

Wireless External Door Entry Kit MODEL VDP400



WIRELESS DOOR ENTRY
CAMERA
MODEL VDP301



WIRELESS DOOR ENTRY
MONITOR
MODEL VDP404

Product Description

The product is multi-functional and this includes a doorbell function, monitoring, alarm, photo-taking and playback function. It is wireless and uses 2.4GHz digital public frequency band. The product is suitable for both house and office use where a wireless video intercom system is needed. The camera has to be paired with the monitor and up to three monitors can be paired to one camera.

Features

1. The VDP301 camera has a 4.3 inch TFT screen that provides an HD image.
2. Includes a high class touch key pad operation.
3. The image data and audio data transmissions are synchronous.
4. The transmission distance in an open area extends to a maximum of 50 metres.
5. The product uses the (AFH) Adaptive Frequency Hopping technology, which can share the 2.4GHz band with a wireless network card and blue tooth device at the same time.
6. The kit has a remote unlocking function from 1 second to 6 seconds.
7. Also includes a PIR sensor for photo-taking functionality that can be switched off and on.
8. The camera is paired to a monitor and up to three monitors can be paired to a camera.
(See instructions for pairing units)
9. Languages English and Chinese.
10. Adjustment for Brightness, Colour and Volume plus Date & Time settings.
11. Up to 25 ringtones are available for selection and 3 levels.

The monitor takes a snapshot from the camera if the bell push is not answered within five seconds. Photographs can also be taken at will by pressing the photo button on the monitor. The monitor stores 100 photographs before it starts overwriting. Individual or all photographs can be deleted. There is no method for transferring the photographs from the monitor.

The camera has 6 x IR LEDs for low light use and also features a PIR that when enabled allows the monitor to take snapshots when motion is detected at the camera. This feature can be turned on and off.

Package Contents

- 1 x VDP301 Wirefree External Door Entry Camera
- 1 x Rain Shield
- 1 x Screw Pack
- 1 x VDP404 Wirefree External Door Entry Monitor
- 1 x USB adapter
- 1 x 12v DC Power Adapter
- 2 x 12v DC Lithium Batteries

Safety Instruction

1. Do not install the equipment in high temperature or high humidity environment.
2. Keep the unit away from televisions or intercom equipment that may cause interference.
3. Do not touch the screen with wet hands.
4. Always clean the equipment with a dry soft cloth. Do not use detergent, thinners, volatile or corrosive liquids.
5. Keep the camera unit away from direct sunlight as this can affect the camera CCD.
6. Sometimes vehicle interference may cause blurred pictures.
7. Building walls or structures separating the camera and monitor will reduce wirefree transmission strength and or distance.

System Installation

VDP404 Monitor

1. Remove battery cover, fit Lithium battery and replace cover. The plug top has a USB type power connector and connect it to the monitor.

2. Plug the power adapter into a 100 ~ 240vAC 0.35A power source and open the bracket stand on the back of the monitor. The plugtop charger is 5vDC 1A and the battery is a Lithium 3.7v DC battery.



NOTE: The same battery is fitted in the camera unit that also runs off a 12vDC power adapter. You can charge the battery taken from the camera unit, in the monitor, using the USB type plugtop.

Monitor Standby Time: 3 days Monitor Run Time: 2 hours

VDP301 Camera Unit

1. Connect the battery and fit the camera into the rain shield. Ensure battery is connected to correct polarity. The camera unit can run directly from the battery or be powered using the 100 ~ 240vAC 0.8A power adapter that outputs 12vDC at 1.1A. This can be used to charge the Lithium 3.7vDC battery or you can charge the battery in the monitor using the USB plugtop.

Note the camera only works in the Rain Shield



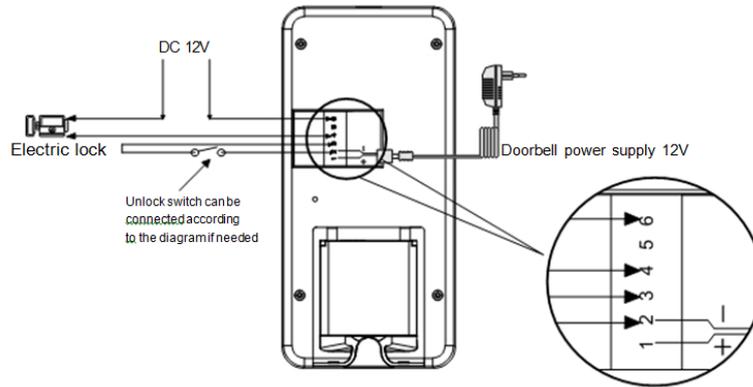
Note that there is a magnet located in the rain shield that will trigger the alarm in the camera and on the monitor if the camera is removed when power or battery is connected.

Camera Standby Time: 31 days Camera Run Time: 2.5 hours

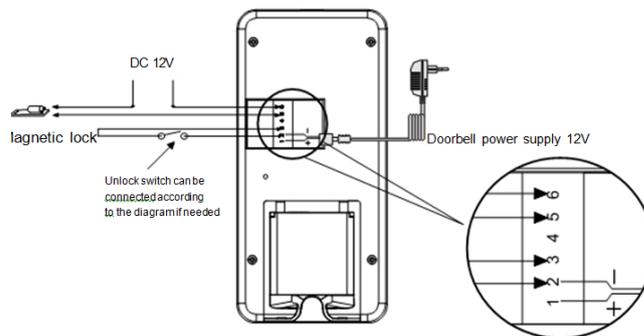
2. Wiring diagrams for magnetic lock and electric lock connections are shown below. Connect electric lock to terminals 4 and 6 or connect a magnetic lock to terminals 5 and 6.

Note: When the camera is only powered by a lithium battery without any extra power supply, the camera unit electric lock cannot be released.

Electric Lock



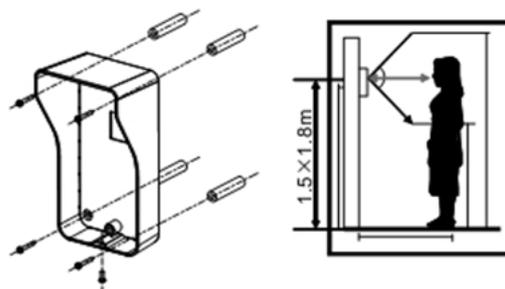
Magnetic Lock



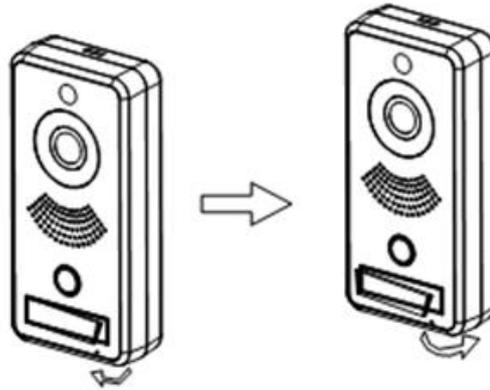
Terminal	Function
1	12v DC
2	0v
3	Door Release. Link to 0v to operate relay
4	Relay N.O (Normally Open)
5	Relay N.C (Normally Closed)
6	Relay Common

NOTE: Relay Contacts 3A 30v DC

4. Install the weather shield at 1.5m-1.8m above ground level avoiding direct sunlight.



5. If the name plate is needed, take off the name plate cover, put the name plate inside and refit cover according to the following diagram.



6. Finish wiring connection of the power supply and the electric lock according to the wiring diagram.

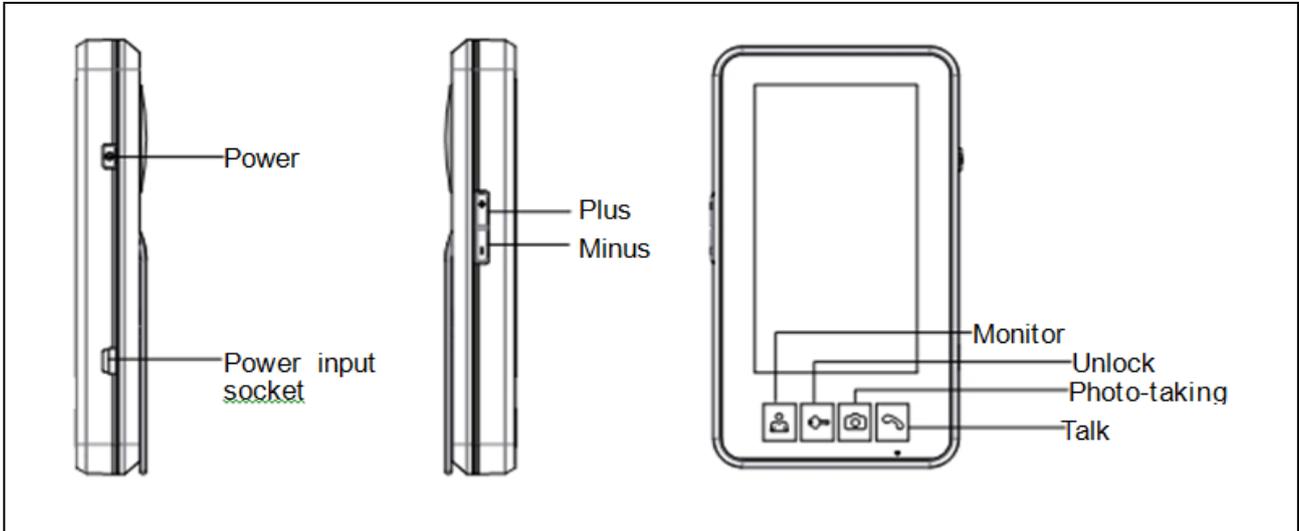


7. Fasten the camera unit rain shield with screws.

8. TheVDP301 outdoor camera unit is not IP rated and is not sealed. Whilst the unit is classed as an outdoor unit, it must be adequately protected from rain and weather conditions and the rain shield sealed to avoid water ingress from the back of the unit. Any cable connections running into the unit must run upwards. It is recommended that additional protection is provided when installed in an exposed position.

Function Keys and Operational Instructions

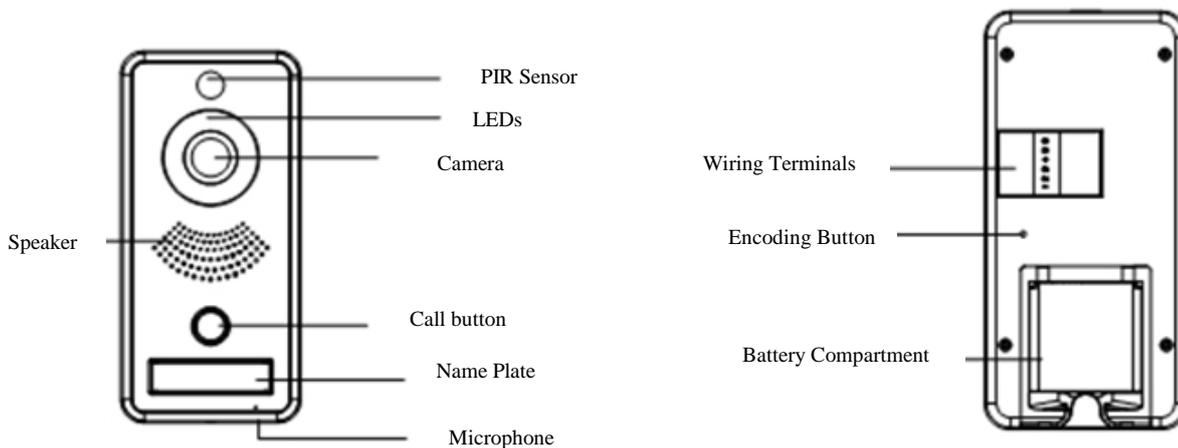
VDP404 Monitor



Icons in Standby

	Signal strength
	Battery
18:28:05	Time
	Ringtone

	Mute
	Talking
	Unlocking State
	Missed Call



VDP404 Door Entry Monitor

Functions settings can be divided into the following parts: Language setting, Time and Date setting, Ringtone setting, Unlock time setting, Screen brightness setting etc. Press UNLOCK button to confirm and enter into the next setting page, press TALK button to save the setting for one part and then exit.

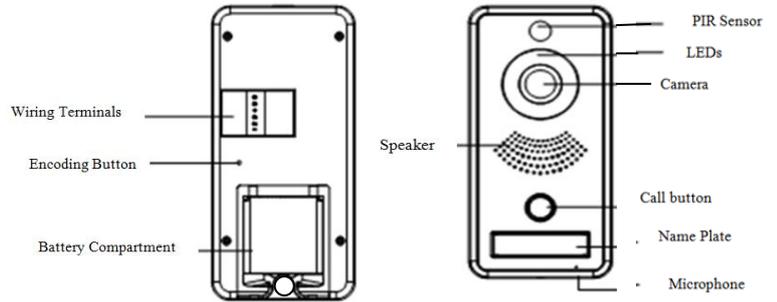
- 1. Language setting:** When the screen is on, press UNLOCK button to enter Function settings. The first part is language setting, including Chinese and English, press the (+ -) button to select language. The default language is English.
- 2. Date and time setting:** When the screen is on, press UNLOCK button to enter Function settings. Press UNLOCK button again to enter Date and Time setting, press Photo taking button to select and press the (+ -) button to amend the value.
- 3. Ringtone setting:** When the screen is on, press UNLOCK button to enter Function settings, press the UNLOCK button twice to enter ringtone setting mode. Press Plus button (+) to select next ringtone and press Minus button (-) to adjust the volume. There are 25 ringtones for selection and there are 3 levels of ringtone volume.
- 4. Unlock time setting:** When the screen is on, press UNLOCK button to enter Function settings. Press the UNLOCK button 3 times to enter Unlock time setting mode. Press the (+ -) buttons to adjust the value. The unlock time can be set from 1 second to 6 seconds and the default value is 1 second.
- 5. Mute mode setting:** When the screen is on, press the TALK button for about 3seconds and the green music button () will turn into red button () which means mute mode. Under mute mode, the indoor unit can work normally but will not ring when there is a call. Press and hold the TALK button for 3seconds to cancel the mute mode.
- 6. Brightness and Chroma setting/ Talking volume setting:** In talking mode, press MONITOR button to select brightness, chroma and talking volume setting. Press the (+ -) button to adjust the value. The value of them can be set from level 0 to level 7.

VDP400 Door Entry Kit Operation

1. Setting up VDP301 camera unit

Connect the battery and fit the camera into the rain shield. Ensure battery is connected to correct polarity. The camera unit can run directly from the battery or be powered using the 100 ~ 240vAC 0.8A power adapter that outputs 12vDC at 1.1A. This can be used to charge the Lithium 3.7vDC battery or you can charge the battery in the monitor using the USB plugtop.

Note the camera only works in the Rain Shield

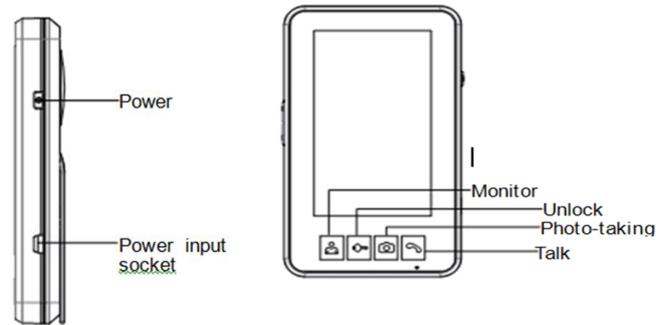


Note that there is a magnet located in the rain shield that will trigger the alarm in the camera and on the monitor if the camera is removed when power or battery is connected.

2a. Setting up VDP404 monitor unit

Powering On and Off

After loading batteries, press and hold the Power button to power up the unit. The unit will enter standby mode with no screen display if no further operation occurs after 30 seconds. To power off the unit when the screen is on, press and hold the Power button.



2b. Turning Screen On and Off

When the screen is on, you can press the TALK button to turn off the screen display. Pressing any button will turn the screen on again.

3. Talking and Unlocking

When visitors press the CALL button on the camera unit, the blue indicator light on the camera unit will come on and will respond with two beeps. The monitor unit will ring immediately and will display the image from camera unit. Pressing the TALK button on the monitor unit will allow you to talk with the visitor. If you press the UNLOCK button it can remotely unlock the door release mechanism if fitted. After the conversation, press the TALK button to hang up and the monitor unit's display will close. If the call is not answered within 5 seconds, a picture will be captured by the camera unit and saved automatically. If the call is not answered within 30 seconds, both the monitor unit and the camera unit will enter standby mode. The monitor unit will indicate a missed call. After a call is answered, and if there is no further operation within 90 seconds, the monitor unit will hang up and enter standby mode automatically.

4. VDP404 Monitor

In standby mode, press the TALK button to start up the camera unit (means the screen is on), then press MONITOR button and you can monitor outside and hear sound from the camera. The monitor state will last for 30 seconds and then switches back to standby mode automatically if there is no further operation. Press TALK button to talk or again to hang up.

5. Battery Power for Monitor and Camera units

Battery indicator on the Monitor unit:

The battery icon in the top right hand corner of the screen represents the battery power of the monitor unit. When the battery power is low, the battery icon will become red to indicate that the battery needs charging.

Battery condition of the Camera unit:

When in talking state, the small battery icon in the top right hand corner on the monitor unit represents the battery condition of the camera unit. When the battery power is low, the battery icon will become red and the fully charged battery in the monitor unit can be used to replace the battery in the camera unit.

6. Photo Function

Automatic photo-taking:

When there is a call from the camera unit, a photo will be captured and saved by the monitor unit if the call is not answered within 5 seconds.

Manual photo-taking:

In talking or monitor state, press the Photo-taking button to take photos. There will be a "Capture" message displayed. A maximum of 100 photos can be saved. When the maximum number has been reached, any new photos taken will overwrite the oldest ones automatically.

View photos:

In standby mode, when the screen is on, press the Phototaking button to view the pictures. The photos taken most recently will be ranked first. Press (+ -) button to select photos to view, press TALK button to exit to return to the standby page.

Delete photos:

When viewing photos, press the Photo-taking button and then an indication of "whether to delete the photo" will pop up, press (+ -) button to select "Y (delete one photo)", "N(NO)" and "ALL (delete all photos)", and then press Photo-taking button to confirm.

If "Y (delete one photo)" is selected, press the TALK button to turn back to standby mode.

If "ALL (delete all photos)" is selected, it will turn back to standby mode automatically.

7. PIR Sensing Function

When camera unit's PIR sensor is triggered, the monitor will show camera picture and a photo will be taken and stored on monitor unit.

8. Pairing the Monitor to the Camera

As these are Wifi units, they need to be paired so that separate sets can be run at the same site. A maximum of three monitors can be paired to a camera. A monitor cannot be paired to more than one camera.

1. When the monitor is powered off, press and hold the Power button for 3 seconds to power it on, the screen will display "Welcome". Then immediately press the

Power button three or four times quickly and the monitor will enter encoding mode and will display “Pairing”.

2. Obtain a paperclip and straighten out one leg and push into the Encoding hole on the back of the camera. Hold down until a “Ding” sound is heard with a blue flashing light. When a “Dong” sound is heard from the monitor, it will display camera images and this means the pairing process is now complete and it has paired one camera unit to one monitor.

3. If you need to pair one camera unit with multiple monitor units (up to 3), after completing step 2 above, press the paperclip into the Encoding hole on the back of the camera unit two to three times quickly and when you hear a “Dong Dong” tone, it means that one camera unit is now paired with two monitor units, and if you hear a “Dong Dong Dong” tone the camera is paired with three monitor units.

4. After finishing the pairing (encoding) of two or three monitor units, press the CALL button on the camera unit and if all the monitors display images at the same time, it means the pairing has completed successfully.

Technical Specifications

VDP404 Monitor

Power Supply	4.5V DC 1A
Transmission Rate	2 Mbit/s
Max TX Distance (outside)	50 metres
Dimensions	138(W)x80(H)x22(D)mm
Screen Size	4.3”
Screen Display Size	95.04(H) x 53.856(V)mm
Display Resolution	480(H) x 3RGB x 272(V)
Ringtone Volume	≥70dB
Monitoring Time	30 ± 10%S
Talking Time	90 ± 10%S
Enter Standby no operation	30S
Standby current	≤ 8mA
Standby Power Consumption	≤ 0.3W
Working Power Consumption	≤ 2.4W
Battery standby time	≤ 120 Hours
Transmitting Power	≤ 18dBm
Receiving sensitivity	-80dBm
Transmitting frequency	2403 ~ 2478MHz

VDP301 Camera

Power Supply	5vDC 1A
Camera Pixels	300,000
IR light spectrum	940nm
IR Visual distance	4.3 metres
IR visual angle	90°
Ringtone Volume	≥ 70dB
Dimensions	163.2(W)x84.9(H)x62(D)mm
Standby Current	≤ 1mA
Standby Power Consumption	≤ 0.4W
Working Power Consumptn.	≤ 2.8W
Unlock time	1 ~ 6 seconds
Battery standby time	≤ 500 Hours
Transmitting power	≤ 18dBm
Receiving sensitivity	-80dBm
Transmitting frequency	2403 ~ 2478MHz

Lithium Battery*	Nominal voltage	3.7v
	Nominal capacitance	≤ 1200mAh
	Battery charge extinction voltage	4.2v
	Battery discharge extinction voltage	2.75v
	Charging time	About 3 hours
	Charging current	Max: 400mA
Current		≤ 350mA
Environmental suitability	Working humidity	(-20 ~ 60°C)
	Environmental humidity	5 ~ 90%RH
	Storage humidity	(-20 ~ 60°C)

*Note: The above specifications apply to both batteries.

Troubleshooting

Problem	Resolution
There is no response when the camera unit calls the monitor after powering up.	The camera and monitor have not been paired or have lost the pairing code. Refer to section: VDP400 Door Entry Kit Operation Item 8 “Pairing the Monitor to the Camera.”
Monitor feedback noise	If the monitor is installed too close to the camera, it may cause audio feedback. The best answer is to increase distance between the two units or place a screen between them.
No response after calling	Check that there is battery/power available. Check that the camera and monitor are not beyond the limits of wifi connection, over 50 metres line of site or too many obstructions between camera and monitor.
Fails to unlock	Check that electric lock is connected correctly. If the camera is powered by the lithium battery it will not activate an electric lock. Check that the electric lock is correctly connected.

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