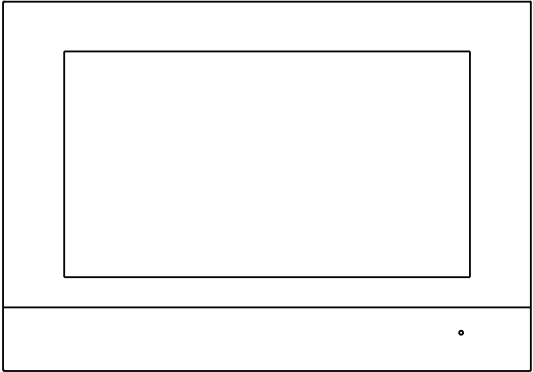
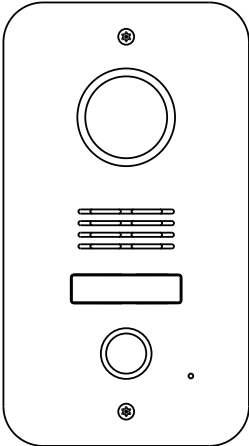



TE Series 2W Kit

Product Manual



Warnings:

This package is a 2-wire digital intercom system package, including an outdoor unit and an indoor unit. Please read this manual before installing the product.

If the wire between the outdoor unit and the indoor unit is not connected, an icon() will be displayed on the indoor unit's main port, indicating that the wire between the outdoor unit and the indoor unit is not connected properly or not connected at all.

The outdoor unit device supports the connection with two locks, where the first lock can be connected to the electronic control lock or signal lock, and the second lock is only the switch output; the user can control the lock, motor or light and other equipment through the external relay.

If the first lock connected to the outdoor unit is an electronic control lock, and the lock type of the first lock must be set as the electronic control lock in the parameter settings. If the first lock connected to the outdoor unit is a signal lock, the lock type of the first lock must be set as the signal lock in the parameter settings and the unlock duration must be set. If the settings are wrong, it will not be unlocked correctly.

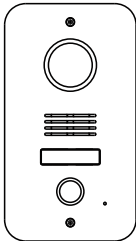
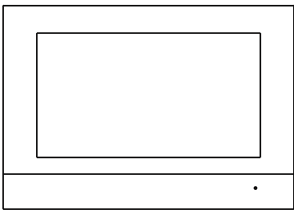
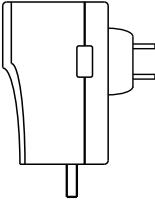
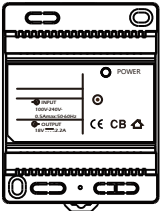
Description of product model

Sequence No.	Model	Product name
1	EH2W-IS-V31-001	V31 Two Wires Digital Indoor Unit
2	EH2W-OS-M55-001	Model 15 Two Wires Digital Outdoor Unit
3	EH2W-OS-M55-002	Model 15 Two Wires Digital Outdoor Unit
4	EH2W-OS-M55-003	Model 15 Two Wires Digital Outdoor Unit
5	EH2W-OS-M55-004	Model 15 Two Wires Digital Outdoor Unit

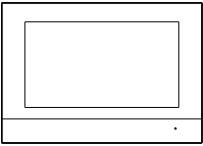
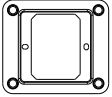



Contents

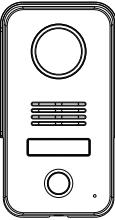

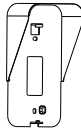


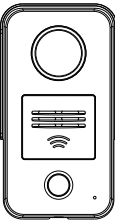






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1. Contents of the Package

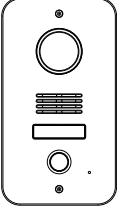

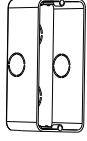


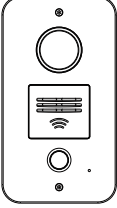




Outdoor Unit x 1	Indoor Unit x 1	Power Supply x1
		 or 

Note: In different packages, the power supply may be different types.

Indoor Unit				
 V31-001	 × 1 Bracket	 × 2 Screw(M4*20PMC)	 × 1 Wire(2.0)	 × 2 Wire(2.54)

Outdoor Unit	Different	Identical		
 M55-001	 × 2 Nameplate	 × 1 Rain shield	 × 2 Screws	 × 1 Screws
 M55-002		 × 3 Expansion tube	 × 1 Screw driver	 × 1 Wire(2.0)
		 × 3 Wire(2.54)	 × 1 Wire(2.54)	 × 3 Waterproof seal

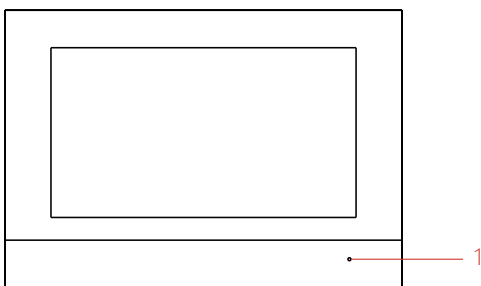
Note: Please use the enclosed waterproof seal to replace the broken one after upgrading the programs.

Outdoor Unit	Different	Identical		
 M55-003	 × 2 Nameplate	 × 1 Embedded box	 × 2 Copper nut	 × 1 Screws
 M55-004		 × 1 Screw driver	 × 1 Wire(2.0)	 × 3 Wire(2.54)
		 × 1 Wire(2.54)		

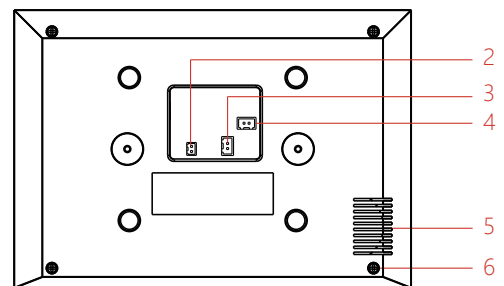
2. Product Appearance and Ports

Model:

EH2W-IS-V31-001

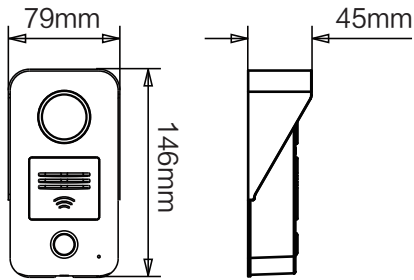
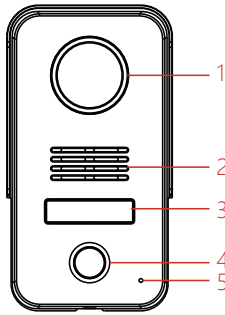


1. Microphone
2. Secondary Doorbell Port
3. 2-wire Communication Port

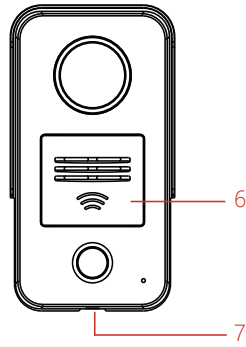


4. Power Supply Port
5. Loudspeaker
6. Screw

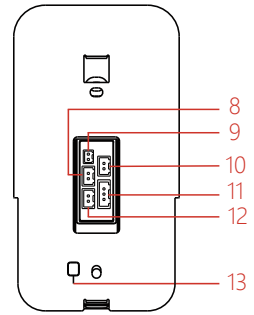
EH2W-OS-M55-001



EH2W-OS-M55-002

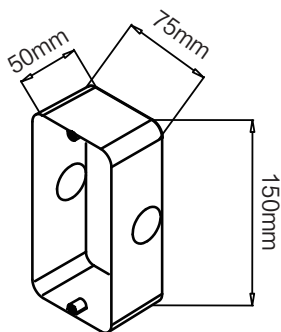
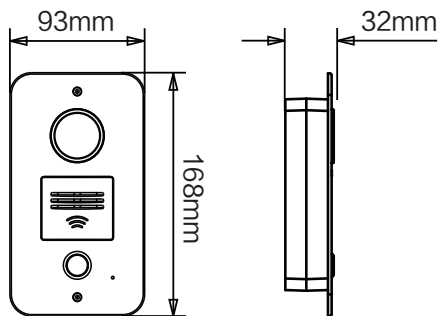
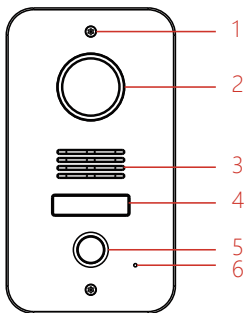


- 1. Camera
- 2. Loudspeaker
- 3. Nameplate
- 4. Call Button
- 5. Microphone
- 6. Card Reader
- 7. Screw

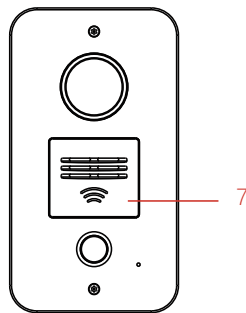


- 8. 2-wire Communication Port
- 9. EXIT Button Port
- 10. Relay Port
- 11. Signal Lock Port
- 12. Power Lock Port
- 13. Anti-dismantle Alarm Trigger

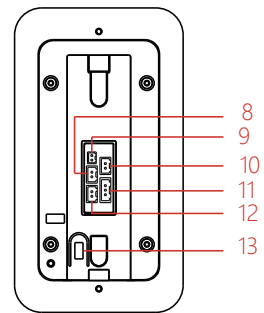
EH2W-OS-M55-003



EH2W-OS-M55-004

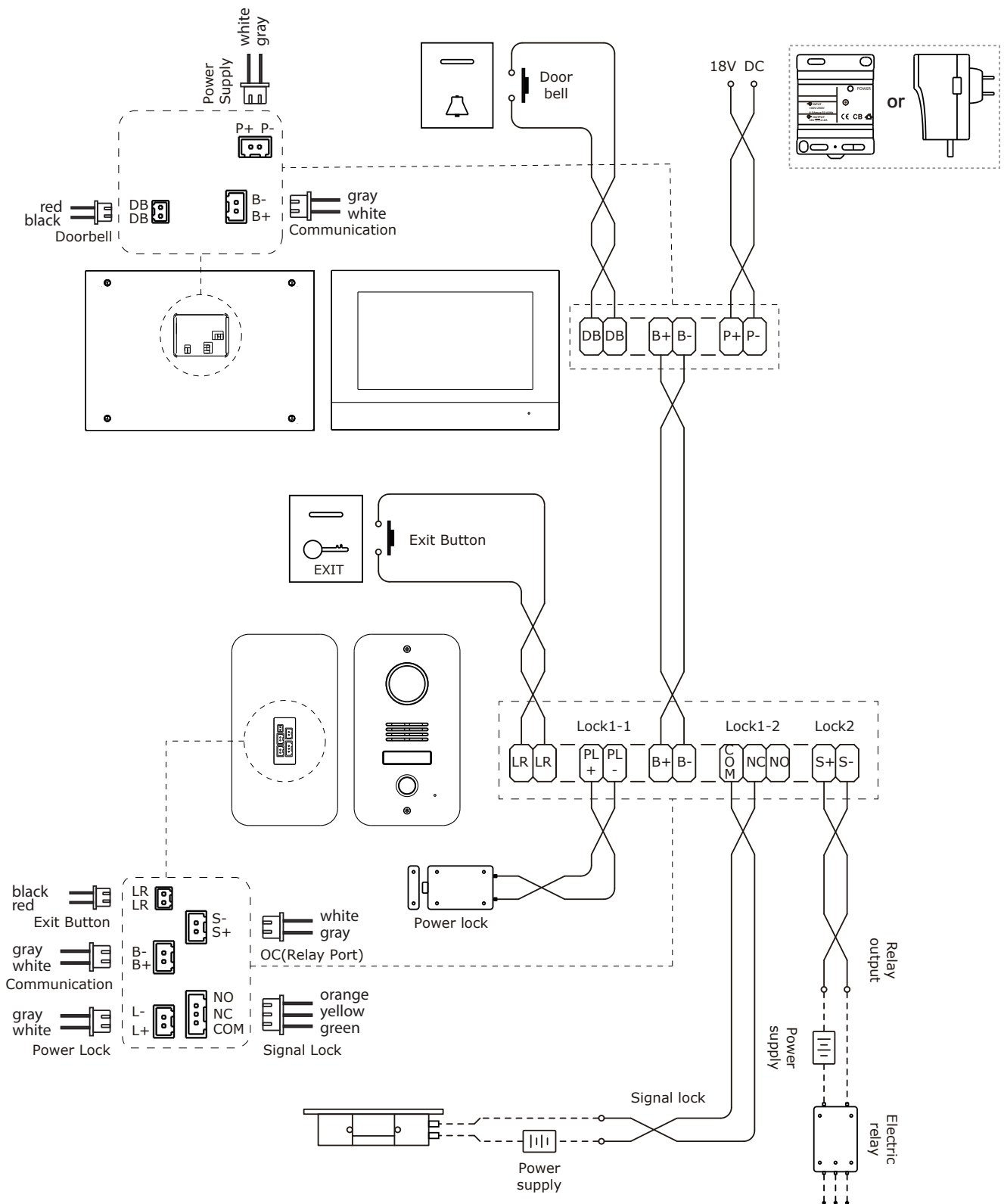


- 1. Screw
- 2. Camera
- 3. Loudspeaker
- 4. Nameplate
- 5. Call Button
- 6. Microphone
- 7. Card Reader



- 8. Communication Port
- 9. Exit Button Port
- 10. Relay Port
- 11. Signal Lock Port
- 12. Power Lock Port
- 13. Anti-dismantle Alarm Trigger

3. Connection Diagram

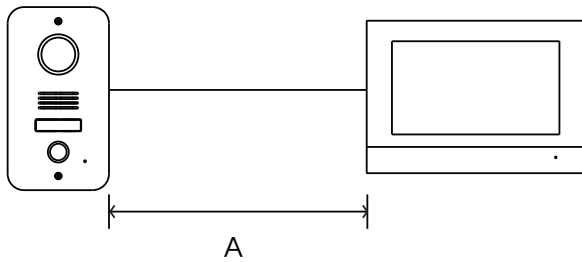


⚠ Warning: Lock 1 can only connect with one lock. If the user uses an electronic lock and connects to the lock 1-1 port, the lock 1-2 port can not be connected with other lock; if the user uses a signal lock and connects to the lock 1-2 port, the lock 1-1 port can not be connected with other lock.

Please mind the parameter settings of Indoor Unit before a different type lock replaces the existing lock. Otherwise, it may cause the damage to the equipment. The lock type setting function is shown in (6.3.2) Outdoor Unit basic parameters settings function.

4. Installation

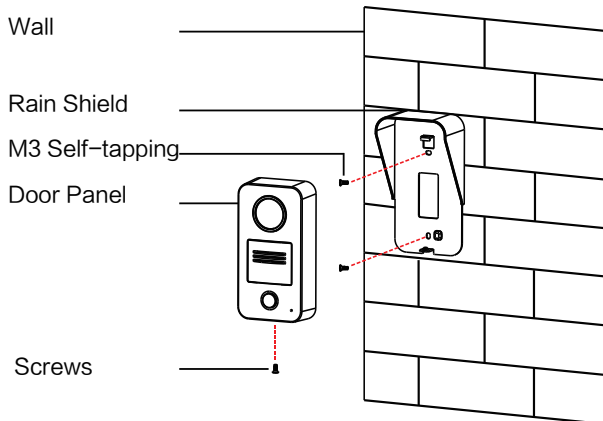
4.1 Wires and Distance



The wiring distance(A) between Outdoor Unit and Indoor Unit is up to 100 meters. The supported wires include AWG20, AWG18, AWG17 and etc. Twisted pair or non-twisted pair is ok (twisted pair is better).

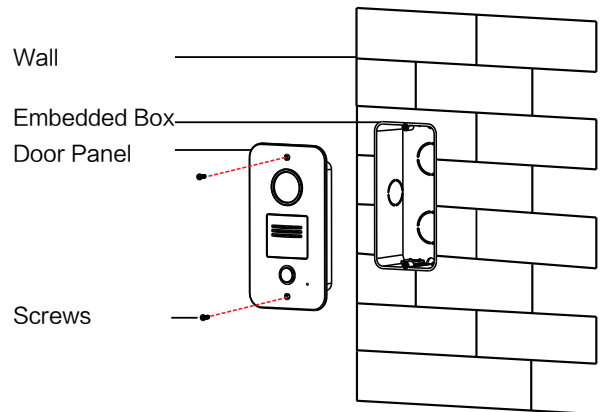
4.2 Outdoor Unit Installation

Figure 1 Surface mounted installation



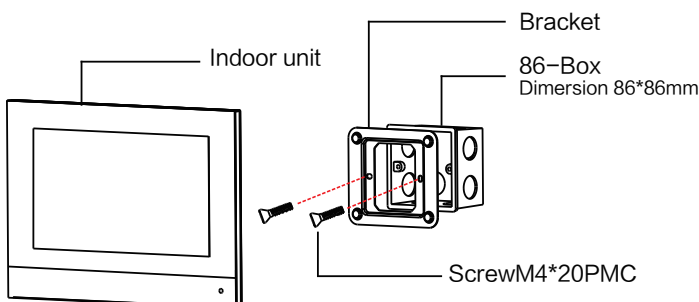
- ① Drill the hole at the appropriate height on the wall, and then insert the rubber plug into the hole on the wall.
- ② Fix the rain shield on the wall with the screw.
- ③ Connect the wire to the outdoor unit.
- ④ Fix the Outdoor Unit to the rain shield with the screw.

Figure 2 Flush mounted installation



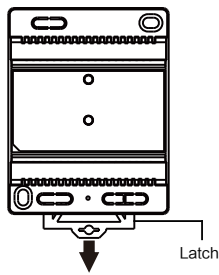
- ① Trepan a hole in the appropriate position on the wall, insert the embedded box in the wall slightly, and fix it with the cement slurry.
- ② Connect the wire to the outdoor unit.
- ③ Fix the outdoor unit of which a sponge pad is pasted at the alarm trigger, and lock the outdoor unit with the screw.

4.3 Indoor Unit Installation

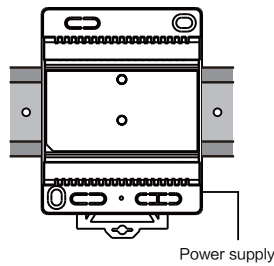


- ① Fix the bracket to the 86 box or wall with the M4 * 20 screw.
- ② Connect the wire to the equipment.
- ③ Put the indoor unit on the bracket.

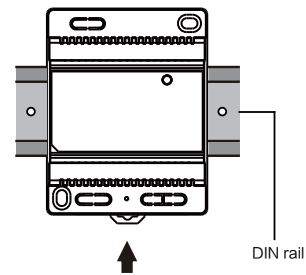
4.4 Power Supply Installation



① Pull the latch



② Put the power supply on the rail.



③ Push the latch to lock the power supply on the rail.

5. Main Functions and Technical Parameters

5.1 Main functions

- ① Color touch screen indoor unit.
- ② Visual intercom function.
- ③ Message function.
- ④ Monitor function.
- ⑤ Unlock by cards function (EH2W-OS-M55-002 / EH2W-OS-M55-004).
- ⑥ Doorbell function.
- ⑦ Memory function (automatic and manual).
- ⑧ Supporting the power locks and signal locks.
- ⑨ Providing the relay port for extra equipment, such as gate, garage, light and etc.

5.2 Main Technical Parameters

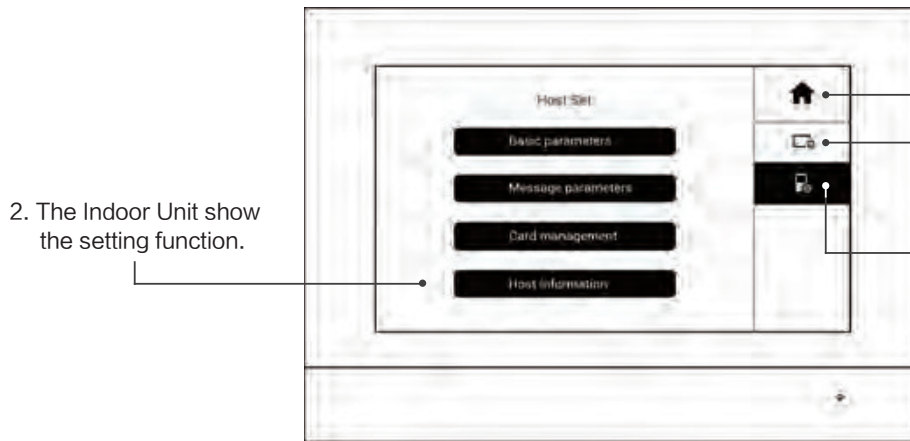
Outdoor unit		Indoor unit	
Camera:	1/4 CMOS	LCD screen:	TFT 800*480
Video format:	720p	Working voltage	18V DC
Working voltage	18V DC	Max power consumption	3.5W
Max power consumption	5W	Standby power consumption	1.5W
Standby power consumption	1W	Waterproof and dustproof grade	IP30
Waterproof and dustproof grade	IP54	Working temperature	-20°C~ 55°C
CardType	IC card (ISO 14443-3 Type A)	External dimensions	200 * 140 *18mm
Card capacity	100	Power supply	
Working temperature	-40°C~ 70°C		
External dimensions			
Surface-mounted	79 * 146 *45mm	Input voltage	110 ~ 240V AC
Embedded	93 * 168 * 32mm	Output voltage	18V DC

6. Parameters Settings

6.1 Enter Settings Function



1. Touch the [gear] Icon.



2. The Indoor Unit show the setting function.

Home page.

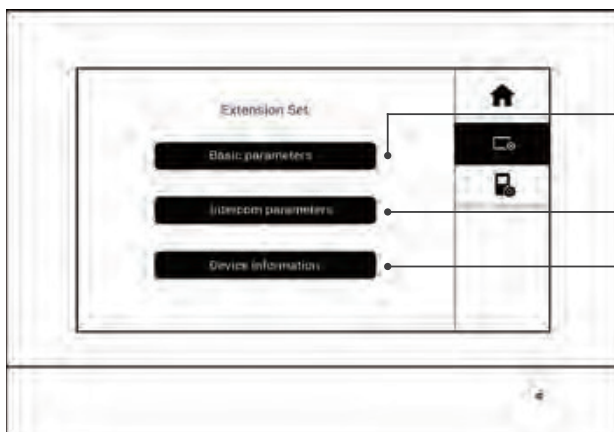
Set Indoor Unit parameters.

Set Outdoor Unit parameters.

Note: If the Outdoor Unit is not connected, or the connection is failed, the Outdoor Unit settings icon will be missing.

6.2 Indoor Unit Parameters Settings

6.2.1 Parameters Settings List

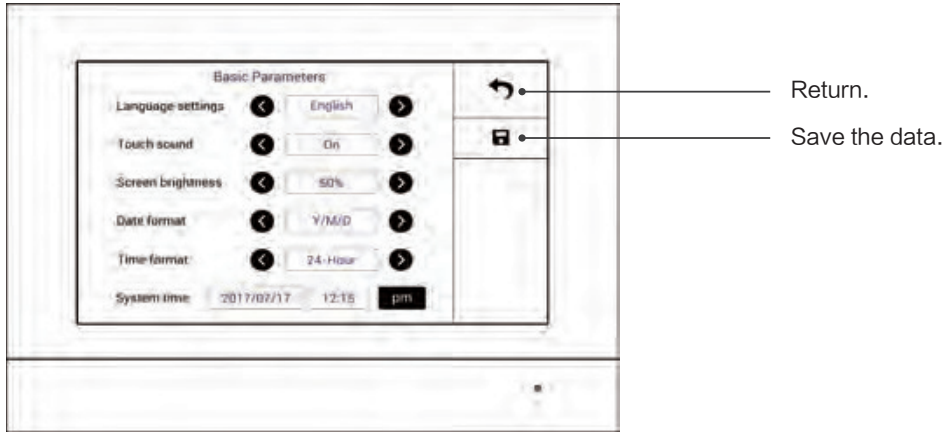


Indoor Unit basic parameters.

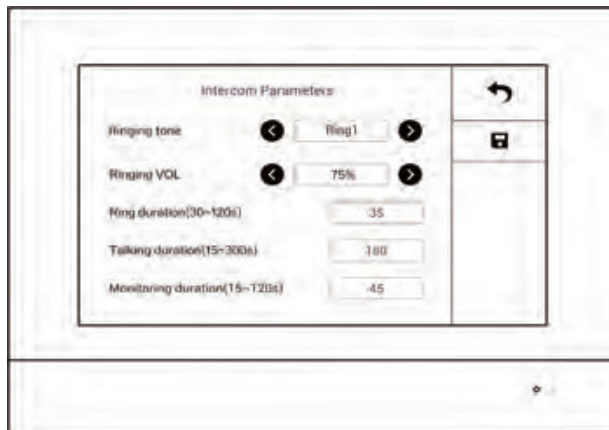
Intercom parameters.

Indoor Unit info.

6.2.2 Basic Parameters Settings



6.2.3 Intercom Parameters Settings



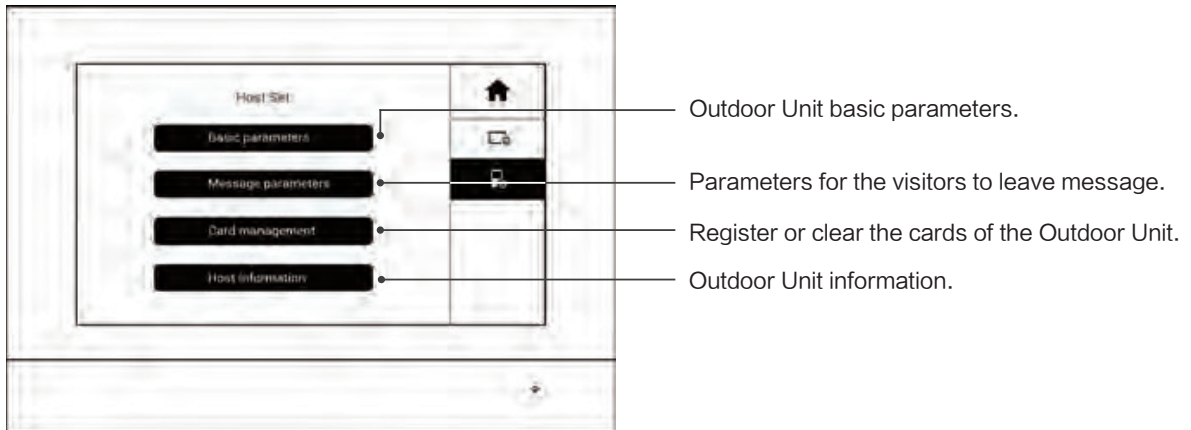
6.2.4 Check Indoor Unit Information



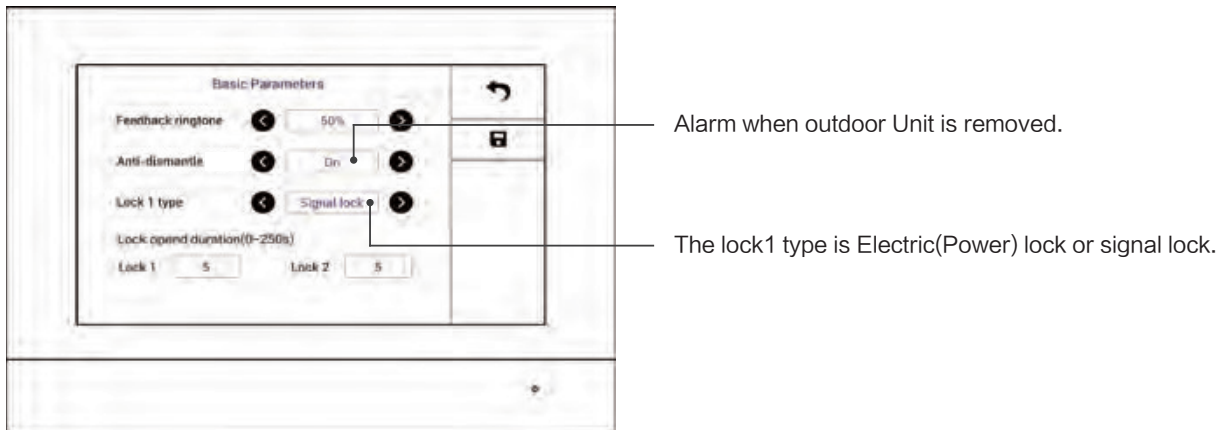
Warning: If you use the [Restore the factory settings] function, all the Indoor Unit's parameters will be reset and the records will be emptied.

6.3 Outdoor Unit Parameters settings

6.3.1 Parameters Settings List

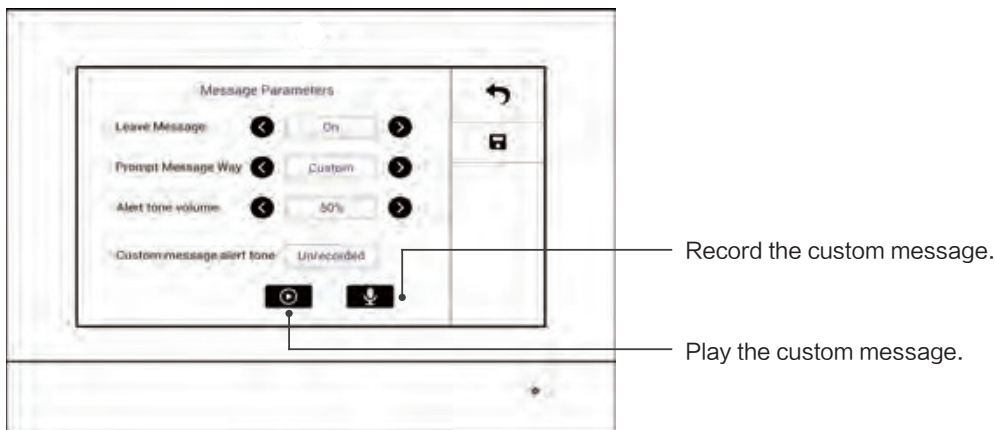


6.3.2 Basic Parameters Settings



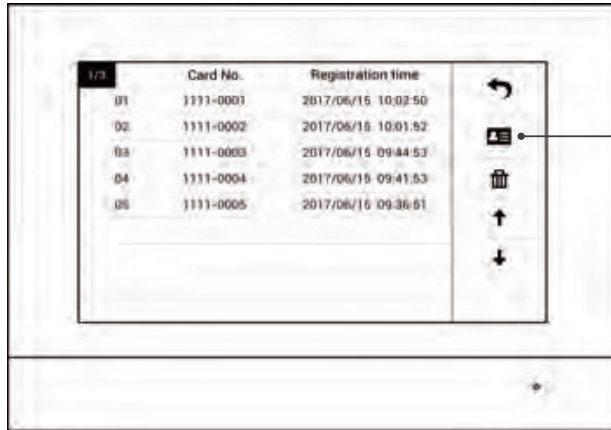
Warning: The setting has to be consistent with the installed lock. If it is connected to an power lock, type must be set as “Electric” . Otherwise, the equipment may be damaged. If it is connected to a signal lock, the Type must be set as “signal” , otherwise, unlocking may be unavailable.

6.3.3 Message Settings

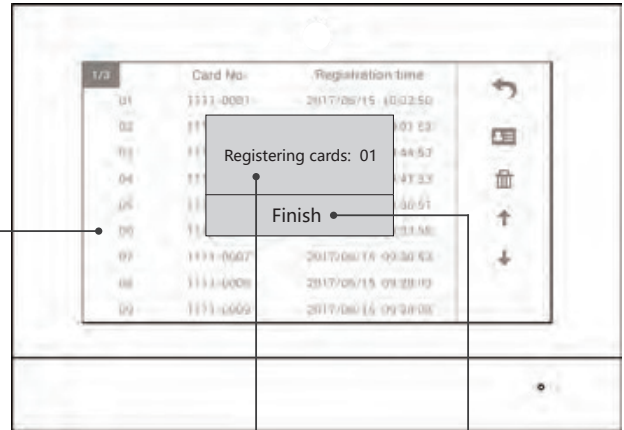


This function allows users to leave a message for visitors. When the visitor is calling, the Outdoor Unit will play the voice message customized by the user if there is no answer. The visitor can leave message accordingly.

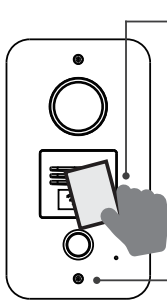
6.3.4 Register Cards



1. Press the [Registering Card] button to start.



2. The Indoor Unit shows registration cards page.



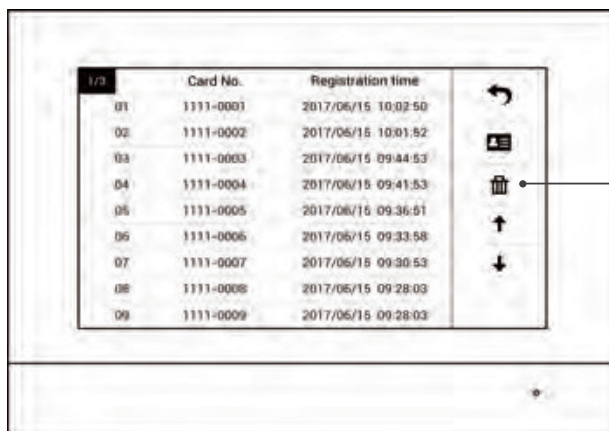
3. User can swipe all cards on the Outdoor Unit.

4. The Indoor Unit shows how many cards have been registered.

5. User can push the call button to finish registration.

6. User also can press the finish button to finish registration.

6.3.5 Clear Cards




Clear Cards.

Note: This operation will clear all cards that have been registered on the Outdoor Unit.

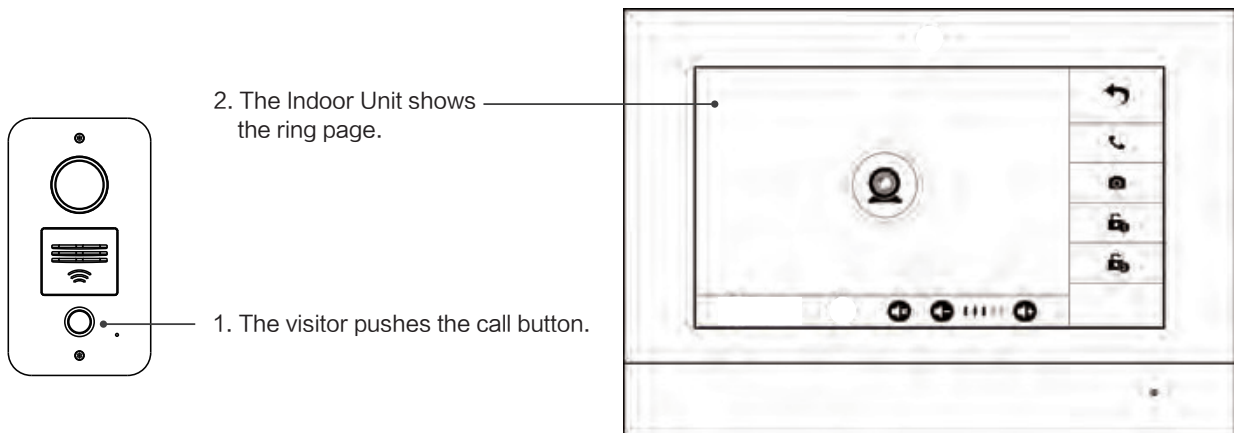
6.3.6 Check Outdoor Unit Information



 **Warning:** [Restore the factory settings] function will reset the Outdoor Unit's parameters.

7. Description of the System Function

7.1 Call, Intercom and Leave Message

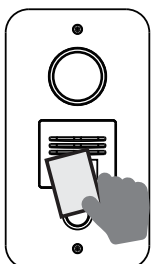


Note: Please check the description of 6.3.3 first.

The visitor can press the call button to leave a message after hearing message notice.

The visitor can press the call button to end talking after finishing leaving a message.

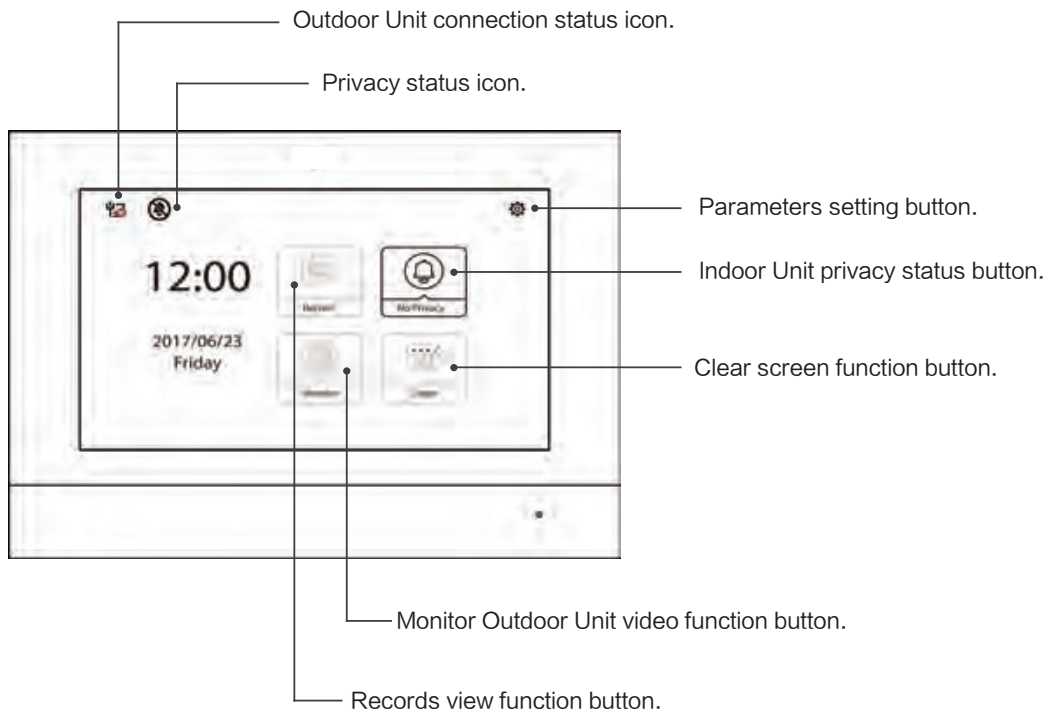
7.2 Unlock by Cards



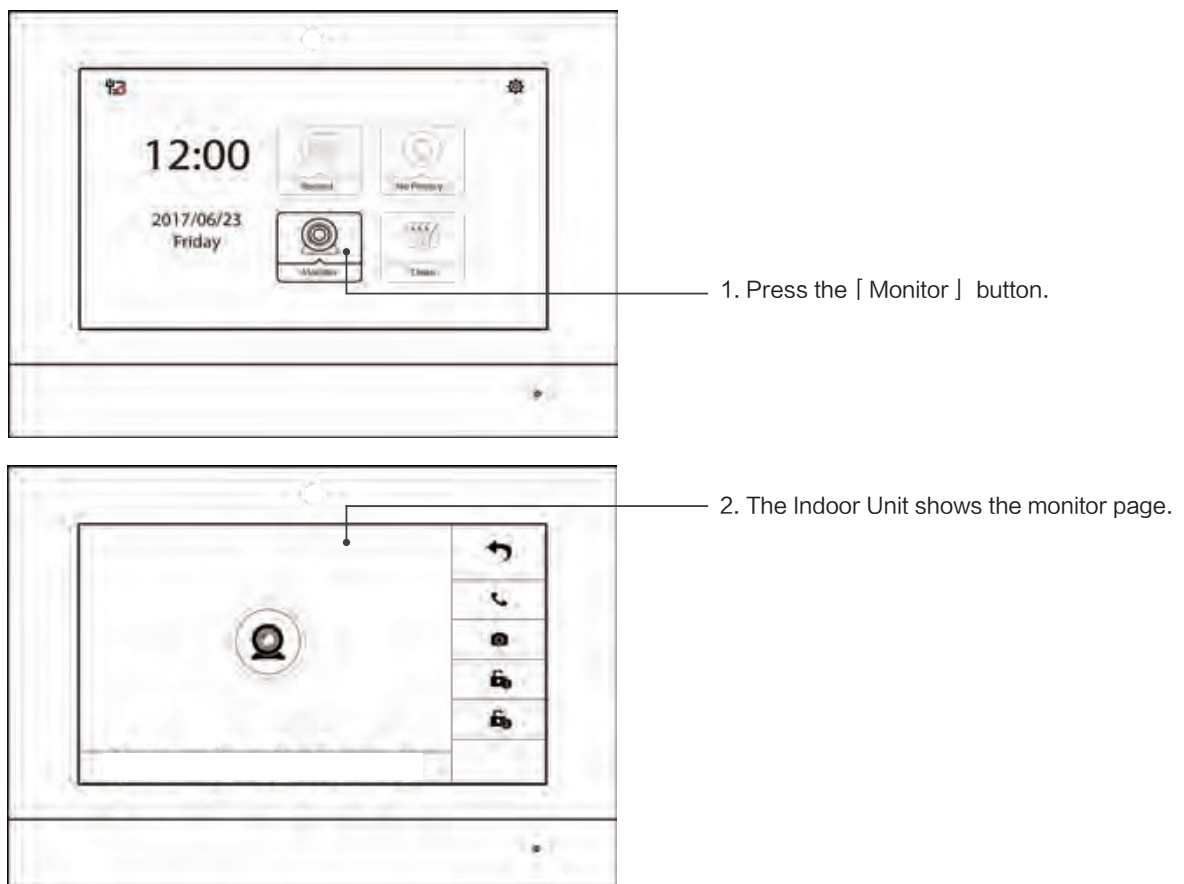
User can open the Outdoor Unit's Lock1 by the registered card.

For the card registration, see the description(6.3.4) in the parameter settings section.

7.3 Indoor Unit Home Page



7.4 Monitor Outdoor Unit

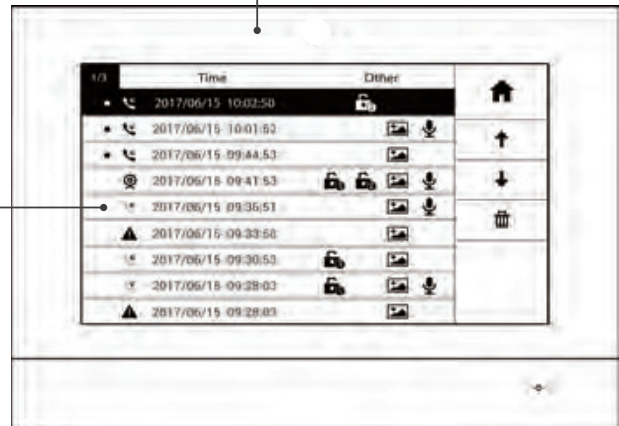


7.5 Record viewing



1. Press the [Record] button.

2. The Indoor Unit shows the monitor page.



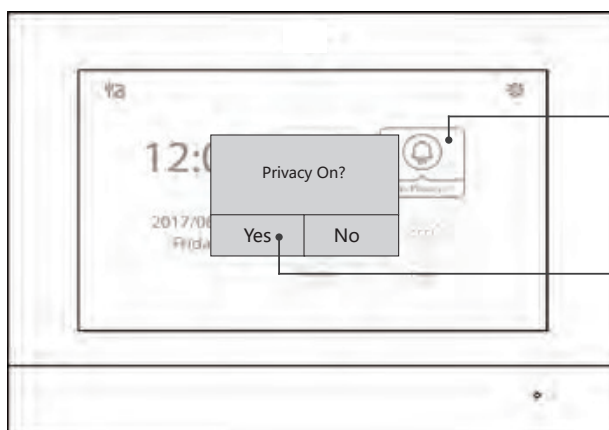
3. Touch the record.

4. The Indoor Unit shows the detailed Information page.



Play the message that the visitor has left.

7.6 Privacy Settings

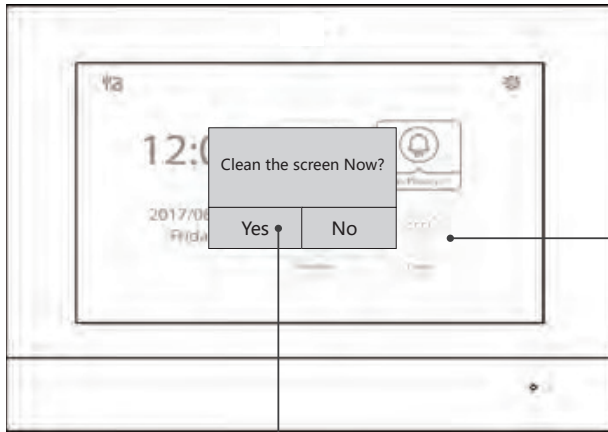


1. Press the [Privacy] in the Home Page first.

2. Press [Yes] button, the Indoor Unit will enter privacy status.

Note: User can Press [Privacy] button again to exit privacy status.

7.7 Screen Clean



1. Press the [Clean] in the Home Page first.

2. Press [Yes] button, the Indoor unit will enter clean screen status.

7.8 Doorbell



When the visitor pushes the door bell button which is connected to the Indoor Unit, the Indoor unit will ring and show the doorbell interface.


If the indoor unit is in the intercom or monitoring interface, a doorbell icon will flash on the screen to remind the users.

7.9 Anti-Dismantle Alarm Function



Once the Outdoor Unit was removed, the indoor unit will receive a voice prompt.

Once the Outdoor Unit was removed, the indoor unit will record the event. Users can check the records.

 **Warning:** This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The statements should be displayed in the user manual:

changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Part Name	Toxic and hazardous substances or elements					
	Lead (Pb)	Mercury (Hg)	Cadmium (Cd)	Hexavalent chromium (Cr6 +)	Polybrominated biphenyl (PBB)	Polybrominated diphenylether (PBDE)
Metal Part	O	O	O	O	O	O
Plastic Part	O	O	O	O	O	O
CRT display screen	X	O	O	O	O	O
LCD screen	O	O	O	O	O	O
Circuit board component*	X	O	O	O	O	O
Power/cord/cable	X	O	O	O	O	O
Power/adapter	X	O	O	O	O	O
Packaging	O	O	O	O	O	O

*: Circuit board components include a printed circuit board and its components, such as resistors, capacitors, integrated circuits, etc.;

O: It indicates that the contents of the hazardous substance in all homogeneous materials of the part are below the limit requirement specified in IEC62321;

X: It indicates that the contents of the hazardous substance in at least one of the homogeneous materials of the part exceed the limit requirement specified in IEC62321;



RoHS