

iPCAM-PT2A Pan and Tilt Wireless Internet Video Camera - Quick Installation Guide

For Online Support visit: <https://mywebtech.honeywell.com/>

General Information

This guide provides information on installing and setting up Honeywell's iPCAM-PT2A Camera. This camera is ideal for monitoring your home, business or public facilities.

NOTE: With the addition of the Auto-Calibration Correction feature, iPCAM-PT2A DOES NOT spin on its pedestal upon software reset. The camera spins only upon power-up or a manual Pan/Tilt command.

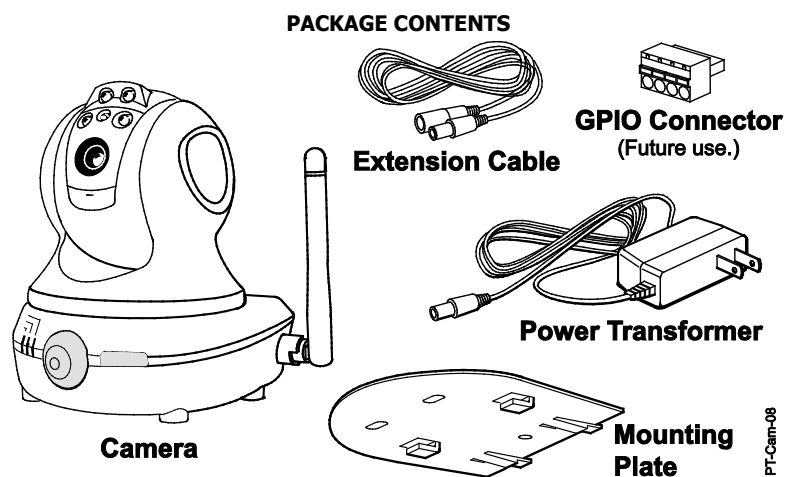
Camera features include:

- Wired or Wireless communications to a router or access point. Wireless communications utilizes the 802.11b/g/n protocol with WPS security. WPS (Wi-Fi Protected Setup) is a standard for easy setup of a secure wireless network.
- Pan and Tilt Color video can be controlled and monitored through your Total Connect remote services account. Up to 6 cameras can be used.
- Auxiliary LED lighting that improves the quality of video up to 15 feet (4.5m) in low-level light situations.

IMPORTANT: This camera is for indoor use only. To avoid damage to the drive mechanism, do not manually pan or tilt the camera. DO NOT mount this camera within 1 foot (0.3m) of any wireless device.

To utilize this camera, you must have:

- An AlarmNet account for a cellular or Internet communicator, or a "Video Services Only" account.
- Total Connect account. (If an account does not exist, the dealer should use the AlarmNet website to set up a Total Connect account for the customer.)
- Internet access with a router capable of DHCP hosting. For wireless, the router must also support one button WPS data encryption. If this is not available, order the Honeywell WAP-PLUS Wireless Access Point for connection to your router.



Component Identification

Power

- Blinking Green - Camera initialization period, allow up to 2 minutes.
- Steady Green - Camera is initialized and power is on.

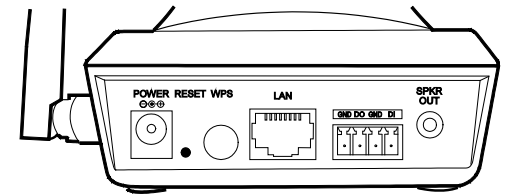
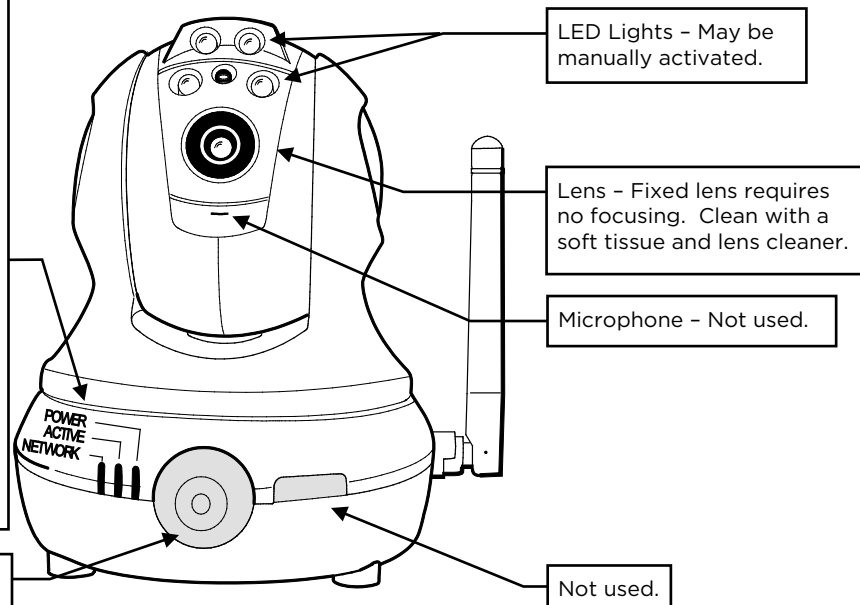
Active

- Off - No user is monitoring the camera.
- Blinking Green - User(s) are monitoring the camera.

Network

- Steady Green - Wireless / LAN is available.
- Blinking Green - Network transfers.
- Blinking Amber - Indicates a WPS configuration is in process.
- Steady Amber - WPS fault.
- Off - Wireless / LAN not connected.

Motion Sensor - PIR motion sensor used to trigger programmed events, such as capturing video and sending email notifications.



Power Connector - Connect transformer here.

Reset Button - Resets IP Camera to default settings. (Use a paper clip to depress and hold for 12 seconds, then RELEASE.) Upon a successful reset, the Power, Active, and Network LEDs blink 3 times.

WPS Button - Used during setup to configure wireless encrypted connectivity.

LAN Connector - Used for wired connectivity. When connected, wireless is disabled. The camera must be powered off whenever connecting or disconnecting the Ethernet cable.

GPIO Connector Socket - Future use.

Speaker Out - Not used.

Planning the camera installation

A camera installation can be as simple as installing one camera, or up to six cameras per Total Connect account. In large installations it may include a mix of wireless, and wired cameras.

The installer should work closely with the customer to achieve a satisfactory installation.

Layout Considerations:

- Depending on layout and distances, one or more WAP-PLUS units may be needed.
- Wireless distance may be reduced by thick walls, wire lath, and large metal objects.
- When setting up a wireless configuration in very large buildings or buildings with dense walls, wireless communications may be marginal. It is best to first configure the system's wireless security in the same room (within 20 feet, 6m). Upon successful configuration, place each camera in the desired location, and verify in Total Connect that everything works.
- For installations where multiple WAP-PLUS units are used, label the units to indicate which IP cameras are linked to which WAP-PLUS.
- Each IP camera or ACU (Analog Converter Unit) will communicate through its associated WAP-PLUS.
- Each WAP-PLUS must be spaced at least 4 feet (1.2m) from other wireless devices.
- Ensure each device uses the correct power transformer. When needed, secure wires with cable ties.
- Refer to the installation guides for the WAP-PLUS, ACU (Analog Converter Unit), and each IP camera for detailed information about that product.

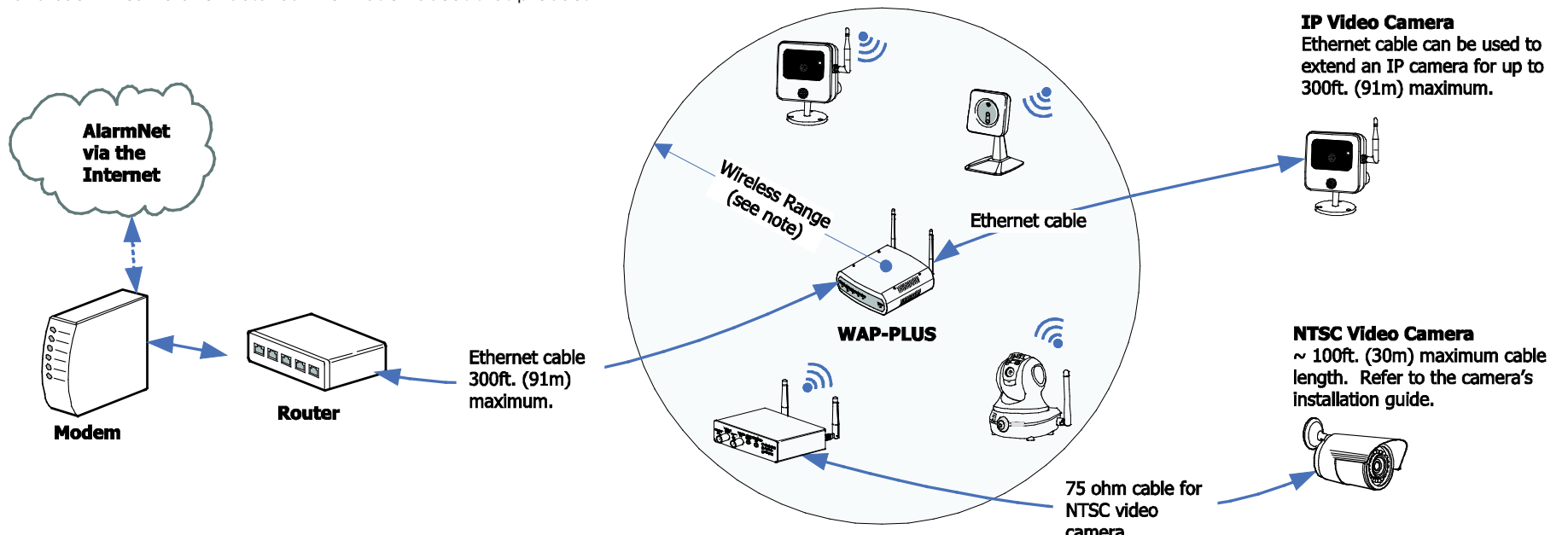
Wireless Range:

The wireless range and bandwidth (data rate) are dependent on the wireless technology used; as determined by the 802.11b/g/n specifications. This determines the range and data transfer rate. For instance under ideal conditions,

- 802.11 g provides up to 125 ft. (38m) range, and 54Mbps/s data rate, and
- 802.11 n provides up to 230 ft. (70m) range, and 150Mbps/s data rate.

Other factors that reduce the range are thick walls, wire lath, large metal objects, and the number of cameras sending data.

Because of the many variables, the best way to determine if the installation is successful, is to test the finished installation by logging into the Total Connect website and checking each camera.



1. Mount the camera

For wireless connections: Wireless security should be configured *before* permanently mounting the cameras (refer to #2, **Power and configure wireless security** at right).

On horizontal surfaces such as a shelf, the **mounting plate** typically is not needed. However if there is vibration, or the mounting surface is very small you may wish to use the mounting plate. This will ensure that the camera is not disturbed by vibration or the wires being tugged.

1. If mounting to a vertical or overhead surface, use the mounting plate. Use all three holes in the mounting plate with screws that are suitable for the surface; do not use flat-head screws.
2. Slide the camera onto the mounting plate until fully seated as indicated by a clicking sound.
3. Orient the antenna vertically.

4. Connect the **power transformer's** wire to the **power connector** on the back of the camera.

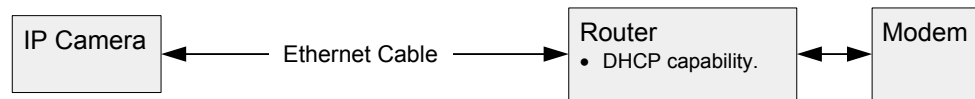
DO NOT PLUG IN THE POWER TRANSFORMER AT THIS TIME.

IMPORTANT: If you need a longer power transformer cable (6 ft., 1.8m), you can order the iPCAM-EXT extension cable. This will add 9 feet (2.7 meters) to the supplied transformer for a total of 15 feet (4.5 meters). You may use **ONLY** one power extension cable.

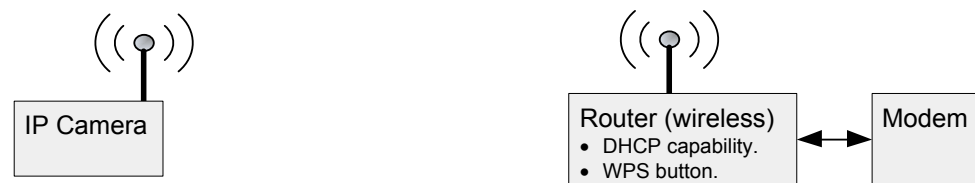
NOTE: THE TRANSFORMER MUST BE POWERED BY A **NON-SWITCHABLE** OUTLET.

5. Refer to the diagram below, and determine which configuration applies.

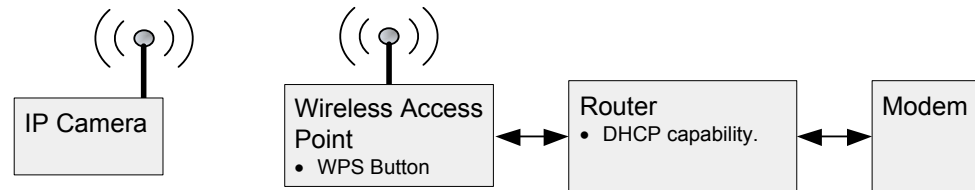
Configuration #1 - You are using a wired connection and your Router supports DHCP.



Configuration #2 - Your wireless Router supports DHCP and one button WPS encryption.



Configuration #3 - Your wireless Router supports DHCP but DOES NOT support one button WPS encryption.



2. Power and configure wireless security

Refer to the configuration illustrations, below left.

Configuration #1: Connect each camera to the router with an Ethernet cable. Then plug the Power Transformer into an outlet. Camera installation is DONE.

Configuration #2: Complete all the steps below.

Configuration #3: Connect the optional Honeywell WAP-PLUS Wireless Access Point to the router, then complete the steps below.

NOTES:

- In order for the camera to be configured in wired mode, the Ethernet cable must be connected first, then apply power.
- In order for the camera to be configured in wireless mode, make sure NO Ethernet cable is connected. Apply power.
- When setting up a wireless configuration in very large buildings or buildings with dense walls, wireless communications may be marginal. It is best to first configure the system in the same room. Then upon successful configuration, place each camera in the desired location.
- If using more than one wireless camera, each must be configured for wireless security. Configure one camera at a time.
- If using a router instead of Honeywell's WAP-PLUS, ensure that the router is configured for DHCP. (This is the default setting for most routers.) If you are unsure, access the router's configuration settings and enable DHCP (refer to the router's manual).

Configuring Wireless Security:

Each IP camera or ACU must be configured separately. Follow these steps:

1. Ensure the WAP-PLUS is on and fully booted (allow 2 minutes for the boot process to complete).
2. Ensure an Ethernet cable is NOT connected to the IP camera. Then plug the IP camera's Power Transformer into an outlet. Ensure the camera is powered up and fully booted (allow 2 minutes for the boot process to complete).
3. At the Router or WAP-PLUS, press and hold the WPS button for **3 seconds**, then RELEASE. The WAP-PLUS Security light starts blinking. Other wireless access points may operate differently.
4. At the camera, within **1 minute**, click and RELEASE the WPS button.
5. The indicator LED will blink amber during the WPS process, then turn green. Allow up to 45 seconds for the WPS process to complete.
6. Repeat the steps above for each camera.

NOTE: In **wireless modes**, these steps are required if you use the Reset button on the back of the camera to restore factory defaults:

- Delete the camera from the AlarmNet account
- Re-enroll it in the account
- Reconfigure wireless security for the camera

3. Enroll camera(s) or modify settings in AlarmNet

You will need the following information:

- MAC ID for each camera. The MAC ID is on the camera bottom and the carton.
- AlarmNet account with user name and password.

If you do not have the AlarmNet account number, you may use the MAC ID of your communicator or alarm panel.

Model No:	iPCAM-PT2A
Serial No:	090318YL50000015
MAC:	000E8F79C7C3

The MAC ID is on the camera bottom and the carton.

Dealers can enroll cameras and set up Total Connect accounts for customers by visiting the AlarmNet website at <http://www.alarmnet360.com/>.

➔ Click **Help** at the bottom of the page. Refer to PDF of the Online Help Guide for these topics:

- **Customers without AlarmNet accounts:** See "Accounts ► Account Generation".
- **Customers with an existing "Video Only" account:** See "Adding IP Video Devices" to add a new camera.
- **Customers with an existing AlarmNet cellular or Internet communicator account:** Make sure the account number is green (registered) and the [Has Remote Service Capabilities](#) icon is present. Then add the new camera.

When the camera is set up and the customer's Total Connect account is established, they can view their video by visiting: <https://rs.alarmnet.com/totalconnect2#/>

The cameras are now ready for customer use.

- Have the customer log into their Total Connect account to view the video.
- The customer may be prompted to install or update QuickTime® and/or Flash® Player.
- If any cameras are mounted upside down, there is a setting to flip the image upright.
- At this time the location of each camera can be adjusted for the desired view.
- When adding, editing, or deleting a camera, the customer can receive email notification.
- For more camera information, see the Total Connect Online Help Guide.

FEDERAL COMMUNICATIONS COMMISSION STATEMENTS

The user shall not make any changes or modifications to the equipment unless authorized by the Installation Instructions or User's Manual. Unauthorized changes or modifications could void the user's authority to operate the equipment.

CLASS B DIGITAL DEVICE STATEMENT

This equipment has been tested to FCC requirements and has been found acceptable for use. The FCC requires the following statement for your information:

This equipment generates and uses radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause 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:

- If using an indoor antenna, have a quality outdoor antenna installed.
- Reorient the receiving antenna until interference is reduced or eliminated.
- Move the radio or television receiver away from the receiver/control.
- Move the antenna leads away from any wire runs to the receiver/control.
- Plug the receiver/control into a different outlet so that it and the radio or television receiver are on different branch circuits.
- Consult the dealer or an experienced radio/TV technician for help.

INDUSTRY CANADA CLASS B STATEMENT

This Class B digital apparatus complies with Canadian ICES-003. Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

FCC / IC STATEMENT

This device complies with Part 15 of the FCC Rules, and RSS210 of Industry Canada. 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.

Cet appareil est conforme à la partie 15 des règles de la FCC & de RSS 210 des Industries Canada. Son fonctionnement est soumis aux conditions suivantes: (1) Cet appareil ne doit pas causer d'interférences nuisibles. (2) Cet appareil doit accepter toute interférence reçue y compris les interférences causant une réception indésirable.

DECLARACIÓN COFETEL

La operación de este equipo está sujeta a las siguientes dos condiciones.
1. Es posible que este equipo o dispositivo no cause interferencia perjudicial y.
2. Este equipo debe aceptar cualquier interferencia, incluyendo la que pueda causar su operación no deseada.

DECLARACIÓN ANATEL

Este equipamento opera em caráter secundário, isto é, não tem direito a proteção contra interferência prejudicial, mesmo de estações do mesmo tipo, e não pode causar interferência a sistemas operando em caráter primário.

TRADEMARKS

Honeywell is a registered trademark of Honeywell International Inc.
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