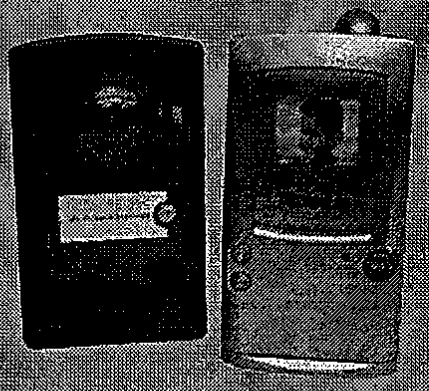
Honeywell



Installation and Use

VISIOCAM™ RCWL8000A and RPWL800A

Wireless Video Chime System

69-2108EFS-06

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Thank you for choosing this Honeywell product. Please carry out the following the instructions to ensure correct installation and use, and keep these notes in a safe place for future reference.

Before you mount the door camera or receiver in a permanent place, make sure that you have tested the two units and that the system works in the location you have chosen! (See 'Setting up', beginning on the next page.)

THE VISIOCAM SYSTEM

Your Honeywell wireless video entry system uses radio signals to transmit a video picture of the caller from the door camera to the receiver. The system is expandable, so you can install a second door camera if required.

CHECKING PACK CONTENTS

The following items are included in the pack:

Chime Kit

- Door camera transmitter unit
- Receiver unit with LCD display
- Receiver charging base
- RCA connection lead
- Four No. 8 screws for wall mounting
- Four wall plugs

Camera Only

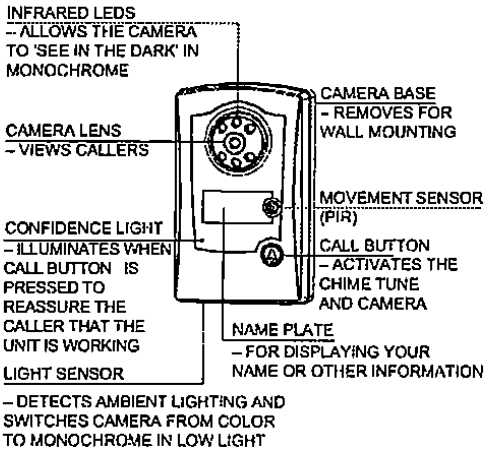
- Door camera transmitter unit
- Four No. 8 screws and plugs for wall mounting

You will need:

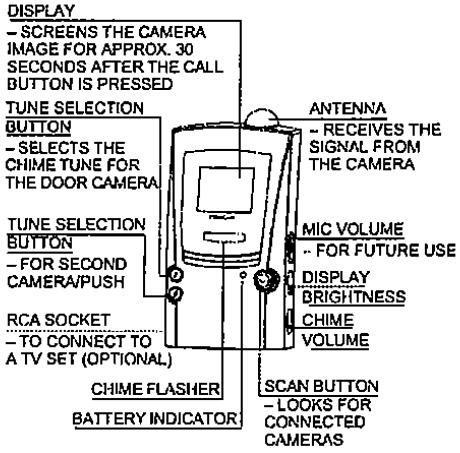
- 6 x AA alkaline batteries for the door camera
- A No. 2 Phillips screwdriver
- A 1/4-in. (6 mm) dia. masonry drill
- A large flat-bladed screwdriver

Features

DOOR CAMERA FEATURES



RECEIVER FEATURES



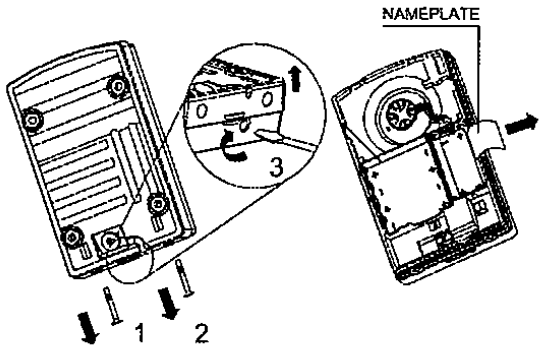
Pre-installation setup

Before fixing the door camera in place, set up and test the system as follows:

Install the batteries in the door camera

Note: The door camera has a built in tamper switch to help prevent theft. Once the batteries have been inserted, the *confidence light flashes and the tamper alert sounds on the* receiver.

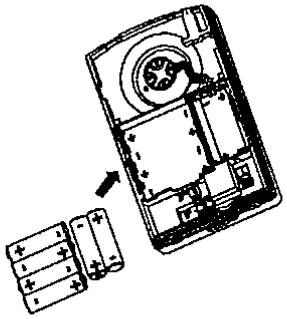
1. Remove the two screws at the base of the camera unit and unhook and release the camera base, pulling it away from the lower end first.



Pre-installation setup

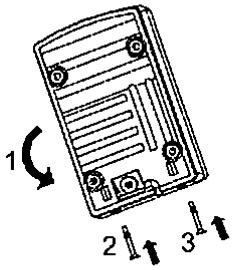
Note: Removing the cover also provides access to the nameplate, so now is a good time to write your name or other information. To use the nameplate, pull the end out from the side of the battery compartment, add your text at the end of the strip and carefully push it back into the slot.

2. Insert six AA-size alkaline batteries in the battery compartment at the back of the door camera – as in the following diagram. Follow the plus (+) and minus (–) signs on the diagram inside the battery compartment. Never mix old and new batteries.



3. Refit the camera base and insert the screws to stop the tamper alert from sounding.

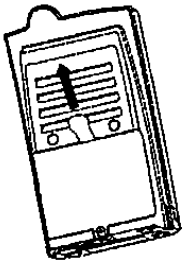
Note: There is an option to power the door camera using an 8–10V transformer. See 'Door Camera Transformer option' at the end of this section for details.



Pre-installation setup

Charge the receiver batteries

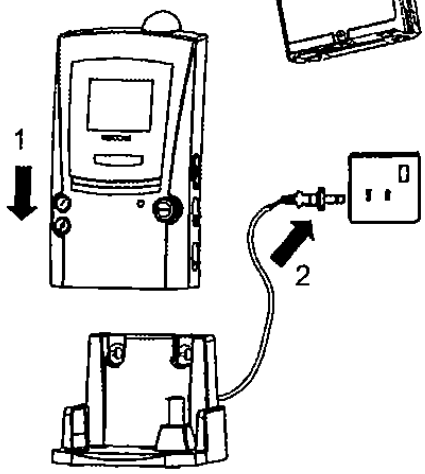
1. Remove the battery isolating tab at the rear of the portable receiver.
2. Place the receiver onto the charging base and plug the charging base into a suitable mains socket.



The battery indicator flashes slowly if this is the first time the unit has been powered up; the chime tunes play once the batteries have enough power.

Before the next step, **leave the unit to charge for at least three hours** so that the batteries have enough power for the LCD screen. The receiver takes about 12 hours to be fully charged.

Note that the charging base and rear of the receiver will get warm in use: this is normal.



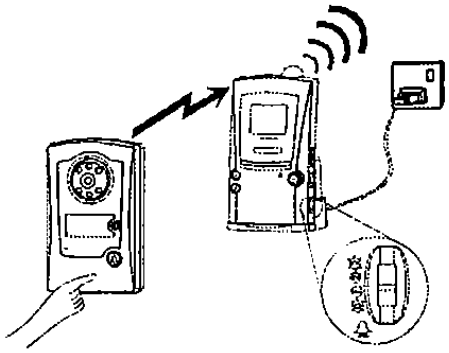
Program the door camera into the receiver

Ensure the door camera and receiver are separated by at least 6 ft. (2 m).

To program the door camera into the receiver, press and hold the call button on the door camera until the receiver responds with a tune and displays the image captured by the camera.

Once the door camera has been programmed into the receiver, the receiver remains active in program mode for approximately two minutes.

Note: You can select another tune by pressing the '♪' button.



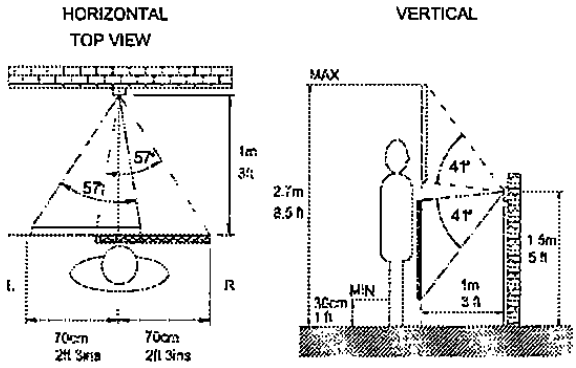
Installing the door camera

Position the door camera

Find a position for the door camera where the call button is easy to press and the camera can 'see' visitors clearly.

The following points are important:

- The height needs to be between 4.5 and 5 ft. (1.3 and 1.5 m) above the ground or step where visitors normally stand.



- The camera is adjustable through a 30° total angle left to right, and 60° top to bottom. Position the unit to ensure the camera has sight of your visitor.
- Avoid a position where the camera faces into the sun, as this may overload the camera and visitors will appear very dark. Facing large areas of bright sky should also be avoided when possible by pointing the camera down, rather than up.
- Position the camera where the motion sensor is not blocked from approaching visitors. Avoid locating the camera where passing people or traffic will cause false triggering. Note that the motion sensor range is approximately 12 ft (4 m) and that it can be switched off if necessary (see 'Door camera', page 10).
- The mounting surface should be of brick or wood construction, and not of metal, reinforced concrete, or heavy stone (i.e. more than 16 in. [40 cm] thick) construction – as this may block the transmitted signal.
- The mounting surface should be even and flat, to avoid distorting the door camera case, level any uneven surface before mounting, as a distorted base can let rainwater into the unit.
- Do not mount within 12 in. (30 cm) of large metal objects, or steel reinforced PVC frames, as this reduces or blocks signals to the receiver.
- Keep the base of the door camera clear of shelves or other projections that might block the light sensor under the unit. An obscured sensor causes the camera to switch into black and white mode.
- If the door camera is to be powered separately, power cable must also be considered.

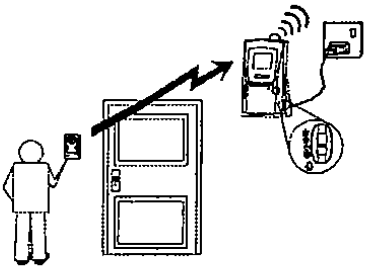
Installing the door camera

Position the receiver

The receiver must be positioned within range of the door camera (i.e. less than 60 ft. (20 m) in a typical building).

Test the system

To ensure reliable operation, we recommend that both the door camera and receiver are powered up in their planned position(s), to check that the receiver has a good signal from the door camera.



To test the system, have someone hold the door camera against the wall in the selected mounting position and press the call button, while you check the reception on the receiver unit.

If the picture quality is poor, or there is no response when the call button is pressed, then there are three possible reasons:

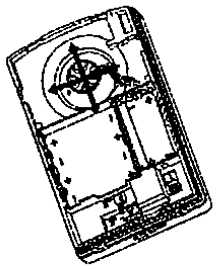
1. The units may be too far apart (more than 60–90 ft. [20–30 m] in a typical house). Try moving the receiver closer.
2. There is nearby interference on the video channel. Remove the door camera back and change the video channel switch from CH 1 to, for example, CH 3. Test the system again, selecting a different channel if channel 3 is no better.

Refer to the troubleshooting section for more information on interference reduction.

3. The door camera has not been programmed into the receiver (refer to page 3).

Adjust the camera angle

With the door camera at the intended position, you may need to adjust the camera lens to cover the desired observation area.



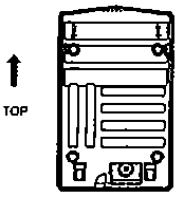
Open the back of the door camera and adjust the camera eyeball from the back of the product. Note that there is more camera movement available in the Up/Down than in the Left/Right direction.

Installing the door camera

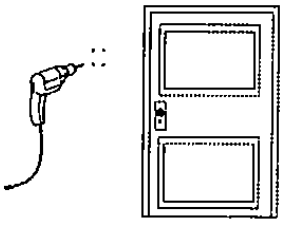
Mount the door camera

Do not mount the camera in wet conditions as moisture or condensation will affect the internal parts.

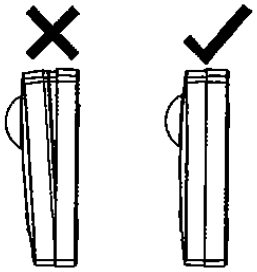
Once you have tested the system in place, mount the camera onto a wall or door as follows:



1. Remove the two screws underneath the door camera. Unhook and release the front and pull it away from the base. Note the TOP arrow on the base.



2. If mounting to a wall, mark the location of the four mounting holes using the camera base as a template. Drill using a 1/4-in. (6 mm) masonry bit. The distance between mounting holes is 2.8 in. (72 mm) horizontally and 3.6 in. (92 mm) vertically.

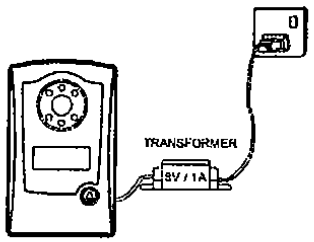


3. Fix the door camera base in place using the screws and wall plugs provided.
4. Hook the door camera into the base at the top first, then push and click it in at the bottom. Check that the unit is evenly pressed in place to seal the unit from rain damage. Make sure that the sealing strip on the camera front remains in place. Insert the two screws underneath, and tighten.

Check that the unit is working after installation by pressing the call button, the confidence light should illuminate.

Installing the door camera

Door camera transformer option



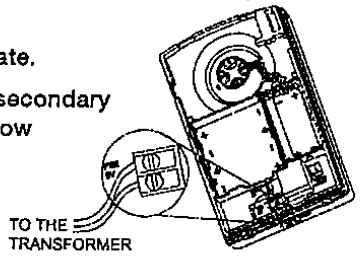
For installations where there is frequent use, typically more than five uses per day, the door camera can be powered using an 8–10 volt, 1 amp transformer.

Important: Higher voltage transformer might damage the camera.

Connect the low voltage output of the transformer to the door camera using suitable low voltage cable such as bell wire. Maximum recommended outer cable diameter is .2 in (5 mm). The cable run should not exceed 100 ft. (30 m).

A cable inlet with a water seal is provided in the rear of the door camera. To connect up the transformer:

1. Feed the power cable through the cable inlet and connect it to the power terminals. Leave about 6 in. (15 cm) of cable free between the base and the door camera body, for later service access. Do not fit batteries.
2. Secure the door camera in place. Check that the front is fully and evenly pressed in to seal the unit against rain damage.
3. Secure the cable using clips or tacks as appropriate.
4. Connect the other end of the power cable to the secondary (8V output) of an unpowered bell transformer. Follow the transformer instructions carefully for correct connections.
5. Connect the mains terminals of the transformer to a suitable, always on, mains supply.



Test the door camera by pressing the call button: the confidence light should illuminate.

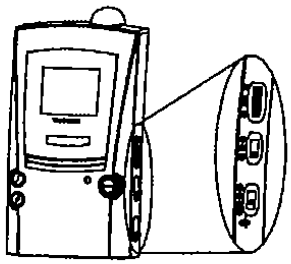
Note: If you have not used the door camera with batteries for a trial test, then you must program the door camera with the receiver by following the 'program the door camera into the receiver' instructions.

Installing the receiver

Receiver operation

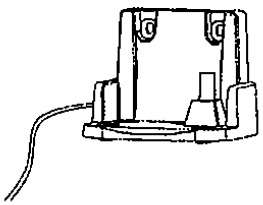
When the call button is pressed on the door camera, the receiver chimes (provided the volume switch is not set to 0) and the camera image is displayed for about thirty seconds. If the caller presses the call button again, then the display time will extend to another 30 seconds. Video transmission is limited to 30 seconds to conserve camera battery life and is not adjustable.

When the batteries need recharging, a camera image is no longer shown – the chime alone sounds (unless the battery level is too low for sound).



Charging base

Like a portable phone, keep the receiver topped up on the charging base for reliable operation. Depending on use, the receiver should operate for several days off the charging base. The charging base can be used on a flat surface.



Battery indicator

The indicator behaves as follows:

Remains on	when the receiver is on the charging base and is fully charged.
Blinks once a second	when the receiver is charging.
Remains off	when the receiver is off the charger and the batteries are OK.
Blinks slowly once every ten seconds	when the receiver is off the charging base and needs recharging.

Chime flasher

Flashes to indicate a call when the chime volume control is in position 0 or 2*.

Display brightness

Activate the door camera by pressing its call button, then adjust the receiver display for best viewing by using the four position slide switch. One step down from maximum brightness is the recommended setting.

Chime volume control

The chime volume level can be set to using the lowest slide switch of the three (see diagram above). Adjust to high level (2), low level (1), or off (0).

Installing the receiver

Chime tune selection

The receiver chime tune can be changed by pressing the '♪' button.

Chime tune options are as follows:

- Two note bell (Default tune for door camera)
- Saxophone (Default tune for second door camera or bell push)
- Single note bell
- Knock

The '♪' button changes the chime tune for a second door camera or a door push.

Night operation

In good daylight conditions, the receiver displays a color picture. In low lighting or at night the display automatically switches to black and white. Infrared LEDs illuminate the caller, so they can be viewed on the receiver even when surrounded by complete darkness.

Low camera battery indication

When the batteries in the door camera are running low, the receiver indicates this with a double beep warning tone that follows the chime when a visitor presses the call button. Replace the batteries in the door camera within one week of a low battery alert.

Tamper alert tone

If someone attempts to remove the door camera by unscrewing the cover screws, the tamper alert tone is triggered, beeping for 30 seconds. Check outside immediately.

Press any button on the front of the receiver to stop the alert tone. The alert tone is unaffected by the chime volume switch.

Note: The alert is also triggered when you undo the cover to replace batteries in the door camera.

MIC volume

[For future use] The topmost control along the side (see diagram on page 8) will control the volume produced from a microphone. Adjust for optimum listening level.

Scan button

When used in a multi-camera system, this button scans through available pictures.

Privacy

Remember that this product uses the public airwaves, and that the 30-second duration video signal from the door camera(s) can be picked up by nearby 2.4GHz video receiving devices.

Door camera

Motion sensor

The PIR ('Passive InfraRed') sensor activates the door camera automatically. The receiver produces a 'ping' sound and displays the door camera image for approximately 30 seconds.

If the motion sensor is not required, then it can be disabled.

To switch the motion sensor off, press and hold the call button on the camera for more than ten seconds. The confidence indicator blinks rapidly to confirm that the motion sensor is disabled.

To switch the motion sensor back on, press and hold the call button for more than ten seconds, the confidence indicator remains on for two seconds to confirm.

Note: Power loss to the camera or a change of batteries will reset the sensor back on.

Expanding your system

There are many ways to expand your entry system: you can connect your system to a television set or add more cameras, for example.

TV connection

You can connect the receiver to a TV set via the accessory RCA lead provided. Connect the stereo plug to the VisioCam receiver unit and plug the yellow RCA plug to the TV AV input. Set the TV channel to the default AV channel for the said RCA input (refer to TV set instructions).

When the door camera is activated, the VisioCam receiver will chime and the TV will display the image of the visitor.

Note: The TV needs to be set at the default channel manually in order to display the image. Auto switching function not available.

Adding a door push

The receiver will respond to a Visiocam door push. To program a door push into the receiver:

1. Press and hold the '♪' button for approximately five seconds until the receiver beeps three times
2. Press the door push button until the receiver sounds.

Note: The video receiver does not respond to a door push while the video screen is active.

Additional door cameras

The receiver will respond to up to four door cameras.

Each camera must be set on a different video channel (1–4), and be programmed into the receiver. Refer to the instructions provided with the additional unit, or see 'To reprogram or reset the receiver', in this section.

To reprogram or reset the receiver

A. To add another door camera or bell push:

Press and hold the '♪' button for more than five seconds, the unit will beep three times and enter programming mode for approximately two minutes. During the two minute programming time, press the call button or button on the new unit to program it in. The unit must be within 30–60 ft. (10–20 m) of the receiver to ensure reliable programming.

B. To clear all programmed data, e.g. when replacing a door camera:

Press and hold both the '♪' and '♪' buttons in for five seconds to clear the programmed data and enter programming mode. The available chime sounds play.

Follow the programming sequence under Receiver Setup.

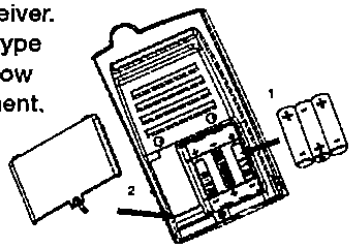
Maintenance and use

CARE AND MAINTENANCE

- Fingerprints or dirt on the door camera lens can cause a dull or blurred picture. Occasionally use a soft, damp cloth to wipe the surface. Do not use cleaning products. Over-zealous or too frequent cleaning will scratch the surface and blur the picture.
- Keep the receiver and charger base away from rain, liquids or risk of liquid spillage.
- Do not place rings or other metal objects over the peg in the charging unit – they will become hot to the touch!
- Do not allow any rain or moisture to become trapped inside the door camera, as it may damage the internal parts.
- Avoid replacing door camera batteries during wet weather.
- Do not take the products apart; there are precision components inside which are easily damaged.
- Avoid dropping or strong shocks to either unit.
- Only use the included or recommended power supply.
- Do not use or store either unit in dusty, dirty areas.

REPLACING THE RECEIVER BATTERIES

Constant use will eventually reduce the capacity of the rechargeable batteries, and reduce the receiver life off the charger base. Replace the batteries by unscrewing the single battery cover screw at the bottom rear of the receiver. Remove the old batteries and replace with three NiMH type AA batteries with a minimum capacity of 1200mAH. Follow the battery orientation symbols in the battery compartment. Replace the battery cover and cover screw.



Troubleshooting

The system does not work...
- Make sure the door camera is powered, refer to below.
- Make sure the receiver is powered, refer to below.
- Move the receiver closer to the door camera to receive a better signal.
- If new, make sure the door camera is programmed to the receiver – see 'Pre-installation Setup' on page 3.

Door camera is not powered...
This is indicated when the red confidence light on the front does not light when the call button is pressed. Check:
- The batteries are all inserted in the right direction.
- The batteries are new and Alkaline type.
- If transformer powered, the transformer is connected to the mains and powered on.
- There is no damage to the transformer connecting cable.
- The two wires in the transformer connecting cable are making contact to the terminals in the unit and in the transformer.

Receiver is not powered...
- The batteries are discharged. Place the receiver on the charging unit for a minimum of 12 hours to fully recharge the batteries. The receiver battery indicator will blink once a second to indicate charging, and will stay on when the receiver is fully charged.

The receiver only displays a black and white picture...
- The light level at the door camera is very low.
- The light sensor under the door camera is covered, is too close to an adjacent object, or is facing a very black surface.

The signal is poor, or there is interference...
- The receiver is in a signal 'dead spot.' Rotate or move the receiver 20 in. (50 cm) and try again. People walking near the receiver can also temporarily affect the reception quality.
- Make sure that the receiver is in range of the door camera, approximately 100 ft. (30 m) in a typical building. Move the receiver closer to see if the picture improves. If this does not improve the picture then there is nearby interference on the video channel. Open the door camera and change the video channel switch from 1 to 3, for example.
- If there is more than one video transmitter (door camera or others), every unit must have its video channel switch set to a different channel.
- A microwave oven may be in use in the path between the door camera and receiver. Move the microwave oven or turn it off.
- Computers and other IT equipment can radiate signals and affect the video quality. If this is a likely problem, move the receiver away (at least 3 ft. [1 m]) from the units.

The receiver chimes, followed by a beep-beep...
This indicates low battery power in the door camera. Replace the door camera batteries.

Troubleshooting

A beep-beep tone sounds for 30 seconds...
This is an alert triggered by the tamper switch indicating someone is trying to unscrew and remove the door camera. Check outside immediately.
The tone may sound if the screws that mount the front of the door camera to the rear are not fully screwed in place.
Press any button on the receiver to stop the alert tone.

The receiver switches on randomly...
This is probably due to the motion sensor on the camera picking up passers by, passing cars or moving heat sources.
Switch the PIR sensor off, (refer to the 'DOOR CAMERA' section), block off the unwanted movement, or relocate the door camera.

Chime sounds but the picture is displayed for only a few seconds...
- The video signal has been interrupted. Press the Scan button to recapture the video signal, move the receiver to another position nearby.
- If this occurs regularly, locate the receiver closer to the door unit, or place the receiver higher up. Generally, the receiver will receive a stronger signal up on a shelf, and a weak signal near the floor.
- The battery charge is low. Place the receiver on the charger for at least four hours to recharge the batteries.

Specifications

	Door Camera	Receiver
Power requirement		110V AC ±10% via charger
Battery type	6 x AA-size alkaline batteries	3 x AA-size NiMH batteries, minimum 1200mAh
Battery operating life	typically one year*	typically 3 days from full charge*
Motion sensor range	12 ft. (4 m) typical (fixed sensitivity)	N/A
Optional power	via 8V to 10V 1A belt transformer** or 8–12V AC or DC supply	N/A
Maximum number of transmitters (video or door push) programmable per receiver	N/A	4 (1, 2 with selectable chime tune; 3, 4 with fixed chime tune)
Sound output	N/A	80dBA/3 ft (1 m) (position 2)
Operating frequency	433MHz and 2.4GHz	433MHz and 2.4GHz
RF output level	<1mW	N/A
Antenna type (built in)	omnidirectional	omnidirectional
Camera type	CMOS sensor	
Effective resolution	628 x 582 pixels	TFT LCD true color display
Video standard	NTSC	NTSC
Settable Video channels	4	4, with auto detection
Video output	N/A	1Vpp 75Ω
Color to B/W changeover	Approx. 100 lux brightness	
Operating temperature	14°F to 104°F –10°C to 40°C	32°F to 104°F 0°C to 40°C Charging Base: 32°F to 95°F 0°C to 35°C
Weight	13 oz. (340 g) (without batteries)	13 oz. (340 g) (with batteries)
Size H x W x D	6.3 x 3.8 x 1.9 in. (160 x 97 x 49 mm)	6.3 x 3.4 x 1.8 in. (160 x 86 x 47 mm)
Rain proof	Pass UL1598 rain test	N/A

* Based on three calls per day in a temperate climate. More frequent use, or operation in a low temperature environment 14°F to 41°F (–10°C to 5°C) will reduce battery life.

To comply with the FCC RF exposure compliance requirements, this device and its antenna must not be co-located or operating to conjunction with any other antenna or transmitter.

DECLARATION
Honeywell hereby declares that this product complies with Part 15 of the FCC rules and Industrial Canada standards. This device 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. Caution: Changes or modifications not expressly approved by the party responsible for regulatory compliance could void the user's authority to operate the equipment.

The charging base is in compliance with relevant standards in CUL and UL60065 safety requirements.

GUARANTEE
Honeywell guarantees this product for 1 year from the date of purchase. Proof of purchase is required; this does not affect your statutory rights. If you require further information about your product, call the Honeywell helpline at 1-800-468-1502

DISPOSAL AND RECYCLING
Batteries and waste electrical products should not be disposed of with household waste. Please recycle where these facilities exist. Check with your local authority or retailer for recycling advice.

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Honeywell

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