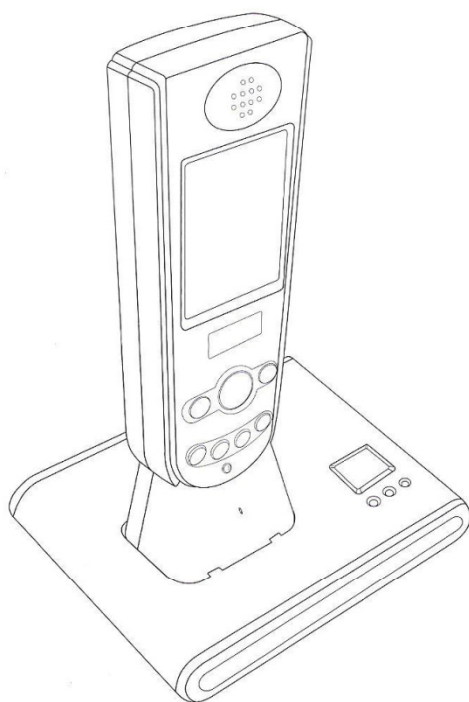


**DIGITAL WIRELESS
VIDEO DOOR PHONE SYSTEM**

Model: iCom



CATALOG

| | |
|------------------------------|---|
| I. CAUTIONS..... | 1 |
| II. PACKING LIST..... | 1 |
| III. SYSTEM FEATURES..... | 2 |
| IV. USER INSTRUCTIONS..... | 2 |
| V. SYSTEM SETUP..... | 4 |
| VI. SYSTEM INSTALLATION..... | 6 |
| VII. SPECIFICATIONS..... | 8 |

I . CAUTION Install to be done by a professional such as an electrician, locksmith etc

1.**Shock Hazard**--to prevent fire or shock hazard, do not expose the unit to rain, moisture or other liquid and do not overload the power cord.

2.**Instructions**--Read and keep the instructions-all safety and operating instructions should be read and followed before the unit is operated.

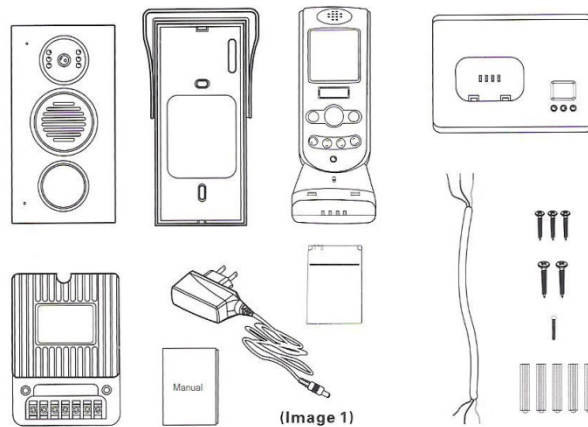
3.**Power Sources** -- This equipment should be operated only from the type of power source indicated on the marking label and the power cord protection is needed.

4.**Servicing and Replacement of Parts** -- Do not attempt to service this product or replace any part inside by yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

5.**Lightning**--or added protection for this product before a lightning storm, or when it is left unattached and unused for long periods of time, unplug it from the wall outlet and disconnect the cable system. This will prevent damage to the product due to lightning and power-line, telephone-line, RF cable and Actuator/Polarization surge protectors to protect your system from possible damage.

6.**Move with Care**--This product is easy for damage, care for it during transportation, storage and installation.

II . PACKING LIST



| Standard | |
|--------------------------------|---|
| ● Handset Unit | 1 |
| ● Camera Unit | 1 |
| ● Camera Unit Power Supply | 1 |
| ● Handset Docking Station | 1 |
| ● Docking Station Power Supply | 1 |
| ● User Manual | 1 |
| ● Accessory Bag | 1 |
| ● 2M 4 wire cable | 1 |

| Handset Supplied Parts | |
|---------------------------|--|
| ● Handset Unit | |
| ● Handset Docking Station | |
| ● Handset DC Adapter | |
| ● User Instructions | |

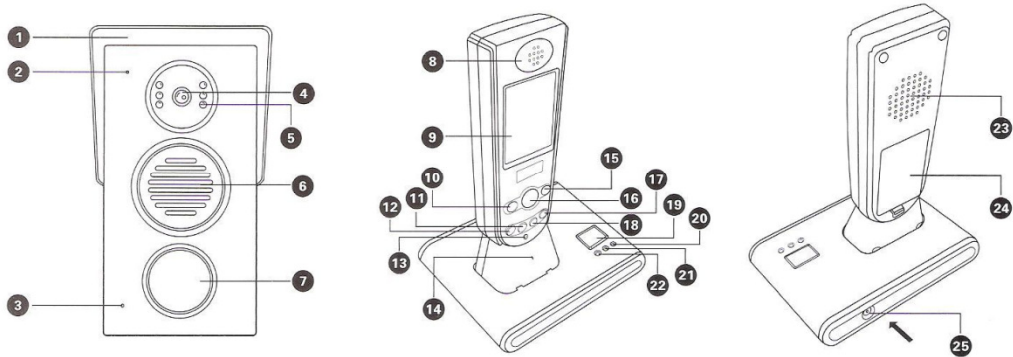
| Camera Unit | |
|---|---|
| ● Camera Unit | 1 |
| ● Camera Unit Power Supply with AC cord | 1 |
| ● User Instructions | 1 |
| ● Accessory Bag | 1 |
| ● 2M 4 wire cable | 1 |

III . SYSTEM FEATURES

- 1.Maximum 2 cameras and 2 handsets at the same time in one system.
- 2.Choosing 2.4G ISM digital public frequency resource:2402~2483.5MHz.
- 3.Transmitting at 20dBm , Receiving -100dBm;
- 4.With 8~12 digital audio serial input, DAC output, 8K audio aquisition for good audio quality. And audio volume presetable in 4 levels.
- 5.MJPEG digital video coding and decoding, 10~15 frames per second.
- 6.Reliable audio/video communication distance 150m in open area.
- 7.With AFH auto frequency jumping technology, working with 2.4G WIFI and bluetooth at the same time
- 8.With auto sleep mode, saving battery consumptions in stand by status.
- 9.With external power supply for camera units DC3.6-6V, with this consideration, the lock can not be opened by the camera unit, but signal from the handset unit
- 10.Random 40 bit encryption for digital audio and video to secure the communication
- 11.Random communication channel jumping and synchronization,no interference from same products installed nearby.
- 12.With communication, monitoring and remote lock opening functions
- 13.Permittting handset to handset communication, a walky talky feature
- 14.Digital camera and digital 2.4 inch TFT LCD for good image quality.
- 15.With technology for online software upgrade without change to hardware.




IV . USER INSTRUCTIONS

I). PRODUCT GUIDE



(Image 2)

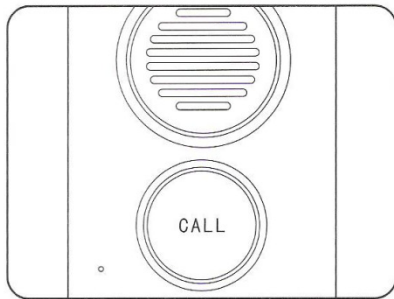
- 1—Rain Shelter;
- 2—Working Indicator for Camera Unit (Blue Color);
- 3—Microphone;
- 4—Camera;
- 5—Infrared Led;
- 6—Speaker;
- 7—Call Button;
- 8—Earphone Speaker;
- 9—Image Display LCD;
- 10— Handset On/Off Button  ;
- 11—Brightness Setting Key;
- 12—Music Setting Key;
- 13—Handset Working Indicator (Blue);
- 14— Microphone;
- 15—Door Release Button  ;

- 16— Communication On/Off Button;
- 17— Audio Volume Setting Key;
- 18— Color Setting Key;
- 19— Desk Top Talking On/Off Button;
- 20—  Battery Ready Indicator(Green); When battery is charged full, this indicator is constantly On;
- 21—  Battery Charging Indicator(Yellow): When battery is charging , this indicator is constantly On;
- 22—  Desk Top Talking Indicator(Red): When a handset placed on charger is called from camera unit, this indicator is constantly On;
- 23— Handfree Talking Speaker;
- 24—Battery Cover;
- 25—DC Power Jack.

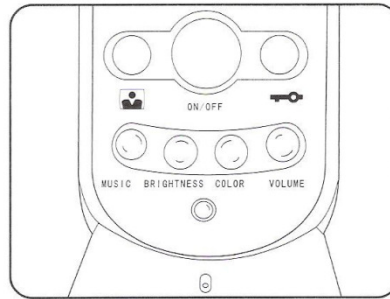
II). FUNCTIONS

1. VISITOR CALL

1). When a visitor presses the "Call" button on the outside camera unit to call the handset , the camera unit will have continuous "DU-" "DU-"chime, and the called handset sound "Call Music" with blue LED indicating the call and display the visitor's image on the LCD.



(Image 3)




(Image 4)

If the call is not connected with handset within 4s, the camera unit will sound continuous "DU-" "DU-" "DU-" "DU-" and return to standby.

Upon viewing the handset's LCD screen and the visitor's image, you have two choices;

- A. You can choose to "not respond" (by not pressing (ON/OFF) button, the call will be ended in 50s.
- B. You can choose to "respond" by pressing (ON/OFF) button to start a voice communication. Each voice communication last maximum 60s .

During the communication, you can press lock release button () to release the lock or press (ON/OFF) to end the call.

2. Handset

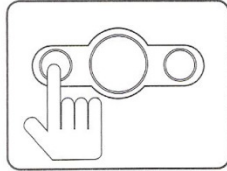


Image 1

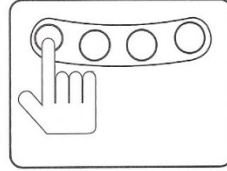
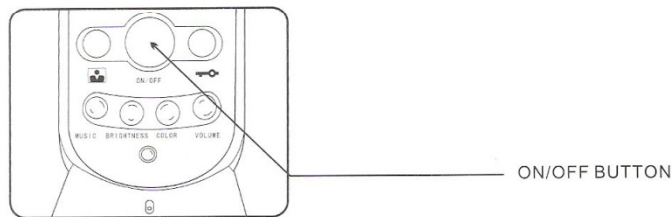


Image 2

Under standby status, you can press the " Handset Button " () to view the video from camera unit No 1 (see Image 1), and press "music setting key" to switch video from camera unit No 1 to No 2 if any (see Image 2). See above images. The view time lasts 60s maximum.

3. Call a handset



(Image 3)

Under standby status, you can press (**ON/OFF**) button to call another handset if any. If the other handset is within range respond by pressing (**ON/OFF**) button, a voice communication is then established. This communication lasts 60s max


V . SYSTEM SETUP

1). PAIRING PROCESS

If your system has only one handset and one camera unit, you don't need the pairing process. The IDs have been ex-factory configured as one handset and one camera unit. This process is only needed for following cases:

- 1.The units do not recognize each other under extremely rare circumstances, such as lightning;
- 2.You need to initialize the handset or camera unit to the existing system.


Recoding for Existing Camera units and handsets


Step 1 : Assume a handset(No 1 handset for example) as the system master, press Brightness key and button  together while in standby status until "handset Indicator" lights up constantly, the master will be in pairing mode .

Step 2 : Constantly press "CALL" button on camera unit until a "Di-" sound, the camera unit will be in pairing mode .

Step 3 : Within 16 seconds, if both monitor and camera unit sound "Di-" "Di-" "Di-", that means they are paired , the units will return to standby status automatically. If the pairing fails, both units only sound "Di-", returning to standby status automatically.

Pairing Handset to Camera Unit

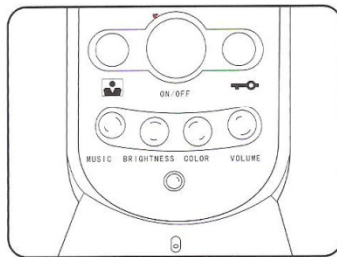
Step 1 : Press Brightness key and  button, same time while in standby status, until "Handset Indicator" flashes, the master is ready to pair the new devices to an existing system.

Step 2 : Press Brightness key and  button on the 2nd handset, same time while in standby status, until "Handset Indicator" flashes, the handset is ready for pairing to the existing system.

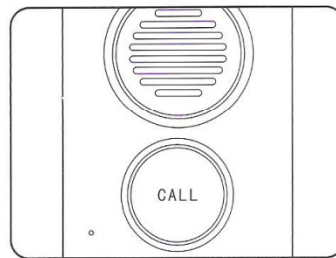
Within 16 seconds, if both handsets sound "Di-" "Di-" "Di-", that means pairing success, the handsets will return to standby status automatically. If the pairing fails, both units only sound "Di-", returning to standby status automatically.

Step 3: Constantly press "CALL" button on camera unit until a "Di-" sound while the master is in pairing status. Within 16 seconds, if both master and camera unit sound "Di-" "Di-" "Di-", that means they are paired, the units will return to standby status automatically. If the pairing fails, both units only sound "Di-", returning to standby status automatically.

For security consideration, each camera unit only has one chance for coding !





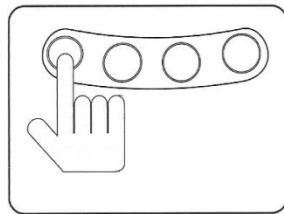
(Image 6)



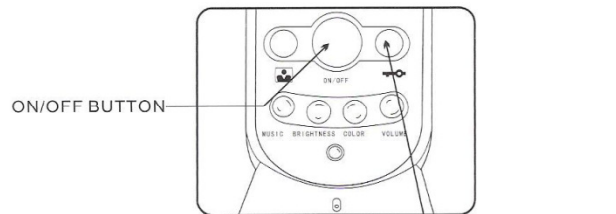
(Image 7)

2). CALL MUSIC SETUP

While the handset is in standby status, press the **Music Setting Key** for 3 seconds (image 8), you can start to select "Call Music" by press  button, there is a "Call Music" change each time you press  button. You can confirm the "Call Music" by press "ON/OFF" button (Image 9). There are totally 12 optional musics stored in handset.



(Image 8)

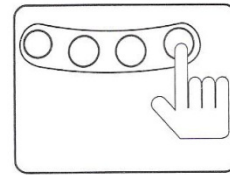


(Image 9)

LOCK RELEASE

3). VOICE VOLUME SETUP

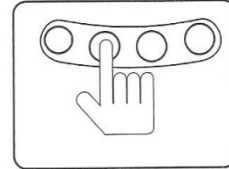
While the handset is in Communication status, you can press "Voice Volume Setting Key" (Image 10) to set the handset's voice volume. The voice volume increases each level after pressing, but it will return to the lowest level after pressing if the volume has been in the highest level. The alteration cycle is: 1→ 4→1.



(Image 10)

4). BRIGHTNESS SETUP

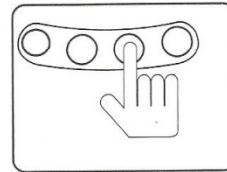
While the handset is in Communication status, you can press "Brightness Setting Key" (Image 11) to set the handset's display brightness. The brightness increases each level after pressing, but it will return to the lowest level after pressing if the brightness has been in the highest level. The alteration cycle is: 1→ 8→1.



(Image 11)

5). COLOR SETUP

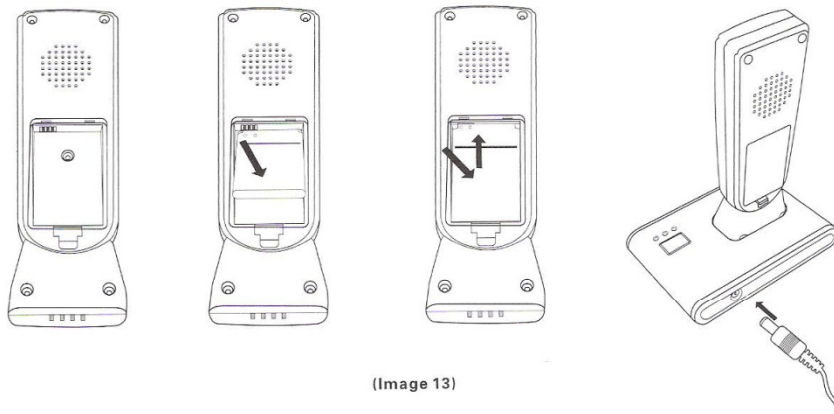
While the handset is in Communication status, you can press "Color Setting Key" (Image 12) to set the handset's display color. The color increases each level after pressing, but it will return to the lowest level after pressing if the color has been in the highest level. The alteration cycle is: 1→ 5→1.



(Image 12)

VI . SYSTEM INSTALLATION

1) . HANDSET



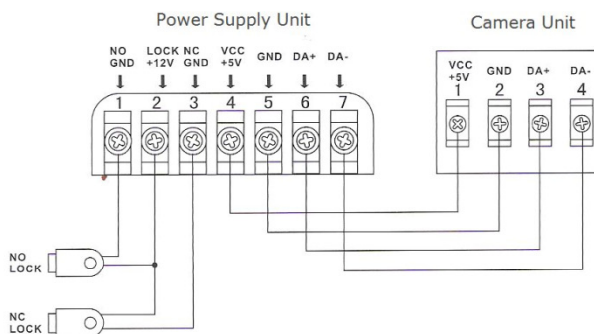
(Image 13)

please start the handset according to following steps:

- 1.Insert battery to the handset, Image15;
- 2.Put the handset on to the docking station
- 3.Connect docking station to AC power
- 4.The handset will function when the battery is charged properly.

Terminal 1 , 2 , 3 of power supply are for lock connection. Terminal 1 and 2 are used for 12V, NO (Normally Open) locks, say giving power to open, such as electric strike locks. Terminal 2 and 3 are used for 12V NC (Normally Closed) locks, say breaking power to open, such as electric strike locks.
Terminal 4 , 5 , 6 , 7 of power supply connect to terminal 1 , 2 , 3 , 4 of camera unit, the definitions are:VCC+5V, GND, DATA+, DATA-.

WIRING DIAGRAM



(Image 18)

VII . SPECIFICATIONS

1 . PRODUCTS

| | Handset Unit | Camera Unit | Power Supply Unit |
|------------------------|-----------------------------------|------------------------------------|---|
| Voltage Requirements | 3.7-4.2V | 4.8-5.2V | Input : 100V-240V, 50 Hz / 60Hz Output: 1599mA, DC5V/12V |
| Current | Standby: 20mA, Working: 300mA, | Standby: 100mA, Working: 250mA, | |
| Connection Method | Wireless | Wireless | 4 Wire |
| Monitor Screen | Wireless2.4" TFT LCD | | |
| Camera | | 1/3" digital | |
| Communication | 2.4G ISM | 2.4G ISM | Serial Port |
| Call Tone | 12 optional music | | |
| Communication Duration | 60 S | 60 S | Continuous |
| Communication Distance | 150M in open area | 150M in open area | 10M |
| Operating Temperature | -10--50°C | -10--50°C | -10--50°C |
| Storage Temperature | -20--70°C | -20--70°C | -20--70°C |
| Weight | 360G | 385G | 430G |
| Dimensions (mm) | 17*55*25mm | 200*110*40mm | 116*86*50mm |

2 . HANDSET CHARGER ADAPTER

Input Power : AC100V~220V Frequency: 50/60Hz

Output : DC9V \pm 0.2V 1000mA

3 . ACCESSORIES

| Name | Specifications | Qty | Application |
|------------------|------------------------|-----|-----------------------------------|
| Manual | 210*285mm | 1 | |
| Screw Insertion | 8*28mm | 5 | Fix rain shelter and power supply |
| Screw 1 | 4*18mm | 2 | Fix rain shelter |
| Screw 2 | 4*40mm | 3 | Fix power supply |
| Screw 3 | 3*8mm | 1 | Fix camera unit to rain shelter |
| Connecting Cable | 4wire 2.0M | 1 | Connect camera and power supply |
| Battery | 54*34*4.6mm,3.6V,600mA | 1 | For handset unit |