

HDB801-WIRELESS COLOR VIDEO DOORPHONE

Enjoy Intelligent Life

The wireless video door phone is a 2.4G wireless high-tech household intelligent product integrating doorbell, photo-taking, intercom, monitor and unlocking functions into one. Especially is its unique human body detection function, when visitor is in its detection range, the indoor monitor shall be activated, show the image of the outdoor on its screen and take photo automatically. Therefore, even you were not at home, you also could know who visited you. This model is the guarantee for your home security.

This product does not use wires. It is convenient to install and simple to use. It's specially designed for villas. An outdoor unit can work with three matched handsets with max. working distance 300 meters in an open area.

Adopting the latest energy saving technology, its stable performance and fashionable appearance design make it the first choice of your high-quality intelligent life.

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INTRODUCTION

Thank you for choosing this Haibrain HBD801 wireless video door phone. Please read this manual carefully to fully understand its usage, perfect functions and simple operation.

Haibrain B.V. reserves the right to modify this manual from time to time without prior notice.

Safety Warning & Attention

1. Attention

- This product is not a toy. Keep out of reach of children.
- This product is for professional use and should be installed by a certified installer.
- Do not place this product on an uneven or unstable table-board to prevent failure or damage caused by falling.
- Only the battery and charger designated by Haibrain can be used for this product. Application of other products may lead to leakage, overheating, blowout and fire of the battery.
- Do not violently strike, shake or toss the wireless video door phone to prevent failure and fire caused to the wireless video door phone.
- Do not put battery, charger or wireless video door phone in the microwave oven or high-pressure device; otherwise, damage and fire of electrical circuit and other accidents may be caused.
- Do not use this product in a place with flammable and explosive gas; otherwise, amount of dust; otherwise, product failure may be caused.

2. Attention for operation of this product

- Do not apply force on LCD screen or knock other objects with it, otherwise, breakage and damage of LCD panel and seepage of crystalline liquid will be caused. If the crystalline liquid enters your eyes, there will be danger of ablepsia. Wash your eyes (be sure not rub your eyes) and go to see the doctor immediately.
- Do not dismantle or remodel this product, otherwise, damage, creepage and electrical fault may be caused to this product.
- Do not press the keys with a pin, stump of pen/pencil and other keen-edged objects; otherwise, damage or mis-operation will be caused.
- Place tiny metal objects such as drawing pin at a place far away from the speaker. As the speaker has magnetic property while working, it will attract these tiny metal objects, which may lead to personal injuries or damage of the speaker.
- Do not press the terminal of lens at strong light source, such as the sun; otherwise, damage of the image sensor may be caused.
- Do not press the terminal of lens with much force; otherwise, personal injury or damage of the device may be caused.

3. Attention for operation of charger

- You may charge the device with a charger or through a USB data line connected to the computer.
- Charge with matched alternate current; creepage, fire and damage of the door phone and charger may be caused if other voltage is used.
- It is forbidden to short circuit the charge, otherwise, electrical shock, smoke and damage of the charger will be caused.
- Do not use the charger at the time when the power cord is damaged, otherwise, fire and electrical shock will be caused.
- Clear away the dust accumulated on power outlet ASAP.
- Do not place a vessel used to retain water beside the charger to prevent overheating, creepage and failure of charger caused by spilling water.
- If the charger is in contact with water or other liquids, disconnect the power supply immediately to prevent overheating, fire electrical shock an failure of the charger.
- Do not dismantle or remodel this product, otherwise, damage, creepage and electrical fault may because to this product.
- Do not use the charger in places with high humidity such as bathroom, otherwise, electric shock, fire and damage of the charger will be caused.
- Do not touch the charger, electrical line and power outlet with wet hand(s), otherwise, electric shock may be caused.
- Do not place heavy objects on the electrical line or refit the electrical line, otherwise, electric shock and fire will be caused.
- Before cleaning and maintenance, first pull the plug off the power outlet.
- Grasp the charger while pulling off the plug, as pulling the electrical line will lead to damage of electrical line, electric shock and fire.

4. Operation and maintenance

- Please keep this product dry, as rainwater, moisture, humidity and liquids or moisture content may contain mineral matters that erode the circuit.
- Do not keep this product in any place with high temperature. As high temperature may shorten the lifespan of electronic device, damage the battery and cause deformation or melting of certain plastic parts and components.
- Do not keep this product in any place with low temperature. As when being moved from a place with low temperature to a place with normal temperature, it may generate humidity inside, which may cause damage of circuit board.
- Do not attempt to dismantle this product. As improper handling by nonprofessional personnel may cause damage of the device.
- Do not toss, knock or shake this product, as tough operation mode may damage the motherboard inside the device.
- If this product is made wet by mistake, shut it down, remove the battery, and restart the product after confirming it complete dry after 24 hours.
- Do not have the metal parts (specially configured interfaces of charger and data line excluded) in contact with charger interface to avoid short circuit.
- Use clean and dry soft cloth to clean the lens, infrared lamp and light sensor.
- **! Warning: improper operation will void warranty!**

Product Overview

1. Characteristics and application:

- Fashion appearance - adopt European design, full of modern science and technology feeling, suitable for houses of various decorative styles.
- Hidden antenna - adopt built-in antenna design, protect the antenna effectively.
- Extra large range of vision - an extra wide angle viewable.
- High resolution color LCD screen - adopt 3.5-inch mainstream TFT digital LCD screen, achieve outstanding clarity.
- High-resolution digital camera - adopt 300,000 pixels digital camera, image focusing vivid and clear.
- High speed transmission - image transmission speed is 25fps, the image is clear and fluent.
- Infrared Night-Vision - under the environment of insufficient outdoor light, the handset can activate the infrared Night-Vision to clearly display and record the outdoor scenes.
- 12 kinds of ringtones - users can select the desired doorbells ringtones freely
- One-key display - simple and convenient to use, view the outdoor scenes and take photos just by pressing down one key.
- Auto detection - it would auto take photo when a visitor come close to the door.
- Intercom function - can choose one-way or both-way talkback function.

- Super long standby - high capacity rechargeable lithium batteries are provided, adopt intelligent energy-saving technology, fully charged batteries service time could be up to 40days.
- Charge-and-record supported - without the need to worry that the operation will be affected due to depletion of electrical quantity.
- Auto circulating memory - 100 photos auto circulating stored.
- USB data charging wire - charge through the USB interface.
- Multifunction holder - matching charger.
- Multi machine extended function - support one outdoor units and three handsets at most.
- Long distance transmission - communication distance can reach 300 meters in open space.
- Frequency range - adopt 2.4G ISM digital public frequency range: 2402~2483.5MHz
- Adaptive frequency hopping technique - adopt AFH (Adaptive Frequency Hopping Technique), produce communication frequency and Auto-Sync frequency randomly.

2. Performance parameters:

Outdoor unit	Power	Specific lithium battery BP-6M (1100mAh)
	Consumption	400mA
	Outline dimension	134*74*31mm
	Weight	122g
	Environmental condition	Temperature: -10°C~+50°C
	Waterproof grade	IP55
	Placement	Hang on outwall
	Surface material	ABS & hardware accessories
	Camera	300,000 pixels
	View angle	120° wide angle
	Night vision pattern	Infrared lamps
	PIR	3M * 100°
	Working time	3 hours continuously
	Standby time	300 hours
	Charge time	3 hours
External power	DC5V 1A	

Indoor monitor	Power	Specific lithium battery BP-6M (1100mAh)
	Consumption	400mA
	Outline dimension	126*84*20mm
	Weight	110g
	Environmental condition	Temperature: -0°C~+40°C
	Placement	Table style (handheld)
	LCD size	3.5" TFT color screen
	Wireless communication mode	2.4GHz
	Images spread	25fps
	Picture format	JPEG
	Working time	4hours continuously
	Standby time	500hours
	Charge time	3hours
	External power	DC5V 1A
Application distance	About 300m in open space	

Product Diagram

Outdoor unit

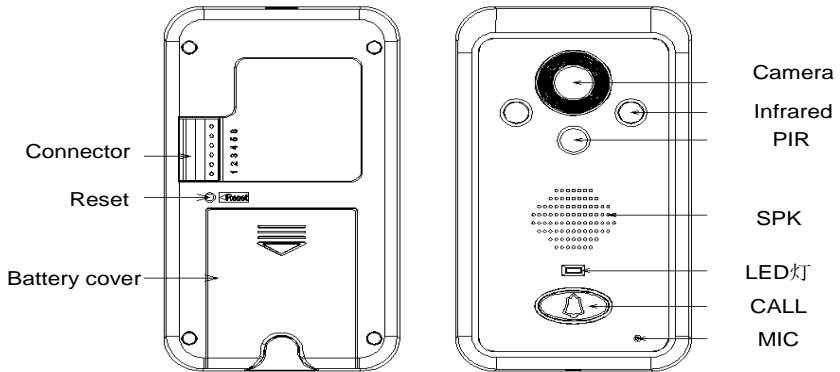
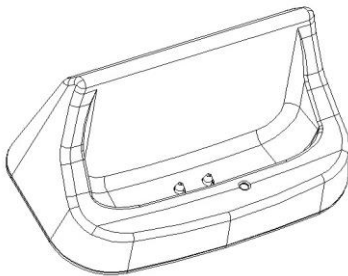
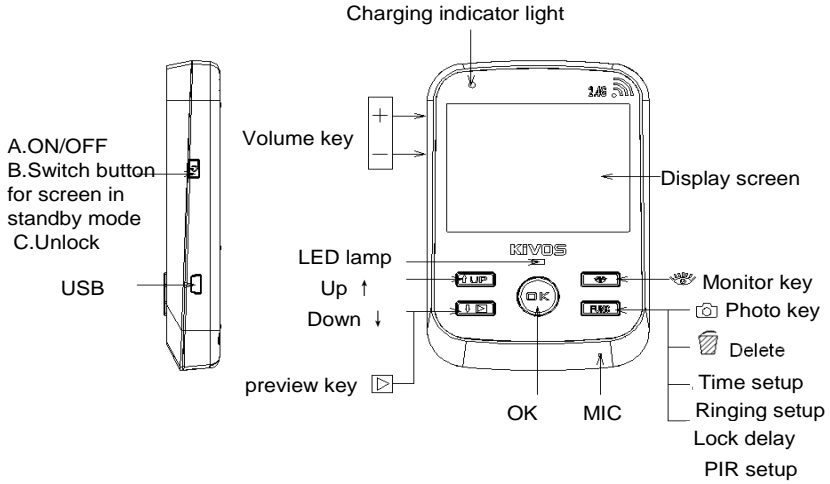


Table type charging station for handset:







Indoor monitor



Key introduction :

1. Handset Keys (7 keys):

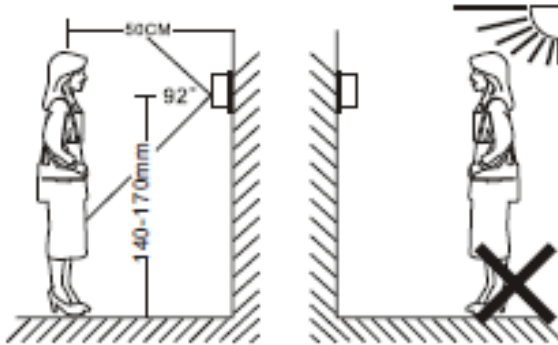
- (OK key): work as an off-hook key and an on-hook key; as a speaking key.
- (↑UP key): as an adjustment key for choosing.
- (↓DOWN /  Preview key): as an adjustment key when long press the key; as a preview key when short press it.
- ( monitor key): work as monitor key for standby mode
- (FUNC Function key): as a multifunction key, such as a photo-taking key , a time setting key, ringing setting key  and a delete setting key.
- Switch key "ON/OFF": as a power "ON/OFF" key, the screen would be light when short press it.
- Volume key (+/-)

2. Outdoor unit keys:

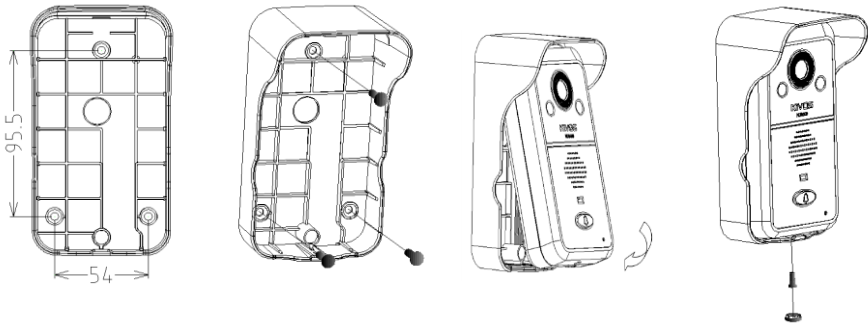
- Doorbell key "Call": ring the bell and trigger photo-taking there is no one on-hook.
- Reset: match the communication code with the handset

Installation Guide

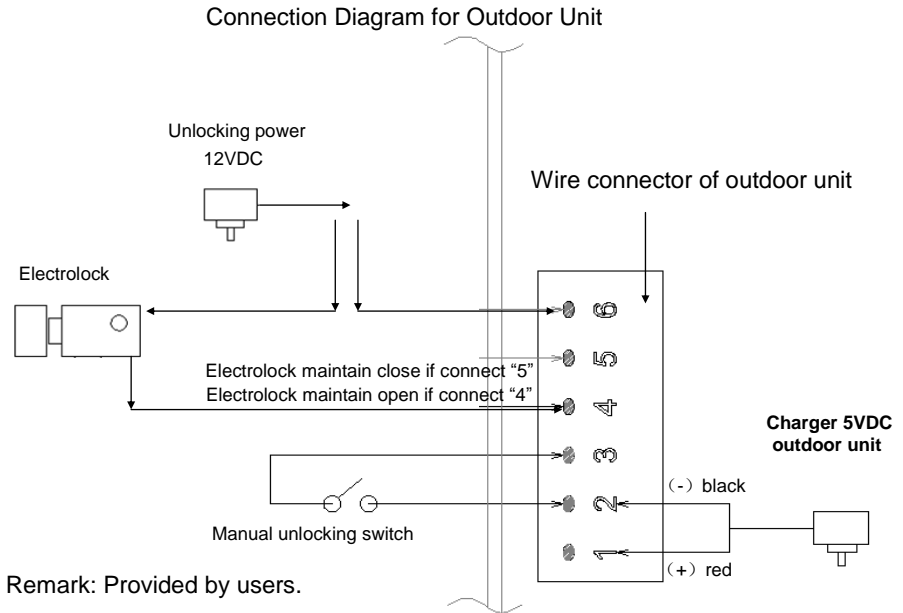
The outdoor unit needs to be installed at 1.4 ~ 1.7 meter above the floor, and avoid the camera facing the sunlight directly.



1. Installation Steps



- Drill a hole refer to the dimension, put the screw rubber plug in, then fix the rainproof cover on the wall by screws.
- Connect the charging line according to the wiring diagram (the hole for wire getting through suggested 16 ~ 30mm), if charging line comes from indoor, lead the charging line pass through the hole, if charging line comes from outdoor, lead the charging line pass through the bottom of rainproof cover and connect the line
- Install rechargeable lithium battery (BP-6M) to outdoor unit, the unit starts up automatically.
- Put the top part of outdoor unit into the rainproof cover like the picture, push the bottom part, make sure its steady and fix it from the bottom by screw, then fit on the screw cover.

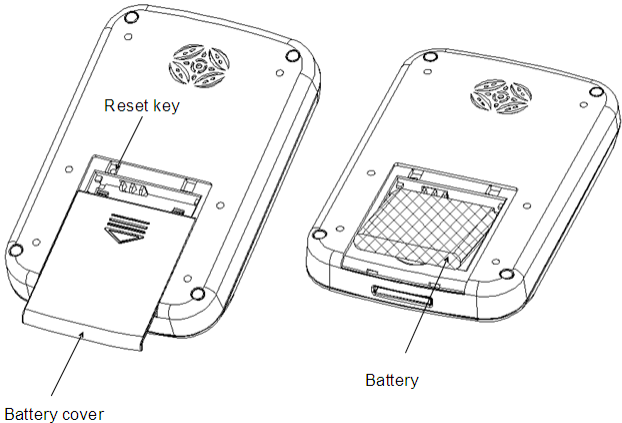


2. Attentions during Installation

- The outdoor photosensitive sensor should not be hidden or blocked by other objects.
- Do not face outdoor unit to sunlight directly.
- Install the connection line correctly, otherwise, normal use shall be failure .

3. Battery Installation

- Parallel move the battery cover downward, and take it off.
- Insert the lithium battery along the battery jar and set it level, mind the front and reverse side of the battery.
- Fit on the battery cover.



Functions and Applications

1. Outdoor Unit Starting Up

- Connect to external power to start up. The power source is only battery, main MCU is woken about every one second. Sleep mode is in saving power mode, red lamp flashes once every four seconds; when battery is in low power, red lamp flashes every one second to remind you to charge.

2. Starting Up & shutting down

- Install battery to handset, long press “Switch key” about 3 seconds to start up (about 1 second after shutdown), logo shall be displayed on screen with a sound of “Beep”. Turn into standby mode.
 - Display: standby picture, signal sign, power sign, time & date
 - In this mode, the screen gets dark after several seconds and turn into power saving mode, the red LED flashes every 4 seconds. The screen would be lighted if press again.
 - When battery is in low power (≤ 1 bar), red LED flashes every one second. It remains you to charge it.
 - In standby mode, long press “Switch key” about 3 seconds to shut down.

3. Night-vision

- With night-vision function, even under the environment of extremely poor visibility, the outdoor unit can activate infrared lamps and recognize clearly objects or people within the distance of 1.5meter (the best focus of this product is 0.8 meter). In addition, under complete black condition, it displays black and white effects.

! Note: Please keep the lens of infrared lamps clean.

4. Menu Setting

- When the screen lights up, long press "FUNC" key, enter into menu setting. Then press "FUNC" key in sequence, it would respectively enter into "Time Setting" → "Ringing Setting" → "Lock Delay Setting" → "PIR Setting".

5. Date & Time setting

- Press "↑/↓" key to choose the figure of date & time.
- Press "+/-"key to adjust digit-size.
- Press "OK" key to affirm and turn back to standby condition.

6. Ringing setting

- Press "↑/↓"key ->> choose the music you like (12 pieces in total)
- Press "+/-"key->> increase or decrease the volume level (7 levels in total)
- Mute: long press "-"key still there is a mute symbol.
- Press "OK" key, confirm and back to standby condition

7. Lock Delay

- Press “↑” or “↓” key to adjust the time, the range of the time is 1~6 seconds.
- Press "OK" key, confirm and back to standby condition

Unlocking Explanation:

- only in the state of intercom, press “ON/OFF Switch” to unlock with unlocking symbol showing on the screen.

8. PIR : ON/OFF

- Press “↑” or “↓” to choose “ON” or “OFF”, the setting value shall be sent to outdoor camera by pressing “OK” key or “FUNC” key


PIR Explanation:

- the PIR detects human being within its detection range, the signal shall be sent to indoor monitor to wake up the screen and activate photo snapping. After that, outdoor camera and indoor monitor would get into standby state. When the screen is lit, press “OK” key to intercom
- When the configuration is one camera and three indoor monitors, the PIR function could be switched on or off through menu of each indoor monitor. A red PIR symbol shall be shown on the top of the screen after switching on the PIR function.
- The other two indoor monitors shall show PIR state synchronously when communicating with outdoor camera.
- When someone is getting into the detection range of PIR, only one of the indoor monitors would be woken up and takes photo.
- After matching code, PIR would be switched off.

9. Outdoor unit CALL handset

- When the screen lights up:
 - In standby mode, press "doorbell key" to call, the background light of the outdoor unit lights up with a sound of "Du Du". The screen of handset shows image and the unit rings for max. 30 seconds. If there is no reply signal from handset, the outdoor unit stops the Call and recall is allowed.
 - Intercom: press "OK" on indoor monitor -> ring stops and the unit turns into intercom mode, intercom time is Max. 90seconds.
 - Photo: in "OK" on-state mode -> press "FUNC" function key - press photo-taking "📷" key -> one press one photo.
 - Exit: in "OK" on-state mode -> press "OK" key (in monitor mode -> press "Exit")the unit turns into standby mode with a sound of "Beep".
 - Automatic photo shoot: if nobody answers the call in 5 seconds, indoor monitor starts taking photos automatically.

10. Handset CALL Outdoor Unit (Monitoring)

- In standby mode, press “

11. Exposure Adjustment

- Exposure adjustment: under the environment of extremely poor visibility and the image is not clear due to the brightness, however, the brightness is adjustable: 9 grades for exposure adjustment.
- In image communication mode ->> long press “↑/↓” to adjust the grade of exposure, every press adjusts one grade.

12. Photo Preview & Delete

- When the screen lights up:
 - Preview: long press "↓/▶ preview key", display the latest pictures which are ranked by time, the latest one is on the top list.
 - Check: press "↑up" key, check previous photo-» press "↓down key", check the next photo.
 - Delete: press "Delete" of "FUNC"-» press "↑Up" or "↓Down" key to select "yes" or "No"-» press "OK" to confirm.
 - Exit: finish the operation, press "OK" key to exit photo preview.

13. Pairing Handset(s) and outdoor camera

- The first time you use the handset, push the reset button at the back of the outdoor unit for at least 5 seconds till you hear a short beep.
- Only insert the batteries in the handset and outdoor unit; do not connect net power supply yet.
- Switch the (first) Handset off (if on)» long press power button-» "Welcome" will be displayed on the screen» press the power button shortly a few times until the screen shows "Pairing".
- Press the "Reset" key of the outdoor unit twice (shortly) ; the red light flashes.
- If there is an image on the handset, code match succeeded; otherwise, match the code again.
- If you bought 2 or 3 handsets, repeat the last 3 steps above, to add the handsets.

Note: an outdoor unit can support max. 3 handsets. If you match the code forth time, it will delete the previous three codes.

14. Battery and Charge

- Be sure the activity of the battery, please fully charged the new battery.
- When the outdoor unit is at low power, the lamp of launcher would flash. It remains you to charge.
- The battery of outdoor launcher can be changed (swap battery of outdoor unit with handset) or charge by USB. The red light keeps bright.
- When the Indoor monitor is at low power (\leq a bar), the red indicator lamp will flash every second, please charge immediately
- The Indoor monitor can be charged by the table type holder or by USB, green light keeps bright.
- Charge-and-work supported. When the battery is charged fully, it auto stops charging.
- Battery type: high-quality lithium battery, please use the BP-6M model battery if it needs replacement
- Charging and battery attentions, please reference the chapter “Warms and attentions” in this manual

Notice: Under the low power, display, photo-taking functions can't work normally.

Contents

- Manual 1 piece
- Outdoor unit 1 piece
- Indoor monitor 1 piece
- Table type holder of handset 1 piece
- Charger (DC5V) 1 piece
- Lithium battery (BP-6M) 2 pieces
- Screw M4 1 piece

Statement

This product maximum supports 1 outdoor unit and up to 3 Indoor monitor. The door phone has not finished code match. Please follow the steps under 12. Pairing.

If you need more pieces of indoor monitors, please contact Haibrain B.V., The Netherlands or your local reseller.

General Faults & Solutions

Fault	Cause(s)	Solution(s)
Can not start up	Neglected to press switch button	Press switch button
	Lithium battery is not installed	Install lithium battery
	Low battery	Charge up lithium battery
	No connection to power adapter when battery runs out	Connect to power adapter
Can not charge	Adapter connector doesn't connect to charging port of machine correctly	Reconnect correctly
	Adapter doesn't connect to 110V-240V alternating current	Plug into the socket to connect to alternating current
Outdoor unit cannot call or connect to Indoor monitor	Code match failed	Clear code, and re-match code
Image has noisy point or flickers	Handset is placed near to TV player, microwave oven, daylight lamp or mobile phone which produces electromagnetic wave interference.	Keep handset far away from the interference items
No signal for Indoor monitor	Outdoor unit doesn't connect to the power	Connect to the power
	Distance between outdoor unit and Indoor monitor is too far	Adjust to appropriate distance
	Disturbed by magnetic field around	Keep handset far away from magnetic field.