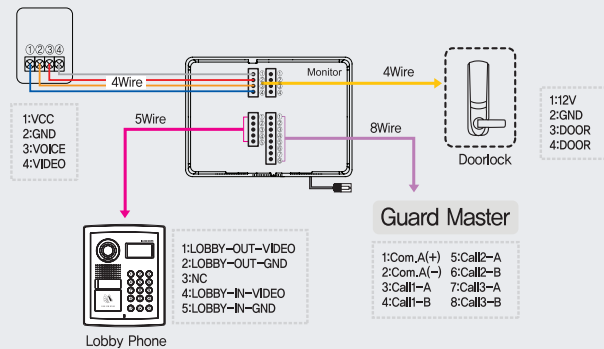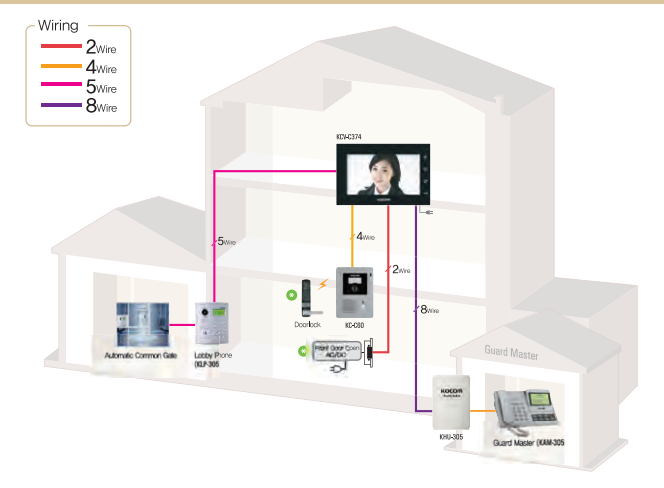### :: Specifications

- • Power : AC 100V~240V 50 / 60Hz
- • Power Consumption : Stand by 0.8W, Max 13W
- • Monitor : 7" Color Digital LCD (OSD Menu)
- • Communication System : RS-485
- • Mount type : Surface mount
- • Dimension (mm) : 222(W) x 142(H) x 26.5(D)
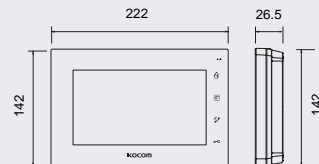- • Camera connection : KC-C60, KC-C71

:: Wiring Diagram

1:VCC
2:GND
3:VOICE
4:VIDEO

Monitor   4Wire

1:12V
2:GND
3:DOOR
4:DOOR

Doorlock

Guard Master

Lobby Phone

1:LOBBY-OUT-VIDEO
2:LOBBY-OUT-GND
3:NC
4:LOBBY-IN-VIDEO
5:LOBBY-IN-GND

1:Com,A(+)   5:Call2-A
2:Com,A(-)   6:Call2-B
3:Call1-A   7:Call3-A
4:Call1-B   8:Call3-B

:: System Diagram

Wiring
- 2 Wire
- 4 Wire
- 5 Wire
- 8 Wire

:: Dimension

222   26.5

142   142

:: Door Camera

KC-C60   KC-C71

:: Home Automation System

3.5" Color
Home Automation
KCV-J351

- 3.5" Color Digital LCD (OSD Menu)
- LCD OSD Menu Display
- Remote Control of Entrance
- Visitor identification & Communication through front door & Common gate camera(Lobby phone) and door open
- Mutual Calling & Communication Between Residents
- Auto Record in Absence Mode
- Simple & Compact Home Automation Wall-pad
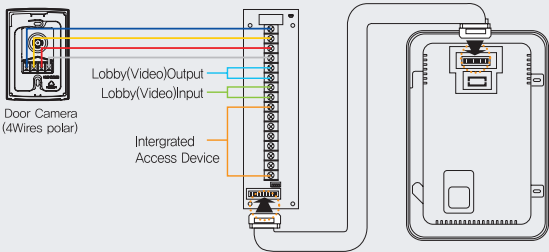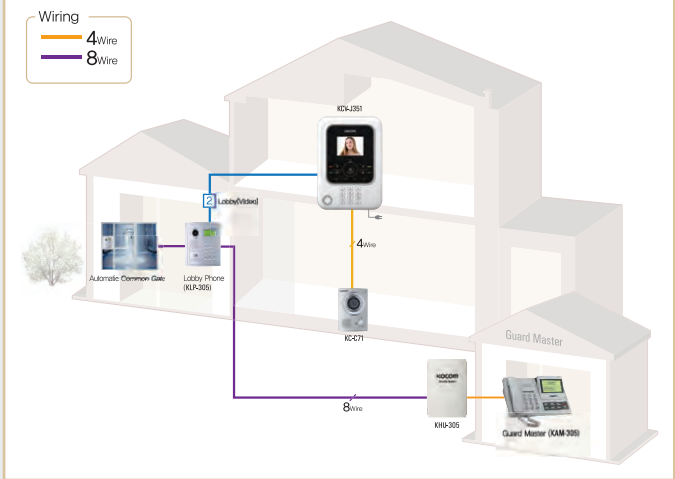- Ultra Low Power Consumption

Home Automation
Interphone
KIP-300BA

- Guard master Calling
- Communication Between Residents
- Remote Control of Entrance
- Volume Control (Level 3.)
- Intercom Function
- Call & Door open(Option)

:: Specifications

- Power : AC 100V~240V 50 / 60Hz
- Power Consumption : Stand by 3.5W, Max 13W
- Monitor : 3.5" Color Digital LCD (OSD Menu)
- Communication System : RS-485
- Mount type : Flush mount
- Dimension (mm) : 177(W) x 254(H) x 20(D)
- Back Dimension (mm) : 120(W) x196(H) x 30(D)
- Flush Box (mm) : 200(W) x 270(H) x 90(D)
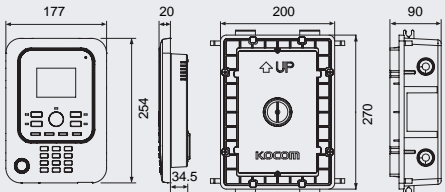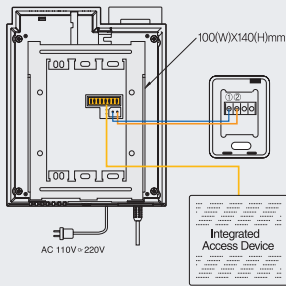- Camera connection : KC-C60, KC-C71
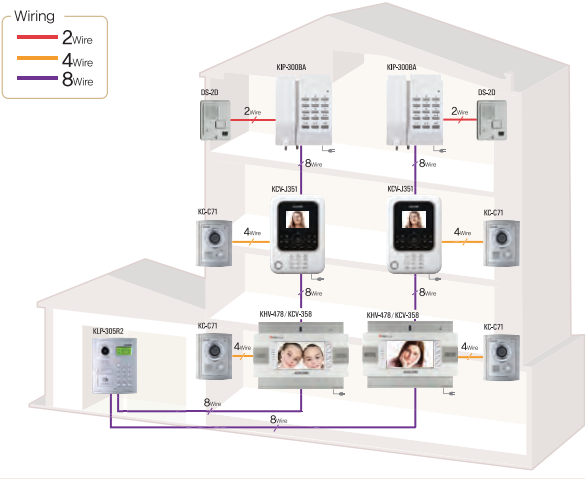
:: Wiring Diagram

System Diagram

:: Specifications

- Power : AC 110V or AC 220V (±10%)
- Power Consumption : Max 3W
- Distance Communication : UTP CAT. 5E
- Ringing Tone : Electroic Tone (3 Variable Volume)
- Mount type : Surface mount
- Communication System : Handset Type
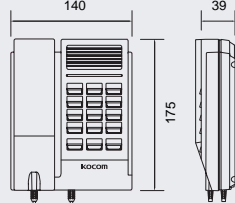- Dimension (mm) : 140(W) x 175(H) x 39(D)

:: Wiring Diagram

System Diagram

:: Dimension

:: Door Camera

KC-C60   KC-C71

:: Dimension

:: Outdoor Pannel

DS-2D

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Home Automation System / Lobbyphone & Guard Master

Home Network System

Home Automation System

Video Phone

Door Camera / Doorlock

Sub Device

Interphone & Door Phone

Ventilation System
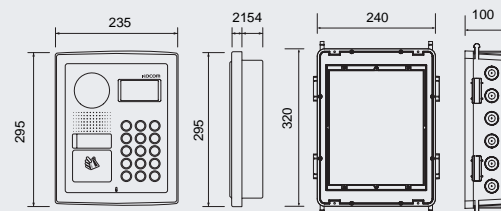
:: Specifications

- Power Source: DC 24V ± 1V
  (Stand by : 4W, Max : 10W-Public Power)
- Connection : Max. 99
- Lobbyphone Data Type : 485 Type
- Communication : Handsfree Type
- Wiring : Home Automation
- Assurance temperature : -20℃ ~ 50℃
- Dimension(mm) : 235(W)×295(H)×21(D)
- Box (mm) : 240(W)×320(H)×100(D)
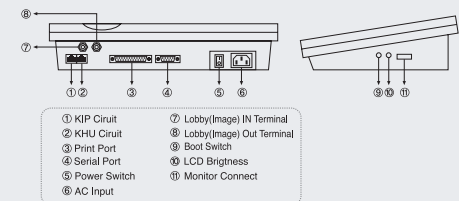
:: Wiring Diagram

:: Dimension

Lobby Phone
KLP-305

- Lobby phone
- 2.3" Graphic LCD
- Call / Communication with resident & Guard
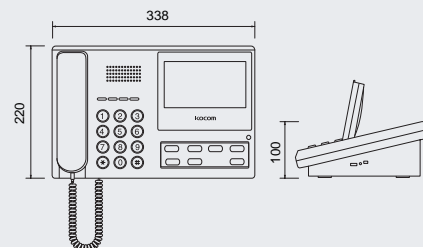- Door open function by Accese code or RF Card (Option)

:: Specifications

- Power : AC 100V~240V 50 / 60Hz
  (Stand by 8.2 W, Max 19 W)
- Wiring : UTP CAT.5E
- Assurance temperature : 0℃ ~ 50℃
- Dimension(mm) : 338(W)×220(H)×100(D)

:: Wiring Diagram

① KIP Ciruit
② KHU Ciruit
③ Print Port
④ Serial Port
⑤ Power Switch
⑥ AC Input
⑦ Lobby(Image) IN Terminal
⑧ Lobby(Image) Out Terminal
⑨ Boot Switch
⑩ LCD Brigtness
⑪ Monitor Connect

:: Dimension

Admin/Guard Master
KAM-305

- Communication between caller
- Common gate (Lobby phone) Communication & Door open
- Guard Mode (Absent mode) / Call Forwarding mode
- Guard master to house call & commutation
- Call Status display
- Emergency status & display

Mutual Interphone
KIP-305

- Communication between Mutual Interphone
- Operation : Telephone type (10key button)

Integrated Access Device
KHU-305

- Access & Communication Main Device between Each apartment, Guard Master and Integrated Access Device
- Upto 960 apartments and 80 Lobby Phones (Entry Access Panel) Connection

Sensor Repeater
KSR-008

- Communication with Home Automation and Home Network Wall-pad for security sensor

:: Specifications

- Power : DC 17V ± 2V (Public Power)
  Power (+/ GND) 1.2 ø Less than 300M
- Power consumption : Stand by : 1W, Max : 2.5 W
- Internal Power Mode : DC 12.8V ± 1V
- Communication Method : Balance Circuit
- Communication System : Duplex Handset type
- Melody : Tone Sound -Interphone, Doorphone, Lobby Phone
- Wiring : 5Wire polarity (VCC / GND / Call 1 / Call 2 / Data)
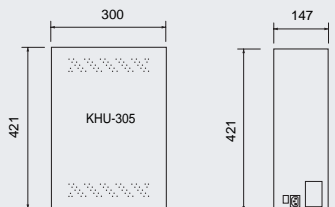- Dimension (mm) : 165(W)x220(H)x80(D)
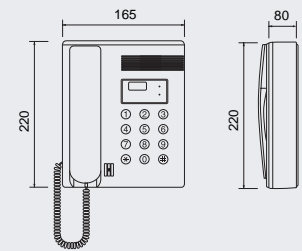
:: Dimension

:: Specifications

- Power : AC 100V~240V 50 / 60Hz
- OS : Embeded Linux
- Communication System : RS-485 / Balance
- Max. Connection : upto 1,000 Wall-pad
  upto 60 Guard Master units
  upto 99 lobby units
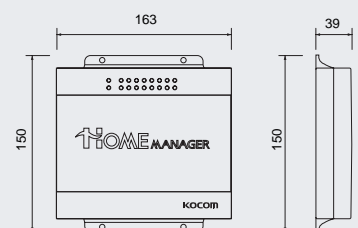- Dimension (mm) : 300(W)×421(H)×147(D)

:: Dimension

:: Specifications

- Power : DC 12V
- Sensor Input : 8-Port
- Group setting : 1, 2, 4 & 8 group
- Communication : RS-485
- Extension : Upto 8 unit
- Max. Sensor Connection : upto 64 units

:: Dimension

Videophone System

Videophone System

High quality Life Style increasing the composure of a life! KOCOM Videophone makes it better.

KOCOM videophone with high quality and stylish design has offered various product groups in accordance with each use for an apartment complex, a multiplex house, a villa, a single-family house and etc., and a customer may install and operate it easily and conveniently.

KCV-352
2 Wire 3.5" Color Handsfree Videophone

KCV-802R
7" Color Handsfree Videophone

KVM-301
4" B/W Handset Videophone

KCV-D372
2 Wire 7" Color Handsfree Videophone

VIDEO PHONE

Home Network System

Home Automation System

Video Phone

Door Camera / Doorlock

Sub Device

Interphone & Door Phone

Ventilation System

:: Videophone System

7" Color Handset Type

KCV-802R
KCV-D802R

- 7" Color LCD (NTSC / PAL Auto Switching)
- Single House, Multi Apartment Condominium & Villa System(upto 450 units)
- Upto 4 Indoor Units Including Audio Sub Phones with 2 Door Cameras & Common Gate Cameras Connection
- Internal Call & Communication between Extended Indoor Units
- Door Open & Monitoring Function(Door Camera & Common Gate Camera)
- Telephone Function(PABX)
- Call & Conversation with Guard Master Phone (KIP-120)
- 18 Melody Selection (24 Poly Melody)
- Extra Speical Function key Button
- Built-in 128 Cut Images Memory &OSD (On Screen Disply) Menu Control
- KCV-802: AC Type, KCV-802R : DC type

5" Color Multi-entry Type

KIV-212
KIV-D212

- 5" TFT LCD Color Handsfree Videophone
- Single House & Multi Apartment, Condominium & Villa System (upto 450 Houses) are Available
- Up to 5 Indoor Units (4 Monitor & 1 Audio Handset, KIP-603) and 2 Front Door Cameras Connection
- Internal Call & Communication Function between Extended Indoor Units in a House
- Audio + Video Communication with Visitor
- Door Open (Front Door & Common Gate) Function
- Call & Communication Function with Guard Master (KIP-120)
- Monitoring Function from Front Door Camera & Common Gate Camera (KLP-C100)
- KIV-212 : AC Type, KIV-D212 : DC type

:: Specifications

- Power : AC100V~240V 50 / 60Hz (KCV-802R), DC 17V ±2V (KCV-D802R)
- Power consumption : Stand by 2W, Max. 12W
- Monitor : 7" Color TFT LCD (NTSC / PAL Auto Switching)
- Video Memory : 128 cut images memory
- Communcation system : Duplex handset type
- Wiring : 4 wire (Camera), 5 wire (Audio phone), 7wire (Video phone)
- Max. wiring distance : Ø0.65 single cable : 100m, 5C-2V coaxial cable : 150m
- Indoor unit connection : KIP-603 (Audio phone), KCV-802R, KIV-212, KIV-102
- Camera connection : KC-C60, KC-MC30, KC-MC31, KC-MC35, KC-MC24, KLP-C100, KLP-C104, KLP-C108, KLP-C112
- Assurance temperature : 0°C ~ 50°C
- Mount type : Surface mount
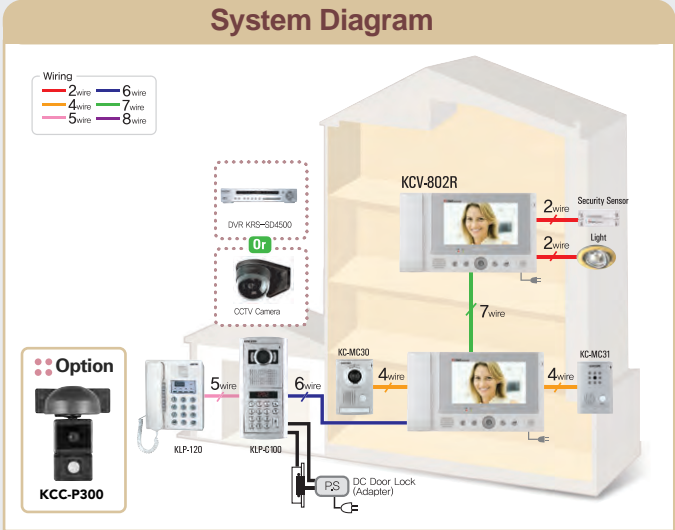- Dimension (mm) : 295(W)X170(H)X48(D)

:: Wiring Diagram

:: System Diagram

:: Dimension

295   48   171

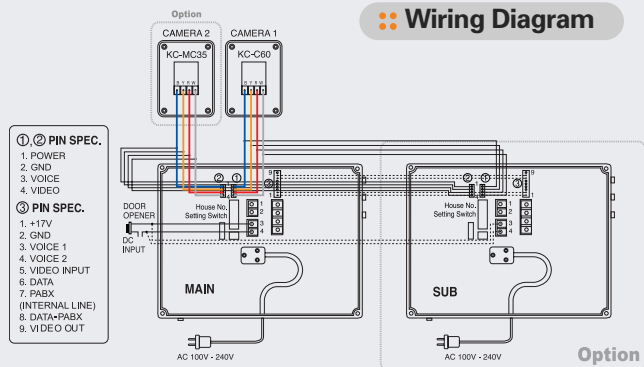## :: Door Camera

KC-C60   KC-MC30   KC-MC31   KC-MC24   KC-MC35
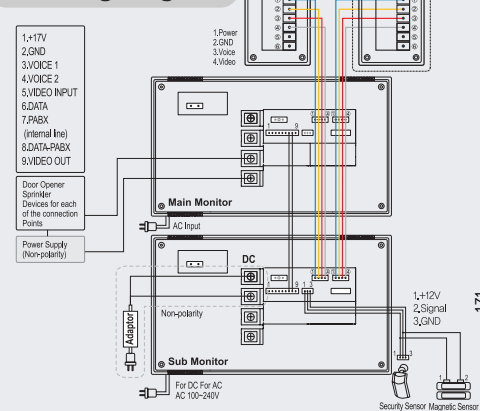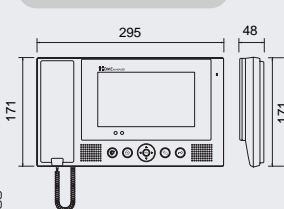
:: Specifications

- Power : AC100V ~ 240V 50 / 60Hz(KIV-212), DC 17V ±2V (KIV-D212)
- Power consumption : Stand by 2W, Max. 19W
- Monitor : 5" Color TFT LCD
- Communication system : Handsfree type
- Wiring : 4wire (front door camera), 6wire (Common gate camera)
- Max. wiring distance : Ø0.65 single cable : 50m, 5C-2V coaxial cable : 100m (Front door camera)
- Mount type : Surface mount
- Assurance temperature : 0°C ~ +50°C
- Dimension (mm) : 237(W) x 199(H) x 39(D)
- Camera connection:
  - Front door camera : KC-C60, KC-MC35 (Metal pinhole), KC-MC20 (Metal pinhole)
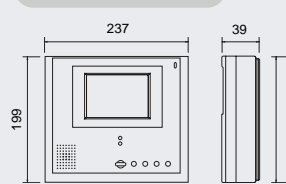 - Common gate camera : KLP-C100, KLP-C104, KLP-C108, KLP-C112

:: System Diagram

:: Wiring Diagram

:: Dimension

237   39   199

:: Door Camera

KC-C60   KC-MC35   KC-MC20
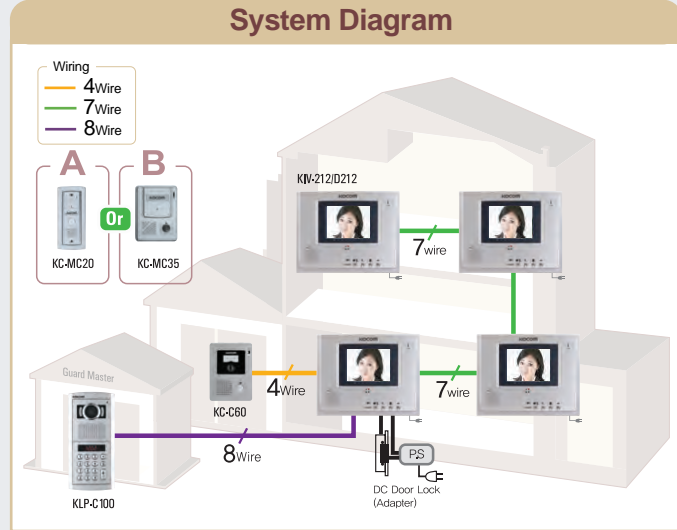
▪▪ Videophone System

4" B/W Multi-entry Type

KIV-102
KIV-D102

■ 4" CRT B/W Handsfree Videophone
■ Single House & multi Apartment, Condominium & Villa System (upto 450 Houses) are Available
■ Up to 5 Indoor units (4 Monitor & 1 Audio Handset, KIP-603) and 2 front Door Cameras Connection
■ Internal Call & Communication Function between Extended Indoor Units in a House
■ Audio + Video Communication with Visitor
■ Door Open (Front Door & Common gate) Function
■ Call & Communication Function with Guard Master (KIP-120)
■ Monitoring Function from Front Door Camera & Common Gate Camera (KLP-100)
■ KIV-102 : AC Type, KIV-D102 : DC type
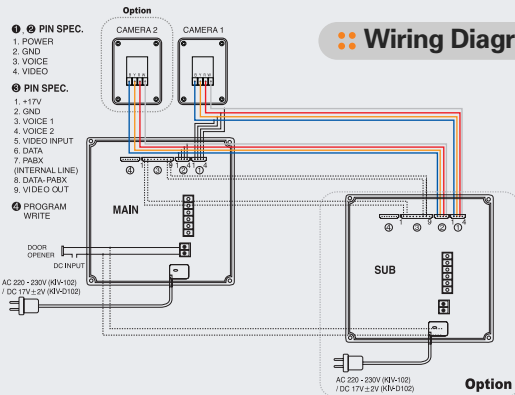
4" B/W Multi-entry Type

KVM-520
KVM-D520

■ 4" CRT B/W Videophone
■ Single House & Multi Apartment, Condominium & Villa System (upto 450 houses) are Available
■ Up to 5 Indoor Units (4 Monitor & 1 Audio Handset, KIP-603) and 1 Front Door Camera Connection
■ Internal Call & Communication Function between Extended Indoor Units in a House
■ Audio + Video Communication with Visitor
■ Door Open (Common gate) Function
■ Call & Communication Function with Guard Master (KIP-120)
■ Upto 4pcs of Common Gate Cameras Connection in a Building
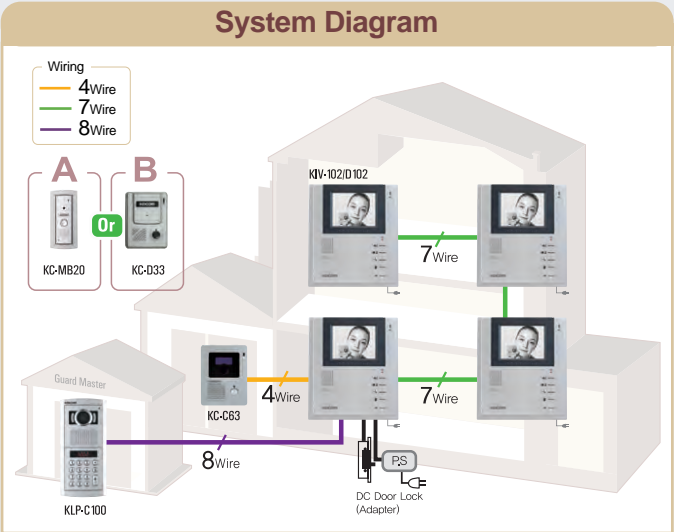■ KVM-520 : AC Type / KVM-D520 : DC Type

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▪▪ Specifications

• Power : AC100V ~ 240V 50 / 60Hz (KIV-102) / DC 17V±2V(KIV-D102)
• Power consumption : Stand by 1W, Max. 24W
• Monitor : 4" CRT Flat Tube
• Communication system : Hands free type
• Wiring : 4wire (front door camera), 6wire (common gate camera)
• Max. wiring distance : Ø0.65 single cable : 50m, 5C-2V
                        coaxial cable : 100m (front door camera)
• Mount type : Surface mount
• Assurance temperature : 0℃ ~ +50℃
• Dimension (mm) : 191(W) x 217(H) x 52(D)
• Camera connection :
  Front door camera-KC-C63, KC-D33 (metal pinhole), KC-MB20 (metal pinhole)
  Common gate camera-KLP-100, KLP-104, KLP-108, KLP-112
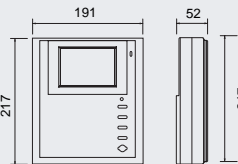   KLP-P100, KLP-P104, KLP-P108, KLP-P112

▪▪ Wiring Diagram

❶ ❷ PIN SPEC.
1. POWER
2. GND
3. VOICE
4. VIDEO
❸ PIN SPEC.
1. +17V
2. GND
3. VOICE 1
4. VOICE 2
5. VIDEO INPUT
6. DATA
7. PABX
(INTERNAL LINE)
8. DATA-PABX
9. VIDEO OUT
❹ PROGRAM WRITE

CAMERA 2   CAMERA 1

MAIN

DOOR OPENER   DC INPUT

AC 220 ~ 230V (KIV-102)
/ DC 17V ± 2V (KIV-D102)

SUB

AC 220 ~ 230V (KIV-102)
/ DC 17V ± 2V (KIV-D102)   Option

▪▪ Dimension

191   52

217   217

▪▪ Door Camera

KC-C63   KC-D33   KC-MB20

System Diagram

Wiring
— 4Wire
— 7Wire
— 8Wire

A   B   Or

KC-MB20   KC-D33

KIV-102/D102

7Wire

4Wire   7Wire

Guard Master

KC-C63
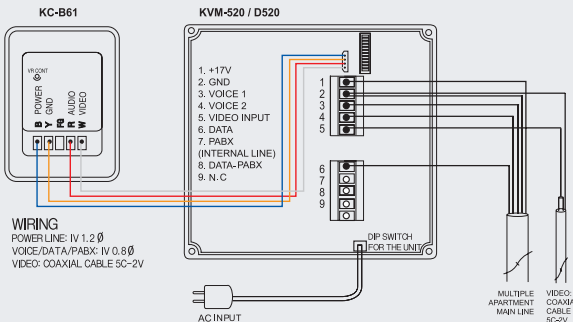
8Wire

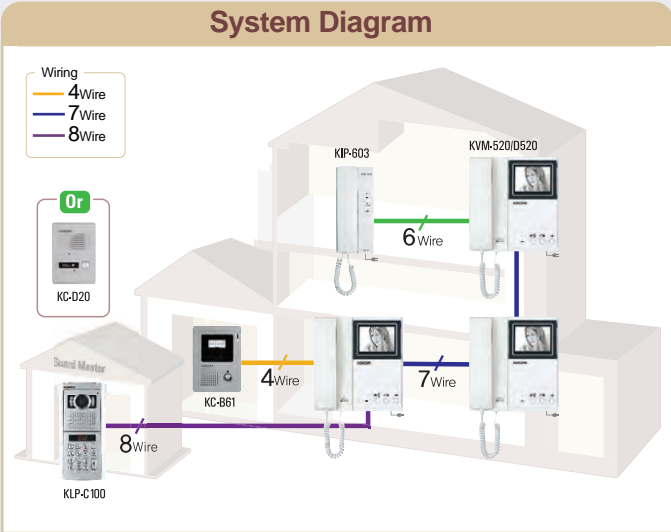KLP-C100

P.S

DC Door Lock
(Adapter)

▪▪ Specifications

• Power : AC100V ~ 240V 50 / 60Hz (KVM-520)
          DC15V ± 2V (KVM-D520)
• Power consumption : Stand by 1W, Max. 20W
• Monitor : 4" CRT flat tube
• Communication system : Duplex handset type
• Wiring : 4wire (Front door camera), 6wire (Common gate camera)
• Max. wiring distance : Ø0.65 single cable : 50m,
                        5C-2V coaxial cable : 100m (front door camera)
• Mount type : Surface mount
• Assurance temperature : 0℃ ~ +50℃
• Dimension (mm) : 210(W) x 222(H) x 57(D)
• Camera connection :
  Front door camera-KC-B61, KC-D20
  Common gate camera-KLP-100, KLP-104, KLP-108, KLP-112
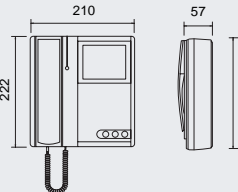   KLP-P100, KLP-P104, KLP-P108, KLP-P112

▪▪ Wiring Diagram

KC-B61

KVM-520 / D520

1. +17V
2. GND
3. VOICE 1
4. VOICE 2
5. VIDEO INPUT
6. DATA
7. PABX
(INTERNAL LINE)
8. DATA-PABX
9. N.C

WIRING
POWER LINE: IV 1.2 Ø
VOICE/DATA/PABX: IV 0.8 Ø
VIDEO: COAXIAL CABLE 5C-2V

AC INPUT

DIP SWITCH
FOR THE UNIT

MULTIPLE
APARTMENT
MAIN LINE

VIDEO
COAXIAL
CABLE
5C-2V

System Diagram

Wiring
— 4Wire
— 7Wire
— 8Wire

KIP-603   KVM-520/D520

Or

KC-D20

6Wire

Guard Master

4Wire   KC-B61   7Wire

8Wire

KLP-C100

▪▪ Dimension

210   57

222   222

▪▪ Door Camera

KC-B61   KC-D20

Videophone System / Lobbyphone

KLP-C100/100

KLP-P100

Color Lobby Phone

KLP-C100 KLP-C104/ KLP-C108/ KLP-C112

B/W Lobby Phone

KLP-100 KLP-104/ KLP-108/ KLP-112

Normal Lens Type

KLP-C100 / KLP-100   KLP-C104 / KLP-104   KLP-C108 / KLP-108   KLP-C112 / KLP-112

Pinhole Lens Type

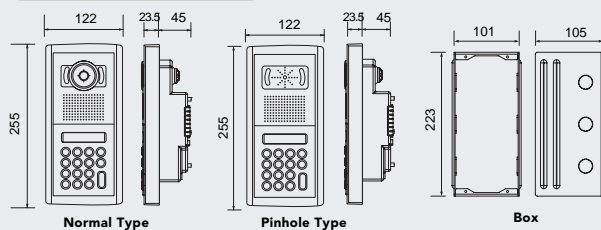KLP-P100   KLP-P104   KLP-P108   KLP-P112

:: Function

- Upto 4 House (-104 type) / Upto 8 Houses (-108 type)
  Upto 12 Houses (-112 type)
- Upto 450 Houses Connection (10 Key Button Type)
- Communication with Guard Master (10 key Button Type)
- Door Open Function by Access Code (10 key button type)
  or by RF cards (option)
- Angle Adjustment (Up & Down, Right & Left)
- Firm Metal Body Case with New Modern Design
- Upto 9pcs of Common Gate Cameras Connection in a Building
- Normal & Pinhole Lens Camera (KLP-P Series) Selection

:: Specifications

- Power : DC 17V±2V
- Power consumption : Max. 9W, DC 12.8V±1V
- Mim. illumination : 1 lux on the object (IR LED ON)
- Mount type : Flush mount
- Assurance temperature : -20℃ ~ +50℃
- Dimension (mm) : 122(W) x 255(H) x 33.5(D)
  Box(mm) : 101(W) x 223(H) x 105(D)
- Monitor connection :
  Color camera-KIV-212, KIV-D212, KCV-802R, KCV-D802R
  B/W camera-KIV-102, KIV-D102, KVM-520, KVM-D520

:: Dimension

Normal Type   Pinhole Type   Box

:: Accessory

Sunvisor **SV50**   Name Index **KLP-N150**   Power Supply **DC-17V**   Relay for 4 houses **KVS-104P**

System Diagram

[Multi-entry Type Configuration]

Wiring
4 Wire
5 Wire
6 Wire

Option

6 Wire

Up to **450** House

Option

7 Wire

Option

6 Wire

2nd House

KLP-C100

KCV-802R

6 Wire

6 Wire

4 Wire   6 Wire   **1st** House

KC-MC30

DC-17V   P.S   DC Door Lock (Adapter)
Up to 9 pcs lobbyphone

5 Wire

Guard Master

KIP-120 Guard Master

Or   4 Wire

KC-C63   KIV-102

Or   4 Wire

KC-MC35   KIV-212

Or   4 Wire

KC-D20   KVM-520
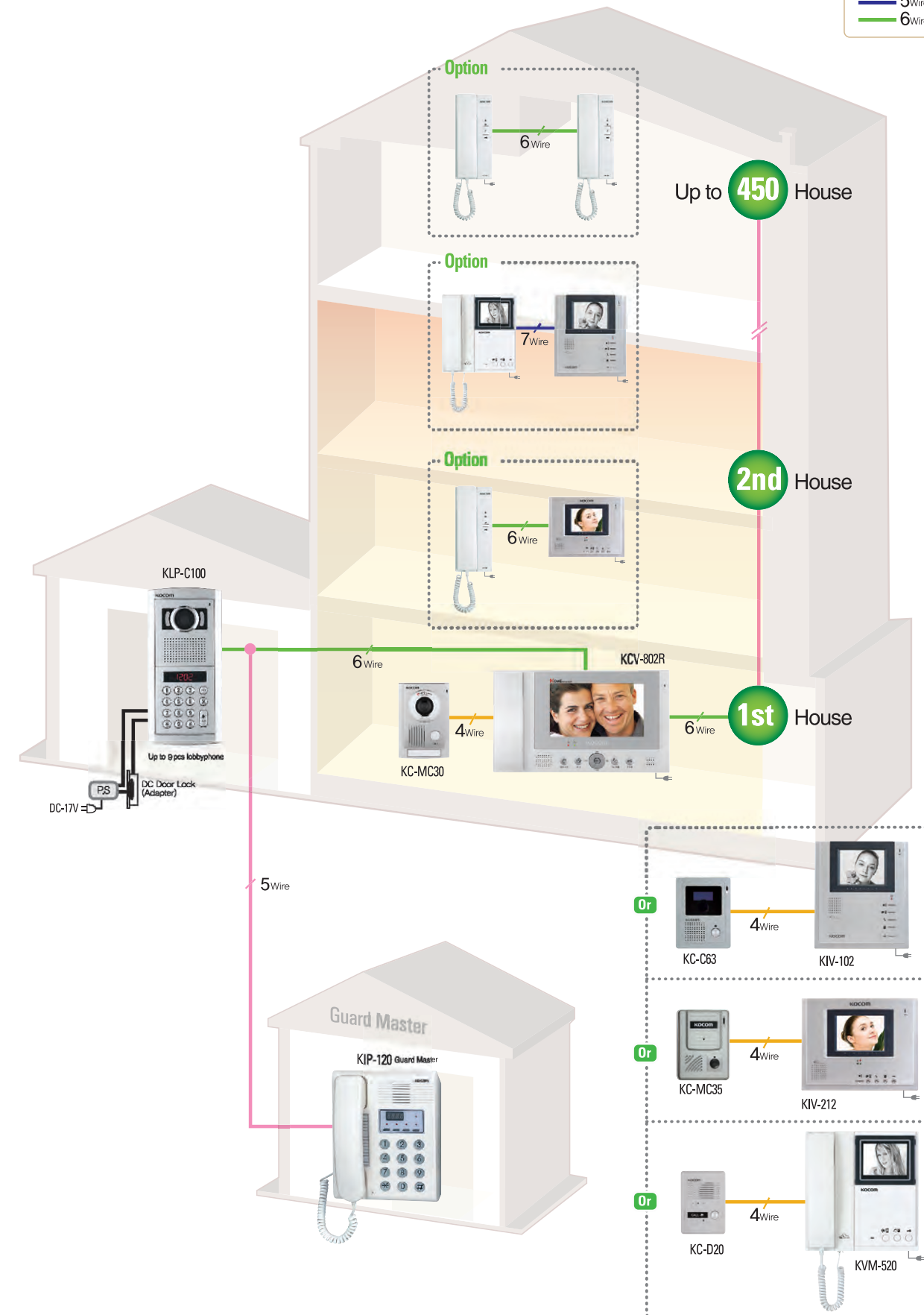
:: Videophone System

New

4 Wire 7" SD Card Handfree Type

KCV-A374SD

- 7" Color Digital LCD (NTSC / PAL Auto switching)
- Slim, Compact & Luxury Design
- Easy to operate using OSD menu & Touch key
- Digital Photo Album
- Digital Video Recorder - Motion Detection
  - Memory Size : up to 32Gb(SD Card interface)
  - Video Format : Moving picture (H.264), Still cut : JPEG
- Multiple language support- English, Spanish, French and Russian
- Connection up to 2 Door cameras or CCTV cameras with 2 monitors and 2 sub audio phone(KDP-602G)
- Call & Communication with visitor & Door open function
- Door Opener Connectable from Either Monitor or Camera

2 Wire 7" Handfree Type

KCV-A372
KCV-D372

- Clear image and high resolution 7" Color Digital LCD
- Easy & Simple installation- 2 Wire non-polarity
- OSD Manu function
- Automatic connection check between monitor and camera
- Call & Communication with visitor & Door open function
- KCV-A372 : AC Type, KCV-D372 : DC type

:: Specifications

- Power : AC 100V~240V 50 / 60Hz
- Power consumption : Stand by 0.8W, Max 13W
- Monitor : 7″ Color Digital LCD (NTSC / PAL Auto switching)
- Max. Wiring distance : TIV 1.0mm Cabel : 150m (MAX),
  CAT.5E Cabel : 100m (MAX)
- Wiring : Camera (4Wire Polarity)
  Wires Sub audio phone (6Wire Polarity)
  Extension Monitor (8Wire Polarity)
- Communication System : Handsfree type
- Mount Type : Surface Mount
- Ambient temperature : 0℃ ~ 40℃
- Dimension (mm) : 222(W)×142(H)×33(D)
- Camera connection : KC-C60, KC-MC30, KC-MC24, KC-MC20

:: Wiring Diagram

Sub Audio Phone
KDP-602G
1. VCC
2. GND
3. AUDIO
4. VCC
5. DOOR1
6. DOOR2

CCTV Connection

Door Camera
KC-MC24
1. VCC
2. GND
3. AUDIO
4. VIDEO

:: System Diagram

Wiring
2Wire
4Wire
6Wire
8Wire

KCV-A374SD

KDP-602G

KC-MC30

KC-MC24

DC Door Lock (Adapter)

CCTV Camera

:: Dimension

222 | 33 | 142

:: Door Camera

KC-C60 KC-MC30 KC-MC24 KC-MC20
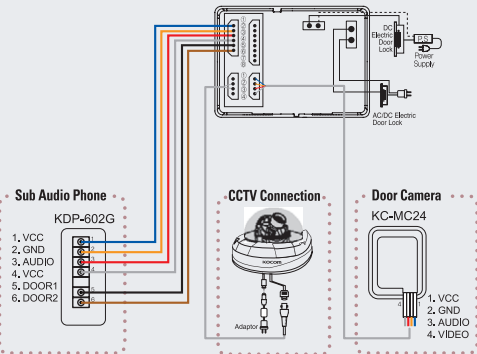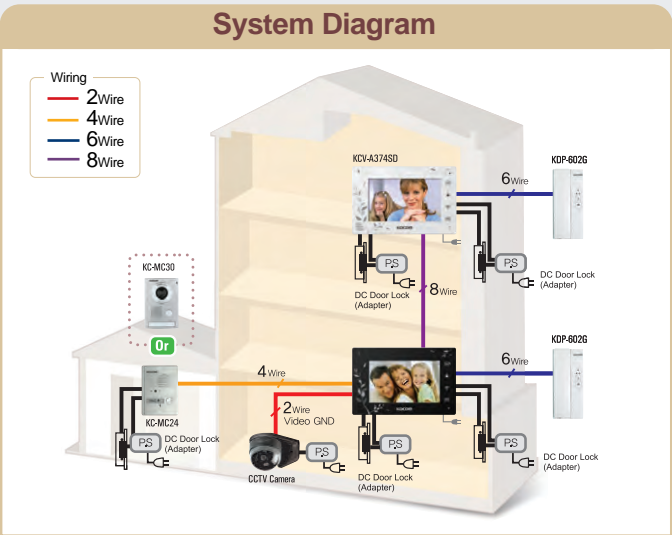
:: Specifications

- Power : KCV-A372 -AC 100V~240V 50 / 60Hz
  KCV-D372 -DC12V(±3V)
- Monitor : 7″ Color Digital LCD (NTSC / PAL Auto switching)
- Power consumption : Stand by 0.8W, Max : 13W
- Max. Wiring distance : TIV 1.0mm Cabel : 150m (MAX),
  CAT.5E Cabel : 100m (MAX)
- Wiring : Camera (4Wire Polarity), Extension Monitor (8Wire Polarity)
  Sub audio phone (6Wire Polarity)
- Communication System : Handsfree type
- Mount Type : Surface Mount
- Ambient temperature : 0℃ ~ 40℃
- Dimension (mm) :   AType - 222(W)×142(H)×33(D)
  DType - 222(W)×142(H)×26.5(D)
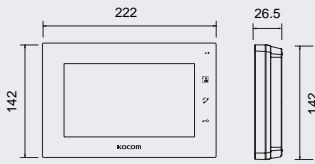- Camera connection : KC-C62, KC-MC32, KC-MC22, KC-MC11

:: Wiring Diagram

KC-MC22

Non Polarity

FG
Non Polarity

Power Supply

DC Electric Door Lock
※ Only one Electric door lock
should be connected to the
door camera or monitor,

Monitor
Non Polarity
Polarity
AC/DC Electric Door Lock
Power Supply

Monitor

Monitor extension

Option

① LINE 2 Monitor Connection
② LINE 2
③ DOOR 1 Door Lock
④ DOOR 2 Connection
⑤ FG

:: System Diagram

Wiring
2Wire

KCV-D372/A372

2wire non polarity

2wire non polarity

2wire non polarity

DC Door Lock (Adapter)

:: Dimension

222 | 26.5 | 142

:: Door Camera

KC-C62 KC-MC32 KC-MC22 KC-MC11

HOME MANAGER Since 1976

:: Videophone System

New
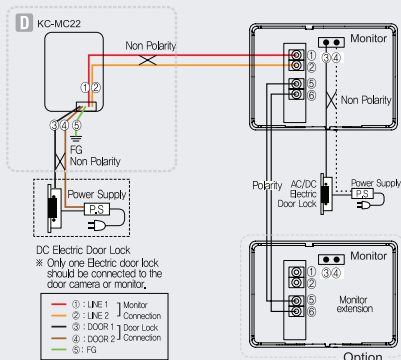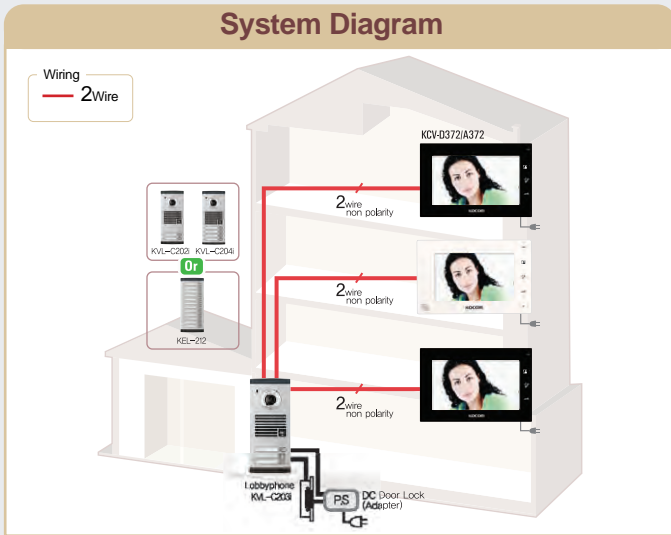
KOCOM

2 Wire 3.5" Handfree Type

KCV-352
KCV-D352

- 3.5" Color Digital LCD (NTSC / PAL)
- Easy & Simple installation 2 Wire non-polarity
- LCD OSD Menu
- Room to Door Communication and Monitoring
- Ultra Low Power Consumption
- Door Opener Connectable from Either Monitor or Camera
- KCV-352 : AC Type, KCV-D352 : DC Type
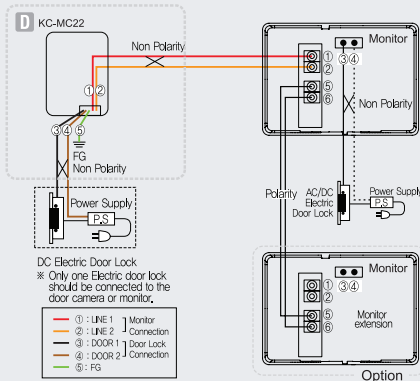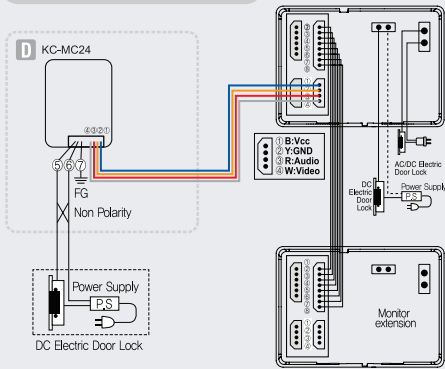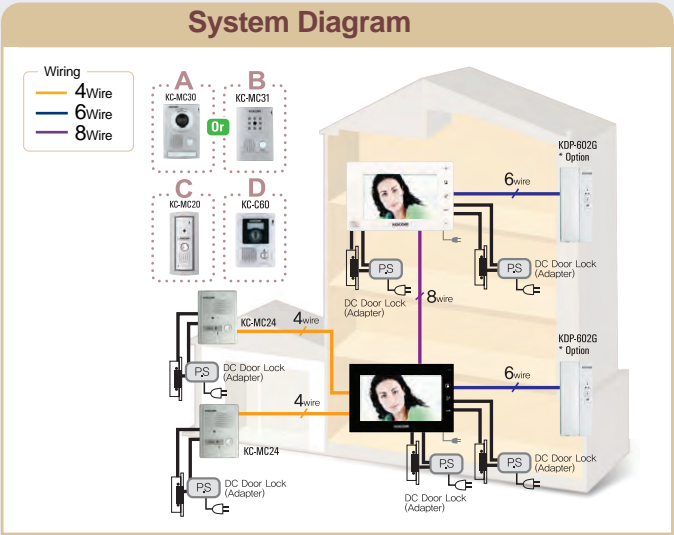
4 Wire 7" Handfree Type

KCV-A374
KCV-D374

- Clear image and high resolution 7" Color Digital LCD
- LCD OSD Menu
- 5 Melody Selection & Ultra Low Power Consumption
- Communication between Main Monitor and Sub Units
- Door Opener Connectable from Either Monitor or Camera
- Connection up to 2 Door Cameras and 2 Monitors with Sub-Audio Unit(KDP-602G)
- KCV-A374 : AC Type, KCV-D374 : DC Type

:: Specifications

- Power : KCV-352 - AC 90-240V (50Hz / 60Hz)
  KCV-D352 - DC12V ±0.5V / 1.5A
- Power consumption : KCV-352 - 0.7W
  In Communication - 10.5W
  KCV-D352 - Stand by : 2W, Max : 15W
- Monitor : 3.5″ Color Digital LCD (NTSC / PAL Auto switching)
- Max. Wiring distance : 100m TIV 0.8mm : 120m, TIV 1.0mm : 150m
- Wiring : Camera-2 wire (Non polarity), Extension monitor-2 wire (Polarity)
- Communication System : Handsfree type
- Mount Type : Surface Mount
- Ambient Temperate : 0℃ ~ 40℃
- Dimension (mm) : 195(W)×140(H)×34.5(D)
- Camera connection : KC-C62, KC-MC32 , KC-MC22, KC-MC11

:: Wiring Diagram

:: System Diagram

KCV-352/D352

Lobbyphone
KVL-C203

DC Door Lock
(Adapter)

:: Dimension

195   34.5   140   140

:: Door Camera

KC-C62   KC-MC32   KC-MC22   KC-MC11
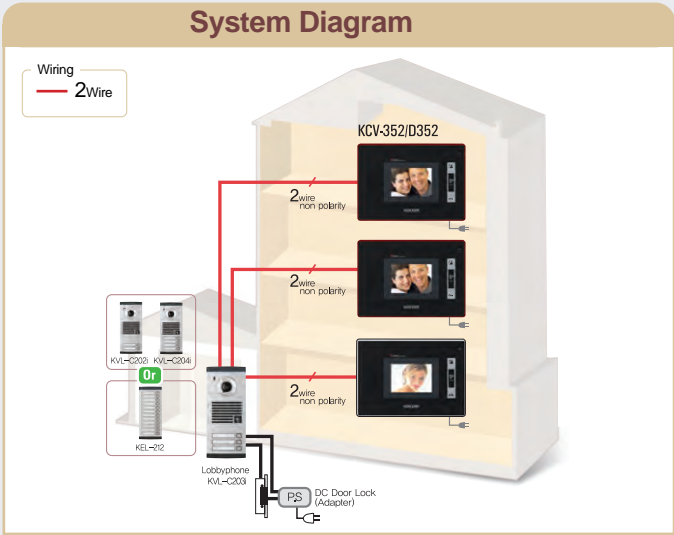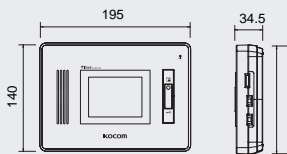
:: Specifications

- Power : AC 100V ~AC240V 50 / 60Hz
- Power consumption : Stand by -0.8W, Max -13W
- Monitor : 7″ Color Digital LCD (NTSC / PAL Auto switching)
- Max. Wiring distance : TIV 1.0mm Cabel : 150m (MAX),
  CAT.5E Cabel : 100m (MAX)
- Communication System : Handsfree type
- Wiring : Camera (4Wire Polarity),
  Sub audio phone (6Wire Polarity)
  Extension Monitor (8Wire Polarity)
- Mount Type : Surface Mount
- Ambient temperature : 0℃ ~ 40℃
- Dimension (mm) : AType - 222(W)×142(H)×33(D)
  DType - 222(W)×142(H)×26.5(D)
- Camera connection : KC-C60, KC-MC30, KC-MC24, KC-MC20, KC-MC31

:: Wiring Diagram

:: System Diagram

:: Dimension

222   33   142   142

:: Door Camera

KC-C60   KC-MC30   KC-MC24   KC-MC20   KC-MC31

HOME MANAGER Since 1976
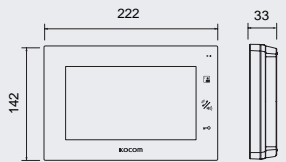
Videophone System

4 Wire 3.5" Handfree Type

KCV-W354
KCV-DW354

- 3.5" Color DigitalLCD (NTSC / PAL)
- Compact & stylish Design
- Easy & Simple installation-4 Wire polarity
- LCD OSD Menu
- Room to Door Communication and Monitoring
- 5 Melody Selection
- KCV-W354 : AC Type / KCV-DW354 : DC Type

- Ultra Low Power Consumption
- Communication between Main Monitor and Sub Units
- Door Opener Connectable from Either Monitor or Camera
- Connection up to 2 Door Cameras and 2 Monitors
  (KCV-W354 / DW354 / KCV-301)
  with Sub-Audio (KDP-602G) *option.

7" Handset Type

KCV-801R/D801R
KCV-801/D801

- 7" Color Digital LCD & LED Indication in Conditions
- 4 Melody Selection
- OSD Menu Control
- PIR Sensor Camera & CCTV Camera Connection
- CCTV Monitoring Mode & Auto Record in Absence Mode
- Built 128 Cut Images Memory
- Upto 2 Monitor & 2 Audio Sub Phone with 2 Cameras Connection
- Internal Call & Communication between Extended Indoor Units
- KCV-801R, KCV-801 : AC Type / KCV-D801R, KCV-D801 : DC Type

:: Specifications

- Power : KCV-W354 - AC 90~240V (50Hz / 60Hz)
  KCV-DW354 - DC 12V ±0.5V / 1.5A
- Power consumption: Stand by 0.7W, Max 13W
- Monitor : 3.5″ Color Digital LCD (NTSC / PAL Auto switching)
- Max. Wiring distance : UTP(CAT5) : 100m TIV 0.8mm : 120m, TIV 1.0mm : 150m
- Wiring : Camera : 4 wire (Polarity) , Sub audio phone : 6Wire(Polarity)
  Extension monitor : 8 wire (Polarity)
- Communication System : Handsfree type
- Assurance Temperature : 0℃ ~ 40℃
- Mount Type : Surface Mount
- Dimension (mm) : 195(W)×140(H)×34.5(D)
- Camera Connection : KC-C60, KC-MC30, KC-MC31, KC-MC24, KC-MC20

:: Wiring Diagram
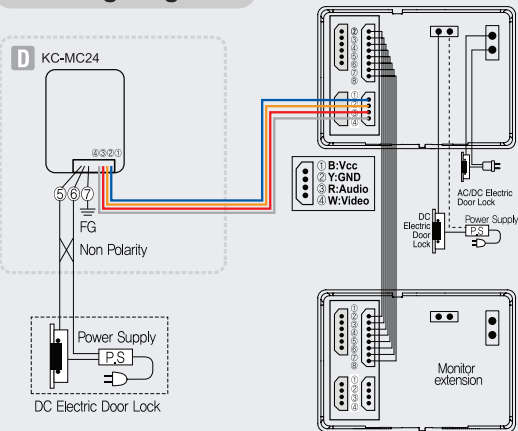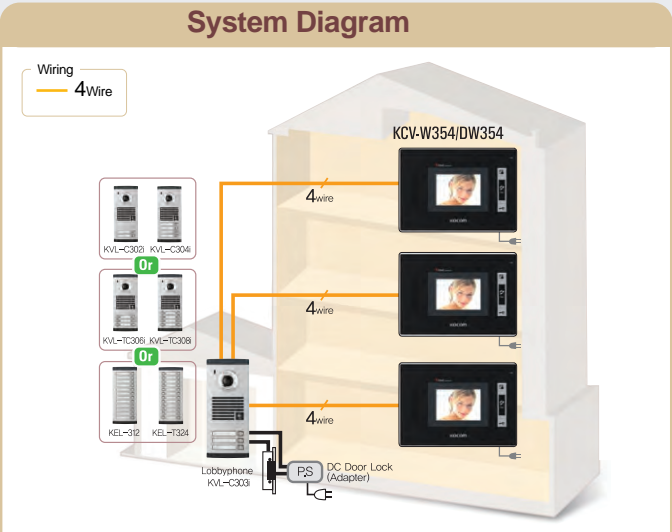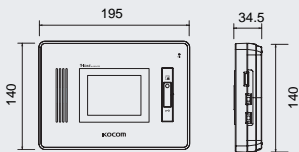
:: Specifications

- Power Supply : AC 100 - 240V (KCV-801R / KCV-801),
  DC 15V 1.2A (KCV-D801R / KCV-D801)
- Power consumption : Stand by 2W, Max. 12W
- Monitor : 7" Color Digital LCD
- Wiring : 4 wire (camera), 6 wire (Sub audio phone), 8wire (Sub video phone)
- Color Memory : Memory up to 128 images (KCV-801R / KCV-D801R)
- Camera Connection : KC-C60, KC-MC35, KC-MC20, KC-MC30, KC-MC31, KC-MC24, KVL-TC302i Series lobby phone
  Indoor unit Connection : KDP-602G(Sub audio phone), KCV-W354, KVM-301, KCV-801, KCV-301
- Communication System : Duplex handset conversation
- Distance : TIV ∅0.65 cable:100m
- Mount : Surface mount
- Assurance Temperature : 0℃ ~ 40℃
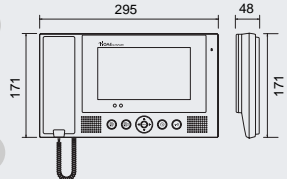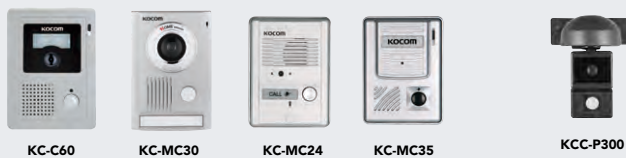- Dimension (mm) : 295(W)X170(H)X48(D)

:: Wiring Diagram

:: System Diagram

:: Dimension

:: Door Camera

KC-C60   KC-MC30   KC-MC31   KC-MC24   KC-MC20

KC-C60   KC-MC30   KC-MC24   KC-MC35   KCC-P300

:: Option

+OME MANAGER Since 1976
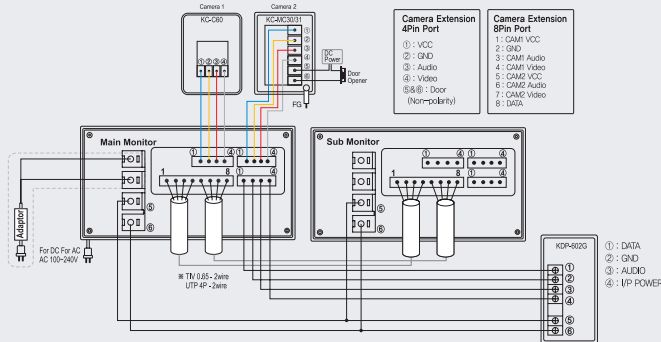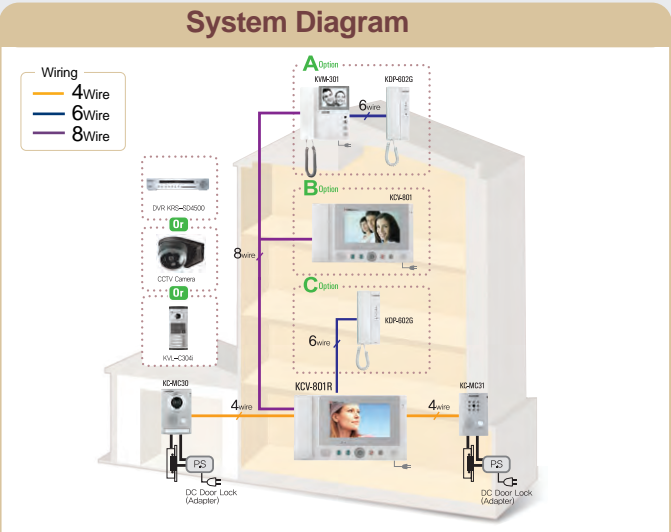
:: Videophone System

New

4Wire 4" Color Handset Type

KCV-301

- 4" Color Digital LCD (NTSC/PAL)
- Door open during communication
- Easy & simple installation with only 4 wires
- Intercom function between extended indoor units
- Surface mount type installation

- External 64 cut memory equipment (KVR-300) connection -(B/W)*option
- Connection with up to 2 door cameras, 2 monitors and 2 sub audio phone (KDP-602G)*option
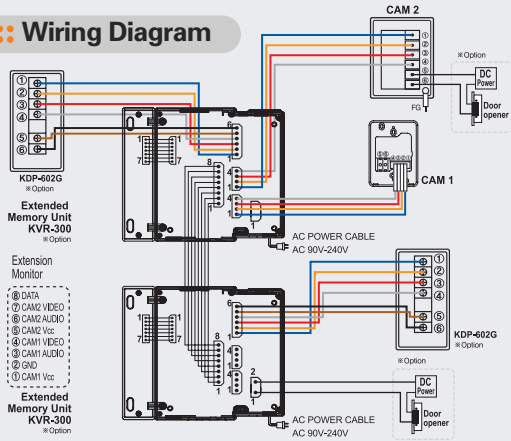- 5 melody selection

4Wire 4" B/W Handset Type

KVM-301
KVM-D301

- 4" CRT B/W Videophone
- External 64 Cut Memory Equipment
- Internal Call & communication between extended Indoor Units
- Audio & video Conversation with Visitor
- Door open & Monitoring Function
- 5 Melody Selection
- Security Sensor Connection

- PIR Sensor Camera, CCTV Camera Connection
- CCTV Monitoring Mode
- Camera Selection
- Doorlock Connection Eighter Monitor or Camera
- Upto 2 Monitors & 2 Audio Sub Phones with 2 Cameras Connection
- KVM-301 : AC Type / KVM-D301 : DC Type

:: Specifications

- Power : AC 90-240V 50Hz / 60Hz, DC12V
- Power consumption : Stand by 2W, Max. 15W
- Monitor : 4″ Color Digital LCD (NTSC / PAL Auto switching)
- Wiring : Camera : 4 wire (Polarity) , Sub audio phone : 6Wire(Polarity)
  Extension monitor : 8 wire (Polarity)
  Max.Wiring distance : 0.65mmx4P : 100m
  Max.Wiring distance : UTP (CAT5) : 100m
  TIV 0.8mm : 120m, TIV 1.0mm : 150m
- Communication System : Duplex Handset type
- Mount Type : Surface Mount
- Dimension (mm) : 210(W)×222(H)×57(D)
- Indoor unit connection : KDP-602G (Audio phone), KVM-301, KCV-W354, KCV-801R, KCV-801
- Camera Connection : KC-C60, KC-MC30, KC-MC31, KC-MC24, KC-MC20
  Common gate camera : KVL-C302i, KVL-C303i, KVL-C304i, KVL-TC306i, KVL-TC308i

:: Wiring Diagram

:: Specifications
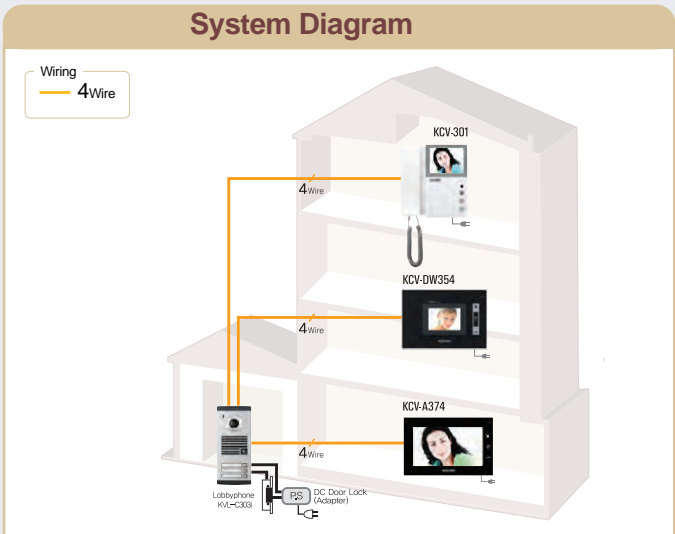
- Power : AC 90~240V 50Hz / 60Hz, DC12V
- Power consumption : Stand by 2W, Max. 15W
- Monitor : B/W CRT 4" flat tube (NTSC / PAL Auto switching)
- Melody : 5 melody selection
- Wiring : Camera : 4 wire (Polarity), Extension monitor : 8 wire (Polarity)
  Sub audio phone : 6 wire (Polarity)
  Max.Wiring distance : 0.65mmx4P : 100m
  Max.Wiring distance : UTP (CAT5) : 100m
  TIV 0.8mm : 120m, TIV 1.0mm : 150m
- Communication System : Duplex Handset type
- Mount Type : Surface Mount
- Dimension (mm) : 210(W)×222(H)×57(D)
- Indoor unit connection : KDP-602G (Audio phone), KVM-301, KCV-W354, KCV-801R, KCV-801
- Camera connection : KC-B61, KC-MB30, KC-D20, KC-D33, KC-MB20, KC-MB31
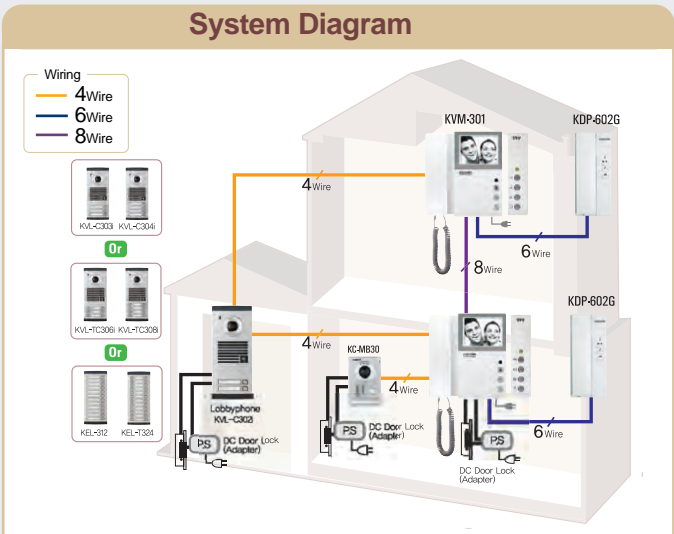 Common gate camera : KVL-C302i, KVL-C303i, KVL-C304i, KVL-TC306i, KVL-TC308i

---

:: System Diagram

Wiring — 4 Wire

KCV-301
KCV-DW354
KCV-A374

:: System Diagram

Wiring — 4 Wire / 6 Wire / 8 Wire

:: Door Camera

KC-C60 | KC-MC30 | KC-MC31 | KC-MC24 | KC-MC20

:: Option

KDP-602G | KVR-300 | KCC-P300

:: Dimension

210 / 57 / 222

:: Door Camera

KC-B61 | KC-MB30 | KC-MB31 | KC-D20 | KC-D33 | KC-MB20

:: Option

KDP-602G | KVR-300 | KCB-P300

+OME MANAGER Since 1976
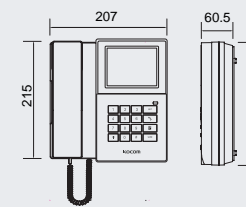
:: Videophone System

New
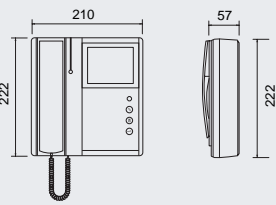
4Wire 4" B/W Handset Type

KVM-340

- ■ 4" CRT B/W Videophone
- ■ External 64 Cut Memory Equipment
- ■ Internal Call & communication between extended Indoor Units
- ■ Audio & video Conversation with Visitor
- ■ Door open & Monitoring Function
- ■ 5 Melody Selection
- ■ Telephone Function
- ■ Security Sensor Connection
- ■ PIR Sensor Camera, CCTV Camera Connection
- ■ CCTV Monitoring Mode
- ■ Camera Selection
- ■ Doorlock Connection Eighter Monitor or Camera
- ■ Upto 2 Monitors & 2 Audio Sub Phones with 2 Cameras Connection

System Diagram

:: Wiring Diagram

AC POWER CABLE
AC 90V~240V
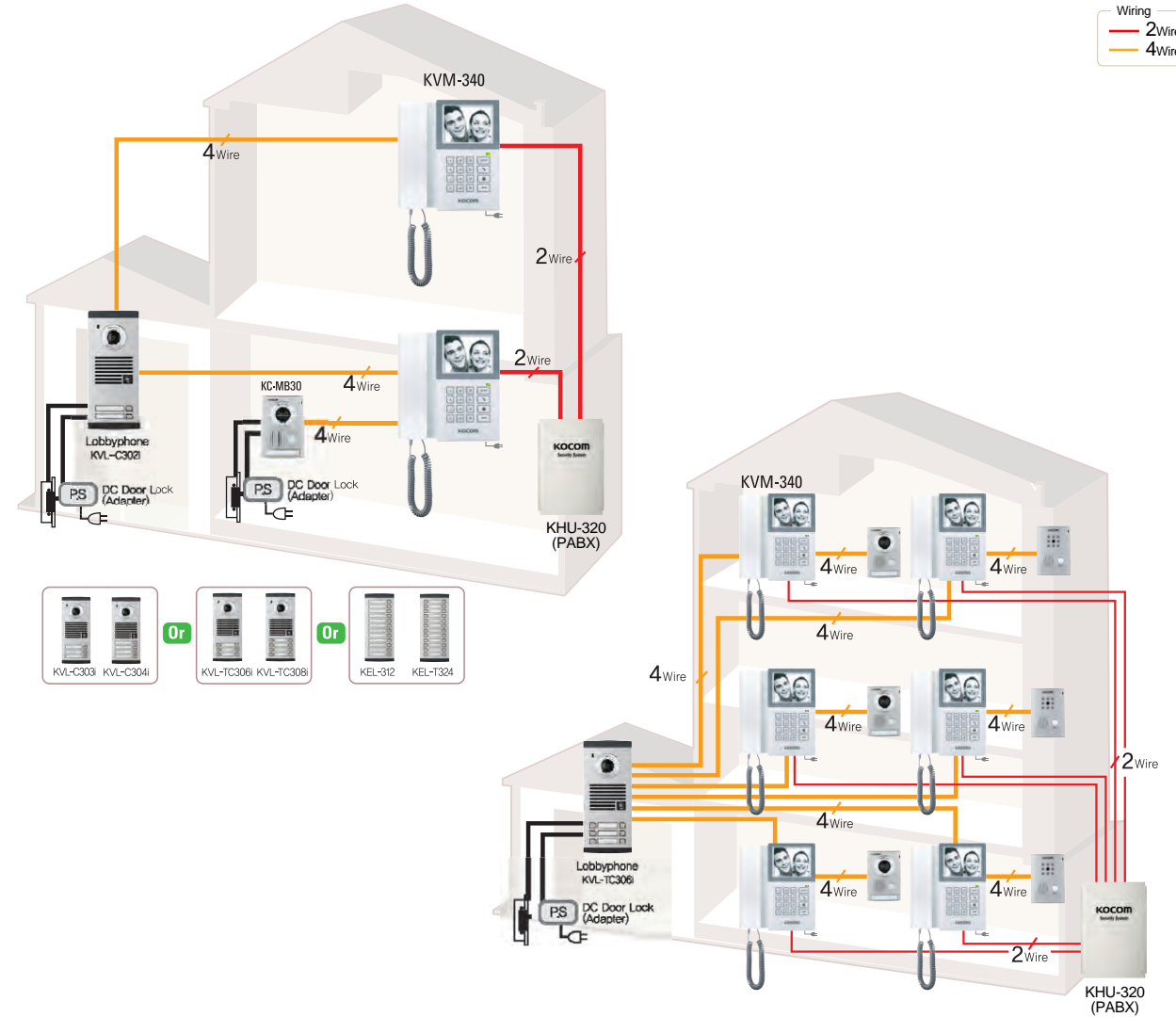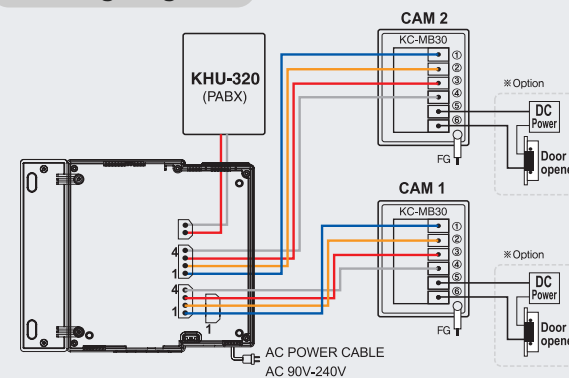
:: Specifications

- • Power : AC 90~240V 50Hz / 60Hz
- • Power consumption : Stand by 2W, Max. 15W
- • Monitor : B/W CRT 4" flat tube
- • Melody : 5 melody selection
- • Wiring : Camera : 4 wire (Polarity), PSTN: 2 wire
    - Max.Wiring distance : 0.65mmx4P : 100m
    - Max.Wiring distance : UTP (CAT5) : 100m
    - TIV 0.8mm : 120m, TIV 1.0mm : 150m
- • Communication System : Duplex Handset type
- • Mount Type : Surface Mount
- • Dimension (mm) : 207(W)×215(H)×60.5(D)
- • Indoor unit connection : KDP-602G (Audio phone),
    - KVM-301, KCV-W354, KCV-801R, KCV-801
- • Camera connection : KC-B61, KC-MB30, KC-D20, KC-D33, KC-MB20
    - Common gate camera : KVL-C302i, KVL-C303i, KVL-C304i, KVL-TC306i, KVL-TC308

:: Dimension

:: Door Camera

KC-B61   KC-MB30   KC-D20   KC-D33   KC-MB20

:: Option

KDP-602G   KVR-300   KCB-P300

53

Videophone System

4" B/W Videophone

KVM-604

■ 4" CRT B/W Videophone
■ Up to 4 Indoor Units (3 monitor & 1 audio handset, KDP-602G) and 1 Front Door Camera Connection
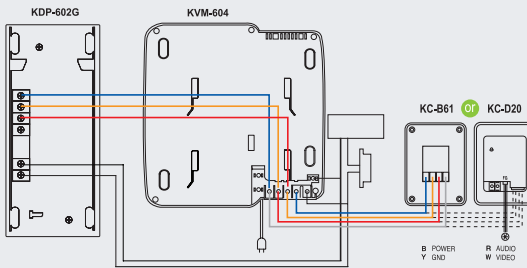■ Audio + Video conversation with Visitor
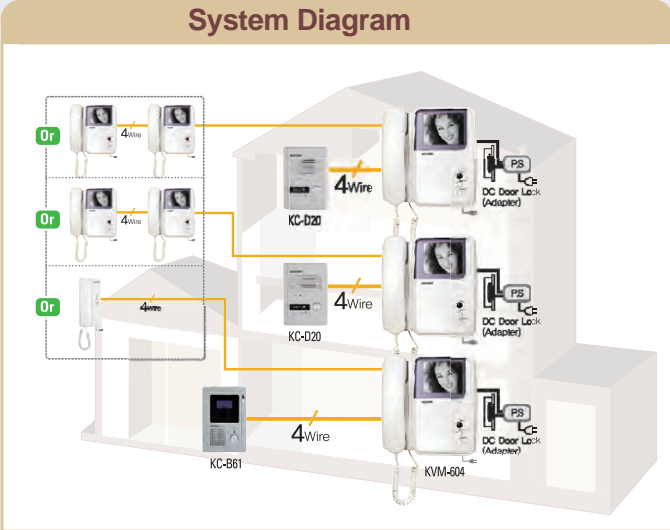■ Door Open Function

:: Specifications

- Power : AC100V~ 240V 50 / 60Hz
- Power consumption : Stand by 1W, Max. 15W
- Monitor : B/W CRT 4" flat tube
- Communication system : Duplex handset type
- Wiring : 4wire in polarity
- Max. wiring distance : Ø0.65 single cable : 50m, 5C-2V coaxial cable : 100m
- Mount type : Surface mount
- Assurance temperature : 0℃~+50℃
- Dimension (mm) : 204(W) x 210(H) x 53(D)
- Audio handset connection : KDP-602G (No intercom function)
- Camera connection : KC-B61, KC-D20 (Metal pinhole), KC-MB20 (Metal pinhole)

:: System Diagram

KC-D20
4 Wire
DC Door Lock (Adapter)
KC-D20
4 Wire
DC Door Lock (Adapter)
KC-B61
4 Wire
DC Door Lock (Adapter)
KVM-604

:: Wiring Diagram

KDP-602G   KVM-604

KC-B61 or KC-D20

B POWER
Y GND
R AUDIO
W VIDEO

:: Dimension

204   53
210   210

:: Door Camera

KC-B61   KC-D20   KC-MB20   KDP-602G

:: Option

Videophone System / Sub Device

Sub Interphone

KDP-602G

■ Extension Sub Doorphone
■ Audio Conversation with Door Camera
■ Internal Call & Communication
■ Door Open

:: Specifications

- Power consumption : Max. 2W
- Power monitor : Powered from monitor
- Monitor connection: KVM-301, KVM-524RG, KVM-604, KCV-801R, KCV-801, KCV-W354
- Body : Plastic
- Wiring : 4 wire
- Mount Type : Surface
- Indoor unit connection : KVM-301, KCV-301, KCV-W354, KCV-801R, KCV-801
- Assurance temperature : 0℃ ~ +50℃
- Dimension (mm) : 92(W) x 210(H) x 57(D)

:: Dimension

80   57
210   210

Memory Phone

KVR-300

■ External Memory Equipment(32M DRAM)
■ Upto 64 Cut frame Record
■ Play & Record (Manual & Automatic) Function
■ Date Setting (Year / Month / Day)
■ Connection with KVM-301 / KVM-D301 Monitor
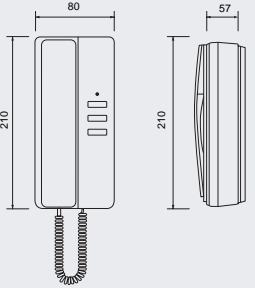
• KCV-301

:: Specifications

- Power consumption : Max. 15W
- Power : Powered from monitor
- Monitor connection : KVM-301 / KVM-D301 / KCV-301
- Body : Plastic
- Wiring : 7 wire
- Mount Type : Surface
- Assurance temperature : 0℃~+50℃
- Dimension (mm) : 63(W) x 222(H) x 50(D)

:: Dimension

63   50
222   222

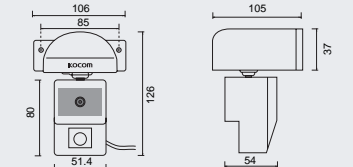## CCTV Camera

KCC-P300 Color
KCB-P300 B/W

■ PIR Sensor Camera with Security Phone (KCV-802R, KCV-801R) for Surveillance System.
■ Built-in PIR Sensor
■ Any Movement Detection will be Captured in Security Monitor in Absence Mode.
■ Powered from the Security Phone Monitor (KCV-802R, KCV-801R)

:: Dimension

- Power Input 12V DC ±1V
- Power Consumption : 200mA Max.
- Shutter Speed : 1/60 sec 1/100,000 sec
- Video Output : 1VP-P 75ohm
- Scanning System EIA or CCIR NTsc or PAL, SECAM
- Resolution : 330 TV Line
- S/N Ratio : 48 dB
- Min.Illumination : 0.1 LUX 0.5LUX
- Lens : 3.6 mm
- Assurance temperature :-10℃~60℃
- Dimension (mm) : 106(W) x 126(H) x 105(D)

:: Dimension

106   105
85
80   126   37
51.4   54

HOME MANAGER Since 1976

:: Videophone System / Lobbyphone

New

KVL-C203i / C303i

KVL-C204i / C304i

4 Wire Lobby Phone
KVL-C302i KVL-C303i / C304i / C306i / C308i / KEL-212

2 Wire Lobby Phone
KVL-C202i KVL-C203i / KVL-C204i / KEL-212

4 Wire Lobbyphone

KVL-C302i KVL-C303i KVL-C304i KVL-TC306i KVL-TC308i KEL-303 KEL-306 KEL-309 KEL-312 KEL-T324

2 Wire Lobbyphone

KVL-C202i KVL-C203i KVL-C204i KEL-212

:: Function

- Modern & Stylish Design
- Easy & Simple Installation with
  4 Wire-KVL-C302i, KVL-C303i, KVL-C304i, KVL-TC306,
  KVL-TC308i, KEL-312, KEL-T324
  2 Wire-KVL-C202i, KVL-C203i, KVL-C204i, KEL-212
- Call, Communication & Door Open with Monitor
- Door Open by I-Button Key (Dallas Chip) *Option
- Max. 1,300 numbers of I-Button Key registration
- White LED On in Low Illumination
- Name Plate LED On in operation
- Camera Angle Adjustable (Up, Down, Right & Left)
- Receiving & Calling Audio Volume Adjustable
- Long Distance Connection
- Door Lock Connection

:: Specifications

- Power : DC 12V / 1.5A
- Power Consumption : 1.2W at stand by, 5.6W in operation
- TV System : NTSC / PAL
- Camera Angle : Normal Lens 96.1 °, Camera Angle Adjustable
- Body Material : Stainless Aluminum
- Min. Illumination : 0.1Lux (LED On)
- Mount type : Flush Mount
- Assurance Temperature : -20 ℃ ~ +50 C
- Dimension (mm) : 125(W) x 290(H) x 16(D)
  Box(mm):115(W) x 282(H) x 50(D)
- Monitor Connection : 2 Wire - KCV-A372, KCV-D372, KCV-352, KCV-D352
  4 Wire - KCV-A374, KCV-301,KCV-W354, KCV-DW351
  KCV-801R, KCV-801,KVM-301

System Diagram

4Wire Connection (All House from 2 to 32)

2 Houses 3 Houses 4 Houses 6 Houses 8 Houses 14 Houses 15 Houses 32 Houses

2Wire Connection

2 Houses 3 Houses 4 Houses 14 Houses 15 Houses 26 Houses 40 Houses

:: Wiring Connection

4Wire Common Gate Camera & Extension Unit
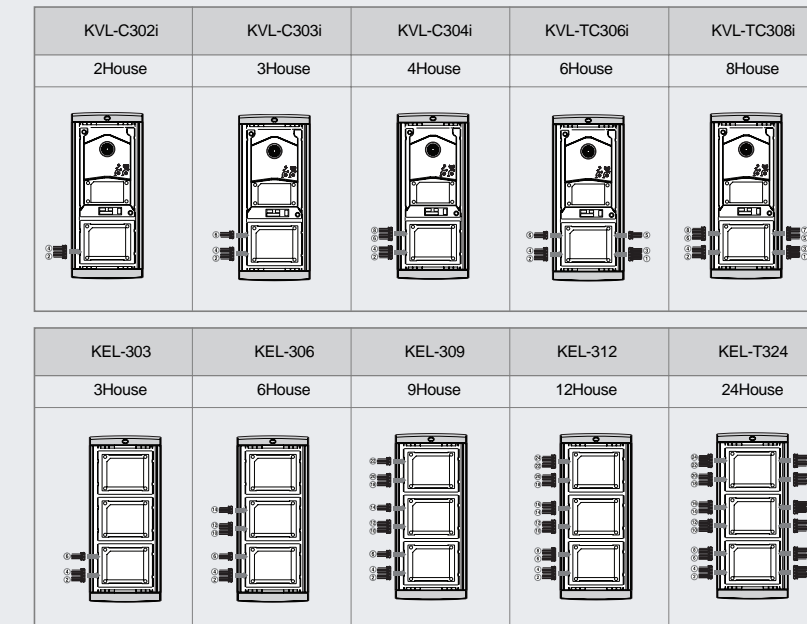
KVL-C302i	KVL-C303i	KVL-C304i	KVL-TC306i	KVL-TC308i
2House	3House	4House	6House	8House

KEL-303	KEL-306	KEL-309	KEL-312	KEL-T324
3House	6House	9House	12House	24House

2Wire Common Gate Camera & Extension Unit

KVL-C202i	KVL-C203i
2House	3House

KVL-C204i	KEL-212
4House	12House

:: Dimension

125   16 28   115   50   • Box
290   290   282

:: Option

i Button
KIB-01

Sunvisor
SV30

+OME MANAGER Since 1976
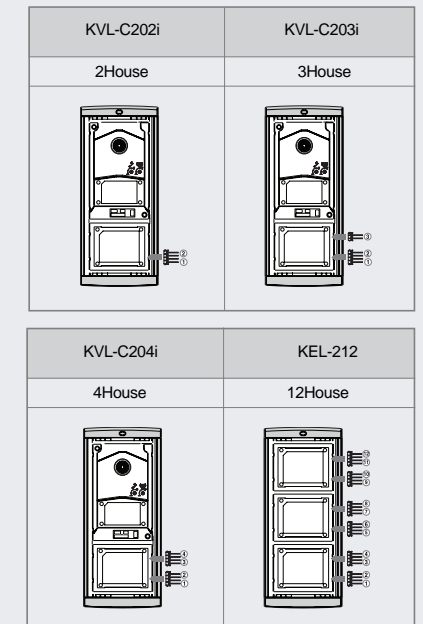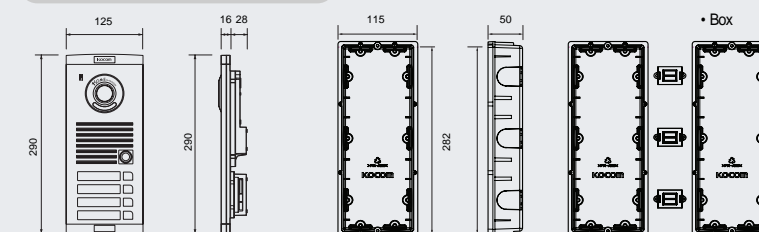
▪▪ Door Camera / Doorlock
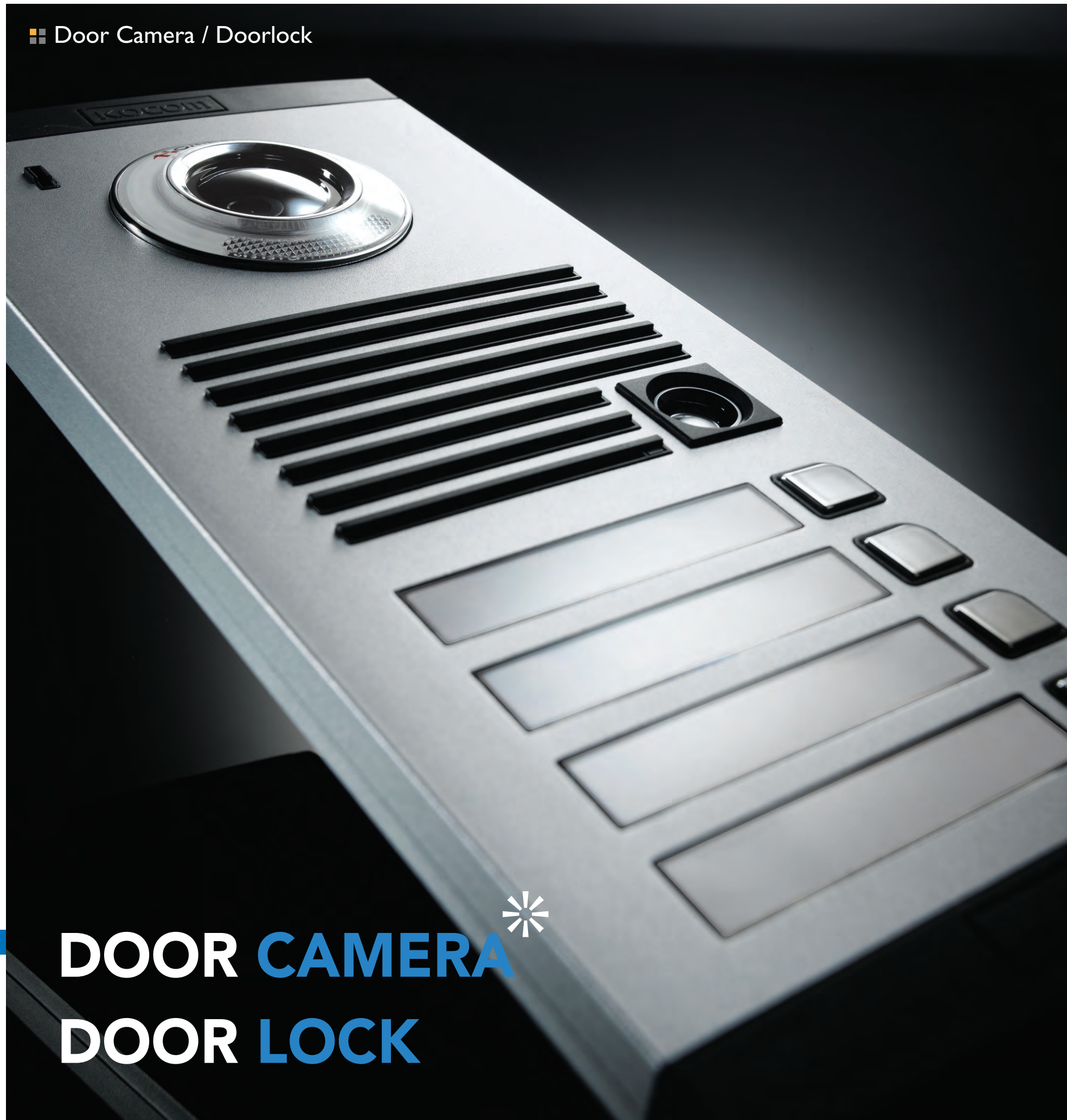
DOOR CAMERA
DOOR LOCK

Door Camera / Doorlock

A door lock and a door camera show KOCOM's excellent technology for smooth communication between a household and an apartment complex.

KOCOM is leading the global market with high technical power and quality for stable door access control. KOCOM introduces you a door lock and a door camera that it is possible to control more safely door access which is easy to be exposed.

KC-C71
Door Camera

KC-MC30
Door Camera

KDL-F2
Fingerprint Type Doorlock

Home Network System

Home Automation System

Video Phone

Door Camera/Doorlock

Sub Device

Interphone & Door Phone

Ventilation System

⚡ Door Camera / Doorlock

✦ Front Door Camera

KC-MC30 Color
KC-MC32 Color
KC-MB30 B/W

- Manual camera angle adjustment
- Protect from pollution & weather proof Material (A/L)
- Night automatic illumination (White LED and IR LED On / Built-in Camera)
- Door lock connectable.

✦ Specifications

- Power : 12V± 1V (power from monitor)
- Power consumption : Max. 3W
- Wiring : KC-MC30, KC-MB30 - 4 Wire, KC-MC32 - 2 Wire
- Camera angle : 120˚ (Angle Abjustable)
- Body material: Metal A/L
- Mim. illumination : 0.1 lux (LED ON)
- Mount type : Surface mount
- Dimension(mm):110(W)×158(H)×39(D)
- Box Connection:
  - -KC-MC30 : KCV-A374, KCV-301, KCV-802R, KCV-D802R, KCV-801R, KCV-D801R, KCV-801, KCV-D801
  - -KC-MC32 : KCV-A372, KCV-D372, KCV-352, KCV-D352
  - -KC-MB30 : KVM-301, KVM-D301

✦ Wiring Diagram

① Camera Power +12V
② GND
③ Voice (Talk)
④ Video
⑤&⑥ Non polarity
⑦ Camera angel handle
⑧ Wire clamp

✦ Dimension

110
39
158
158

✦ Option

Sunvisor

✦ Front Door Camera

KC-C60/C62 Color
KC-B61/C63 B/W

- Night automatic illumination White LED and IR LED On / Built-in Camera)
- Door lock connectable
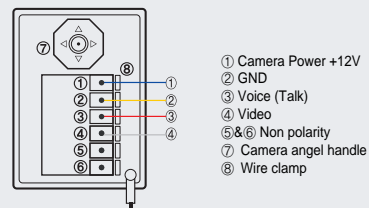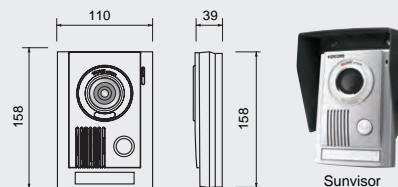
✦ Specifications

- Power : DC 12V± 1V (power from monitor)
- Power consumption : Max. 2.5W
- Wiring : KC-C63(B/W), KC-C60(Color), KC-B61(B/W) : 4 Wire KC-C62(Color) - 2 Wire
- Mount type : Surface mount
- Camera angle : 120˚ (Fixed)
- Body material : Plastic
- Mim. illumination : 0.1 lux (LED On)
- Mount type : Surface mount
- Dimension(mm) : 95(W)×127(H)×34(D)
- Monitor Connection:
  - -KC-C60 : KCV-J351, KCV-A374, KCV-W354, KCV-DW354 KIV-212, KIV-D212, KCV-A374, KCV-301, KCV-802R, KCV-D802R, KCV-801R, KCV-D801R, KCV-W354, KCV-DW354
  - -KC-C62 : KCV-A372, KCV-D372, KCV-352, KCV-D352
  - -KC-B61 : KIV-102, KIV-D102, KVM-520, KVM-D520 KVM-301, KVM-604
  - -KC-C63 : KIV-102, KIV-D102

✦ Wiring Diagram

① Camera Power +12V
② GND
③ Voice (Talk)
④ Video

✦ Dimension

95
34
127

✦ Option

Color Camera **KC-C60**
Color Camera **KC-C62**
B/W Camera **KC-B61**
B/W Camera **KC-C63**
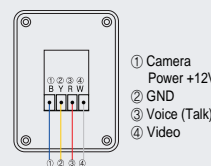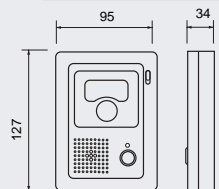
✦ Front Door Camera

KC-C71
Color

- Manual camera angle adjustment
- Night automatic illumination (White LED On / Built-in Camera)

✦ Specifications

- Power : 12V± 1V (power from monitor)
- Power consumption : Max. 2.5W
- Wiring : 4 Wire
- Lens : F : 2.0, f = 3.6mm
- Camera angle : 120˚(Angle Abjustable)
- Body material: Plastic
- Mim. illumination : 0.1 lux (LED ON)
- Mount type : Flush mount
- Dimension(mm) : 89(W)×131(H)×13(D)
- Box Size (mm) : 125(W)×161(H)×17(D)
- Monitor Connection: KHN-970, KHN-971,KHN-973, KHN-880, KHN-881,KHN-883, KHN-870, KHN-871, KHN-873 KHV-478, KHV-458, KCV-358, KCV-J351, KCV-C374

✦ Wiring Diagram
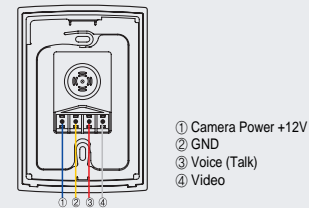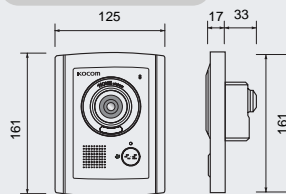
① Camera Power +12V
② GND
③ Voice (Talk)
④ Video

✦ Dimension

125
17 33
161
161

✦ Front Door Camera

KC-MC31 Color
KC-MB31 B/W

- Protect from pollution & weather proof Material (A/L)
- Night automatic illumination (White LED On / Built-in Camera)
- Door lock connectable.

✦ Specifications

- Power : 12V± 1V (power from monitor)
- Power consumption : Max. 2.5W
- Wiring : 4 Wire
- Camera angle : 90˚ (Fixed)
- Body material : Metal
- Mim. illumination: 0.1 lux (LED ON)
- Mount type : Surface mount
- Assurance temperature : -20℃ ~ +50℃
- Dimension (mm) : 110 (W) x 158(H) x 39(D)
- Monitor Connection :
  - -KC-MC31: KCV-A374, KCV-301, KCV-802R, KCV-D802R, KCV-801R, KCV-D801R, KCV-W354,KCV-DW354
  - -KC-MB31: KVM-301, KVM-D301

✦ Wiring Diagram

① Camera Power +12V
② GND
③ Voice (Talk)
④ Video
⑤&⑥ Non polarity
⑦ Camera angel handle
⑧ Wire clamp

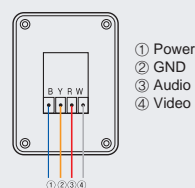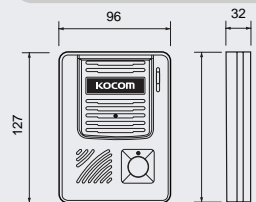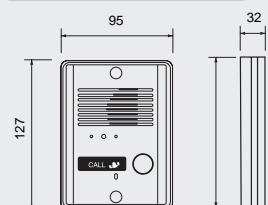### ✦ Dimension

110
39
158
158

⠿ Door Camera / Doorlock

Front Door Camera
KC-MC35 Color
## KC-D33 B/W

■ Pin-hole lens type Door Camera
■ Protect from pollution
  & weather proof Material (A/L)
■ Night automatic illumination (White LED
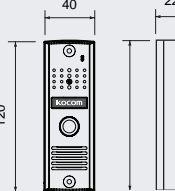 and IR LED On / Built-in Camera)
■ Door lock connectable.

KC-D33
KC-MC35

⠿ Specifications

- Power : 12V± 1V (power from monitor)
- Power consumption : Max. 2.5W
- Wiring : KC-MC35, KC-D33 -4Wire
- Camera angle : 90˚ (Fixed)
- Body material : Metal
- Mim. illumination : 0.1 lux on the object (LED ON)
- Mount type : Surface mount
- Assurance temperature : -20℃ ~ +50℃
- Dimension (mm) : 96(W) x 127(H) x 32(D)
- Monitor Connection :
  -KC-MC35 : KCV-A374, KCV-301,KCV-W354,
    KCV-DW354, KCV-D801R, KCV-J351,
    KCV-A374, KIV-212, KIV-D212, KCV-802R,
    KCV-D802R, KCV-D802R, KCV-801R,
    KCV-801R, KCV-802R, KCV-801R,
    KCV-D801R
  -KC-D33 : KIV-102, KIV-D102, KVM-301

⠿ Wiring Diagram

① Power
② GND
③ Audio
④ Video

⠿ Dimension

96   32

127

Front Door Camera
KC-MC24 Color
KC-MC22

■ Call & Communication with resident

⠿ Specifications

- Power : 12V± 1V (power from monitor)
- Power consumption : Max. 2.5W
- Wiring : KC-MC24-4Wire, KC-MC22-2Wire
- Camera angle : 90˚ (Fixed)
- Body material : Metal
- Mim. illumination : 0.1 lux on the object (LED ON)
- Mount type : Surface mount
- Assurance temperature : -20℃ ~ +50℃
- Dimension (mm) : 95(W) x 127(H) x 32(D)
- Monitor Connection :
  -KC-MC22 : KCV-A372 KCV-D372, KCV-352, KCV-D352
  -KC-MC24 : KCV-A374, KCV-301, KCV-802R, KCV-D802R,
    KCV-801R, KCV-D801R,KCV-W354,
    KCV-DW354

⠿ Wiring Diagram

KC-MC24 (4Wire)
① Power
② GND
③ Audio
④ Video

KC-MC22 (2Wire)
① Power/Audo/Video
② GND

⠿ Dimension

95   32

127

Front Door Camera
KC-D20
  B/W

■ Pin-hole lens type Door Camera
■ Protect from pollution & weather proof Material (A/L)
■ Night automatic illumination
  (White LED and IR LED On / Built-in Camera)
■ Door lock connectable.

⠿ Specifications

- Power : 12V± 1V (power from monitor)
- Power consumption : Max. 2.5W
- Wiring : 4Wire
- Camera angle : 90˚ (Fixed)
- Body material : Metal
- Mim. illumination : 0.1 lux on the object (LED ON)
- Mount type : Surface mount
- Assurance temperature : -20℃ ~ +50℃
- Dimension (mm) : 95(W) x 127(H) x 34(D)
- Monitor Connection : KVM-520, KVM-D520, KVM-301,
    KVM-604

⠿ Wiring Diagram

① Power
② GND
③ Audio
④ Video

⠿ Dimension

95   33

127
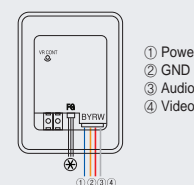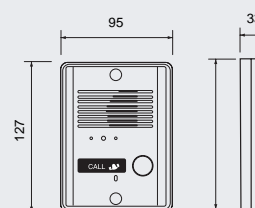
Front Door Camera
KC-MC11/MC20 Color
KC-MB20 B/W ■ Call & Communication with resident

KC-MC20
KC-MB20

⠿ Specifications

- Power : 12V± 1V (power from monitor)
- Power consumption : Max. 2.5W
- Wiring : KC-MB20, KC-MC20-4Wire / KC-MC11-2Wire
- Camera angle : 90˚ (Fixed)
- Body material: Metal
- Mim. illumination: 0.1 lux on the object (LED ON)
- Mount type : Surface mount
- Assurance temperature : -20℃ ~ +50℃
- Dimension (mm) : 40(W) x 120(H) x 22(W)
- Monitor Connection:
  -KC-MC11 : KCV-A372 KCV-D372, KCV-352, KCV-D352
  -KC-MC20 : KCV-A374, KCV-301, KCV-W354,
    KCV-DW354, KIV-212,KIV-D212
  -KC-MB20 : KIV-102, KIV-D102, KVM-604,
    KVM-301, KVM-D301

⠿ Wiring Diagram

① DC-12V
② GND
③ Voice
④ Video
FG

⠿ Dimension

40   22

120

⠿ Option

Color Camera
KC-MC11

Color Camera
KC-MC20

B/W Camera
KC-MB20

HOME MANAGER Since 1976

Home Network System
Home Automation System
Video Phone
Door Camera/Doorlock
Sub Device
Interphone & Door Phone
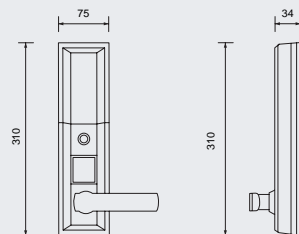Ventilation System

:: Door Camera / Doorlock
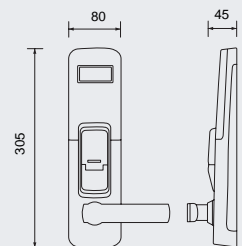
:: Function

- Door open by i-Button key & Access code
- Panic function (One touch door open)
- Automatic re-locking function
- Double-lock function
- Auto-lock function
- Prank & theft prevention function
- Intrusion Alert
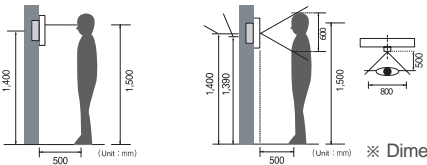- Battery change alert function

:: Specifications

- Open mode : i-Button key and Access code
  (6 access code from 1 to 10 digit)
- Body Dimension : Out – 75(W) x 310(H) x 34(D) mm
  In – 56(W) x 278(H) x 40(D) mm
- Body materials : Out - Zinc die casting with coating
  In – Reinforced plastic with coating
- Power source : 1.5V Alkaline battery (AA size) X 8ea
- Operating temperature : -15℃ ~ 50℃

:: Dimension

I-Button Type Doorlock
KDL-T1

:: Function

- Voice guide function
- Touch Key button
- Door open by RFID & Access code
- Panic function (One touch door open)
- Automatic re-locking function
- Double-lock function
- Auto-lock function
- Prank & theft prevention function
- Intrusion Alert
- Battery change alert function
- Alarm function for locking or unlocking fails

:: Specifications

- Open mode : RFID Card key and Access code
  (6 access code from 4 to 12 digit)
- Body Dimension : Out –77(W) x 280(H) x 32(D) mm
  In – 77(W) x 280(H) x 32(D) mm
- Body materials : Out/In - Zinc die casting with coating
- Power source : 1.5V Alkaline battery (AA size) X 8ea
- Operation temperature : -15℃ ~ 50℃

:: Dimension

Touch & RF-Card Type Doorlock
KDL-C3

:: Function

- Door open by Finger print & Access code
- Panic function (One touch door open)
- Automatic re-locking function
- Double-lock function
- Auto-lock function
- Prank & theft prevention function
- Intrusion Alert
- Battery change alert function
- Alarm function for locking or unlocking fails
- LCD Display

:: Specifications

- Open mode : Finger print and Access code
  (6 access code from 1 to 10 digit)
- Body Dimension : Out – 80(W) x 305(H) x 45(D) mm
  In – 80(W) x 278(H) x 40(D) mm
- Body materials : Out - Zinc die casting with coating
  In – Reinforced plastic with coating
- Power source : 1.5V Alkaline battery (AA size) X 8ea
- Operation temperature : -15℃ ~ 50℃

:: Dimension

Fingerprint Type Doorlock
KDL-F1

:: Function

- Voice guide function
- Door open by Finger print & RFID & Access code
- Panic function (One touch door open)
- Automatic re-locking function
- Double-lock function
- Auto-lock function
- Prank & theft prevention function
- Intrusion Alert
- Battery change alert function
- Alarm function for locking or unlocking fails

:: Specifications

- Open mode : RFID Card key and Access code
  (6 access code from 4 to 12 digit)
- Body Dimension : Out –72(W) x 280(H) x 32(D) mm
  In – 70(W) x 280(H) x 40(D) mm
- Body materials : Out/In - Zinc die casting with coating
- Power source : 1.5V Alkaline battery (AA size) X 8ea
- Operation temperature : -15℃ ~ 50℃

:: Dimension

Fingerprint Type Doorlock
KDL-F2

Home Network System
Home Automation System
Video Phone
Door Camera/Doorlock
Sub Device
Interphone & Door Phone
Ventilation System
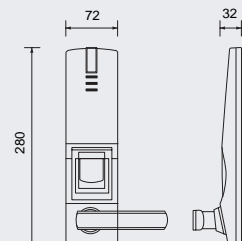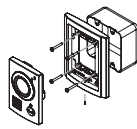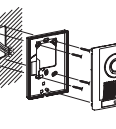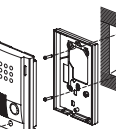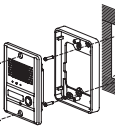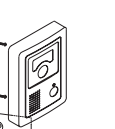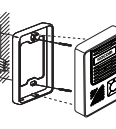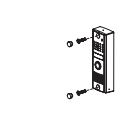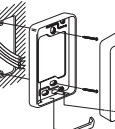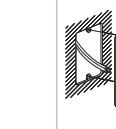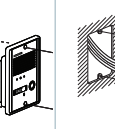
Door Camera Unit

KOCOM door camera has good durability for external environment and has been loved by stylish design and easy installation in the world.

※ Dimension is different according to models
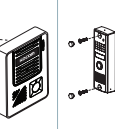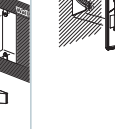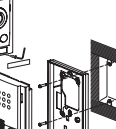(Unit : mm)

Installation of outdoor station
After fixing the rear bracket on the wall with 2 screws, put the Door Camera into the grooves of rear bracket, and then fix it with screws and stick the finishing materials.

	Color												B / W						
Model	KC-C71	KC-MC30	KC-MC32	KC-MC31	KC-MC24	KC-MC22	KC-C60	KC-C62	KC-MC35	KC-MC20	KC-MC11	KC-B61	KC-C63	KC-D20	KC-D33	KC-MB20	KC-MB30	KC-MB31
Wiring	4Wire	4Wire	2Wire	4Wire	4Wire	2Wire	4Wire	2Wire	4Wire	4Wire	2Wire	4Wire						
Power	12V± 1V (power from monitor)											12V± 1V (power from monitor)						
Power consumption	Max. 2.5W											Max. 2.5W						
Assurance temperature	-20℃ ~ +50℃											-20℃ ~ +50℃						
Image format	270,000 (EIA) / 320,000 (CCIR) pixels											270,000 (EIA) / 320,000 (CCIR) pixels						
TV system	NTSC / PAL											NTSC / PAL						
Lens	F:2.0, f=3.6mm											F:2.0, f=3.6mm						
Camera angle	120˚	120˚ (Angle Abjustabel)		90˚			120˚		90˚	90˚ (pinhole)		120˚	120˚	90˚ (pinhole)	90˚ (pinhole)	90˚ (pinhole)	120˚ (Angle Abjustabel)	90˚
Body	Plastic	Metal A/L		Metal A/L			Plastic		Metal A/L	Metal A/L		Plastic		Metal A/L	Metal A/L	Metal A/L	Metal A/L	
Mim. illumination	0.1 lux on the object (IR LED ON)											0.1 lux on the object (IR LED ON)						
Mount type	Flush mount	Surface mount		Surface mount						Flush & Surface mount		Surface mount				Flush & Surface mount	Surface mount	
Door lock connection	Monitor	Camera					Monitor		Camera		Camera	Camera		Monitor		Camera		
Dimension	89(W)X131(H)x13(D) 125(W)X160(H)x17(D)	110(W)X158(H)x39(D)		110(W) x 158(H) x 34(D)	95(W)X127(H)x34(D)		95(W)X127(H)x32(D)		96(W)X127(H)x32(D)	40(W) x 120(H) x 22(D)		95(W)X127(H)x34(D)		95(W)X127(H)x33(D)	96(W)X127(H)x32(D)	40(W) x 120(H) x 22(D)	110(W)X158(H)x39(D)	
Monitor Connection	KHN-970, KHN-971,KHN-973, KHN-880, KHN-881, KHN-883, KHN-870, KHN-871, KHN-873, KHV-478, KHV-458, KCV-358, KCV-J351, KCV-C374	KCV-A374, KCV-301, KCV-802R, KCV-D802R, KCV-801R, KCV-D801R, KCV-801, KCV-D801,	KCV-A372, KCV-D372, KCV-352, KCV-D352	KCV-A374, KCV-301, KCV-802R, KCV-D802R, KCV-801R, KCV-D801R, KCV-W354, KCV-DW354	KCV-A374, KCV-301, KCV-802R, KCV-D802R, KCV-801R, KCV-D801R, KCV-W354, KCV-DW354	KCV-A372, KCV-D372, KCV-352, KCV-D352	KCV-J351, KCV-A374, KCV-W354, KCV-DW354, KIV-212, KIV-D212, KCV-A374, KCV-301, KCV-802R, KCV-D802R, KCV-801R, KCV-D801R	KCV-A372, KCV-D372, KCV-352, KCV-D352	KCV-A374, KCV-301 KCV-W354, KCV-DW354 KCV-D801R, KCV-J351, KCV-A374, KIV-212, KIV-D212, KCV-802R, KCV-D802R, KCV-D802R, KCV-801R, KCV-801R, KCV-802R, KCV-801R, KCV-D801R	KCV-A374 KCV-301 KCV-W354, KCV-DW354, KIV-212, KIV-D212	KCV-A372, KCV-D372, KCV-352, KCV-D352	KIV-102, KIV-D102, KVM-520, KVM-D520, KVM-301, KVM-604	KIV-102, KIV-D102	KVM-520, KVM-D520 KVM-301, KVM-604	KIV-102, KIV-D102, KVM-301,	KIV-102, KIV-D102, KVM-604, KVM-301, KVM-D301	KVM-301, KVM-D301	
Wiring Mount Type																		

Home Network System
Home Automation System
Video Phone
Door Camera/Doorlock
Sub Device
Interphone & Door Phone
Ventilation System

HOME MANAGER Since 1976

Bathroom Phone
Kitchen TV Video Phone
Subphone
Extension

Premium Home Automation System leading stability, convenience and refreshment

KOCOM's peripherals consist of a household monitor (a wallpad), a lobby phone, a kitchen video phone, a sub-video phone, a bathroom phone and a door lock, and KOCOM's various replicators have been developed, manufactured and supplied home and abroad.

KTD-512MR
7" Color LCD Kitchen TV Videophone

KSP-270
7" Color Sub Videophone

KTD-520 / 511
10.2" / 7" Color LCD Bathroom TV Videophone

SUB DEVICE

Home Network System

Home Automation System

Video Phone

Door Camera / Doorlock

Sub Device

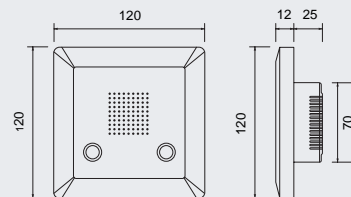Interphone & Door Phone

Ventilation System

:: Sub Device

:: Specifications

- Power : DC 12V (Power from Wall-Pad)
- Communication System : Handsfree type
- Mount Type: Flush mount
- System : Call- 1Circuit, Emergency- Circuit
- Dimension(mm) : 120(W)×120(H)×12(D)
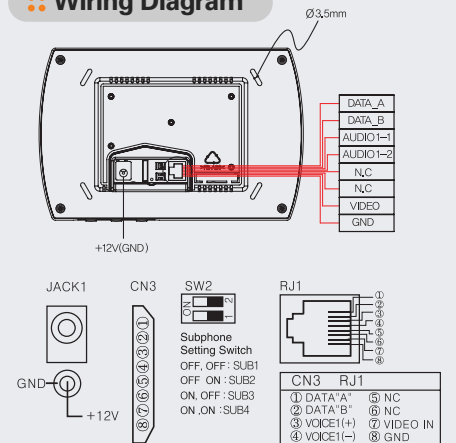- Back Dimension(mm) : 70.5(W)×70(H)×25(D)

:: Wiring Diagram

1 : Call
2 : N.C
3 : Call
1.D1   5.N.C
2.D2   6.N.C
3.A1_1   7.12V
4.A1_2   8.GND

:: Dimension

120
12 25
120
120
70

Bathroom Videophone
KBP-105

- Emergency Call
- Flush mount Type
- Water proof cover
- Telephone Function

:: Specifications

- Power : DC 12V / 1A
- Power consumption: Stand by 3W, Max. 7W
- Mount Type : Flush mount
- Control System : Accumulation Program Control system
- Communication System : Handsfree type
- Wiring : 8 Wire and RS-485 (using RJ-45)
- Dimension (mm) : 224(W)X146(H)X18(D)
- Back Dimension : 157(W)X162(H)X100(D)

- Call & Communication with visitor
- Door open function

Sub Videophone
KSP-230

- 4″ LCD Display Handsfree Type
- Call & Communication with visitor
- Call & Communication with resident
- Door open function
- Common gate (Lobby phone) / Door Open
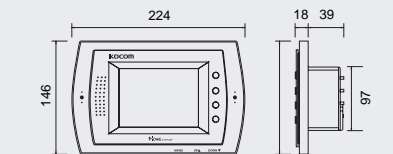- Guard Master Call
- Emergency Call

:: Wiring Diagram

Ø3.5mm

DATA_A
DATA_B
AUDIO1–1
AUDIO1–2
N.C
N.C
VIDEO
GND

+12V(GND)

JACK1   CN3   SW2   RJ1

GND

+12V

Subphone
Setting Switch
OFF, OFF : SUB1
OFF , ON : SUB2
ON, OFF : SUB3
ON ,ON : SUB4

CN3   RJ1
① DATA"A"   ⑤ NC
② DATA"B"   ⑥ NC
③ VOICE1(+) ⑦ VIDEO IN
④ VOICE1(−) ⑧ GND

:: Dimension

224
18 39
146
97

:: Specifications

- Power : DC 12V / 1.2A
- Power consumption : KTD-520 : 24W / KTD-511 : 18W
- LCD : KTD-520 : 10.2″Color Digital LCD
        KTD-510 : 7″ Color Digital LCD
- Monitor Resolution : KTD-520 : 1024(H)X600(V)
        KTD-511 : 800(H)X480(V)
- Communication System : Handsfree type
- Mount Type: Flush mount
- Network Connect : Home Automation & Home Network (Option)
- Reception Channel : General Broadcasting : 1～68ch /
  Cable Broadcasting : 1～125ch
- Dimension (mm) : KTD-520 Body : 305(W)×259(H)×34(D)
        Box : 260(W)×200(H)×80(D)
        KTD-511 Body : 235(W)×220(H)×34(D)
        Box : 190(W)×176(H)×80(D)

:: Wiring Diagram

① TV ANT : FB-5C TV Antenna Connect
② FM ANT : FB-5C TV Antenna Connect
③ H/A : Home Automation & 485
   INTERFACE Using RJ-45
④ TEL : RJ-45 Connect
⑤ Power supply : DC 12V Input

:: Dimension

KTD-520
305
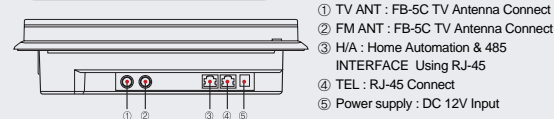34 39
259
259

KTD-511
235
34 39
220
220

Remote Controller

TV Videophone
KTD-520
KTD-511

- 10.2"(KTD-520) / 7"(KTD-511) Color LCD
- Auto Scanning for TV & Radio
- EPG (Broadcast information) / OSD Menu /
  Auto Adjustment / Stereophonic Sound / External Input (Option)
- Telephone Function / Handsfree phone
- Communication front Door / Common Gate (Lobby Phone)
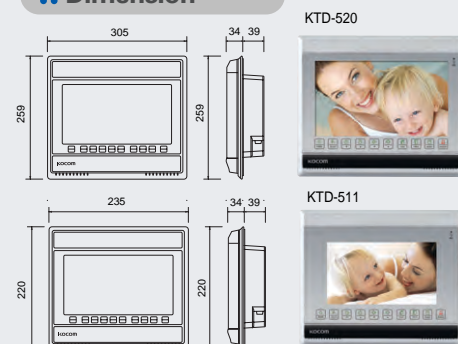 Door Open / Guard master Communication / Visitor Check
- Water proof cover (IP: 65)

:: Specifications

- Power: DC 12V / 3A
- Power consumption : 12W
- LCD : 7″Color Digital LCD
- Mount Type: Flush mount
- Communication System : Handsfree type
- Dimension : 268(W)×168(H)×103(D)mm
        27mm Surface
- Box (mm) : 240(W)×191(H)×92(D)mm

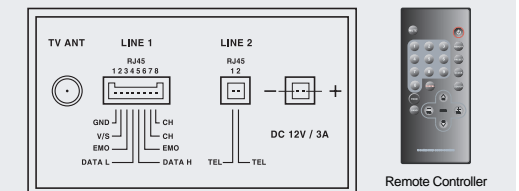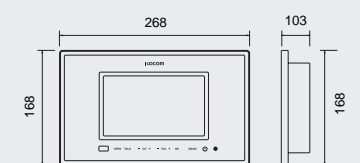### Bathroom TV Videophone
KSP-270

- 7" Color LCD
- Telephone Function
- Room to door communication and Monitoring
- Water proof cover(IP65), Touch Switch Type
- Emergency Call
- TV Function – Standard Broadcast
- Angle Adjustment (Monitor Left 90˚ / Right 90˚)
- Front Door Call / Door open
- Guard Office Room Call / Door open

:: Wiring Diagram

TV ANT   LINE 1   LINE 2
RJ45   RJ45
12345678   12

GND
V/S   CH
EMO   CH
DATA L   EMO
          DATA H   TEL   TEL

DC 12V / 3A

Remote Controller

:: Dimension

268
103
168
168

Home Network System

Home Automation System

Video Phone

Door Camera /Doorlock

Sub Device

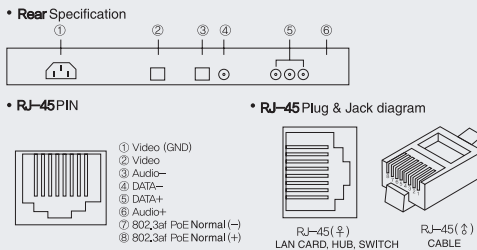Interphone & Door Phone

Ventilation System

▪▪ Sub Device

Kitchen TV Videophone
KTD-70B
KTD-70T

- ■ 7" Wide Color LCD
- ■ Touch Screen
- ■ FM Radio /TV Function
- ■ Analog and Digital TV
- ■ Communication between Front door and Monitoring / Common gate (Lobby phone)/ Door Open
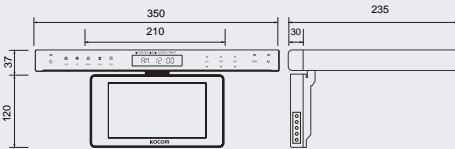- ■ Auto Selecting / Memory Frequency
- ■ Handsfree Communication

Remote Controller

▪▪ Specifications

- Power : AC100V ~ 240V 50 / 60Hz, 20W
- LCD : 7″ Color Digital LCD
- Viewing Angle : Horizontality Angel : 55 °, Vertical Angel : Top 35 °, Bottom 15 °
- Antenna Input : 75Ω F-Type
- Frequency : FM : 88MHz ~ 108MHz
- Channel : Standard Broadcast : No.2 ~ No.69, CATV : No.2 ~ No.125
- Transmission system : NTSC - M (PAL - M)
- Network Connect : Home Automation & Home Network (Option)
- Color : Black, Silver
- Dimesion (mm) : Body-350(W)×37(H)×235(D)
  Monitor-210(W)×120(H)×30(D)

▪▪ Wiring Diagram

* Rear Specification

* RJ-45 PIN

① Video (GND)
② Video
③ Audio~
④ DATA-
⑤ DATA+
⑥ Audio+
⑦ 802.3af PoE Normal (~)
⑧ 802.3af PoE Normal (+)

* RJ-45 Plug & Jack diagram

RJ-45(우)
LAN CARD, HUB, SWITCH

RJ-45(숫)
CABLE

▪▪ Dimension

350
210
235
37
120
30

Kitchen TV Videophone
KTD-512MR
KTD-510MR

- ■ KTD - 512MR : 10.2" Color LCD
  KTD - 510MR : 7" Color LCD
- ■ TV Function (Digital & Cable Receive) / FM Radio
- ■ EPG (Broadcast information) / OSD Menu / Auto Adjustment / Stereophonic Sound / External Input (Option)
- ■ Telephone Function / Handsfree phone
- ■ Front Door / Common gate Door Open Function
- ■ Guard Master / Visitor image Function

▪▪ Specifications

- Power : AC100V ~ 240V 50 / 60Hz
- Internal Power : KTD-512MR : 24W, KTD-510MR : 18W
- LCD : KTD-512MR : 10.2″ Color Digital LCD, KTD-510MR : 7″ Color Digital LCD
- Monitor Resolution : KTD-512MR : 1024(H)X600(V)
  KTD-510MR : 800(H)X480(V)
- Speaker Output : 2.5W 2CH
- Contrast Ratio : 400:1
- Network Connect : Home Automation & Home Network (Option)
- Channel : Standard Broadcast : NO.1-68/ CATV : No.1-125
  FM : 87.5~108MHz
- Dimension(mm) : Body - 320(W)×35(H)×225(D)
  KTD-512MR : Monitor - 283(W)×167(H)×28(D)
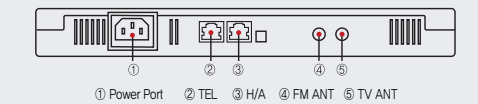 KTD-510MR : Monitor - 207(W)×120(H)×28(D)

▪▪ Wiring Diagram

① Power ② TEL : RJ-45 Connect ③ H/A : Home Auto, 485 INTERFACE RJ-45 Connect ④ FM ANT : FB-5C TV Radio Connect ⑤ TV ANT : FB-5C TV Antena Connect

▪▪ Dimension

320
207
225
35
120
28
KTD-510MR

283
167
28
KTD-512MR 모니터
(본체 KTD-510MR과 동일)
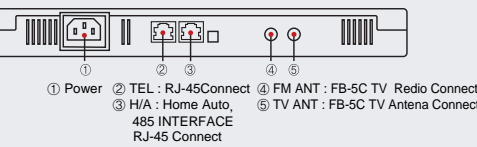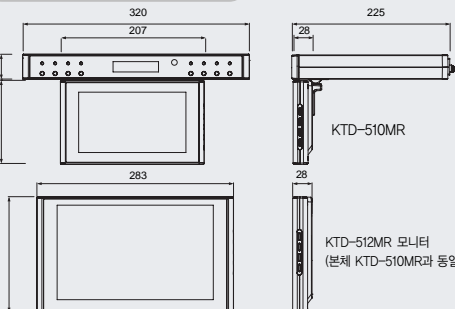
Kitchen TV Videophone
KTD-512TB
KTD-510TB

- ■ KTD - 512MR : 10.2" Color LCD
  KTD - 510MR : 7" Color LCD
- ■ TV Function (Digital & Cable Receive) / FM Radio
- ■ EPG (Broadcast information) / OSD Menu / Auto Adjustment Stereophonic Sound / External Input (Option)
- ■ Telephone Function / Handsfree phone
- ■ Front Door / Common gate Door Open Function
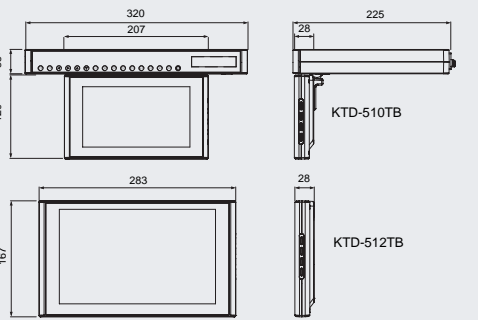- ■ Guard Master / Visitor image Function

Remote Controller (공통 구성품)

▪▪ Specifications

- Power : AC100V ~ 240V 50 / 60Hz / 8W
- Internal Power : KTD-512TB : 24W, KTD-510TB : 18W
- LCD : KTD-512TB : 10.2″ Color Digital LCD
  KTD-510TB : 7″ Color Digital LCD
- Resolution: KTD-512TB : 1024(H)X600(V)
  KTD-510TB : 800(H)X480(V)
- Speaker Output : 2.5W 2CH
- Contrast Ratio : 400:1
- Network Connect : Home Automation & Home Network (Option)
- Channel : Standard Broadcast : NO.1-68/ CATV : No.1-125
  FM : 87.5~108MHz
- Dimension(mm): Body - 320(W)×35(H)×225(D)
  KTD-512TB : Monitor - 283(W)×167(H)×28(D)
  KTD-510TB : Monitor- 207(W)×120(H)×28(D)

▪▪ Wiring Diagram

① Power Port ② TEL ③ H/A ④ FM ANT ⑤ TV ANT

▪▪ Dimension

320
207
225
35
120
28
KTD-510TB

283
167
28
KTD-512TB

IrDA Generator
KP-IR100

Remote Controller
RH29

▪▪ Specifications

KP-IR100

- Dome Housing Type Surface Mount
- IR Emission : Omni-Direction
- IR Code Form : Toshiba 37.9KHz
- Universal Remote Control Code for total Home Appliance built-in (TV, DVD, Air conditioner and etc)
- IR Code Learning Function Supply (5 device, 5 Commander per Device)
- Communication : IR (Infrared ray), RS-485
- Power : DC 5V~12V
- Main Controlled Device
  1) Intelligence Appliance : TV, Air Conditioner DVD, VTR etc
  2) Home Control Device : Lighting Switch Motor Curtain, Gas Valve etc

RH29

- Communication : IrDA Function
- Home Appliance Control : Air Conditioner, TV, Audio / Video Channel & Volume Control
- Lighting Switch Control : (Each / All) Power ON/OFF
- Motor Curtain Control : Open, Close, Stop, Total Control
- Gas Valve Control : Gas Valve Close, Motor Curtain Gas Valve etc

Home Network System
Home Automation System
Video Phone
Door Camera / Doorlock
Sub Device
Interphone & Door Phone
Ventilation System

Sub Device

Security Sensor

Gas leakage Sensor/ Motion Sensor / Fire Sensor / Burglar sensor

For an emergency, it is a security sensor to send a detection signal and notify an emergency situation to a designated contract point like a guardhouse through interlocking a terminal (a wallpad) with a security sensor.

Gas leakage Sensor

Gas Valve

Motion Sensor

Fire Sensor

Burglar sensor

:: Gas leakage Sensor

- Power : DC 12V (Powered from Wall-Pad)
- Power consumption : 1.3W
- Installation Place : LNG - Top 30cm / LPG - Floor 30cm
- Gas Alarm : LNG - 0.06 ~ 1.25% / LPG - 0.06 ~ 0.45%
- Information Display : Yellow Lamp Blink, Emergency Sound
- Warning Output : DC10V
- Warning Volume : 70dB
- Dimension (mm) : 70(W)×96(H)×35(D)

:: Gas Breaker / Gas Controller

- Block Method : Auto Gear system
- Torgue (Max) : 65kgf.cm
- Block Speed : less than 8sec
- Pressure : Low Pressure (0.1Kg / ㎠)
- Durability : more than 6,000
- Drive Control Method : Motor Limited S/W
- Switchgear : Manual & Remote system
- Standard : 20A
- Weight : 180
- Installation Place : Kitchen

:: Motion Sensor

- Power : DC 9.5V ~ 18V
- Display LED : Normal LED off, Detect LED On
- Consumption Current : 18mA
- Detect distance : 10m
- Installation Place : Front, Back Porchπ◊ Living Room
- Dimension (mm) : 70(W)×99(H)×45(D)
- Detect Angle : Front view 100 °
- Bracket (mm) : 120(W)X82(H)

:: Fire Sensor

- Installation Place : Kitchen

:: Burglar sensor

- Installation Place : Font Door, Window
- Dimension (mm) : 50(W)×13.5(H)×15(D)

Curtain System

Curtain Motor / RF Remote Controller / Curtain Switch

It is a lighting switch that it is possible to control the lighting with remote control on web by interlocking with home network of a household.

KSR-4200   KSR-4301   KSR-4300

:: KAR-4000

- Input : AC 100~250V / 50~60Hz
- Output : DC 24V (Built-In Adaptor)
- Electric Consumption : 38W during operating
- Communication System : Wireless : 1way
  2way RF, H/N : RS-485
- Speed control Range : 10 Levels
- Open/Close Speed : 25 cm/sec
- Max.Rail Length : 12Meter / Single, 20Meter / Tandem
- Max. Curtain Weight : 60kg / Single, 90kg / Tandem

- **Dimension**
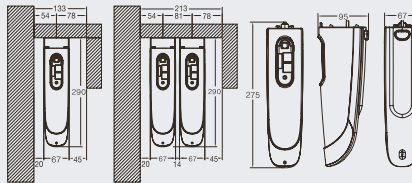
:: KSR-4301/4300

- Tilting function : You can control blinds tilting only
  by pushing button
- Buzzer Sound / Mute : You can check the opened and closed
  status of up to 8 curtains in real time through the LCD screen.
- Percentage Unit Control : You can control curtain or blind by
  percentage unit.
- RF Communication : You can control in any place
  regardless of obstacles
- 1 or 4 Channels : You can control 4 motors separately
  and collectively

:: KSR-4200

- No Need Wiring :You can Easily attach it to the Desired Location
  without the need of Connecting Cables
- RF Communication :   You can Control in any place
  Regardless of Obstacles
- 2 Channels : You can Control 2 Motors Separately & Collectively.
- Wide Usage : You can use Wall Switch in Parallel
  with Remote Controller

■ Sub Device

Lighting Switch

Lighting & Dimming Switch / Lighting & Dimming Control Equipment

It is a lighting switch that it is possible to control the lighting with remote control on web by interlocking with home network of a household.

:: KV-0404

- Realization of both Dimming and Turn-on / off Functions
  Graceful Interior mood through various lighting and Scene Formations
  Mode Control (common duty / Home theater / Movie Watching / Energy saving / Sleep Mode, etc.)
- Remote controlling through a remote controller & Home Net (Optional)
- Power : AC 90V~240V, 50/60Hz
- Control circuit : Dimming & On/Off 4 circuit
- Load Capacity
  -Dimming Circuit 2000W (Max. 1000W each circuit)
  -Turn on / off Circuit 2000W (Max. 500W each circuit)
- Dimming Load
  -Incandescent Lamp, Magnetic low voltage Halogen Lamp
  -Fluorescent Lamp (with Dimming Ballast)
- Dimension : Flush box (built-in), Box size : 221(W) x 129.2(H) x 62(D)mm
  Body : 195(W) x 120(H) x 8.5(D)mm
- Options -Interface Functions (3circuits RS-485 Communication)

:: KL-0400 / 0602 / 0800

- Realization of both Dimming and turn-on/off Functions
- Graceful Interior mood through Various Lighting and Scene Formations
- Mode Control (Common duty / Energy Saving / Sleep Mode, etc.)
- Remote Controlling through a Remote Controller & Home Net (Optional)
- All Dimming & Turn-on/off Control, On/off on Demand on Time.
- Circuit - KL-0400 : Dimming & On / Off 4 Circuit
            KL-0602 : Dimming 6 Circuit & On / Off 2 Circuit
            KL-0800 : Dimming & On / Off 8 Circuit
- Power : AC 110V~240V, 50/60Hz
- Load Capacity : KL-0400 : 300W per Circuit, KL-0800 : 1KAV per Circuit
- Dimmable Lighting : IL, Halogen (Dimmable), FL (with Dimmable Ballast)
- Dimension : Flush Box (built-in), Box Size : 172(W) x 102(H) x 75(D)mm
  Body : 172(W) x 102(H) x 8(D)mm

Lighting Switch

Lighting Switch 1 / Switch 2 / Switch 4 / Switch 5 / Switch 6 / Switch 7

It is a lighting switch that it is possible to control the lighting with remote control on web by interlocking with home network of a household.

KV-3011 KV-5014

KV-3012 KV-5021

:: Lightg Switch

- Power : AC 220V
- Communication Type : RS-485
- Installation Place : Wall
- Dimension (mm) : Lighting Switch 1 /
  Switch2 - 78(W)×120(H)×46(D)
  Lighting Switch 4 / Switch 5 / Switch 6 /
  Switch 7 - 124(W)×120(H)×41(D)

Emergency Switch

It is a switch to send a signal for an emergency inside of a household and to inform the emergency situation to the outside.

:: Emergency Switch

- Power : Relay system
- Flush Box : Switch 1 BOX
- Installation Place : Wall
- Option: Contacting to Wall Pad and Guard Master
- Dimension (mm) : 78(W)×120(H)×46(D)

Home Network System

Home Automation System

Video Phone

Door Camera / Doorlock

Sub Device

Interphone & Door Phone

Ventilation System

HOME MANAGER Since 1976

Ubiquitous Leader- **KOCOM**

Interphone & Doorphone

KOCOM interphone and doorphone have been exported to all over the world as well as a domestic market because of its merits of easy installation and convenient use.

KOCOM has developed and manufactured the Interphone and Doorphone with voice quality of high reliability for communication based on automated high-tech manufacturing facilities and supplied overseas and domestic.
KOCOM has various functional product groups for customized installation place such as a house, a commercial building, an office and etc., and it is easy and convenient for a customer to install and operate them.

K2B-PS02J-WN
K2B Phone System

K2B-PT12J-WN
K2B Multiple Interphone & Doorphone

IP-201P
Duplex Interphone

INTER PHONE ❋
& DOOR PHONE

Interphone & Doorphone

2 Wire Digital Bus

With only 2 Wires, anyone can insrall it easily
All K2B items can be compatible with each other

KOCOM 2 Wire Digital Bus

K2B Series

- Easy & Simple Installation with digital 2 Wires
- 2 wire non-polarity including Power Supply
- Long distance communication.(Up to 500mm)
- Unlimited unit extension (Using K2B repeater)
- Multiple Apartment, Villa, Condominium, Office, Bank and Hospital

All K2B items can be compatible with each other.

- Intercom function (All K2B)
- Calling between household
- Group setting and Paging function
- Door open function.(All K2B)
- 1:1, 1:N call function

1EA 20EA Unlimited
0Km
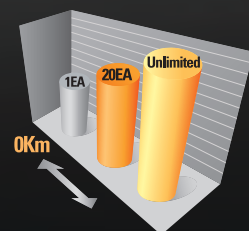
KOCOM 2 Wire Bus System

Multiple Interphone & Doorphone K2B-PM20J-WN

- Intercom function
- Door open function & Lobby Door Open function
- Calling between household
- Group setting and Paging function
- Guard master function

KOCOM 2 Wire Bus System

Multiple Interphone K2B-PT12J-WN

- Intercom function
- Common gate Communication & Door open
- Calling between household
- Outdoor pannel Communication(DS-2D)
- Call & Communication with resident

Specifications

- Power : DC 24V (Power from common power supply)
- Power consumption : Stand by 1.5W, Max. 4W
- Wiring : 2wire (Non Polarity)
- Max. wiring distance : CAT5 Max 500m
- Communication System : Handset type
- Mount type : Surface mount or desktop
- Dimension (mm) : 175(W) x 173(H) x 38(D)

Dimension

175 38 173

Wiring Diagram

Non-polarity

Phone System
K2B–PM20J–WN
K2B–PS02J–WN
K2B–PT12J–WN

Specifications

- Power : DC 24V (Power from common power supply)
- Power consumption : Stand by 1.5W, Max : 4W
- Wiring : K2B Line -2wire (Non Polarity)
         Outdoor pannel (Non Polarity)
         Door opener (Non Polarity)
- Max. wiring distance : CAT5 Max 500m
- Communication System : Handset type
- Mount type : Surface mount or desktop
- Dimension (mm) : 140(W) x 175(H) x 39(D)

Dimension

140 39 175

Wiring Diagram

Non-polarity BY DS-2D

Lobby System
K2B–LA12J–SN
Phone System
K2B–PM20J–WN
K2B–PS02J–WN
K2B–PT12J–WN

DC Door Opener
P.S

Interphone & Doorphone

Specifications

- Power : DC 24V (Power from common power supply)
- Power consumption : Max. 1.5W, Stand by 4W
- Wiring : K2B Line -2wire (Non Polarity)
-          Max. wiring distance : CAT5 Max 500m
- Communication System : Handset type
- Mount type : Surface mount
- Dimension (mm) : 92(W) x 176(H) x 57(D)

Dimension

92   52

176   176

Wiring Diagram

K2B BUS Line

Non−polarity

Lobby System
K2B−LA12J−SN
Phone System
K2B−PM20J−WN
K2B−PS02J−WN
K2B−PT12J−WN

DIP Swich (ID)

KOCOM 2Wire Bus System

Phone System

K2B-PS02J-WN

- ■ Intercom function
- ■ Door open function
- ■ Common gate Communication & Door open

New
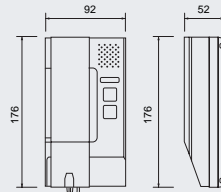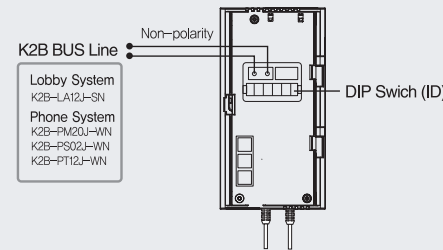
Specifications

- Power : DC 24V
- Power consumption : Stand by 3W, Max. 9W
- Wiring : 2wire (Non Polarity)
- Mount type : Flush mount
- Communication System : Handsfree type
- Assurance temperature : -10℃~ +50℃
- Dimension (mm) : 122(W) x 255(H) x 23.5(D)
  Box (mm) : 101(W) x 223(H) x105(D)

Dimension

122   23.5   45

255   255

Wiring Diagram

DC 24V Adaptor

Polarity

Non−polarity

Non−polarity

DC 24V Adaptor

Power Supply

K2B Phone System

K2B Phone System Line

K2B Phone System Line

DC Door opener

DC Door Lock

FG Wire
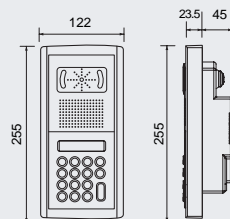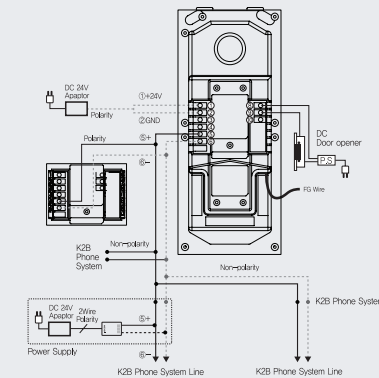
KOCOM 2Wire Bus System

Lobby System

K2B-LA12J-SN

- ■ Door open function
- ■ Door open function by access code
- ■ Call & Communication with resident
- ■ Keypad backlight function

New

System Diagram

All **K2B items** can be compatible with each other
(No needs extra power connection)

Wiring
2Wire non polarity

Up to 20

2wire non polarity

Villa, Condominium and Single house

Option

Guard Master

2wire non polarity

2wire non polarity

2wire non polarity

2wire non polarity

2wire non polarity

Multiple Apartment

Unlimited

K2B Repeater

K2B-RF

Up to 10

Unlimited

Up to 10

Up to 10

Up to 10

Up to 10

Door 1

PS

DC Door Lock (Adapter)

2wire non polarity

2wire non polarity

Door 2

2wire non polarity

PS

DC Door Lock (Adapter)

Home Release System
Home Automation System
Video Phone
Door Camera / Doorlock
Sub Device
Interphone & Doorphone
Ventilation System

Interphone & Doorphone

Multiple Lobbyphone

KDP-100

KDP-104/KDP-108/KDP-112

- Upto 4 Houses (KDP-104), upto 8 Houses (KDP-108), upto 12 Houses (KDP-112)
- Upto 450 Houses Connection (KDP-100)
- Communication with Guard Master (KDP-100)
- Door Open Function by Access Code (KDP-100)
- Firm Metal Body Case with New Modern design
- Upto 4pcs of Common Gate Panels Connection in a Building

Multiple Doorphone

KIP-603

- For Multi Apartment, Condominium & villa System, upto 450 Houses are Available
- Up to 3 Indoor Extension in a House
- Internal Call & Conversation Function between Extended Indoor units in a House
- Audio Conversation with Visitor
- Door Open (Common gate) Function
- Call & Conversation Function with Guard Master (KIP-120)

Specifications

- Power : DC 17V ±2V (power from common power supply)
- Power consumption : Stand by 1W, Max. 2W
- Wiring : 5wire (common wiring)
- Max. wiring distance : Ø0.8 single cable : 300m
- Mount type : Flush mount
- Assurance temperature : -20℃~ +50℃
- Dimension (mm) : 122(W) x 255(H) x 23.5(D)
  Box (mm) : 101(W) x 223(H) x105(D)

Dimension

Wiring Diagram

Specifications

- Power : DC 17V ±2V (power from common power supply)
- Power consumption : Stand by 1W, Max. 2W
- Wiring : 5wire (common wiring)
- Max. wiring distance : Ø0.8 cable : 300m
- Mount type : Surface mount
- Assurance temperature : 0℃ ~ +50℃
- Dimension (mm) : 92(W) x 210(H) x 57(D)

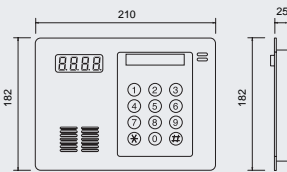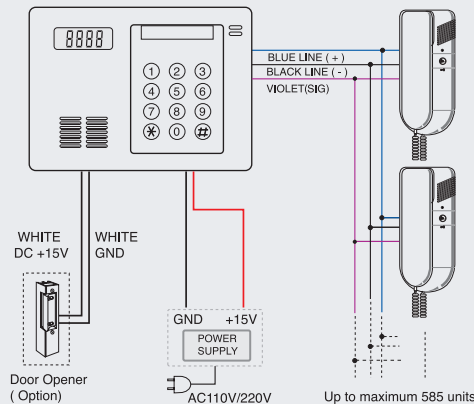## Dimension

Wiring Diagram

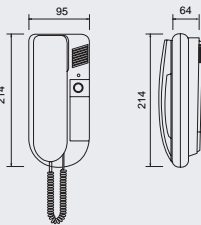## System Diagram

Multiple Apartment, Villa, Condominium

Lobbyphone Series

KDP-100 KDP-104 KDP-108 KDP-112

Option

KIP-120

Accessory

Sunvisor SV50   Name Index KLP-N150   Power Supply PS-MS(15V)
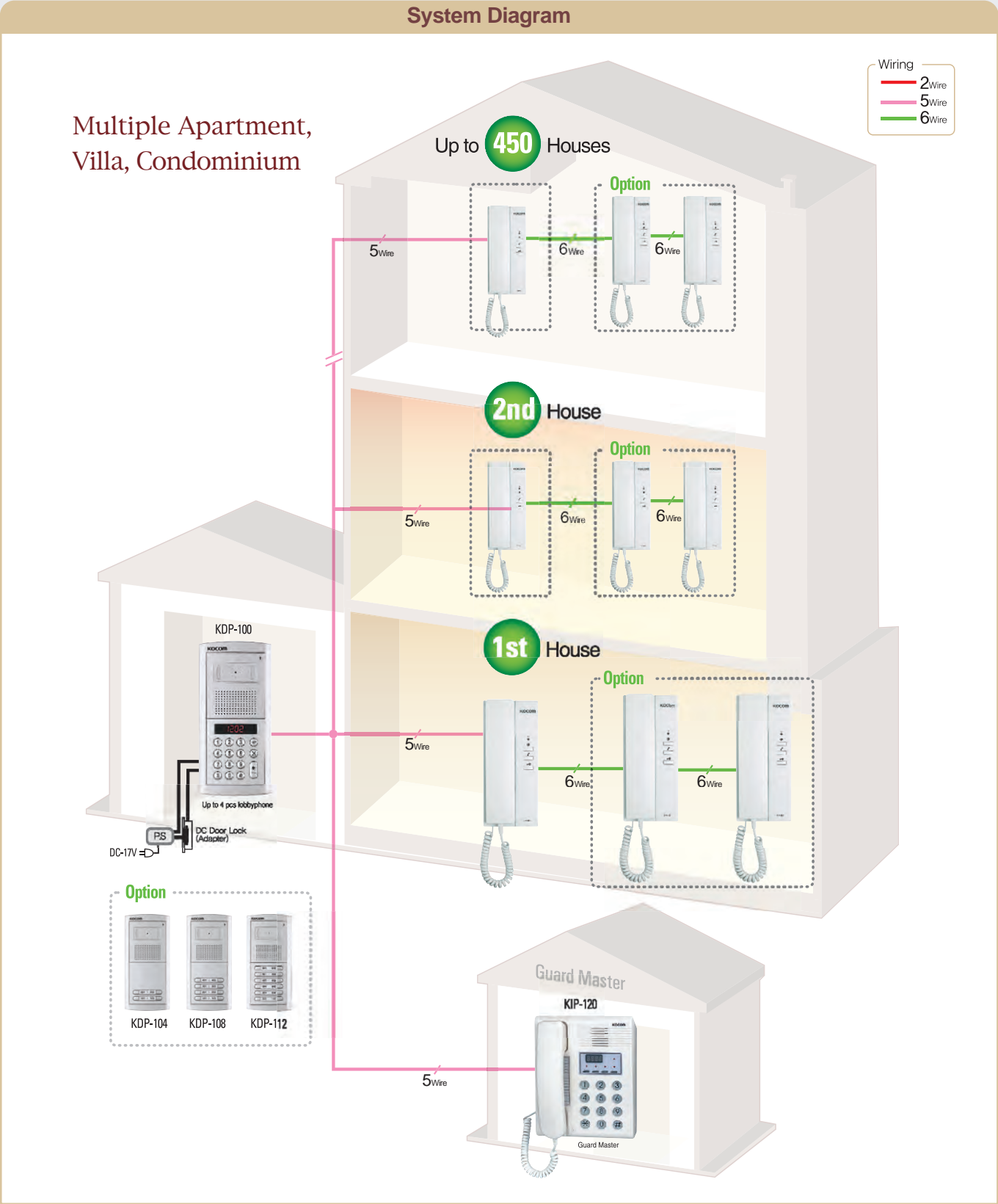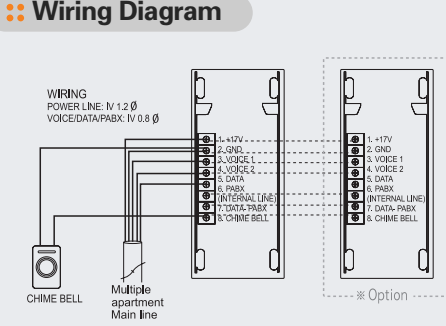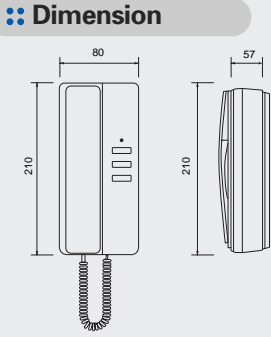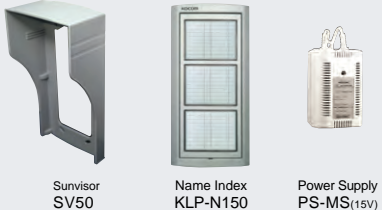
Interphone & Doorphone

Multiple Doorphone

KDP-603

- Communication with door panel (DS-2D) & common gate panel (KDP-100, KDP-104, KDP-108 or KDP-112)
- Guard Master Phone (KIP-120) call & communication
- House no. setting --> DIP SW setting
- KDP-603 : powered from common power (additional adaptor is necessary per 10pcs for audio door phone system)
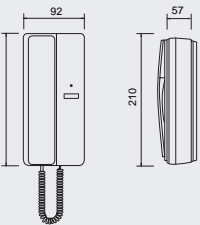- Door release function during communication with common gate panel or door panel
- Common 5 wire type (Power, GND, Voice1, Voice2, Data) wiring

Guard Masterphone

KIP-120

- Call & Communication Function with Resident & Extended KIP-120 (Up to 10pcs in a system)
- Call cancel function (cancel button)
- Each Tenant LINE Check Function
- Communication with 10key type Common Gate Panel (KDP-100) (When it is Called from KLP-C100, KLP-100, KLP-P100 or KDP-100)
- Door Open

:: Specifications

- Power : DC 17V±1V (power from common power supply)
- Power consumption : Stand by 1W, Max. 2W
- Wiring : 5wires (common wiring)
- Max. wiring distance : Ø0.8 cable : 300m
- Mount type : Surface mount
- Assurance temperature : 0℃ ~ +50℃
- Dimension (mm) : 92(W) x 210(H) x 57(D)

:: Dimension

80 57

210 210

:: Wiring Diagram

WIRING
POWER LINE: IV 1,2 Ø
VOICE/DATA/PABX: IV 0,8 Ø

1. +17V
2. GND
3. VOICE 1
4. VOICE 2
5. DATA
6. PABX (INTERNAL LINE)
7. DATA-PABX
8. CHIME BELL

Multiple apartment Main line
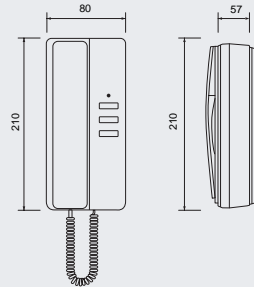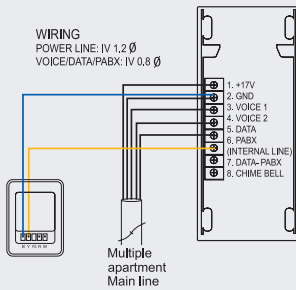
:: Specifications

- Power : DC 17V±1V (power from common power supply)
- Power consumption : Stand by 2W, Max. 5W
- Wiring : 5wires (common wiring)
- Max. wiring distance : Ø0.8 single cable : 300m
- Mount type : Surface mount
- Assurance temperature : 0℃ ~ +50℃
- Dimension (mm)165(W) x 220(H) x 80(D)

:: Dimension

165 80

220 220

:: Wiring Diagram

① +17V ± 1V
② GND
③ Call1
④ Call2
⑤ N.C
⑥ DATA

KDP-100

6Wire polarity
1. +17V
2. GND
3, Call
4, Call
5,N.C
6, DATA

Terminal Box

5Wire
1, +17V
2, GND
3, Call
4, Call
5,N.C
6, DATA

House(Wire)

:: System Diagram

Wiring
2 Wire
5 Wire
6 Wire

Multiple Apartment, Villa, Condominium

Up to **450** Houses

Option
DS-2D MS-2D
Or

5 Wire 2 Wire

2nd House

Option
DS-2D MS-2D
Or

5 Wire 2 Wire

1st House

KDP-100

Option
DS-2D MS-2D
Or

5 Wire 2 Wire

Up to 4 pcs lobbyphone

DC-17V PS DC Door Lock (Adapter)

Option
KDP-104 KDP-108 KDP-112

Guard Master
KIP-120

5 Wire

Guard Master

:: Lobbyphone Series

KDP-100 KDP-104 KDP-108 KDP-112

:: Option

KIP-120

:: Accessory

Sunvisor SV50

Name Index KLP-N150

Power Supply PS-MS(15V)

HOME MANAGER Since 1976

:: Interphone & Doorphone

Multiple Doorphone
KDP-205

Common Gatephone
KLP-1000

Multiple Doorphone
DP-203HA

Multiple Doorphone
KDP-601A

:: Function

- For multi Apartment, Condominium & Villa System, upto 585 Houses are Available
- Audio Communication with visitor
- Door Open (Common gate) Function
- Call & Communication function with Common Gate pannel (KLP-1000)

:: Specifications

- Power : DC 15V (±1V) powered from common power supply
- Power consumption : Stand by 0.3W, Max. 0.2W
- Wiring : 3wire (common wiring)
- Max. wiring distance : Ø0.8 single cable : 500m
- Mount type : Surface mount
- Assurance temperature : 0℃ ~ +50℃
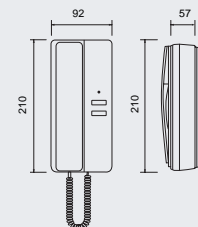- Dimension (mm) : 95(W) x 214(H) x 64(D)

:: Dimension

95 / 64 / 214
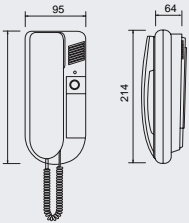
:: Option

[Power Supply]
PS-M2 (15V)
-Input : AC 100V~130V or 220V~240V
-Output : DC 16.5V / 1A±2V

:: Function

- Door Open Function by Access Code
- Firm Metal body Case with New Modern Design
- Upto 2pcs of Common Gate Panel Connection in a Building
- max. connection : 585 house units

:: Specifications

- Power : DC 15V (±1V) powered from common power supply
- Power consumption : Stand by 0.3W, Max. 3W
- Wiring : 3wire (common wiring)
- Max. wiring distance : Ø0.8 single cable : 300m
- Mount type : Surface & Flush mount
- Assurance temperature : -20℃ ~ +50℃
- Dimension (mm) : 210(W) x 182(H) x 25(D)

:: Dimension

210 / 25 / 182 / 182

:: Wiring Diagram

BLUE LINE (+)
BLACK LINE (-)
VIOLET(SIG)

WHITE DC +15V / WHITE GND

Door Opener (Option)

GND +15V
POWER SUPPLY

AC110V/220V

Up to maximum 585 units

:: Function

- Upto 3 Houses Connection
- Audio Communication with Visitor
- Door Open Function
- Gentle Electronic Sound
- Easy Installation (mount on the Wall or Desk)

:: Specifications

- Power : AC110V or AC220V (± 10%)
- Power consumption : Max. 30mA
- Wiring : 2wire
- Max. wiring distance : Ø0.65 single cable : 300m
- Mount type : Surface mount
- Assurance temperature : 0℃ ~ +50℃
- Dimension (mm) : 95(W) x 214(H) x 64(D)

:: Dimension

95 / 64 / 214 / 214

:: Wiring Diagram

DS-2D
Door Opener

POWER

:: Function

- Upto 3 Houses Connection
- Audio Communication with Visitor
- Door Open Function
- Gentle Electronic Sound
- Easy Installation (mount on the Wall or Desk)

:: Specifications

- Power : AC110V or AC220V (± 10%)
- Power consumption : Max. 30mA
- Wiring : 2wire
- Max. wiring distance : Ø0.65 single cable : 300m
- Mount type : Surface mount
- Assurance temperature : 0℃ ~ +50℃
- Dimension (mm) : 92(W) x 210(H) x 57(D)

:: Dimension

92 / 57 / 210 / 210

:: Wiring Diagram

DS-2D
Door Opener

POWER

System Diagram

3Wire   3Wire   Up to 585 House

Option

GND +15V
POWER SUPPLY

KDP-205   KDP-205

System Diagram

2Wire

KDP-601A   DP-203HA   MSD-1B   MS-2D   DS-2D

:: Interphone & Doorphone

Duplex Interphone
KIP-222

Triplex Interphone
KDP-602A/602D

Duplex Interphone
IP-201P

Duplex Interphone
KIP-501P

:: Function

- Duplex Interphone & Doorphone
- Audio Communication with Visitor
- Door Open Function
- Internal Call & Communication with Extended Units
- Gentle Electronic Sound (Seperate Call Sound)
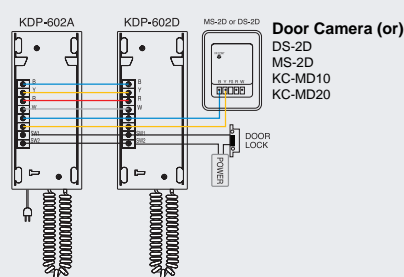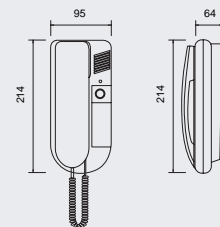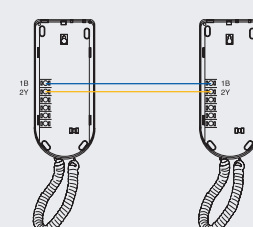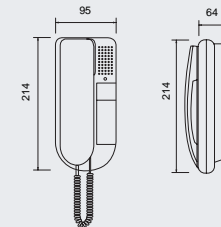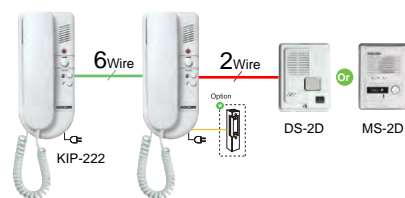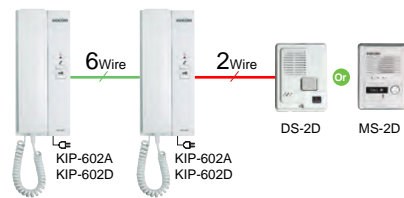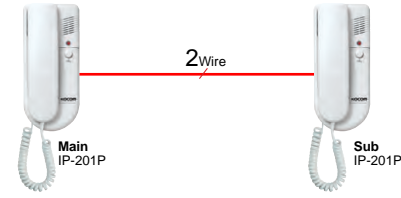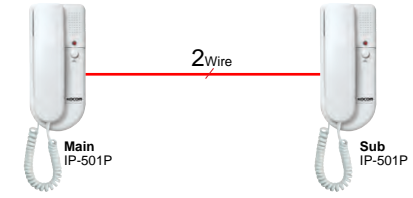- Easy Installation (Mount on the Wall or Desk)

:: Specifications

- Power : AC110V or AC220V (±10%)
- Power consumption : Max. 30mA
- Wiring & call sound : Door : 2wire, Chime
  - Audio handset : 4wire, Melody
- Max. wiring distance : ∅0.65 single cable : 300m, 5C-2V coaxial cable : 500m
- Mount type : Surface mount
- Assurance temperature : 0℃ ~ +50℃
- Dimension (mm) : 95(W) x 214(H) x 57(D)

:: Dimension

95   57

214   214

:: Wiring Diagram

DOOR LOCK
POWER AC/DC
DOOR LOCK
POWER

Door Camera (or)
DS-2D
MS-2D
KC-MD10
KC-MD20
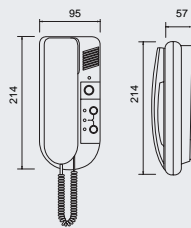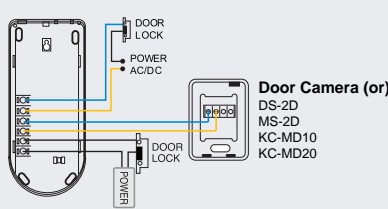
:: Function

- Duplex Interphone & Doorphone
- Upto 2 Audio Handset with 1 Outdoor Panel Connection
- Audio Communication with visitor
- Door open function
- Internal Call & Communication with Extended Units
- Gentle Electronic Sound (Seperate Call Sound)
- Easy Installation (Mount on the Wall or Desk)

:: Specifications

- Power : AC110V or AC220V (±10%)
- Power consumption : Max. 150mA
- Wiring & call sound : Door : 2wire, Chime Audio handset : 5wire, Melody
- Max. wiring distance : ∅0.65 single cable : 300m
- Mount type : Surface mount
- Assurance temperature : 0℃ ~ +50℃
- Dimension (mm) : 92(W) x 210(H) x 57(D)

:: Dimension

92   57

210   210

:: Wiring Diagram

KDP-602A   KDP-602D   MS-2D or DS-2D

Door Camera (or)
DS-2D
MS-2D
KC-MD10
KC-MD20

DOOR LOCK
POWER

:: Function

- Duplex Interphone
- Gentle Electronic Sound
- Easy Wiring & Installation (Mount on the Wall or Desk)

:: Specifications

- Power : DC6V (AA 1.5V battery) x 4ea
- Power consumption : Max. 150mA
- Wiring : 2wire
- Max. wiring distance : ∅ 0.65 single cable : 300m
- Mount type : Surface mount
- Assurance temperature : 0℃ ~ +50℃
- Dimension (mm) : 95(W) x 214(H) x 64(D)

:: Dimension

95   64

214   214

:: Wiring Diagram

1B 2V   1B 2V

:: Function

- Duplex Interphone
- Gentle Electronic Sound
- Easy Wiring & Installation (Mount on the Wall or Desk)

:: Specifications

- Power : DC6V (AA 1.5V battery) x 4ea
- Power consumption : Max. 150mA
- Wiring : 2wire
- Max. wiring distance : ∅ 0.65 single cable : 300m
- Mount type : Surface mount
- Assurance temperature : 0℃ ~ +50℃
- Dimension (mm) : 95(W) x 214(H) x 64(D)

:: Dimension

95   64

214   214

System Diagram

6Wire   2Wire

Option

KIP-222   DS-2D   MS-2D

System Diagram

6Wire   2Wire

KIP-602A KIP-602D   KIP-602A KIP-602D   DS-2D   MS-2D

System Diagram

2Wire

Main IP-201P   **Sub** IP-201P

System Diagram

2Wire

Main IP-501P   **Sub** IP-501P

Interphone & Doorphone

HOME MANAGER Since 1976

:: Interphone & Doorphone

Duplex Interphone
KIP-601P

Doorphone
DP-906H

New

Multiple Interphone
KIP-620ML

New

Sub Interphone
KIP-300

:: Function

- Duplex Interphone
- Gentle Electronic Sound
- Easy Wiring & Installation (Mount on the Wall or Desk)

:: Specifications

- Power : DC6V (AA 1.5V battery) x 4ea
- Power consumption : Max. 150mA
- Wiring : 2wire
- Max. wiring distance : ∅ 0.65 single cable : 300m
- Mount type : Surface mount
- Assurance temperature : 0℃ ~ +50℃
- Dimension (mm) : 92(W) x 210(H) x 57(D)

:: Dimension   :: Wiring Diagram
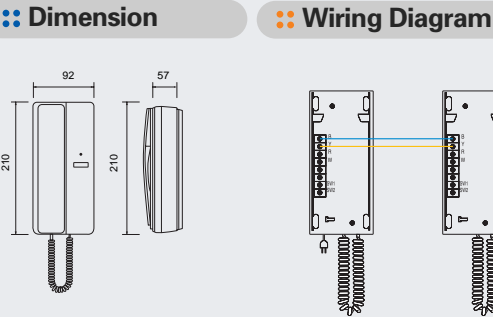
:: Function

- Audio Communication with Visitor
- Door Open Function
- Gentle Electronic Sound
- 4 Melody Selection
- Easy Installation (Mount on the Wall or Desk)

:: Specifications

- Power : AC110V or AC220V (±10%)
- Power consumption : Max. 150mA
- Assurance temperature : 0℃ ~ +50℃
- Wiring : 2wire
- Max. wiring distance : ∅0.65 single cable : 300m
- Mount type : Surface mount
- Dimension (mm) : 92(W) x 210(H) x 57(D)

:: Dimension   :: Wiring Diagram

Doorlock
300mA
DC-15V
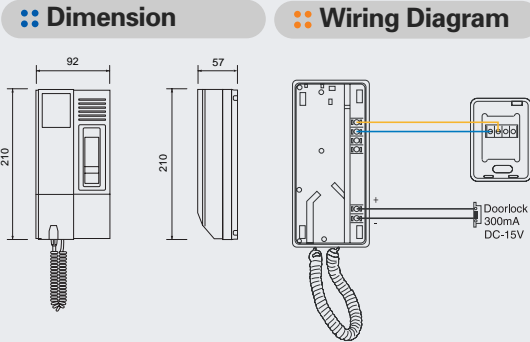
:: Function

- 20Ch Multiple Interphone
- Master(KIP-620ML) & Sub(KIP-300) Phone system
- LED Indicator for All line
- Paging function to selected house.
- Easy Wring & Installation (Terminal Box, Mount on the Wall or Desk)

:: Specifications

- Power : DC 24V / 1A
- Power consumption : Max 10W
- Wring : 1+n(Non polarity)
- Communication Type: Handset Type
- Mount type : Surface mount & desktop
- Dimensions : 175(W) X 175(H) X 55(D)mm

:: Dimension
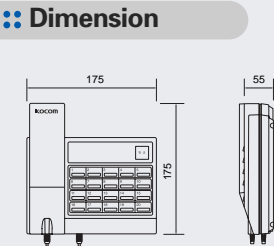
:: Function

- Sub unit for KIP-620ML
- Gentle Electronic sound
- Easy Installation (2 Wire non-polarity)

:: Specifications

- Power : Power from KIP-620ML
- Power consumption : Max 1W
- Wring : 2 wire non-polarity
- Mount type : Surface mount
- Assurance temperature : 0℃ ~ +50℃
- Dimension (mm) : 75(W) x 176(H) x 50(D)

:: Dimension

System Diagram

2 Wire

Main
KIP-601P

Sub
KIP-601P

System Diagram

2 Wire

DS-2D   MS-2D

System Diagram

KIP-300   KIP-300   KIP-300

1 wire
1(n) wire

KIP-620ML

Terminal Box   1 Wire

:: Wiring Diagram

KIP-300

House 1 (+)
COM (−)

House 2(+)
COM (−)

Terminal Box

VCC
GND

House 20 (+)
COM(−)

Interphone & Doorphone

HOME MANAGER Since 1976
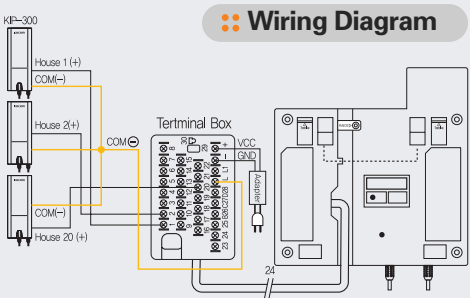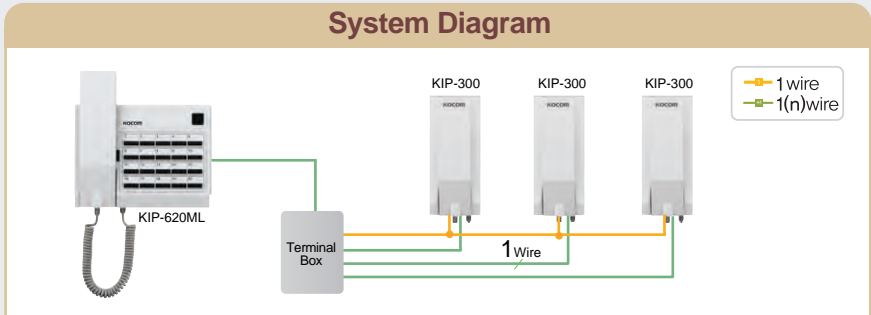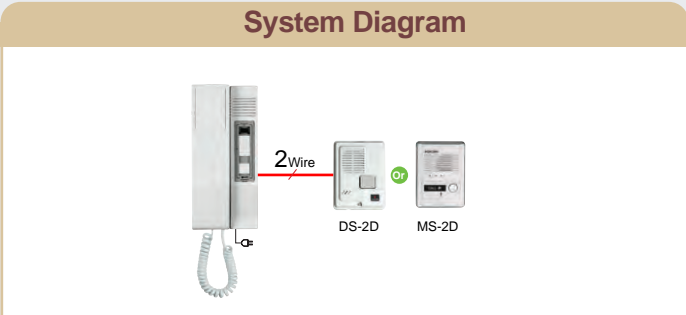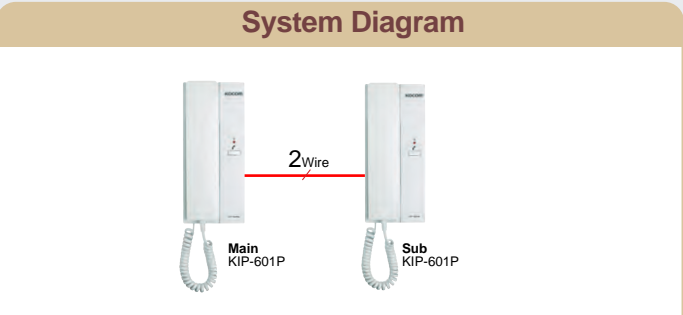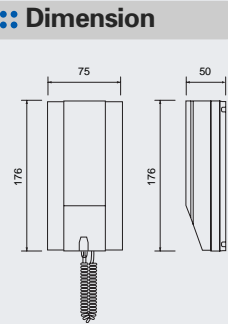
:: Interphone & Doorphone

Multiple Interphone
KIP-605PG

Multiple Interphone
KIP-611PG

Multiple Interphone
KIP-612ML/IP-200PC

Wireless Interphone
KWI-2000L

:: Function

- 5 Ch Multiple Interphone
- Single or Multiple Connection
- All Master Intercom System
- Paging Function
- Gentle Electronic Sound
- Easy Wiring & Installation (Mount on the Wall or Desk)
- Outdoor panel, DS-4M Connection (Option)

:: Specifications

- Power : DC24V / 1.2A (powered form common power supply)
- Power consumption : Stand by 0.85W, Max. 1.7W
- Wiring : 4wire
- Max. wiring distance : Ø0.65 single cable : 1Km
- Mount type : Surface mount
- Assurance temperature : 0℃~ +50℃
- Dimension (mm) : 92(W) x 210(H) x 57(D)
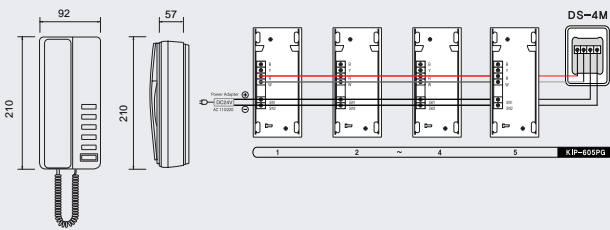
:: Function

- 11 Ch Multiple Interphone and Doorphone
- Single or Multiple Connection
- All Master Intercom System
- Paging Function
- Gentle Electronic Sound
- Easy Wiring & Installation (Mount on the Wall or Desk)
- Outdoor panel, DS-4M Connection(Option)

:: Specifications

- Power: DC24V / 1.2A (powered form common power supply)
- Power consumption : Max. 1.7W, Stand by : 0.85W
- Wiring : 4wire
- Max. wiring distance : Ø0.65 single cable : 1Km
- Mount type : Surface mount
- Assurance temperature : 0℃~ +50℃
- Dimension (mm) : 92(W) x 210(H) x 57(D)
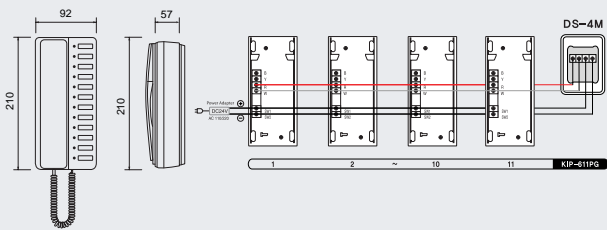
:: Function

- 12Ch Multiple Interphone
- Master (KIP-612ML) & Sub (IP-200PC) Phone System
- Gentle Electronic Sound
- Easy Wiring & Installation (Mount on the Wall or Desk)
- Sub Interphone for KIP-612ML

:: Specifications

- Power : DC24V / 1.2A (power from common power supply)
- Power consumption : Max. 70mA
- Wiring : 2wire
- Max. wiring distance : Ø0.65 single cable : 1Km
- Mount type : Surface mount
- Assurance temperature : 0℃ ~ +50℃
- Dimension (mm) : 92(W) x 210(H) x 57(D)-KIP-612ML
  95(W) x 214(H) x 64(D)-IP-200PC
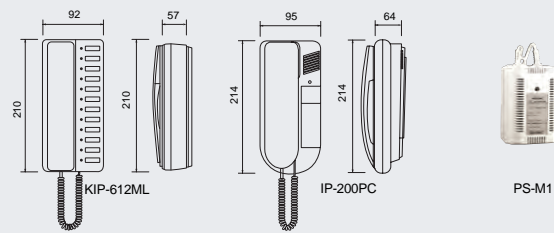
:: Function

- Communication bewteen operated locations on the same power transformer
- Avoid locations where there is a sub-transformer between them.

:: Specifications

- Power : AC 220V 50 / 60Hz
  AC 127V/220V, 50~60Hz, Range : 150M without wire
- Frequency : TX / RX 330 / 240 KHz
- FDSK : FM METHOD
- Range of frequency : 230~430KHz
- Consumption :   Under AC 150mA / In use
  Under AC 15mA / Stand by
- 2 station full duplex Conversations
- Electronic toning signal sound
- Dimension (mm) : 98(W)x203(H)x70(D)

:: Dimension :: Wiring Diagram

:: Dimension :: Wiring Diagram

:: Dimension :: Option

:: Dimension

System Diagram

Wiring
4 Wire

DS-4M

KIP-605PG

4Wire 4Wire 4Wire 4Wire

DC24V
Power Adapter AC110/220

:: Option

[Power Supply]
PS-M1
-Input : AC 100V~130V or 220V~240V
-Output : DC 24V / 1.2A

[Outdoor Pannel]
DS-4M

System Diagram

2Wire 2Wire
2Wire 2Wire
2Wire
2Wire 2Wire
2Wire

System Diagram

HOME MANAGER Since 1976
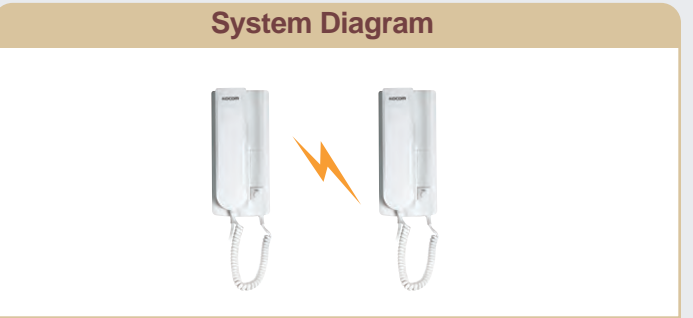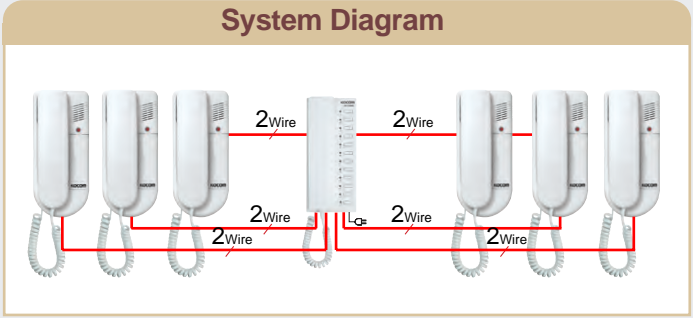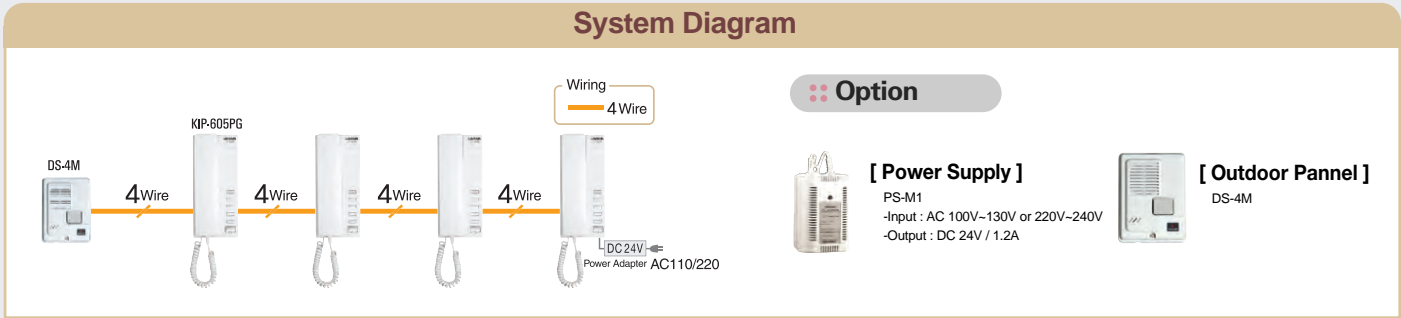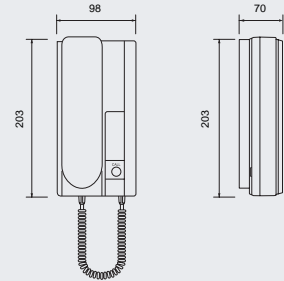
:: Interphone & Doorphone

New

Audio Lobbyphone
KAL Series

New

Interrphone
KIP-304

Intercom
KIC-308(8CH)
KIC-301(1CH) / 304(4CH)

Intercom
# KIC-300S(Sub)

:: Function

- Slim & Stylish Surface mount type Audio Entrance Panel
- Call, Communication, and Door Open with Interphone (KIP-304)
- Clear & Loud Voice & convenient Voice Volume Control
- Max. 40 Household connections available
- Name Plate backlight (LED lamp)
- Safe Door Open function only when the communication is made
- Two door release type (NO & NC) connection available
- Security Alarm Function (Security Sensor (not included) is needed)

:: Specifications

- Input power : DC+12V±1V(Stand by : 1W, Operating : 8W)
- Communication method : Hands free method (two way)
- Guaranteed operating : -10°C ~ 50°C
- Dimensions : 125(W) X 240(H) X 30(D)mm

:: Dimension
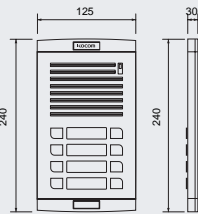
:: Function

- Slim & Stylish Surface mount type Audio Interphone
- Audio Communication with a Visitor
- Clear & Loud Voice
- Door Open (Common Gate) Function
- Easy Installation (3+n)
- For Multi Apartment, Condominium, Villa, Office, Bank and Hospital

:: Specifications

- Power Source : DC 12V (Powered from lobbyphone)
- Power Consumption : MAX 5W
- Communication System : Handset
- Wiring : 3+n (Polarity)
- Dimesion(H) : 75(W)X176(H)X52(D)

:: Dimension
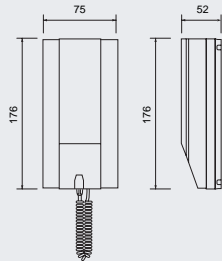
:: Function

- Perfect Communication
- Delightful Signal Sound
- LED Indicator for All line
- Easily 2 Wiring of polarity
- Power Supply One Side One used D.C 6V
- Easily Mounted On wall, Desk
- Taking with Calm, Power Indicator and Signal Volume

:: Specifications

- Power : DC 6V (LR6-AA 1.5V X 4)
- Consumption : In use 30mA / Signal 150mA
- Signal sound : Electronic
- No. of wires : 2 wires(polarity)
- Range : 200m (Ø0.65mm)
- Dimension (mm) : 272(W) x 125(H) x 42(D)

:: KIC Series

KIC-301   KIC-304   KIC-308

:: Function

- Sub Intercom for KIC-301, KIC-304 and KIC-308

:: Specifications

- Power : Power from main unit
- Consumption : In use 30mA / Signal 150mA
- Signal sound : Electronic
- No. of wires : 2 wires(polarity)
- Range : 200m (Ø0.65mm)
- Dimension (mm) : 272(W) x 125(H) x 42(D)

:: Wiring Diagram

Main KIC-301(1CH) **Sub** KIC-300S

Main KIC-304(4CH) **Sub** KIC-300S

Main KIC-308(8CH) **Sub** KIC-300S

System Diagram

Or

- 1 wire
- 1(n)wire

KAL-S303   KIP-304

Security Sensor

Power Adaptor

DC Door Lock (Adaptor)

KAL-S302   KAL-S304   KAL-T306   KAL-T308

:: Wiring Diagram

security sensor Non-polarity

DC+12V 300mA Door Release

DC

DC+12V 300mA Adaptor Non-polarity

KIP-304 NO,1~8 polarity

DC+12V 1.2A

DC 12V Adaptor polarity

KIP-304 NO,1

System Diagram

2 Wire

Main KIC-301   **Sub** KIC-300S

2Wire   2Wire

Main KIC-304

2Wire

Sub KIC-300S   **Sub2 Sub3**   **Sub** KIC-300S

2Wire   2Wire

Main KIC-308

2Wire

Sub KIC-300S   **Sub2 — Sub7**   **Sub** KIC-300S

Interphone & Doorphone

Outdoor Pannel
DS-4M/DS-2D

Outdoor Pannel
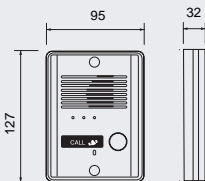# MS-2D

Outdoor Pannel
MSD-2B MSD-1B/MSD-2B/MSD-4B

Function
- Singel house outdoor Pannel
- Calling Houshold

Specifications
- Power : Audio handset ConnectionIPowered from audio handset
- Wiring : DS-4M-4Wire, DS-2D-2Wire
- Body material : Plastic
- Mount type : Surface mount
- Assurance temperature : -20°C ~ +50°C
- Dimension : 99(W) x 131(H) x 30(D) (mm)

Dimension

Wiring Diagram

① Power/Audo
② GND
③ Non
④ Non

①② In& Doorphone

DS-4M(4Wire)   DS-2D(2Wire)
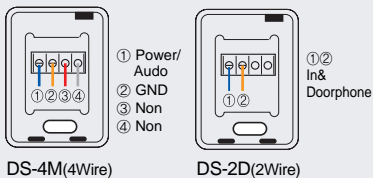
Function
- Singel house outdoor Pannel
- Calling Houshold
- Metal Outdoor

Specifications
- Power : Audio handset ConnectionIPowered from audio handset
- Wiring : 2wire
- Body material : Metal
- Mount type : Surface mount
- Assurance temperature : -20°C ~ +50°C
- Dimension : 95(W) x 127(H) x 32(D) (mm)

Dimension

Wiring Diagram

①② In&Doorphone

Function
- Aluminum Common Gate Panel
- 1 House (MSD-1B) / Upto 2 House (MSD-2B) Upto 3 House (MSD-3B) / Upto 4 House (MSD-4B)
- Rain Proof, Metal Anti Vandal

Specifications
- Power : Powered from audio handset
- Wiring : 2wire
- Mount type : Flush mount
- Dimension (mm) : 122(W) x 199(H) x 35(D) (mm)

MSD-1B   MSD-2B   MSD-3B   MSD-4B

Dimension
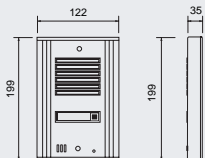
Wiring Diagram

Out Door Pannel Unit

※ Dimension is different according to models
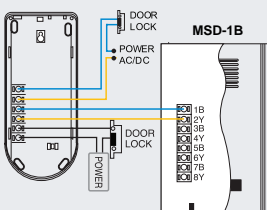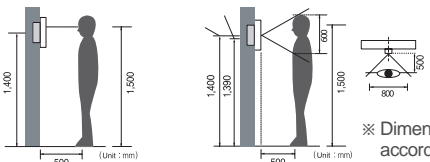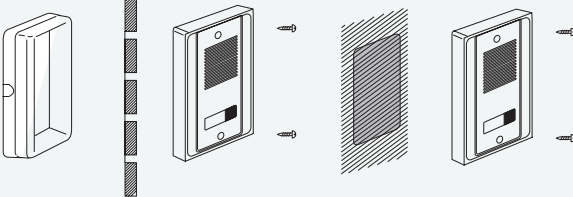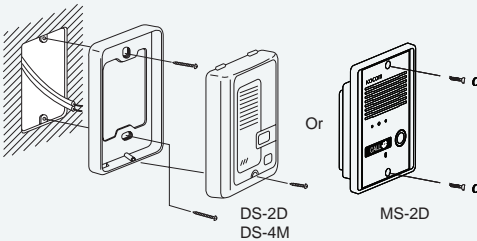
KOCOM outdoor panel has good durability for external environment and has been loved by stylish design and easy installation in the world.

Installation of outdoor station
After attaching the bodysupporter with 2screws,putthe Indoorstation into thegrooves of bodysupporter, and then fix itwith screws.

	●●● Multi House Series				●●● Singel House Series		
Model							
	MSD-1B	MSD-2B	MSD-3B	MSD-4B	DS-2D	DS-4M	MS-2D
Power	Powered from audio handset				Powered from audio handset		
Assurance temperature	-20°C ~ +50°C				-20°C ~ +50°C		
Body material	Aluminum				Plastic		Metal A/L
Mount type	Flush mount				Surface mount		
Dimension	122(W) x 199(H) x 35(D) (mm)				95(W) x 127(H) x 32(D) (mm)		
Weight (kgs)	0.6kgs				0.5kgs		
Audio handset Connection	DP-203HA, DP-203HD, KDP-601A / KDP-601D DP-906H, KIP-222, KDP-602A/D				DP-203HA DP-203HD DP-203HD KDP-501A KDP-501D KDP-601A KDP-601D DP-906H KIP-222 KDP-602A/D	KIP-605PG KIP-611PG KIP-620PG	DP-203HA DP-203HD DP-203HD KDP-501A KDP-501D KDP-601A KDP-601D DP-906H KIP-222 KDP-602A/D
Wiring Mount Type							

Ventilation System

Don't worry about a sick house syndrome, impure room air and atopic dermatitis!

KOCOM's Super Clean Total Heat Exchanger will keep your family and their health.

KOCOM ventilation system is able to reduce energy and offer more fresh air by collecting and reserving 70% thermal energy via a heat recovery ventilator (total heat exchanger) unlike the existing ventilation system which has only the function of air circulation without recycling the thermal energy of indoor air-conditioning and heating.

Also, all products of KOCOM ventilation system are eco-friendly because it acquired certificate for high energy equipment from Korea Energy Management Corporation.

KHF Serise Ventilation Unit

KHF-CMR Ventilation Controller

VENTILATION SYSTEM

:: Ventilation System

Ventilation Unit
KHF-100A KHF-150A / 200 / KHF-250 / 350

:: Function
- BLDC Motor system &Fan status display
- High Quality Zinc Galvanizing (1T)
- Verity Color
- Low Noise and Vibration
- Double cover for easy to Maintenance

:: Dimension Type
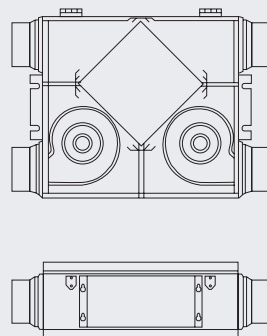
:: Function
- High / Middle / Low Fan Control
- Ventilation Mode
- Time Auto Ventilation Scenario
- External Temperature display
- Sleeping Mode
- Link to Home Network system
- Kitchen Hood Link
- Protecting from Freeze Up system
- Filter replacement display

:: Specifications

KHF-CMR
- Dimension (mm): 140(L)x100(W)x25(H)
- Power Control : On / Off
- Fan Control : High / Middle / Low
- Auto system : Time Auto Schedule
- Alarm Function : Faulty& Filter status display
- Extra Function : Sleeping Mode, Protecting from Freeze Up system
- Link to Home Network and Kitchen Hood

KHF-CSR
- Dimension (mm): 120(L)x80(W)x10(H)
- Power Control : On / Off
- Fan Control : High / Middle / Low
- Auto system : Time Auto Schedule
- Alarm Function : Faulty& Filter status display
- Extra Function : Sleeping Mode, Protecting from Freeze Up system
- Link to Home Network and Kitchen Hood

Ventilation Controller
KHF-CMR / CSR

:: Specifications

KHF-100
- Dimension (mm) : 450(L)x480(W)x175(H)
- Fan Speed : 100CMH
- Energy Efficiency : 64% (Heat) / 37% (Air-Conditioning)
- Noise : Less than 40db

KHF-150
- Dimension (mm) : 650(L)x640(W)x350(H)
- Fan Speed : 150CMH
- Energy Efficiency : 75% (Heat) / 51% (Air-Conditioning)
- Noise : Less than 40db

KHF-200
- Dimension (mm) : 600(L)x600(W)x300(H)
- Fan Speed : 200CMH
- Energy Efficiency : 70% (Heat) / 45% (Air-Conditioning)
- Noise : Less than 40db

KHF-250
- Dimension (mm) : 705(L)x600(W)x350(H)
- Fan Speed : 250CMH
- Energy Efficiency : 73% (Heat) / 46% (Air-Conditioning)
- Noise : Less than 40db

KHF-350
- Dimension (mm) : 750(L)x700(W)x400(H)
- Fan Speed: 350CMH
- Energy Efficiency : 75% (Heat) / 51% (Air-Conditioning)
- Noise : Less than 40db

Clean Total Heat Exchanger
Home fresh

KOCOM ventilation system is a happy solution to maintain the health and happiness of a family and a ubiquitous system for a healthy life style.

Home Fresh Total Heat Exchanger is very excellent for reducing energy through its outstanding heat exchanging and humidity control because it is manufactured by special pulp.

- Apartment / Viller
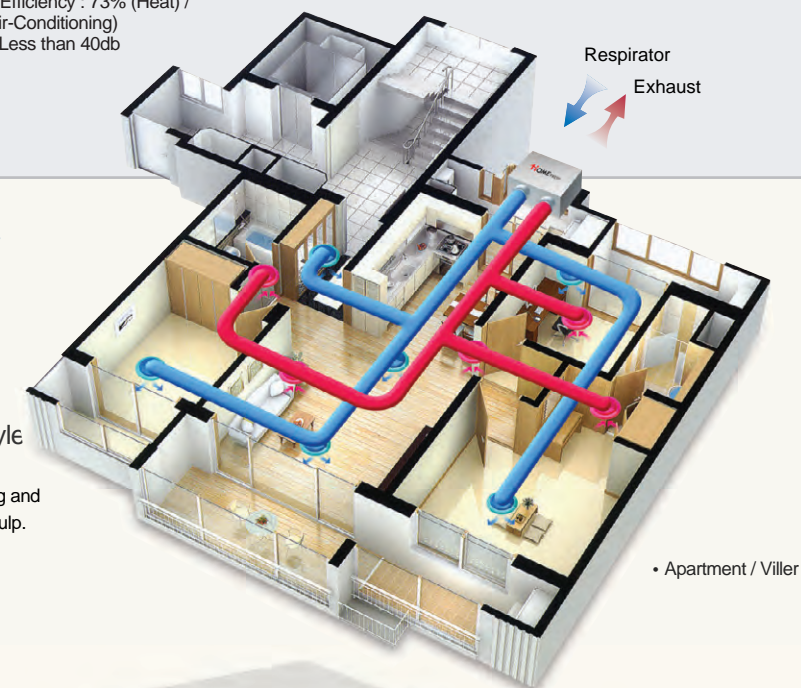
:: System Diagram

RS-485Type
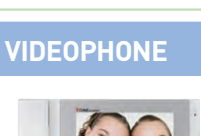※ This product is able to interlock with all kinds of home network making use of RS-485.

Ubiquitous Leader- **KOCOM**
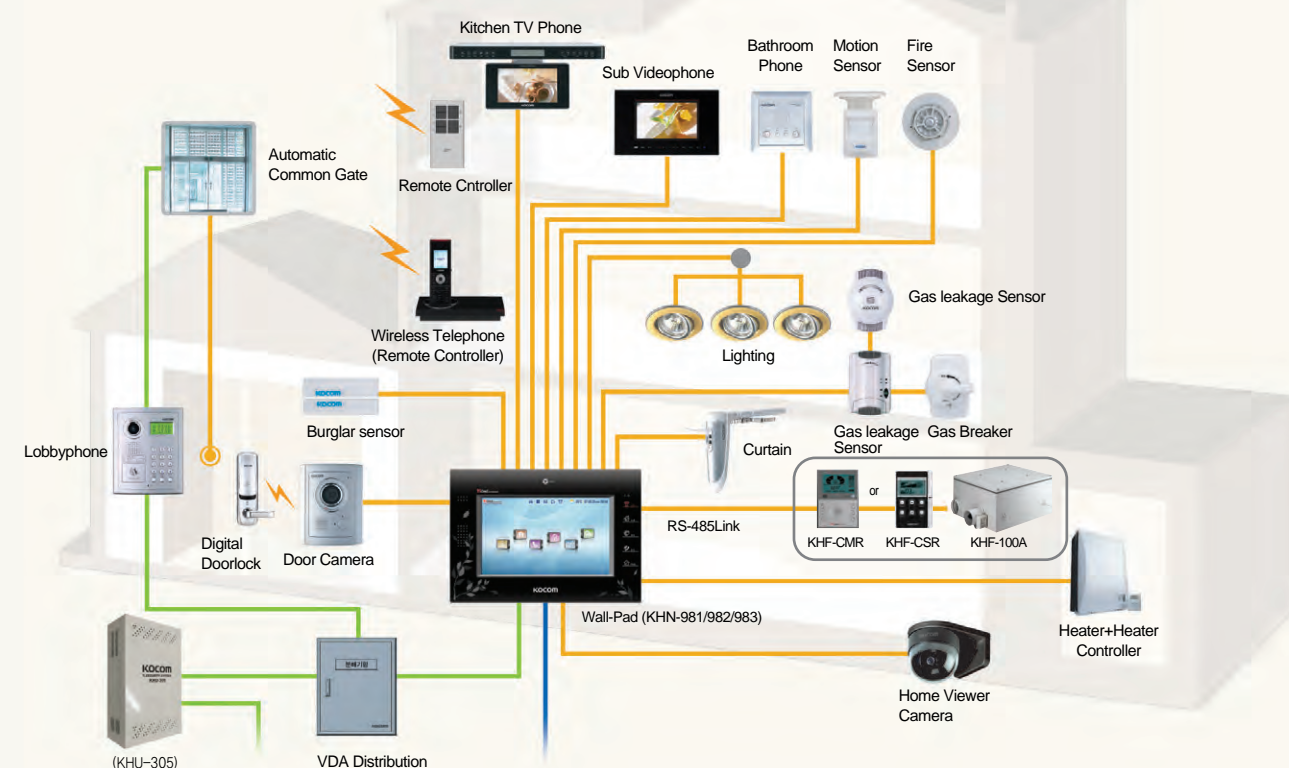
▪️ Products Lineup

HOME NETWORK SYSTEM

	Home Network System Diagram	13 page
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	Hybrid Home Network Hybrid Home Network	17 page
	ARS Home Network ARS Home Network	18 page
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	KHN-773 Home Network Color Wall-Pad	22 page
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	KLP-300R2 All IPType Lobby Phone	24 page
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HOME AUTOMATION SYSTEM

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KHU-305 Integrated Access Device		33 page
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KCV-802R/KCV-D802R 7" Color Handset Type		39 page
KIV-212/KIV-D212 5" Color Multi-entry Type		40 page
KIV-102/KIV-D102 4" B/W Multi-entry Type		41 page
KVM-520/KVM-D520 4" B/W Multi-entry Type		42 page
KLP-C100/KLPC104 KLP-C108/KLP-C112 Color Lobby Phone		43 page
KLP-100/KLP-104 KLP-108/KLP-112 B/W Lobby Phone		43 page
KCV-A374SD 4 Wire 7" Color Handfree Type		45 page
KCV-A372 / KCV-D372 2 Wire 7" Color Handfree Type		46 page
KCV-352 / KCV-D352 2 Wire 3.5" Color Handfree Type		47 page
KCV-A374 4 Wire 7" Color Handfree Type		48 page
KCV-W354 / KCV-DW354 4 Wire 3.5" Color Handfree Type		49 page
KCV-801R/D801R KCV-801/D801 7" Color Handset Type		50 page
KCV-301 4Wire 4" Color Handset Type		51 page
KVM-301/KVM-D301 4Wire 4" B/W Handset Type		52 page
KVM-340 4Wire 4" B/W Handset Type		53 page
KVM-604 4" B/W Videophone		55 page
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KVR-300 Memory Phone		56 page
KCC-P300/KCB-P300 CCTV Camera		56 page

KVL-C302i/C303i/C304i C306i/C308i/KEL-212 4Wire Lobby Phone		57 page
KVL-C202i/C203i KVL-C204i/KEL-212 2 Wire Lobby Phone		

DOOR CAMERA / DOORLOCK

KC-MC30/ KC-MC32 KC-MB30 Front Door Camera		61 page
KC-C60/KC-C62 KC-B61/KC-C63		61 page
KC-C71/KC-MC31/MB31		62 page
KC-MC35/KC-D33		63 page
KC-MC24/KC-MC22 Front Door Camera		
KC-D20 KC-MC11/KC-MC20 KC-MB20 Front Door Camera		64 page
KDL-T1 I-Button Type Doorlocke		65 page
KDL-C3 Touch & RF-Card Type Doorlock		65 page
KDL-F1/KDL-F2 Fingerprint Type Doorlock		66 page

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KTD-520 KTD-511 Bathroom TV Videophone		71 page
KSP-230 Sub Videophone		72 page
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KTD-70B/KTD-70T KTD-512MR/KTD-510MR KTD-512TB/ KTD-510TB Kitchen TV Videophone		73 page
KP-IR100 IrDA Generator		74 page
RH29 Remote Controller		74 page
Security Sensor Gas leakage Sensor/ Motion Sensor Fire Sensor / Burglar sensor		75 page
Curtain System Curtain Motor Remote Controller / Curtain Switch		76 page
Light Switch Emergency Switch Lighting & Dimming Switch Lighting & Dimming Control Equipment / Lighting Switch		77 page

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INTERPHONE & DOORPHONE

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KIP-603 Multiple Doorphone		
KDP-603 Multiple Doorphone		87 page
KIP-120 Guard Masterphone		
KDP-205/KLP-1000 Multiple Doorphone / Common Gatephone		89 page
DP-203HA/KDP-601A Multiple Doorphone		90 page
KIP-222 Duplex Interphone		91 page
KDP-602A/602D Triplex Interphone		91 page
IP-201P/KIP-501P Duplex Interphone		92 page
KIP-601P Duplex Interphone		93 page
DP-906H Doorphone		93 page
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KIP-300 Sub Interphone		94 page
KIP-605PG / KIP-611PG Multiple Interphone		95 page
KIP-612ML / IP-200PC Multiple Interphone		96 page
KWI-2000L Wireless Interphone		96 page
KAL Series Audio Lobbyphone		97 page
KIP-304 Interrphone		
KIC-308/301/304/30S Intercom		98 page
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VENTILATION SYSTEM

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Sales Locations

Western Europe

Austria
France
Germany
Greece
Italy
Malta
Norway
Portugal
Turkey
U.K.

Eastern Europe

Armenia
Bulgaria
Croatia
Czech Republic
Hungary
Kazakhstan
Latvia
Lithuana [Russian Federation]
Macedonia
Poland
Romania
Russia
Slovakia
Ukraine

Africa

Algerie
Egypt
Mauritius
Morocco
Nigeria
South Africa
Sudan

The Middle East

Afghanistan
Iran
Israel
Jordan
Lebanon
Saudi Arabia
Syria
U.A.E.

Asia

China
Hong Kong
India
Indonesia
Japan
Malaysia
Pakistan
Philippines
Singapore
Taiwan
Thailand
Vietnam

Oceania

Australia
New Zealand

North America

Canada
U.S.A.

South America

Argentina
Bolivia
Brazil
Chile
Colombia
Dominican Rep.
El Salvador
Ecuador
Guatemala
Venezuela
Mexico
Panama
Peru