# MANUAL

**EVOLVEO**

| MODEL | VERSION / DATE |
|---|---|
| **DoorPhone IK06** | **III. / 25. 6. 2024** |



**EN**

# 7" VIDEO DOORPHONE

## CONTENTS
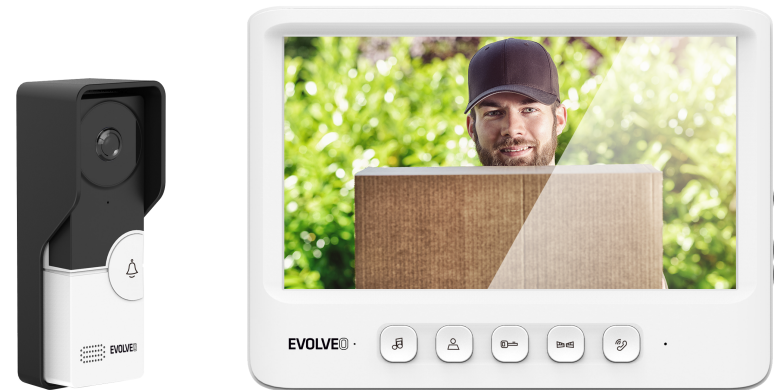
RoHS FC CE

# USER MANUAL

## Product description

The color video doorphone is composed of an indoor monitor of 7 inch, an out-door unit, and a power supply. It can be used to monitor, call, intercom and unlock. Suitable for villa, single house, hotel, office and etc, giving you the combined benefit of security and convenience.

## Features

- 7" TFT digital screen.
- Hands-free intercom.
- Smart recording with image or snapshot, and built-in memory for about 120 images
- Video recording for invisible recording instead of DVR  for picture auto-taking by the outdoor unit and storage into a max 32 GB TF card of the indoor unit.
- IP44 water-proof, damage-proof, oxidation-proof .
- Electronic-lock unlocking.
- Outdoor monitoring.
- Brightness, chroma, melody volume and talking volume can be adjusted via indoor unit.
- Night vision.
- Intercommunication between any two monitors.
- Enclosed an adapter.
- There are 12 different melody ring tones for option.
- Extendable up to 2 outdoor units work with 3 monitors, and 2 security camera and 2 sensors (For option) .

## Package contents

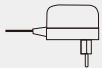| | | | |
|---|---|---|---|
| • Main monitor | • Slave monitor （for option） | • Outdoor unit | • Rain cover |
| • Adapter | • Bracket for indoor unit | • Screw | • Silicone cap |

## Warning

Don't throw batteries or out of order products with the household waste (garbage). The dangerous substances that they are likely to include may harm health or the environment. Make your retailer take back these products or use the selective collect of garbage proposed by your city.

## Caution

1. To prevent damage, the adapter should be fastened on the wall according to instruction.
2. Keep the power plug in a convenient location for easy disconnection of the device.
3. When connecting AC power wire, please finish the connection before plugging in the power.

## Troubleshooting

| Problem | Solutions |
|---------|-----------|
| No Video/Audio | ・Make sure all the connections are secured and properly connected.<br>・Make sure there is nothing obstructing the view of the camera. |
| No Video , but intercommunication is normal | ・Make sure all the connections are secured and properly connected.<br>・Make sure there is nothing obstructing the view of the camera. |
| No Audio when calling | ・Make sure the volume knob on the indoor unit is turned up.<br>・Make sure that there is nothing such as object with strong magnetism interfering with the speaker or microphone .<br>・Make sure all the connections are secured and properly connected. |
| The outdoor unit can not call the indoor unit | ・Make sure all the connections are secured and properly connected. |
| Door Unlock not Working | ・Make sure the connections with the locks are secured and properly connected.<br>・Make sure you have the lock wired to a power source enough to make it operate. |
| It is not possible to hear the extenal sound but the call tone is heard | ・Press TALK key for two-way intercom<br>・Make sure all the connections are secured and properly connected |
| It is possible to hear visualize the sound of the outside but is not possible to communicate | ・Press TALK key for two-way intercom as only pressing MONITOR key will prevent outdoor unit from hearing indoor unit.<br>・Make sure all the connections are secured and properly connected. |

## System installation

### A. Indoor unit

① Screw the bracket on the wall.
② Hang the unit on the bracket after finishing the connection. Plug the two ends of the jack of the power adapter into the sockets of AC power and the unit separately.
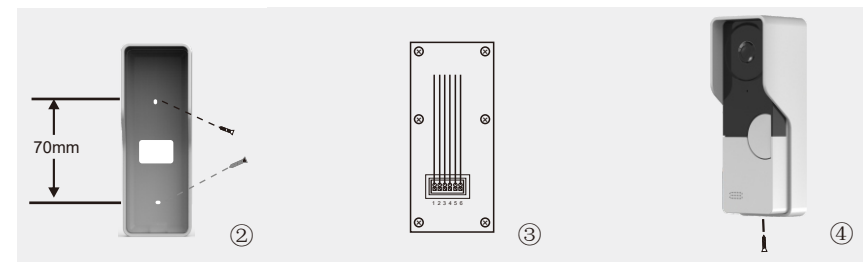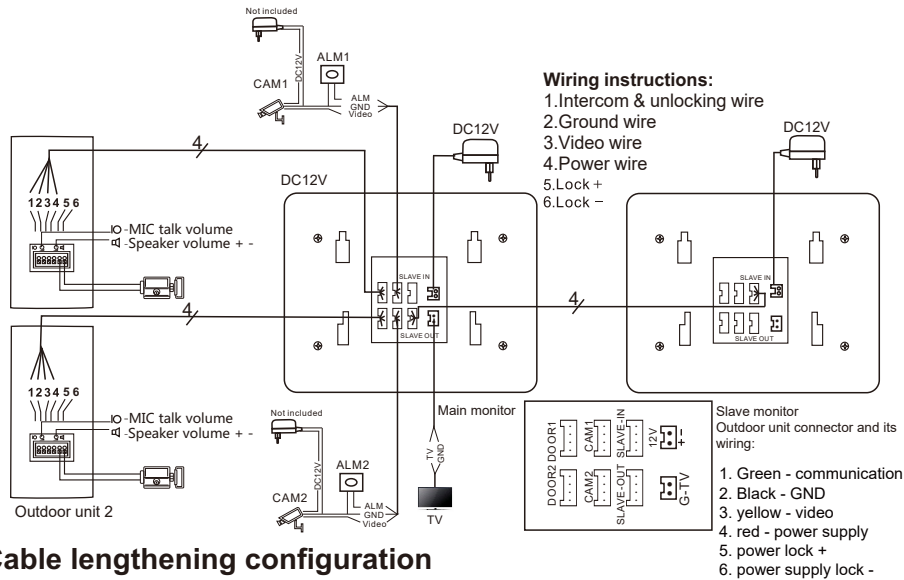


Bracket

### B.Outdoor unit

①.Fix the unit 1.4m - 1.7m high from the ground (according to the camera effect) so as to avoid direct sunshine.
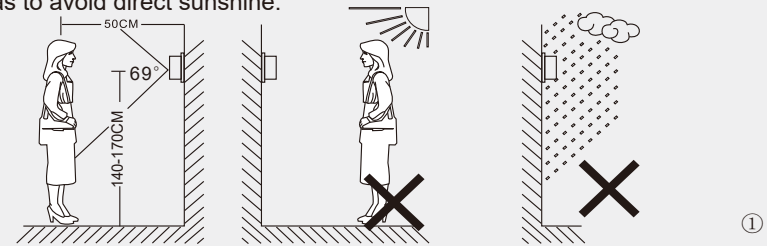


②.Drill proper holes in the wall, plug up the screw holes with silicone caps.
Fasten the rain cover on the wall with screws.

③.Refer to the wiring diagram to do the wire connection.

④. Fix the outdoor unit on the rain cover with screws.

# Wiring diagram



**Wiring instructions:**
1. Intercom & unlocking wire
2. Ground wire
3. Video wire
4. Power wire
5. Lock +
6. Lock −

Slave monitor
Outdoor unit connector and its wiring:

1. Green - communication
2. Black - GND
3. yellow - video
4. red - power supply
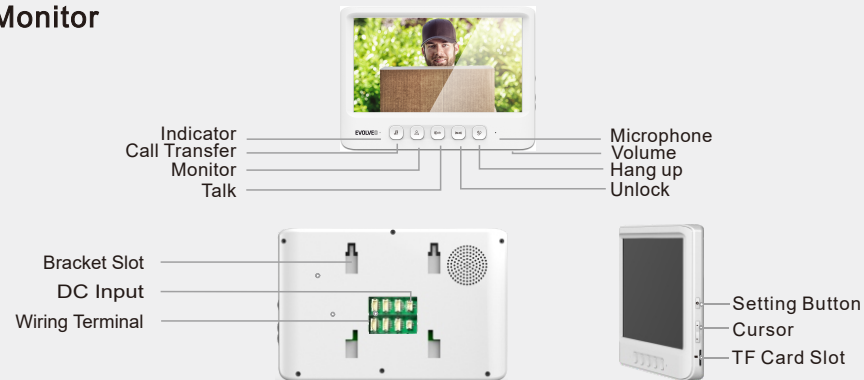5. power lock +
6. power supply lock -

## Cable lengthening configuration

- When the working distance is 10m, use UTP CAT5. If the user wants to lengthen the cable into 10m- 30m, use UTP CAT6 or CYKY 3x2x05 connecting wire. If the user wants to lengthen the cable into 30m- 50m, use CYKY 3x2x05 connecting wire. Connect the wiring terminals 1、2、3、4 of indoor unit with the wiring terminals 1、2、3、4 of outdoor unit separately.
- The wiring terminals 5&6 of outdoor unit can also be connected with electronic lock.The cable of electronic lock use 3x2x0,5.

# Operation buttons

## Monitor



Indicator
Call Transfer
Monitor
Talk

Microphone
Volume
Hang up
Unlock

Bracket Slot
DC Input
Wiring Terminal

Setting Button
Cursor
TF Card Slot

# Technical specifications

## Indoor unit

| Screen Size | 7" |
|---|---|
| Resolution | 800(H)×480(W) |
| Effective Area | 154.08 (H)×86.58 (W)mm |
| Dot pitch | 0.0642(W)×0.1790(H)mm |
| Outline Size | Main Monitor  182(W)X133(H)X19.5(D)mm |
| | Slave Monitor  182(W)X133(H)X19.5(D)mm |
| Adapter Input Voltage | AC100-240V 50Hz/60Hz |
| Adapter Output Voltage&Current | DC12V 1A |
| Monitoring time | 60S±10% |
| Talking time | 120S±10% |
| Working Distance | 50m($4\times0.75$mm$^2$) |
| Power Consumption | Static state <3W Working state <5W |
| Operating Temperature | −20℃～+50℃ |
| Relative Humidity | 10%～90%（RH） |

## Outdoor unit

| Night Vision | Infrared light |
|---|---|
| Operating Temperature | -20℃～+50℃ |
| Illumination | 0. 1LUX |
| Resolution | 600 TV lines (CMOS) |
| Viewing Angle | 110° wide angle (CMOS) |
| Size (with rain cover) | 44.5(W)X124.5(H)X42(D)mm |
| Size (without rain cover) | 40(W)×120(H)×29. 5(D)mm |

## CCTV & Alarm Instructions

CAM1 and CAM2 of this production have each an alarm function. When the trigger terminal and GND is shorted, the alarm is activate, the speaker of the indoor unit rings and continues 120s, during this time, click ⊛ to stop alarming and enter the standby mode.
For the models with TF card, simultaneously, triggers recording or snapshotting (related to the system settings). The recording time is 15s, during this time, click ⊛ to stop alarming and enter the standby mode.
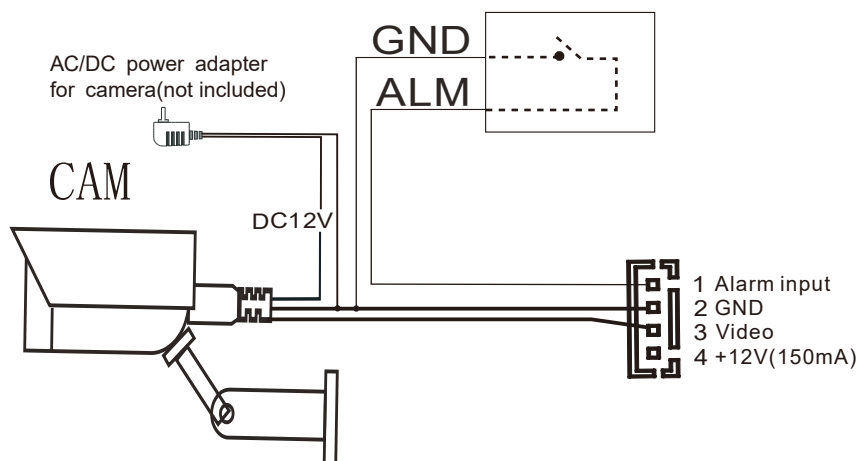
Use a PAL format analog camera with at least 500TVL.

## Connection diagram:

ⓘ 2 Camera channels(CAM1 & CAM2) of alarm input without limitations input type, either the NO(normally open) or the NC(normally closed) are available.

The Output terminal of the alarm detector should be connected with the Alarm Input terminal on the back panel of monitor.
The terminal +12V can be used as power supply for Camera and Alarm. Or the external power adaptor is avaliable.
(Note:The current rating is 150mA.)

For NO alarm input, when the GND and ALM are in the connection state, it will trigger the alarm.
For NC alarm input, when the GND and ALM are in the disconnect state, it will trigger the alarm.

AC/DC power adapter for camera(not included)

GND
ALM

CAM

DC12V

1 Alarm input
2 GND
3 Video
4 +12V(150mA)

## Outdoor Unit



Rain cover
Camera
Night - vision light
Microphone
Call
Speaker

## Safety Instruction

· Keep the indoor unit away from high temperature such as near an oven or

  under direct sunlight, and high humidity such as bathroom and greenhouse.

· Do not install the indoor unit close to a television or position with strong

  jamming- the signals the TV and the intercom use can be interfered with

  each other.

· Do not touch the unit with wet hands.

· Avoid throwing, dropping or hitting the units.

· Clean the camera or screen with a soft cloth. Do not use detergent,thinner,

  volatile or corrossive liquid.

· Do not expose the camera of the outdoor unit to direct sunlight.

· Use the product under the circumstance of barrier-free and no inteference.

· When a car or a motorbike passes by, the image may become blurred or be

  cut off due to the interference of radio wave.

## Operation instruction

### ◆ VISITOR CALL

**Standby mode**

The Visitor press the **call** button on outdoor camera 1

The Visitor press the **call** button on outdoor camera 2

▼ A ringtone is heard inside and outside

**NOTICE:**

The visitor's image automatically displayed on the screen

If both call button on two outdoor camera are pressed at approximate to the same time, the preference will be given to the outdoor camera which call button was pressed first, unless the call button is pressed again after the indoor monitor go into standby mode, please be aware of that there is no indication on second outdoor camera .

▼

Press the **talking** button on indoor monitor

▼ Stop ringing

**NOTICE:**

Start conversation with outdoor camera

The indoor unit will automatically go into standby mode if you are not at home or have not reached the indoor unit in 60s.

▼ The conversation duration is 120s at a time

Press the **unlock** button on indoor monitor

▶ release the door lock

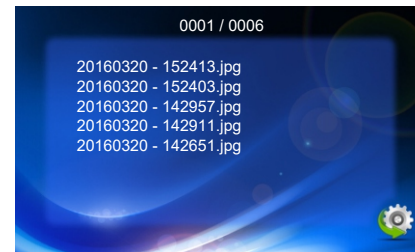Press the hang up button on indoor monitor

▶ End

ⓘ In record mode: It will start recording when the call button is pressed. Press " ✿ " to record another recording. Each recording will last for 14s.

ⓘ In snapshot mode: It will take a picture when the call button is pressed. Press " ✿ " to take another picture.

ⓘ In the monitoring state: the machine can listen to the sound of the outdoor machine, you can press the button 🕾 to conversation and press the button to unlock.

---

6.1 Files – Record files
On "Files" menu press the button " ↕ " upward or downward to move the cursor to the option "Record Files", press the button " ✿ " to enter the "record files list". Press the the button " ↕ " upward or downward to move the cursor to select file to playback, a red list indicates that the list has been selected, press the button " ✿ " to choose to playback, delete current file or delete all files. During playback press the button " ↕ " upward or downward, it will switch the current video to the last file or the next file, and press the button " ✿ " again to exit. Move the cursor to the option "Return" and press " ✿ " to exit the current menu.

```
                    0001 / 0006

        20160320 - 152413.jpg
        20160320 - 152403.jpg
        20160320 - 142957.jpg
        20160320 - 142911.jpg
        20160320 - 142651.jpg
```

6.2 Files – Snapshot filesge)
On "Files" menu press the button " ↕ " upward or downward to move the cursor to the option "Snapshot Files", press the button " ✿ " to enter the "snapshot files list". Press the the button " ↕ " upward or downward to move the cursor to select file to view, a red list indicates that the list has been selected, press the button " ✿ " to choose to playback, delete current file or delete all files. During playback press the button " ↕ " upward or downward, it will switch the current picture to the last file or the next file, and press the button " ✿ " again to exit. Move the cursor to the option "Return" and press " ✿ " to exit the current menu.

```
    20160320 - 152419      0010
    20160320 - 152418      0009
    20160320 - 152402      0008
    20160320 - 152400      0007
    20160320 - 143001      0006
    20160320 - 142954      0005
    20160320 - 142925      0004
    20160320 - 142924      0003
    20160320 - 142839      0002
    20160320 - 142720      0001

                    001 / 002
```

Door 1   Door 2

CAM 1   CAM 2

On the color menu the video color of Door1/Door2/CAM1/CAM2 attributes can be adjusted for the best image quality. Press the button " ⬥ " upward or downward to move the cursor to the option "Door1" or "Door2" or "CAM1" or "CAM2", then press " ✿ " to enter the corresponding menu to adjust values of brightness, contrast and chrome depending on the actual conditions.
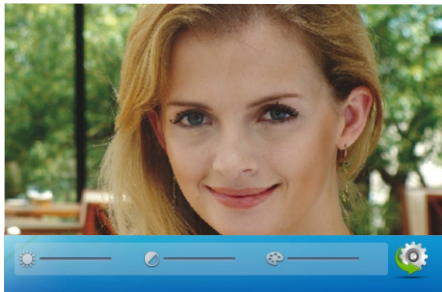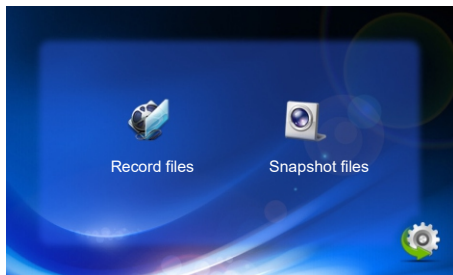


Brightness, values can be set up from 0 to 50, default as 25.

Contrast, values can be set up from 0 to 50, default as 25.

Chrome, values can be set up from 0 to 50, default as 25.
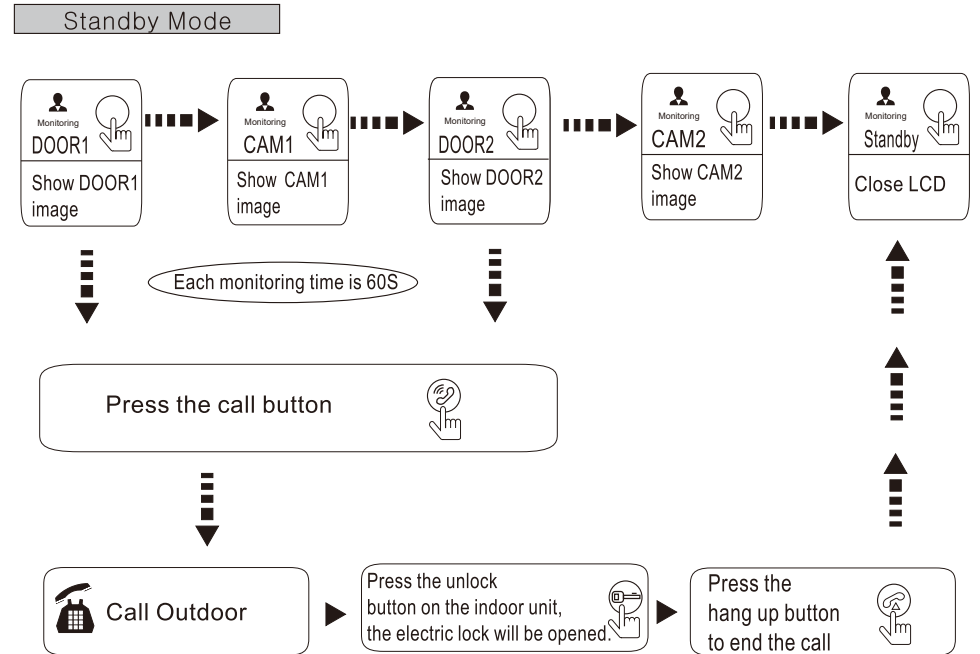
[Return]: Exit the current menu.

6. Playback
On main menu, move the cursor to the option "Files", then press " ✿ " to enter the "Files" menu. Options include "Record files" and "Snapshot files"



Record files   Snapshot files

## Monitoring

Option in the settings in the menu: DOOR1, CAM1, DOOR2, CAM2 operating mode (open or closed)

Standby Mode



Monitoring
DOOR1
Show DOOR1 image

Monitoring
CAM1
Show CAM1 image

Monitoring
DOOR2
Show DOOR2 image

Monitoring
CAM2
Show CAM2 image

Monitoring
Standby
Close LCD

Each monitoring time is 60S

Press the call button

Call Outdoor

Press the unlock button on the indoor unit, the electric lock will be opened.

Press the hang up button to end the call

ⓘ NOTICE:

If you are using only one outdoor camera in monitoring mode, you can also end the monitoring mode by pressing the monitoring button again（Must be Close CAM1; DOOR2; CAM2 in the menu option）.

ⓘ If you use two indoor units, you can also simultaneously in other indoor unit starts monitoring mode, the same images are displayed on the screen of the different indoor unit.

ⓘ If a conversation with outdoor unit is underway in monitoring mode, during this time a visitor press the call button on either of outdoor unit, the monitoring mode will be switched off, the just visitor's image will appear on its screen and continuous ringing will be heard. If you are using the indoor unit with hands-free, you can press the talking button to reactivate conversation with the visitor.

ⓘ In monitoring, press "✿" to perform manual video/snapshot ( related to the system settings). The recording lasts for 14s.

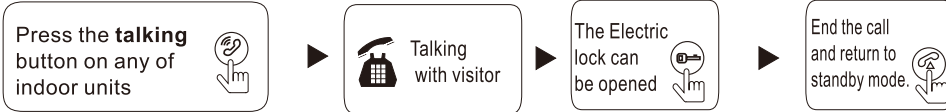# Call transfer to other extension

Internal communication function requires at least two indoor and one outdoor units to be connected.

| Outdoor camera call indoor monitor and conversation is underway |

▼

| Press this button to activate the function of **call transfer to other extension** |

▼ A continuous ringtone is heard

| Press the **talking** button on any of indoor units | ▶ | Talking with visitor | ▶ | The Electric lock can be opened | ▶ | End the call and return to standby mode. |

**ⓘ NOTICE:**

• When you are transferring a call to other extension, the original conversation indoor unit will return to standby mode, and the indoor unit which the call is being transferred will also sound a continuous ringtone and the video image will appear on its screen.

• Call transfer function can work only if one monitor is set as Master, the other as Slave.

# Internal communication among indoor units

**At least 2 indoor units is required.**

| Standby Mode |

| Press the **Transfer Call** button |

▼ A continuous ringtone is heard

| Press the **talking** button on any of indoor units |

▼

| Start conversation among indoor units. |

▼

| Press Hang up button | ▶ | End |

**ⓘ NOTICE：**

• In **internal communication** mode, if a visitor press the call button on either of outdoor unit, the **internal communication** mode will be switched off. The just visitor' s image will appear on its screen and continuous ringing will be heard, you can press the **talking** button to reactivate conversation with the visitor.

• Internal communication function can work only if one monitor is set as Master, the other as Slave.

---

## 4. Set the alarm parameters

On main menu, move the cursor to the option "Alarm", then press " ✿ " to enter the "Alarm" menu.



| CAM 1 Sensor Type: | ON |
| CAM 2 Sensor Type: | ON |
| CAM 1: | ON |
| CAM 2: | ON |
| CAM 1 ring time: | 05 Sec |
| CAM 2 ring time: | 05 Sec |
| Alarm record: | Snapshot |

[Sensor type]: Each camera channel corresponds to an I/O status (see the following status explanations), which means that when an alarm is triggered, it will activate the corresponding channel to start alarm recording or capture a snapshot.

ON: When set the I/O to "ON", the indoor unit will distinguish the sensor type automatically. I/O status types:

NO: "Normally open", it means that in its normal state, the sensor is kept under constant low voltage. If the output voltage changes from low to high, then the alarm will be triggered.

NC: "Normally closed", the normal state of the sensor is under constant high voltage. If the output voltage changes from high to low, then the alarm will be triggered.

OFF: Set the I/O to "OFF", if external sensor alarms are not in use.

[CAM1]: Enable or disable the preview of camera 1.

[CAM2]: Enable or disable the preview of camera 2.

[CAM 1 ring time]: The alarm ring time of camera 1 if camera 1 has been triggered by activity detected by the sensor, values can be set from 0~30 seconds.

[CAM 2 ring time]: The alarm ring time of camera 2 if camera 2 has been triggered by activity detected by the sensor, values can be set from 0~30 seconds.

[Alarm record]: Options include "Record" and "Snapshot". "Record" indicates that when an alarm is triggered, it will activate the corresponding channel to start alarm recording. "Snapshot" indicates that when an alarm is triggered, it will activate the corresponding channel to capture a picture of the current video stream as a still photo.
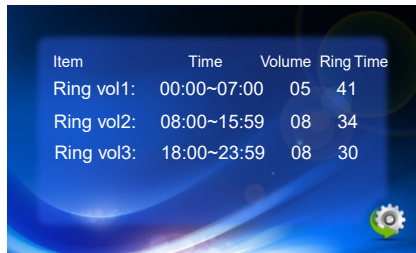
[Return]: Exit the current menu.

## 5. Set the color parameters

On main menu, move the cursor to the option "Color", then press " ✿ " to enter the "color" menu.

[Ring Vol1]: the volume level of Ring Vol1: 01-10.
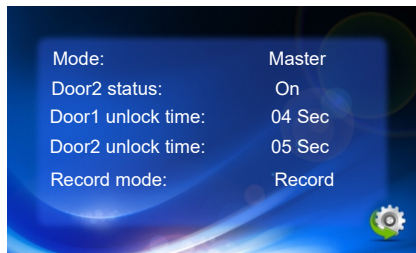[Ring Vol2]: the volume level of Ring Vol2: 01-10.
[Ring Vol3]: the volume level of Ring Vol3: 01-10.

| Item | Time | Volume | Ring Time |
|------|------|--------|-----------|
| Ring vol1: | 00:00~07:00 | 05 | 41 |
| Ring vol2: | 08:00~15:59 | 08 | 34 |
| Ring vol3: | 18:00~23:59 | 08 | 30 |

## 3. Set the mode of indoor unit

On main menu, move the cursor to the option "Mode", then press " ✿ " to enter the "Mode" menu.

| Mode: | Master |
|-------|--------|
| Door2 status: | On |
| Door1 unlock time: | 04 Sec |
| Door2 unlock time: | 05 Sec |
| Record mode: | Record |

[Mode]: Options include "Master" and "Slave". "Master" indicates that the indoor unit
connects the outdoors or cameras, "Slave" indicates that the indoor unit
connects the main or sub indoor unit.

[Door2 status]: Enable or disable the preview of Door2.

[Record mode]: Options include "Record" and "Snapshot". "Record" indicates that the
device with TF card will start record automatically when a visitor press
the call button on the outdoor camera. "Snapshot" indicates that the
device with TF card or built-in storage will capture a frame of the
video stream as a still photo if a visitor press the call button on the
outdoor camera.

[Door1 Unlock Time]: From 02 seconds to 10 seconds.

[Door2 unlock time]: From 02 seconds to 10 second.

[Return]: Exit the current menu.

## Menu operations
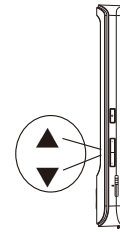
NOTICE：

The button " ▲▼ " is a two-in-one key, but also composite keys:
In standby mode, press the button " ✿ " once to enter the main menu settings. In main
menu settings, press the button " ▲▼ " upward or downward to select sub-menu, then
press " ✿ " again to enter sub-menu. In sub-menu settings, press " ▲▼ " to select menu
options, press " ▲▼ " upward or downward to adjust values of each option, then press
" ✿ " to confirm. When select option "Return" on main menu, press the button " ✿ " to exit
menu interface, and the indoor device will be into standby mode.

If users don't do any operate or enter any interface about the indoor machine, the indoor device
will be into standby mode after 1 minute automatically.

In standby mode, press the button " ✿ " to access the main menu interface, shows the main
interface as shown below. On menus, press " ▲▼ " upward or downward to move the cursor to the
option "Return", and then press " ✿ " to exit.

System    Ring    Mode

Alarm    Color    Files
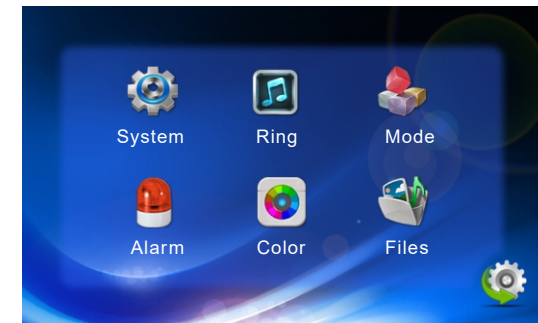
## 1. Set System Parameters

Press the button " ▲▼ " upward or downward to move the cursor to the option "System",
then press " ✿ " to enter the "System" menu. System setup includes: "Language",
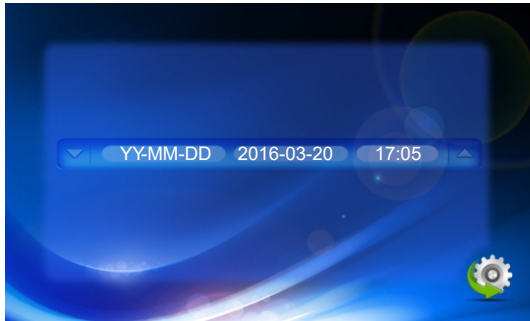"Time" and "Information".

Language    Time    Information
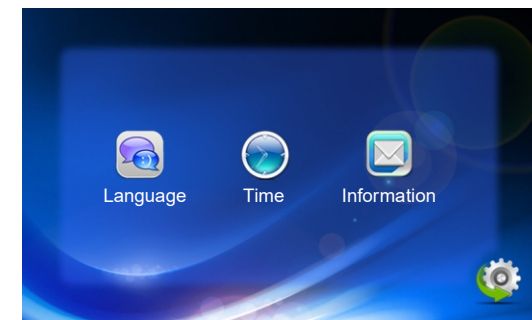
1.1 System – Language

On system menu, move the cursor to "Language" and press " ✿ " to enter the
"Language" menu. Use this field to change the language of the machine menu text and
the on-screen display. Press " ▲▼ " upward or downward to select the language option,
then press " ✿ " to confirm.
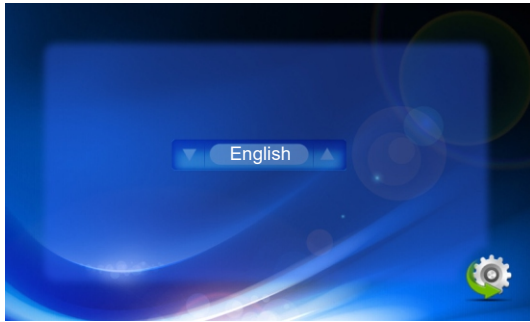
1.2 System – Time



On system menu, move the cursor to "Time" and press " ✿ " to enter the "Time" menu. Use this field to switch the date format, include "YY-MM-DD" and "DD-MM-YY", to adjust system date and time. First press " ↕ " upward or downward to move the cursor, and press " ✿ " to select menu options, and then scroll " ↕ " upward or downward to adjust values, then press " ✿ "  to confirm.

1.3 System – Information
On system menu, move the cursor to "Information" and press " ✿ " to enter the "Information" menu. The information includes software version and release date.
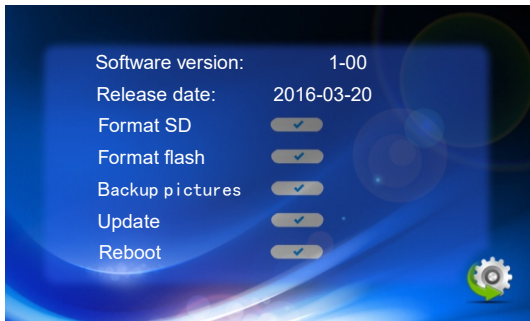


[Format TF]:   Format TF card, please format TF card firstly before using.

ⓘ Note: The product only supports those TF cards more than Class10.

[Reboot]: Move the cursor to " ✓ ", and press " ✿ ". It will pop-up a window, choose "Yes" to restart the machine, choose "NO" to cancel.
[Update]: For the models with TF card, users can upgrade the firmware of the device via TF card.
Note: During the system upgrading, don't remove the TF card or turn the indoor device disable. After completing the upgrade, the device will restart.
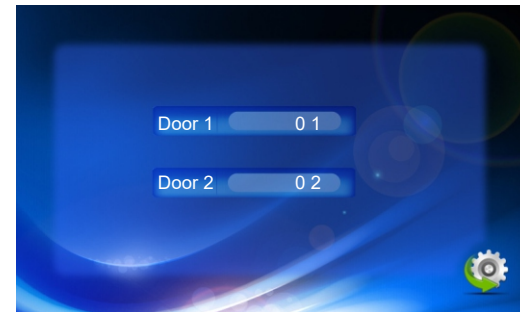[Return]: Exit the current menu.

2. Set the tone parameters
On main menu, move the cursor to the option "Ring", then press " ✿ " to enter the "Ring" menu. Ring setup includes: "Ring select" and "Ring volume".
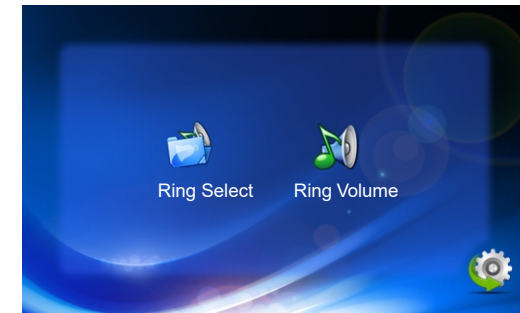


2.1 Ring – Ring select
On ring menu, move the cursor to "Ring select" and press " ✿ " to enter the "Ring select" menu to set up the doorbell tone of the outdoor camera.



[Door1]: To set up the doorbell tone of the outdoor camera 1, a total of 12.

[Door2]: To set up the doorbell tone of the outdoor camera 2, a total of 12.

[Return]: Exit the current menu.

2.2 Ring – Ring volume
On ring menu, move the cursor to "Ring volume" and press " ✿ " to enter the "Ring volume" menu to set up the ring volume. Users can set up different ring volume during three different time period,   the ring time can be adjusted from 15s to 60s when calling

**Do you still need an advice after reading this guide?**
First read "Frequently Asked Questions" at **www.evolveo.com** or contact the **EVOLVEO** technical support.

**The warranty DOESN´T APPLY to:**
- using the device for other purposes than it was designed to
- mechanical damage of caused by inappropriate using
- damage caused by the natural elements as fire, water, static electricity, overvoltage and so on
- damage caused by unauthorized repair
- damage of the guarantee seal or unreadable serial number of the device

**Disposal:** The symbol of crossed out container on the product, in the literature or on the wrapping means that in the European Union all the electric and electronic products, batteries and accumulators must be placed into the separate salvage after finishing their lifetime. Do not throw these products into the unsorted municipal waste

## ⓘ CE DECLARATION OF CONFORMITY

Hereby, the company Abacus Electric, s.r.o. declares that the EVOLVEO Doorphone IK06 is in compliance with the requirements of the standards and regulations, relevant for the given type of device.

Find the complete text of Declaration of Conformity at i uq;00g.q/f wpmf p/dpn 0df 0

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Qm:oǐ!3-481!12-!D{f di !Sf qvcmjd

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