

# 915 2-wire Video Doorphone of Building System

Designed and produced in **Taiwan**



**915C7 PH-NP**  
stainless steel camera name plate



**915C3AL**  
aluminum door bell with CCD



**915C5**  
aluminum button camera



**915K2**  
20-key button



**915C8/C8M**  
stainless steel camera / stainless steel camera with mifare card reader



**915M7**  
7" color LCD Monitor



**915M35**  
3.5" color LCD Monitor



**915M7b - white**

7" Touch Pad Handsfree video monitor



**915M7b - black**



**915Mi**  
4" color LCD Monitor



**915Mh**  
4" color LCD Monitor



**915M3**  
Audio Handset



**915Mg**  
Audio Handsfree



**915P**  
power supply



**915SP**  
splitter



**915SX**  
switching box for door bell



**915CSb**  
Camera Selector

## 915 2-wire Video Doorphone of Building System

Specifications and Features as below :

1. 2-wire digital video doorphone system, Power / Color video / Two-way handsfree communication / Door release / Door status Indicator/ Monitoring / Calling all these functions are through 2-wire system. (A realize 2 lines (power line free))
2. System basic framework: Main entrance camera(max. capacity is 4 cameras) / Control center/ Door bell camera(for apartment door, max.capacity is 4 cameras)/ Main monitor / Sub-monitor/ Audio handset.
3. There are 2 kinds of main cameras for choosing - digital and key pad type. SUS304 stainless steel or aluminum front panel, strong structure and elegant appearance.
4. Main camera / Door bell camera with built-in ir LED , the ccd will automatically change to black-white picture and ir LED light on when the dark night is coming , let you see the visitor easily .
5. Main camera with built-in contact for connecting door lock. Door status indicator can let tenant to know whether the door of main camera is close or not. The open door time can be adjusted from 2 sec. to 15 sec. depends upon tenant's requirement.
6. LCD wide visual angle LED TFT monitor, follow the trend of energy saving & carbon reduction ,support green energy development .
7. Sometimes the installation environment has not a good sound insulation.You can connect an external loudspeaker to main monitor for easing to know visitors.
9. Main monitor can support picture output to DVR/CCTV Monitor.



## 915C7 Color Aluminum Button Camera



### Specifications

Working Voltage: DC15V from 915P7a

Current Consumption :

Stand-by 60mA, Working 250mA

CCD: Color SONY 1/3" Board camera

Resolution: Color 510(H)x492(V)

Signal noise rate: more than 48db

Picture Pixels: 270,000 Pixels

Illumination: 4 white LEDs in color system

Communicating Interface:

the modulated carrier wave signal

Installation way: Flush mounting type or Surface mounting type

Front Material: Aluminum front panel Stainless Steel Base

Dimensions: (L)323mm/(W)120mm/(H)55mm

/Flush part 45mm, Surface part 10mm.

Weights: 0.6 kgs

Measurement: 0.13 cuft

The dimensions of pre-box

Flush Pre-box : (L)290mm/(W)100mm/(H)55mm

Surface Pre-box : (L)323mm/(W)270mm/(H)55mm

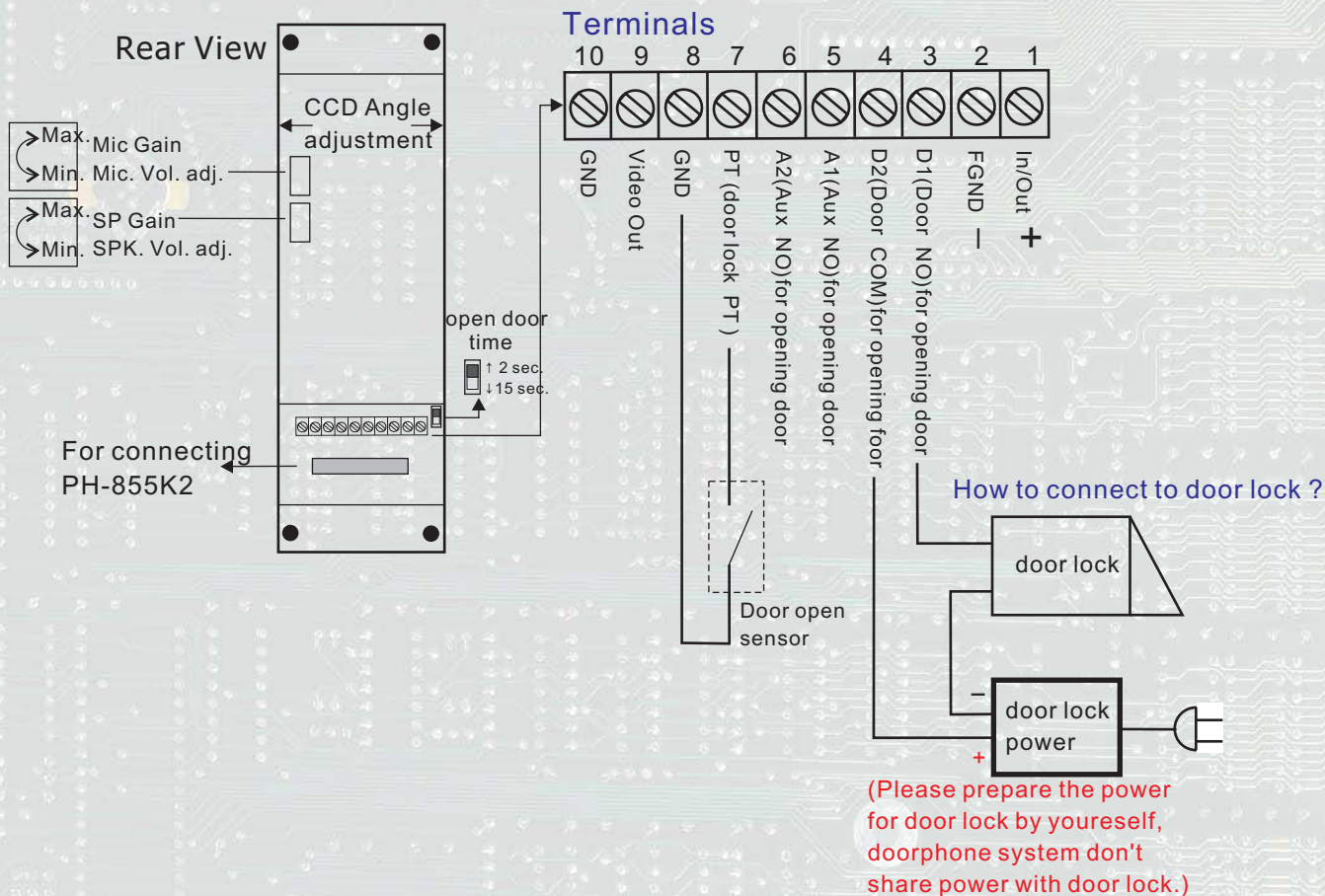
The dimensions of 855C5+855K2 flush type :

(L)323mm/(W)270mm/(H)45mm

The dimensions of 855C5+855K2 surface type :

(L)323mm/(W)270mm/(H)55mm

### Terminal Explanation





## 915C7 Color Stainless Steel Camera



### Specifications :

Working Voltage : DC15V from 915P7a

Current Consumption : Standby 85mA , Working 275mA

CCD : Color SONY 1/3" Board Camera

Resolution : Color 510(H)x492(v)

Signal Noise Rate : More than 48db

Picture Pixels : 270,000 Pixels

Illumination : 4 white LEDs

Communication Interface :

the modulated carrier wave signal

Installation Way : Flush Mounting Type

Front Material : Stainless Steel Front Panel & Base

Dimensions : 300(H)/200(W)/75(H) mm

Flush Part 65mm, the thickness is 10mm after installation

The dimensions with flush pre-box is : 325x120x80mm



Surface Pre-box 325x120x85mm  
Flush Pre-box 325x120x80mm

### Instruction :

1. \* : "Cancel" Button
2. 📞 : No Function
3. OK : "Call" Button
4. ⬅️ & ➡️ : Front Page and Next Page
5. Press "Resident No.(1-digit ~ 4-digit)+ OK" for calling the resident and start monitor .
6. There are 2 choices to edit resident no. --- {1-digit ~4-digit} or {1~16 letters in English}. The detailed information , Please refer to user manual.
7. Open the door by password : Press "0 #" or "#" + "Password of opening door".
8. The default of password for opening door is "1234". How to change this password, please refer to user manual.



### 915C10AL Color Aluminum Camera



#### Specifications :

Working Voltage : DC 15V from 915P7a

Current Consumption: Standby 60mA

Working 250mA

CCD: Color Sony 1/3" Board Camera

Resolution: 510(H) x 492(V)

Signal Noise Rate : More than 48db

Picture Pixels: 270,000 Pixels

Illumination : 4 white LEDs

#### Communication Interface :

the modulated carrier wave signal

Installation Way : Flush Mounting Type or

Surface Mounting Type

Front Material : Aluminum Panel

Dimensions : 200(H)/120(W)/55(H) mm

"1-key type" / "2-key type"

### Terminals

1	2	3	4	5	6	7	8	9	10
□	□	□	□	□	□	□	□	□	□

In/Out main line +

FGND main line -

D1(Door NO)open door contact

D2(Door COM)open door contact

A1(Aux NO)open door contact

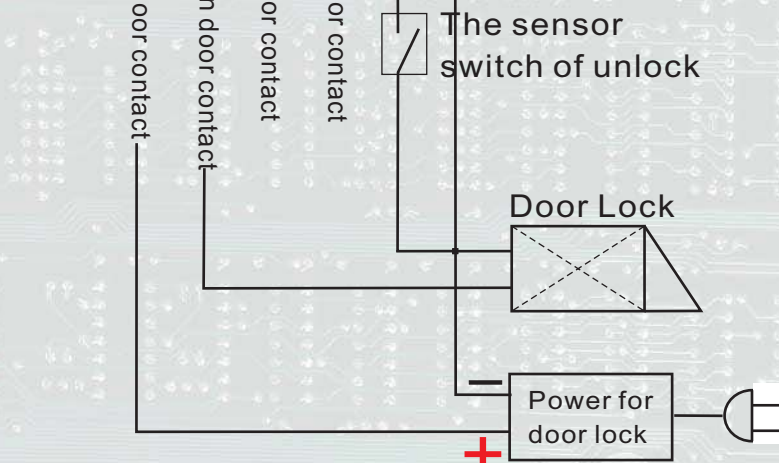
A2(Aux NO)open door contact

PT (for door lock)

GND

Video Out

GND Ground wire



(The power of door lock must be an independent power, door phone power can't share power with door lock.)



## 915C11 Color ABS Camera



### Specifications :

Working Voltage : DC 15V from 915P7a

Current Consumption: Standby 20mA

Working 200mA

CCD: Color Sony 1/3" Board Camera

Resolution: 510(H) x 492(V)

Signal Noise Rate : More than 48db

Picture Pixels: 270,000 Pixels

Illumination : 3 white LEDs

Communication Interface :

the modulated carrier wave signal

Installation Way : Surface Mounting Type

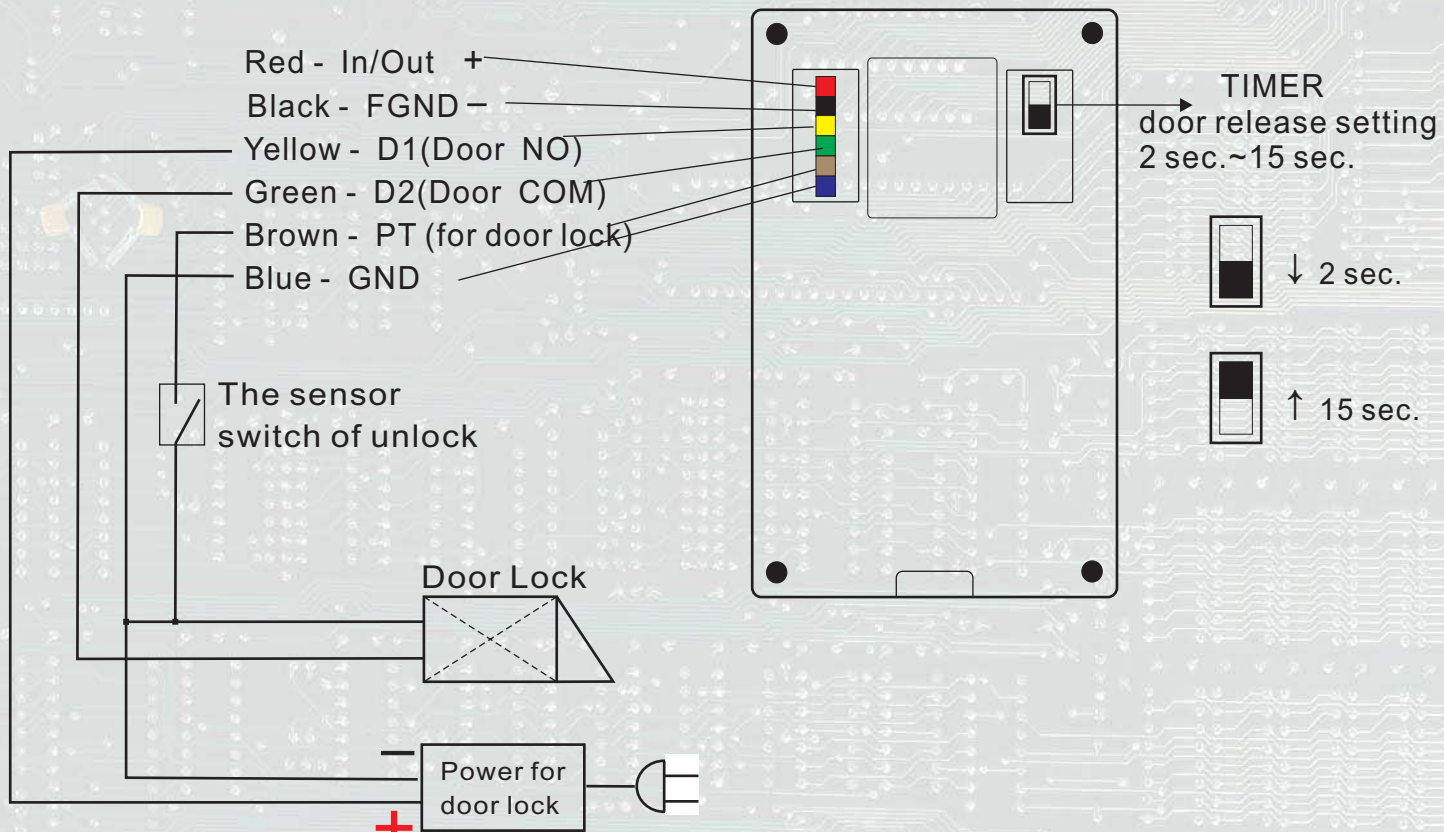
Front Material : ABS

Dimensions : 128(H)/84(W)/34(H) mm

Weights: 300 gs

Measurement: 0.07 cuft

## Terminals



(The power of door lock must be an independent power, door phone power can't share power with door lock.)



## 915M35 3.5" Handsfree Color Monitor



### Specifications :

Working Voltage : DC 15V from 915P7a

Current Consumption: Standby 40mA

Working 300mA

Resolution: color 3.5" 430(H) x 234(V)

Communication Interface :

the modulated carrier wave signal

Installation Way : Surface Mounting Type

Front Material : ABS

Dimensions : 189.5(H)/129.5(W)/30(H) mm

Weights: 310 gs



Measurement: 0.3 cuft

### Handsfree Talking / Monitoring Button

**Handsfree Talking button:** Press it for getting a call and talking .  
After talking press it again for finish.

**Monitoring button :** Press it to start monitor screen and monitor door camera situation and also to talk with camera ,press it again for finish.  
The talking time limitation is 180 sec.

### Code setting button/Main monitor & Sub monitor setting button

**Code setting button :** When doorphone system is standby and press "  +  ", you will hear "Du" on 915M35 and on camera ,too.

Please enter "monitor code"on camera immediately , 915M35 will get this call and send "Ding-Dong" , it means a successful code setting .

**Main monitor-Sub monitor setting button :** Hold this button 8 sec. at least , you will hear a high-pitch "Du", it means to set main monitor successfully.  
Then, hold this button 8 sec. at least , you will hear a deep "Du" , it means to set sub monitor successfully.


**PS. One apartment only can set one main monitor, if you set 2 main monitors in one apartment , camera can't call monitor normally ,the doorphone system will happen problem ,camera can't make a call to this apartment .**



### Intercom Button/ NO Contact Point

**Intercom** Press this button to intercom and talk with other monitors in this apartment .

**NO Contact Point** When monitor screen is started , press this button and drive this contact point in camera then to start other devices.

### Door Release Button /Code setting button

**Door Release** Press "  " this button for opening door.

**Code setting button :** When doorphone system is standby and press "  +  ", you will hear "Du" on 915M35 and on camera ,too.

Please enter "monitor code"on camera immediately , 915M35 will get this call and send "Ding-Dong" , it means a successful code setting .

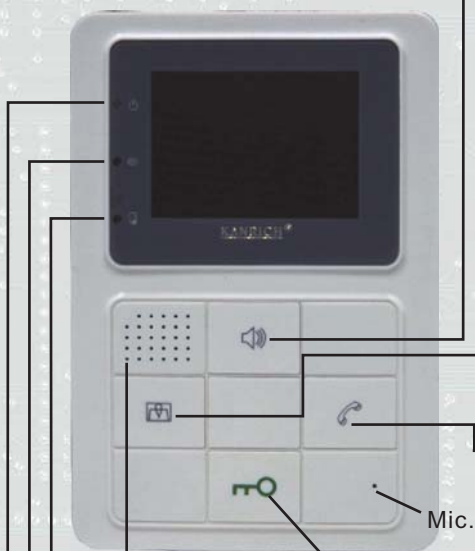
**Door Status Indicator :** The red LED constantly lights on , it means the door is open, the red LED lights off , it means the door is close .

### "In Use" indicator / Intercom call Indicator(Red):

The red LED constantly on, it means one of residents is using this doorphone system, please wait this resident finishing talking then to use it .

**Intercom Indicator :** This indicator is flashing , it means intercom function is started.

**Power Indicator :** The Blue LED constantly lights on.



SPK.

Color

Brightness

Calling Tone Adj.

Mic.

**Door Status Indicator :** The red LED constantly lights on , it means the door is open, the red LED lights off , it means the door is close .

### "In Use" indicator / Intercom call Indicator(Red):

The red LED constantly on, it means one of residents is using this doorphone system, please wait this resident finishing talking then to use it .

**Intercom Indicator :** This indicator is flashing , it means intercom function is started.

**Power Indicator :** The Blue LED constantly lights on.



## 915Mh 4" Handsfree Color Monitor



### Specifications

Working Voltage: DC15V from PH-915P7a

Current Consumption :

Stand-by 40mA, Working 300mA

Resolution: Color 4" 430(H)x234(V)

Communicating Interface:

the modulated carrier wave signal

Installation way: Surface mounting type







Material : ABS

Dimensions : 113(H)/110(W)/35(H) mm





Weights: 300 gs

Measurement: 0.2 cuft




### Button/Indicator



 Handsfree Talking : Press  for getting a call and talking , press  one more time for off line.  
/ Monitoring Press  to start monitor screen and monitor door camera situation and also to talk with camera , press  one more time for finish. The talking time limitation is 180 sec. If after talking , the resident forgot to press  for finishing talking, the system will be off line automatically 180 sec. later .

Power Indicator : The LED constantly lights on.

 Door Release 1 : Press  for opening door lock of door no. 1 .  
/ Code setting button : When doorphone system is standby and press "+", you will hear "Du" on monitor and on camera ,too. Please enter "monitor code" on camera immediately , monitor will get this call and send "Ding-Dong" , it means a successful code setting .


Door Status Indicator : The red LED constantly lights on , it means the door no.1 is open, the red LED lights off , it means the door is close .




 Code setting button : When doorphone system is standby and press "+", you will hear "Du" on monitor and on camera ,too. Please enter "monitor code" on camera immediately , monitor will get this call and send "Ding-Dong" , it means a successful code setting .

Main monitor-Sub monitor setting button : Press  8 sec. at least , you will hear a high-pitch "Du", it means to set main monitor successfully. Press  8 sec. at least , you will hear a deep "Du" , it means to set sub monitor successfully.

PS. One apartment only can set one main monitor, if you set 2 main monitors in one apartment , camera can't call monitor normally ,the doorphone system will happen problem , it can't make a call to this apartment .

"in use" indicator : The red LED constantly on, it means one of residents is using this doorphone system, please wait this resident finishing talking then to use it .

If you find this indicator is flashing in operation , please press "" twice , let system return to "standby" status .

 Intercom /Door Release 2 : Press "" this button to intercom other monitors in this apartment .  
When monitor screen is started , press "" for opening another door lock of another door.

Intercom Indicator : This indicator is flashing , it means intercom function is started.

















## 915Mi 4" Handsfree Color Monitor



### Specifications

Working Voltage: DC15V from PH-915P7a  
 Current Consumption :  
 Stand-by 40mA, Working 300mA  
 Resolution: Color 4" 430(H)x234(V)  
 Communicating Interface:  
 the modulated carrier wave signal  
 Installation way: Surface mounting type  
 Material: ABS  
 Dimensions: (H)140mm/(W)170mm/(D)35mm  
 Weights : 300gs  
 Measurement: 0.2 cuft

### Buttons/Indicators

-  Resident Code setting button  
 When doorphone system is standby and press "  +  ", you will hear "Du" on monitor and on camera ,too. Please enter "monitor code" on camera immediately , monitor will get this call and send "Ding-Dong" , it means a successful code setting .  
 "in use" indicator  
 The red LED constantly on, it means one of residents is using this doorphone system, please wait this resident finishing talking then to use it .If you find this indicator is flashing in operation ,please press "  " twice , let system return to "standby" status .
-  Door Release 2  
 When monitor screen is started , press "  " for opening another door lock of another door.
-  Door Release 1/Code setting button  
 Press  for opening door lock of door no. 1 .  
 Door Status Indicator  
 The red LED constantly on , it means the door no.1 is open, the red LED lights off ,it means the door is close .
-  Handsfree Talking  
 Press  for getting a call and talking , press  one more time for off line.  
 The talking time limitation is 180 sec. If after talking , the resident forgot to press  for finishing talking, the system will be off line automatically 180 sec. later .  
 Monitoring  
 Press  to start monitor screen and monitor door camera situation and also to talk with camera , press  one more time for finish.



## 915M7 7" Handsfree Color Monitor



### Specifications

Working Voltage: DC15V from PH-915P7a

LCD screen power from  
an external adaptor  
DC12V/500mA

Current Consumption(excluded LCDscreen  
power) :Stand-by 40mA,  
Working 170mA

Resolution: Color 7" 430(H)x234(V)

Installation way: Surface mounting type

Material: Aluminum & ABS heat-resistant  
Plastic

Dimensions: (H)150mm/(W)235mm/(D)28mm

Weights : 700gs

### Buttons/Indicators



#### Handsfree Talking / Monitoring Button

**Handsfree Talking button:** Press it for getting a call and talking . After talking press it again for finish.

**Monitoring button :**Press it to start monitor screen and monitor door camera situation and also to talk with camera ,press it again for finish.

The talking time limitation is 180 sec.



#### Door Release Button /Code setting button

**Door Release** Press "this button" to open the door.

**Code setting button :** When doorphone system is standby and press "this button + code setting button",you will hear "Du" on 915M7 and on camera ,too. Please enter "monitor code"on camera immediately , 915M7 will get this call and send "Ding-Dong" , it means a successful code setting .



#### Code setting button/Main monitor & Sub monitor setting button

**Code setting button :**When doorphone system is standby and press " this button + open door button",you will hear "Du" on 915M7 and on camera ,too. Please enter "monitor code"on camera immediately ,915M7 will get this call and send "Ding-Dong" , it means a successful code setting .

**Main monitor-Sub monitor setting button :** Hold this button 8 sec. at least ,you will hear a high-pitch "Du",it means to set main monitor successfully.Then, hold this button 8 sec. at least , you will hear a deep "Du",it means to set sub monitor successfully.

**PS. One apartment only can set one main monitor, if you set 2 main monitors in one apartment , camera can't call monitor normally ,the doorphone system will happen problem, camera can't make a call to this apartment .**



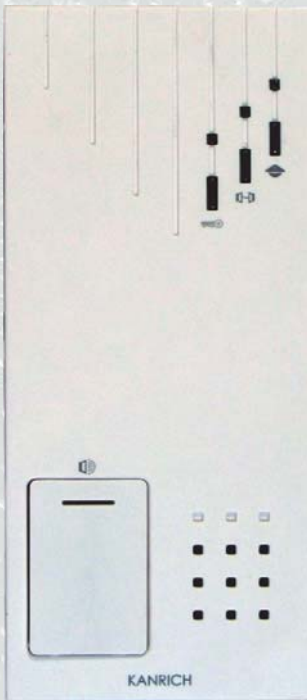
#### Intercom Button/ N.O. Contact Point

**Intercom** Press this button to intercom and talk with other monitors in this apartment .

**N.O. Contact Point** When monitor screen is started , press this button and drive this contact point in camera then to start other devices.



## 915Mg Handsfree Audio



### Specifications

Working Voltage: DC15V from PH-915P7a  
 Current Consumption :  
 Stand-by 40mA, Working 150mA  
 Communicating Interface:  
 the modulated carrier wave signal  
 Installation way: Surface mounting type  
 Material: ABS heat-resistant plastic  
 Dimensions: (H)210mm/(W)94mm/(D)40mm  
 Weights : 300gs  
 Measurement: 0.08 cuft

**Code setting button/Main monitor & Sub monitor setting button**  
**Code setting button** : When doorphone system is standby and press "☎ + 📞", you will hear "Du" on 915Mg and on camera ,too. Please enter "915Mg code"on camera immediately , 915Mg will get this call and send "Ding-Dong" , it means a successful code setting .  
**Main monitor-Sub monitor setting button** : Hold "☎" 8 sec. at least ,you will hear a high-pitch "Du", it means to set main monitor successfully. Then, hold this button 8 sec. at least , you will hear a deep "Du" , it means to set sub monitor successfully.  
**PS. One apartment only can set one main monitor, if you set 2 main monitors in one apartment , camera can't call monitor normally ,the doorphone system will happen problem ,camera can't make a call to this apartment .**  
**Intercom Button/ NO Contact Point**  
**Intercom** Press this button to intercom and talk with other monitors in this apartment .  
**NO Contact Point** When monitor screen is started , press this button and drive this contact point in camera then to start other devices.  
**Door Release Button /Code setting button**  
**Door Release** Press "📞" this button for opening door.  
**Code setting button** : When doorphone system is standby and press "☎ + 📞", you will hear "Du" on 915M35 and on camera ,too. Please enter "monitor code"on camera immediately , 915M35 will get this call and send "Ding-Dong" , it means a successful code setting .  
**Handsfree Talking Button**  
**Handsfree Talking button**: Press it for getting a call and talking . After talking press it again for finish.  
**Door Status Indicator** : The red LED constantly lights on , it means the door is open, the red LED lights off , it means the door is close .  
**"In Use"indicator / Intercom call Indicator(Red)**:  
 The red LED constantly on, it means one of residents is using this doorphone system,please wait this resident finishing talking then to use it .  
**Intercom Indicator** : This indicator is flashing , it means intercom function is started.



## 915M3 Handset Audio



### Specifications

Working Voltage:

DC15V from PH-915P7a(915CS)

Current Consumption :

Stand-by 40mA, Working 150mA

Communicating Interface:

the modulated carrier wave signal

Installation way: Surface mounting type

Material: ABS heat-resistant plastic



Dimensions: (H)206mm/(W)92mm/(D)58mm

Weights : 400gs


Measurement: 0.5 cuft


### Resident Code Setting / Main Handset & Sub-Handset Setting

#### 1. Resident Code Setting

When doorphone system is standby and press "  +  ", you will hear "Du" on 915M3 and on camera, too. Please enter "resident code" on camera immediately, 915M3 will get this call and send "Ding-Dong" , it means a successful code setting .

#### 2. Main Handset or Sub-Handset Setting

Press this button  8 sec. at least and you will hear a high-pitched "Du", this handset is set as main handset .

Press this button  8 sec. at least and you will hear a low-pitched "Du", this handset is set as sub-handset .

To identify the "Du" is high-pitched or "low-pitched" as main or sub handset.


If there are 2 monitors(915M) or "monitor(915M) + audio handset" in one house, it is necessary to set main monitor and sub-monitor(handset) because one house only allow one main monitor, other monitors(handsets) are sub-monitors(handsets).

### Intercom / Door Release - 2

#### 1. Intercom


Pick up the handset and press this button  and talk with another monitor(or handset), the talking time is 3 min. Hang up the handset and finish talking.

#### 2. Door Release - 2



When a calling is from camera, pick up the handset and press this button  to open the 2nd door .

### Door Release - 1 / Resident Code Setting

#### 1. Door Release - 1

When a calling is from camera, press this button  and pick up the handset to open the 1st door.

#### 2. Resident Code Setting

When doorphone system is standby and press "  +  ", you will hear "Du" on 915M3 and on camera, too. Please enter "resident code" on camera immediately, 915M3 will get this call and send "Ding-Dong" , it means a successful code setting .

### Handset

Pick up the handset and talk with camera or other monitors when you hear the ringing tone, the talking time limitation is 180 sec.

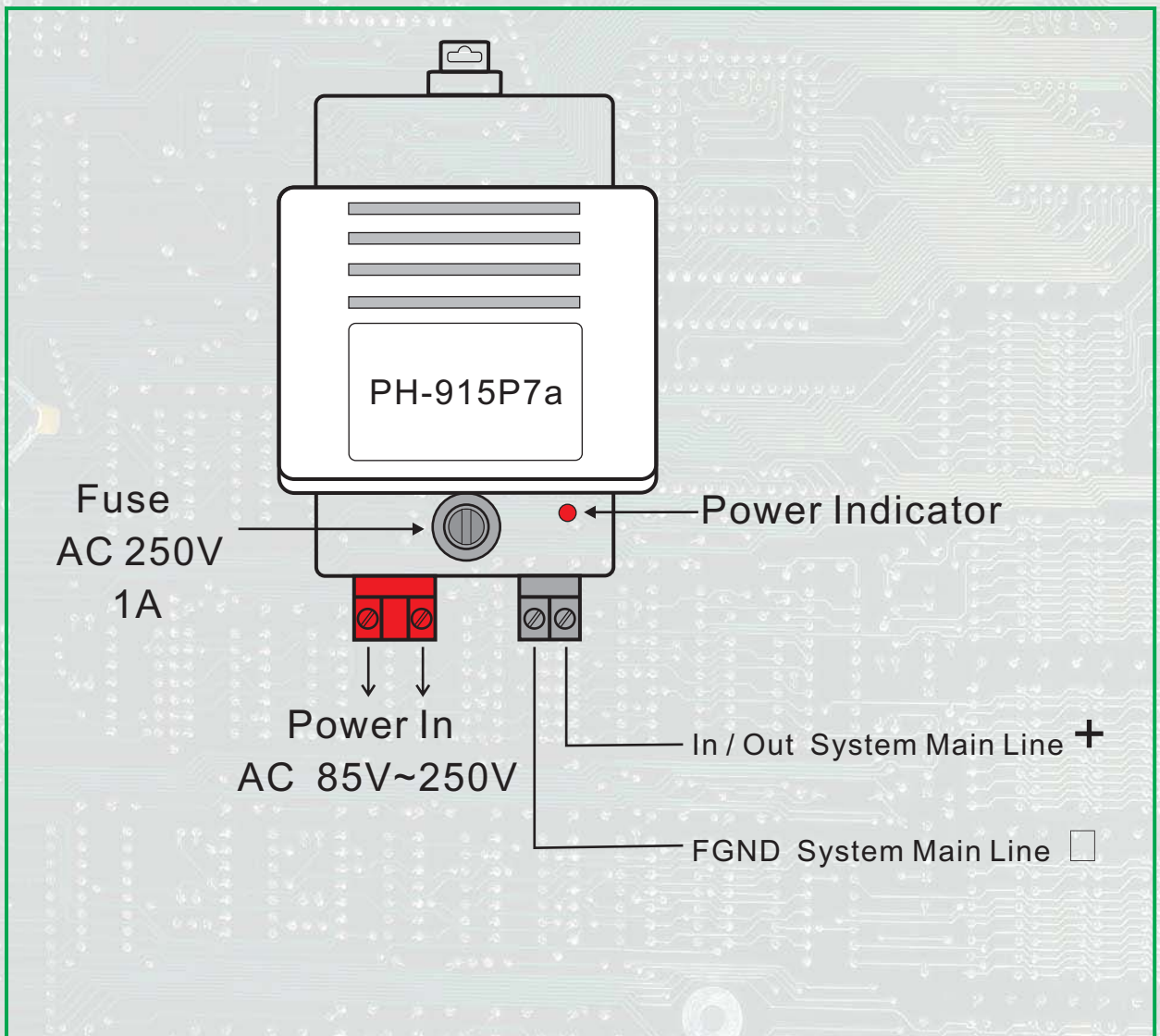
When you are talking with camera, an intercom call coming, please hang up the handset first then pick up the handset again for getting this intercom call.



### 915P7a Power Supply



Material : ABS  
Dimensions : 106x55x65mm  
Weight : 200 gs





# 915SP Splitter



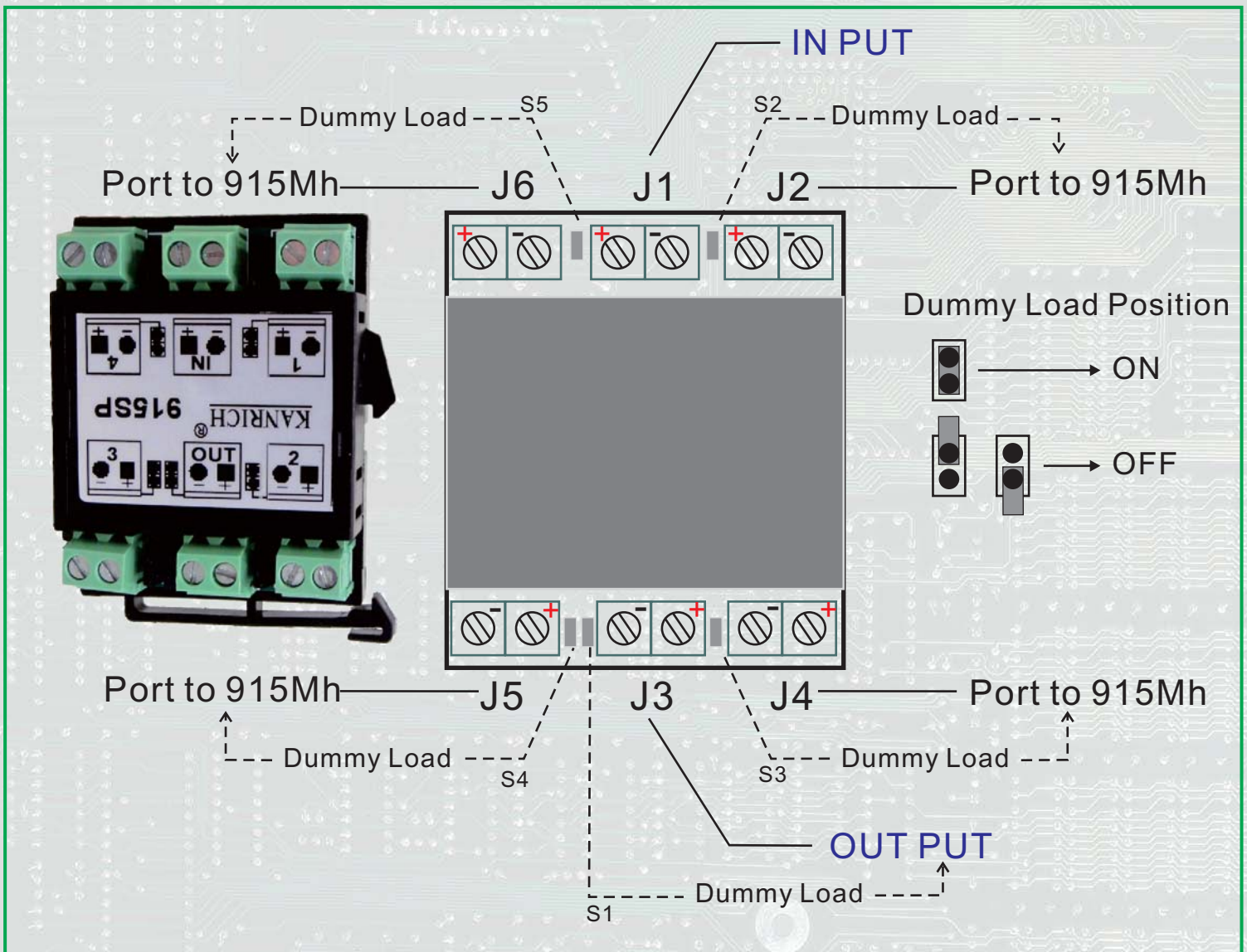
### Specifications :

Power : Power is from the main line of 915 system

Material : ABS

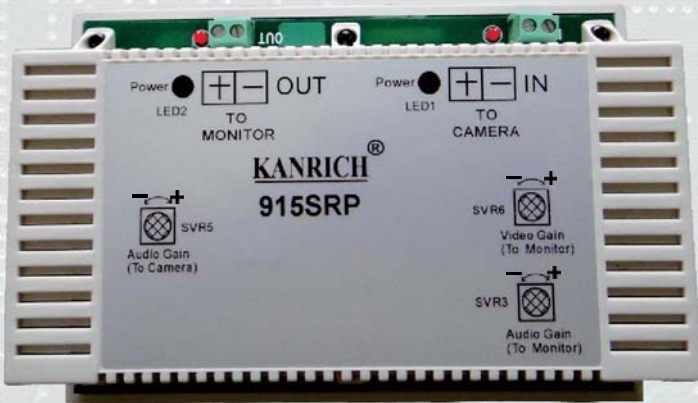
Dimensions: 67x54x19mm

Weight : 100 gs





## PH-915SRP Video/Audio/Signal Repeater

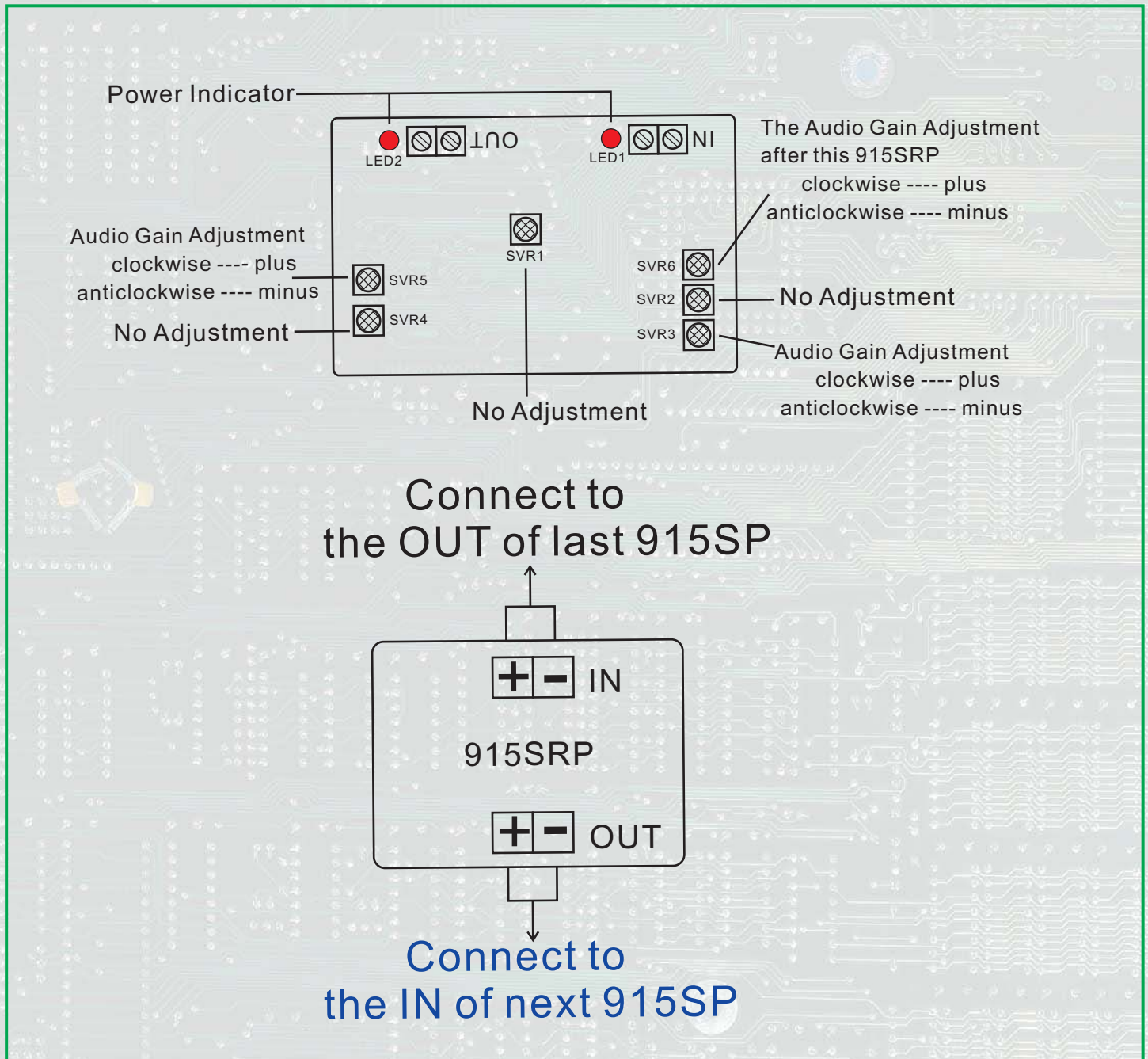


1. When you meet the Video, Audio & Control Data these signals are not good ,please add PH-915SRP to main line in system , PH-915SRP will improve all these problems .
2. No need to add an extra power supply to PH-915SRP.

Material : ABS

Dimensions: 107x156x50mm

Weight : 200 gs





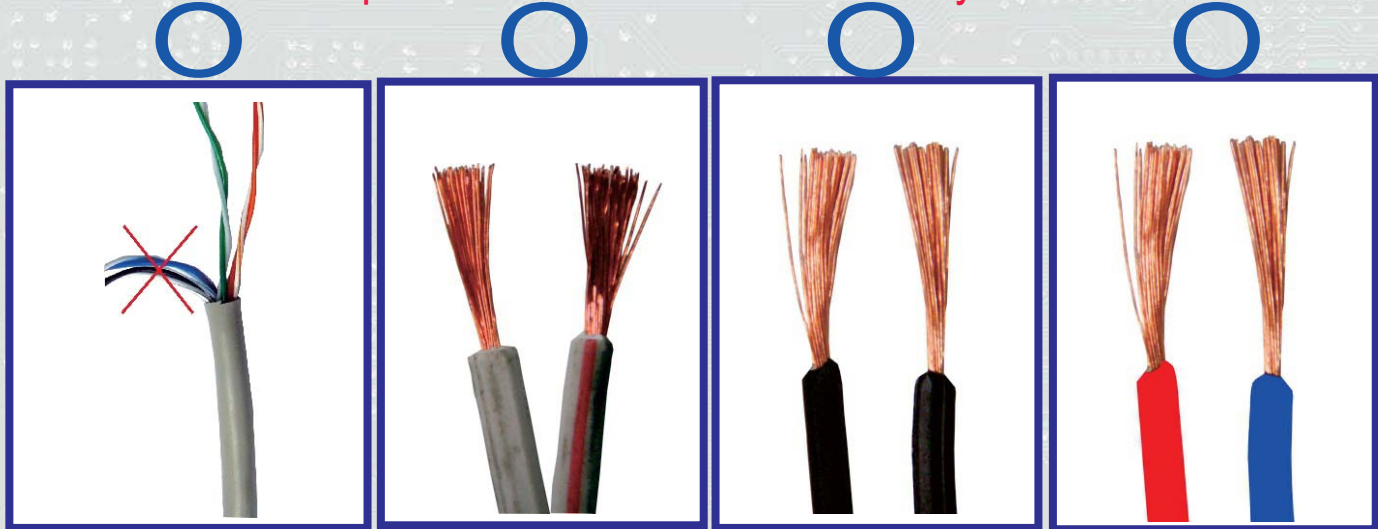
Please pay much attention to the requests of wire specifications and configurations for 915 system :

The cable specifications and configurations of 915 system are strictly .  
Cables and configurations of 915 system must in accordance with instruction.

“CAT.5 is the best connecting cable to 915 system.

Please check the following cable pictures . Never use "not qualified cable" .

Qualified wire specifications for 915 2-wire system :

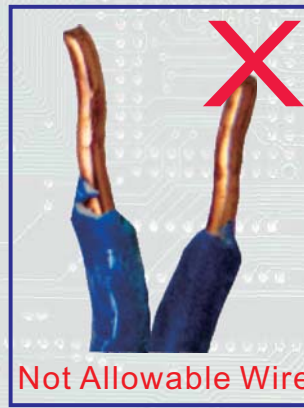


Cat.5(There are 4 pairs, just choose 2 of them will be OK.)

Multi-core power cable

Multi-core signal cable

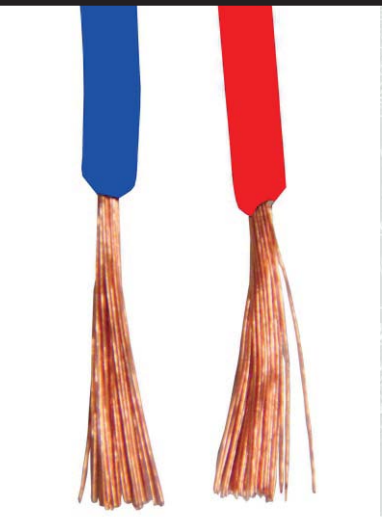
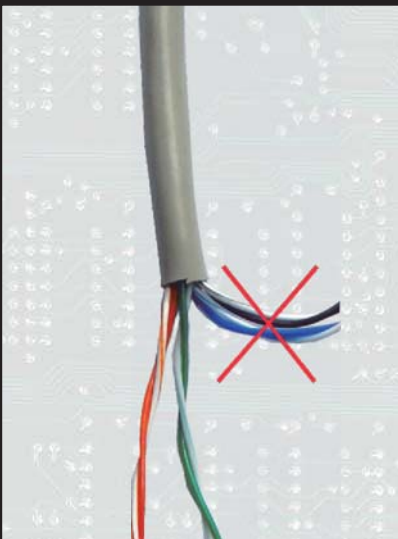
speaker cable



2. If your project can't do it according to this instruction, please contact us and let us know your detailed information for judging is available or unavailable. Any different cable specification and configuration raise the problem will make the whole system not work and no solution ,either.
3. There are 4 ports on 915SP, they are for connecting monitors. Any port is no monitor to connect, please disconnect wire from the port and switch "Dummy Load" to "ON" position, otherwise it will interfere the quality of signal and picture to the whole system.
4. The last 915SP output Dummy Load of each block must switch to "ON" position , the output Dummy Load of other 915SP must switch to "OFF" position.
5. How to check the problem when the system get a bad signal or bad picture ?
  - a. Please inspect the +,- of 2 wires are correct or reverse connection .
  - b. The IN/OUT direction of 915SP are correct or not , switch Dummy Load to correct position or not .
  - c. The IN/OUT direction of 915IP are correct or not .
  - d. The IN/OUT direction of 915RP are correct or not, switch Dummy Load to correct position or not .
  - e. All wire length whether they accord with our instruction .



# The cable specifications of 915 2-wire system

Cable Categories	Test Result	
Flat-Type power cable SPT-1 AWG18	<b>Quality is good</b> but the distance is up to <b>200M</b>	
UPT	<b>Quality is the best</b> and the distance is up to <b>300M</b> is still good.	
Twisted Cable	<b>Quality is not good</b> and the distance is only up to <b>100M</b>	