General information

This guide provides information on configuring Honeywell's WAP-PLUS Wireless Access Point. Out of the box, the WAP-PLUS functions as a wireless access point to support Honeywell iPCAM and ACU (Analog Converter Unit) video cameras. After initial setup, the WAP-PLUS must be configured as described in this document. For specific information on how to connect IP cameras to ACU peripherals, please refer to the ACU installation guide.

In addition, the WAP-PLUS must be used for IP camera installations with the LYNX Touch (L5100 series) control panel. For this use, the WAP-PLUS must be configured as described in this document. For specific information on how to connect the WAP-PLUS to the LYNX Touch (L5100 series) control panel, please refer to the LYNX Touch User Guide.

The WAP-PLUS provides an easy-to-use setup wireless solution that enables Honeywell's IP camera series video cameras to communicate with AlarmNet.

Some major features of Honeywell's WAP-PLUS are:
- Utilizes the 802.11b/g/n protocol with WPA2-PSK wireless security.
- Supports WPS security. WPS (Wi-Fi Protected Setup) is a standard for easy setup of a secure wireless network.
- This device is for indoor use only. The WAP-PLUS must be spaced at least 4 feet (1.2m) from other wireless devices. For detailed information on wired and wireless operating distances, refer to the camera or ACU's installation guide.

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Indicator and connector identification

<table>
<thead>
<tr>
<th>Security</th>
<th>WPS</th>
<th>Wireless</th>
<th>LAN</th>
<th>Power</th>
<th>Reset</th>
</tr>
</thead>
<tbody>
<tr>
<td>On – Wi-Fi security is set to on.</td>
<td>Flashing – Flashes when WPS button has been pressed for 3 seconds and released, to indicate the WAP-PLUS is transmitting a new security key to the wireless camera. When the wireless camera replies, the Security LED lights solid.</td>
<td>WPS (button): Used to setup a secure wireless connection. (Refer to the documentation for the wireless camera.)</td>
<td>Wireless:</td>
<td>Off – No wireless connections exist.</td>
<td>Power Transformer: This switch has two functions; Used to setup a secure wireless connection. (Refer to the documentation for the wireless camera.)</td>
</tr>
</tbody>
</table>

Using the WAP-PLUS as a wireless access point

For specific setup and configuration instructions for your wireless camera, refer to the camera's installation guide.

1. If using wireless connectivity, attach the two antennas to the WAP-PLUS. Orient each antenna vertically and tighten the knurled connectors.
2. Connect the Power Transformer wire to the 12V / 1A connector on the WAP-PLUS back. Plug the Power Transformer into an outlet.

NOTE: The Power Transformer must be powered by a non-switchable power outlet.

IMPORTANT:
- 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 wireless 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 wireless router instead of Honeywell's WAP-PLUS, please ensure your router has WPS security, and is configured for DHCP. (DHCP is the default setting for most routers.) If necessary, you can access the router's configuration page and set it for DHCP. Since the operation of each router varies, please refer to the router's manual / manufacturer for details.
- Log into the Total Connect website and check that each camera works.

Typical configuration using a mix of wired and wireless cameras:

1. Start > Run, then type "cmd" and enter 192.168.0.5.
2. Connect the Power Transformer wire to the 12V / 1A connector on the WAP-PLUS back. Plug the Power Transformer into an outlet.
3. Connect the WAP-PLUS to the LYNX Touch back panel.
4. Connect the Power Transformer wire to the 12V / 1A connector on the WAP-PLUS back. Plug the Power Transformer into an outlet.
5. Connect the wireless camera to the WAP-PLUS.
6. Connect the wired camera to the WAP-PLUS.
7. Power up the WAP-PLUS and ensure it is set to factory defaults by depressing the RESET button until it flashes. Allow the WAP-PLUS to reboot as indicated by the LEDs going off then back on. This may take some time.
8. Verify the WAP-PLUS is ready to communicate by performing a "ping" test. From the Windows Taskbar, start > Run, and enter cmd, then type "ping 192.168.0.5" and confirm connectivity.

Configuring the WAP-PLUS with LYNX Touch, L5100 series

To support the LYNX Touch (L5100 series), the WAP-PLUS must be configured as described here.

IMPORTANT: If you press the WPS button without first configuring the WAP-PLUS, and you successfully enroll at least one IP device, then you will not be able to access the admin/password credentials to configure the WAP-PLUS. The WAP-PLUS will work in a "locked out" mode. In this mode, the wireless security level will set to WPA2-PSK with a randomly generated WPA key.

You can restore the WAP-PLUS to the factory defaults by pressing a 3-second button cycle to complete.)

The best practice is for the dealer to configure the WAP-PLUS prior to installation at the customer's premises. You will perform the following:
- Determine the IP address and access the configuration page.
- Set the SSDN name and Security level.
- Set the User Name and Password for the WAP-PLUS.

Configuring the WAP-PLUS:
The procedure shown is for Windows XP. Substitute steps for Windows VISTA, Windows 7, and Windows 8 are explained on the back.

1. Disconnect the PC from the internet or LAN.
2. At the PC, select the desktop My Network Places icon, right click, and select Properties.
3. Select the active Local Area Connection icon, right click, and select Properties.
4. Select Internet Protocol (TCP/IP) or TCP/IPv4 and click Properties.
5. Select Use the following IP address and enter 192.168.0.0.5.
6. Click in the Subnet mask field, and it will populate with 255.255.255.0. Click OK. Then close all the network windows and connect the PC to the WAP-PLUS as follows:
7. Power up the WAP-PLUS and ensure it is set to factory defaults by depressing the RESET button until it flashes. Allow the WAP-PLUS to reboot as indicated by the LEDs going off then back on. This may take some time.
8. Verify the WAP-PLUS is ready to communicate by performing a "ping" test. From the Windows Taskbar, start > Run, and enter cmd, then type "ping 192.168.0.5" and confirm connectivity.
10. A command window opens. Enter ping -t 192.168.0.1 and hit [Enter]. The command box displays the ping results.

11. When you get at least 3 replies from the WAP-PLUS (192.168.0.1) halt the pinging with a [Ctrl] + [C] keyboard command, then close the command box.

12. At the PC, open the browser and enter http://192.168.0.1 into the address field. Then click refresh.

13. The WAP-PLUS log in screen appears.

14. Enter the default User name (admin) and password (password), then click OK.

15. The Wireless AP screen appears.

16. In the left pane, select Wireless. (Completed screen shown below.)

17. In the Region drop-down field, select a region. Then give the SSID1 a meaningful name.


19. From the Security System drop-down field, select WPA2-PSK. Create a PSK key (pre-shared key) that is greater than 8 characters. Click Save, then Close.

20. The Wireless screen returns.

21. In the left pane select Password. If a security log in screen appears. Enter the default User name (admin) and password (password), then click OK.

22. The Password screen appears.

23. Change the default password and click Save.

24. In the left pane click Log Out, then OK for the confirmation message.

25. You can repeat this procedure for the next WAP-PLUS, or return your PC to a network DHCP state and reconnect it to the internet or LAN.

NOTE: With the LYNX-Touch (L5100), the LAN (router) can be connected to any of the four wired ports.

Substitute steps for other Windows operating systems

Depending on what version of Windows you are using, screen appearance will vary. Further you may have to accept permission messages to continue.

As with any operating system there are many ways to do the same task. For alternate ways, please refer to your operating system's help file.

Windows VISTA (Substitute these steps.)

2. From the task bar, navigate Start > Settings > Control Panel. Select the Network and Sharing Center icon, right click, and select Open.
3. In the left pane, select Manage network connections. Select the active Local Area Connection icon, right click, and select Properties.

Windows 7 (Substitute these steps.)

2. From the task bar, navigate Start > Control Panel > Network and Sharing Center.
3. In the left pane, click Change adapter settings.
4. Select the active Local Area Connection icon, right click, and select Properties.

Windows 8 (Substitute these steps.)

2. Position the cursor to the top right screen until the Charm bar appears at the right. Then click the Settings icon.
3. Select the Control Panel. The Control Panel window appears.
4. At the Category drop-down menu, click Small icons.
5. At the All Control Panel Items window, click Network and Sharing Center.
6. In the left pane, click Change adapter settings.
7. Right click your network icon and select Properties.
8. Verify the WAP-PLUS is ready to communicate by performing a "ping" test. Press the (Windows key + X + A) to get an Administrator Command box.
9. Enter ping -t 192.168.0.1 and hit [Enter]. The command box displays the ping results.

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 generates and uses radio frequency energy and if not installed and used properly, such operation may cause interference to radio and television reception. It has been tested to FCC requirements and has been found acceptable for use. The FCC requires the following statement for your information:

CLASS B DIGITAL DEVICE 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.
2. This device must accept any interference received, including interference that may cause undesired operation.

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.

Industrias Canadienses Clase B Statement

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

FEDERAL COMMUNICATIONS COMMISSION STATEMENTS

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

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DECLARACIÓN COFETEL

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

DECLARACIÓN ANATEL

Este equipo opera en caráctar secundario, sólo se debe evitar interferencia perjudicial, mismo de estaciones del mismo tipo, y no puede causar interferencia a sistemas operando en caráctar primario.

WARRANTY

For the latest warranty information go to:
www.security.honeywell.com/security