OC835-ADT

Waterproof HD IP Camera

Quick Installation Guide

Table of Contents

OC835-ADT-QIG-00 (08/15)

Chapter 1
Introduction

This section provides information about the OC835-ADT Outdoor Day/Night HD Camera's features, components and capabilities.

Overview

The OC835-ADT is a true outdoor day/night wireless camera with HD resolution, 802.11n Wi-Fi connectivity and Wi-Fi Protected Setup (WPS) support. This camera is intended for use with ADT Pulse®.

Features

- ***Standalone Design.*** The camera is a standalone system with built-in CPU and video encoder. It requires only a power source and a connection to the ADT Pulse Gateway or ADT Total Security (TS) Base panel.
- ***Dual Video Support.*** The OC835-ADT supports H.264 and MJEPG video compression.
- ***Day/Night Switch:*** With the day/night switching feature, you can view and record images even at night.
- ***IR LED Support.*** The infrared LED can provide illumination for up to 6 meters, providing superior video quality under low-light conditions such as on cloudy days, or in the early morning or evening.
- ***PIR (Passive Infrared Sensor) Support.*** The embedded PIR Sensor senses infrared light radiating from human bodies in its field of view.
- ***Built-in Heater.*** The built-in heater ensures that the camera will continue to operate even in extremely cold outdoor climates. The heater turns on when the temperature falls below 42°F (6°C).

Wireless Features

- ***Supports 802.11n Wireless Standard.*** The 802.11n standard provides backward compatibility with the 802.11b and g standards.
- ***Supports WPS.*** Wi-Fi Protected Setup (WPS) can simplify the process of connecting the Wireless HD Camera to the wireless network by using the push button configuration.
- ***Wired and Wireless Network.*** The OC835-ADT can be connected to the Pulse network wirelessly. It can also be hardwired to the network.

Physical Details

Front

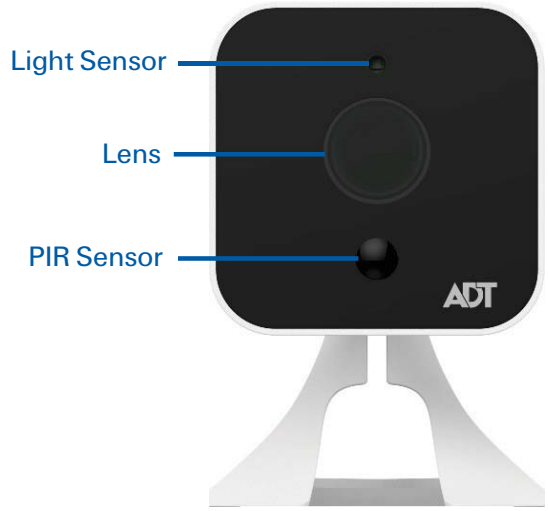


Figure 1: Front Panel

Light Sensor	This is a hardware sensor to detect lux.
Lens	The lens cannot be adjusted. Please ensure that the lens cover remains clean.
PIR Sensor	This is a Passive Infrared sensor to detect motion.

Rear

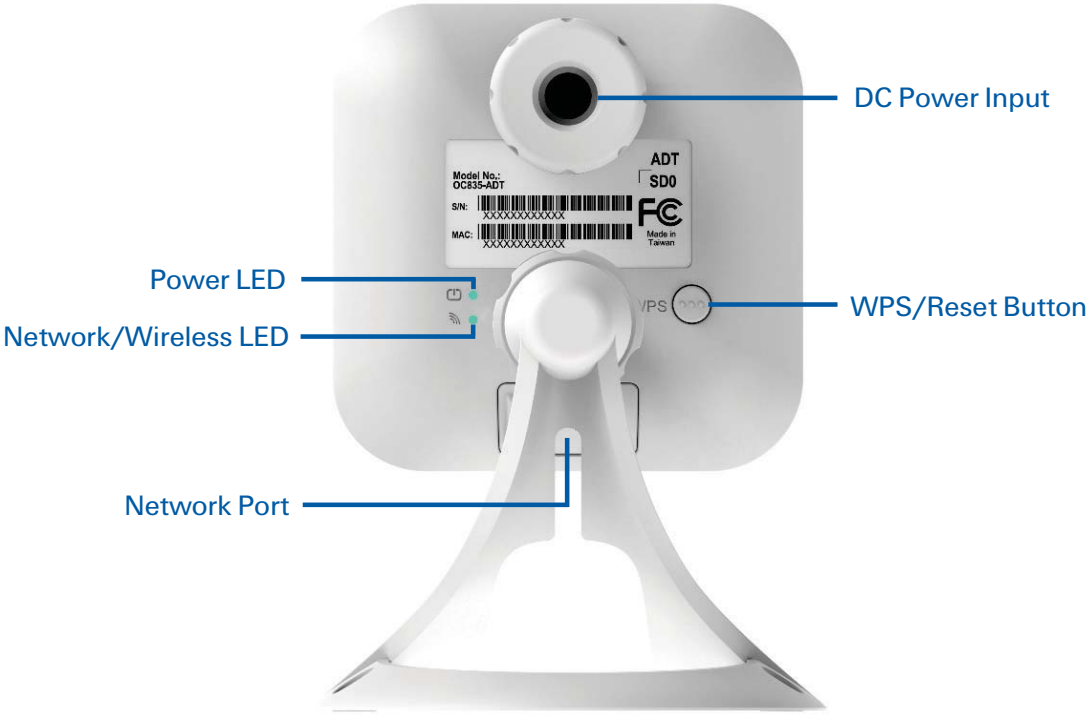


Figure 2: Rear Panel

DC Power Input	Connect the supplied 12V power adapter here. Do not use other power adapters; doing so may damage the camera.
Power LED (Green, Amber)	**On (Green).** Power on. **Off.** No power. **Blinking (Green).** The Power LED blinks during start up for approximately 1 minute. **Blinking (Amber).** The firmware is being upgraded. **On (Amber).** The firmware upgrade has failed.
Network/Wireless LED (Green, Amber)	**On (Green).** Network connection is available (wired or wireless). **Off.** Wired/wireless network is not connected or camera is not sending/receiving data. **Blinking (Green).** Data is being transmitted or received via the wired/wireless connection. **On (Amber).** If the LED is on for 5 seconds and then turns off, the WPS function has failed. **Blinking (Amber).** The WPS connection is active.
WPS/Reset Button	This button serves two functions on the camera. • **WPS Pin Code Mode.** When pressed and held for 5 seconds during the Pulse enrollment process, the camera creates an encryption-secured wireless connection. • **Reset.** When pressed and held over 15 seconds, the camera reboots and the settings are restored to default values.
Network Port	Use a Micro USB to RJ-45 Adapter Cable (not included) and a standard Ethernet cable (not included) to connect the camera to the Pulse Gateway or TS Base panel. **Note:** • Plugging in the Micro USB to RJ-45 Adapter Cable will disable the wireless interface. Only one interface can be active at any time. • The Micro USB to RJ-45 Adapter Cable should only be connected or disconnected when the camera is powered OFF. Attaching or detaching the Micro USB to RJ-45 Adapter Cable while the camera is powered on does NOT switch the interface between wired and wireless.

Package Contents

The following items are included in the package.

Figure 3: What's in the Box

Chapter 2
Basic Setup

This section provides information on how to assemble and configure the OC835-ADT Outdoor HD Camera.

Installation

1. Assemble the Camera

Attach the Camera Stand to the camera.

2. Make the Connection

Using a Wired Connection

If you are using a wired connection to the OC835-ADT, connect a Micro USB to RJ-45 Adapter Cable (not included) to the USB port of the camera. Then use a standard Ethernet cable (not included) to connect to the Pulse Gateway or Total Security (TS) Base panel.

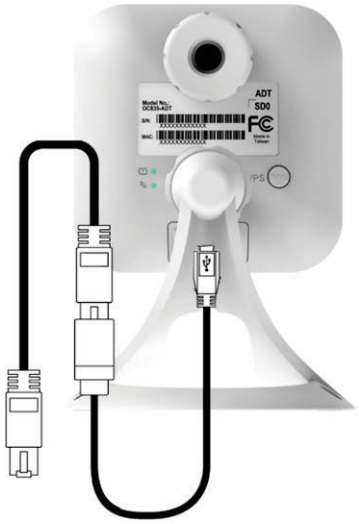


Figure 4: Wired Network Connection

Using a Wireless Connection

The wireless (WPS) connection between the camera and the Pulse Gateway or Total Security (TS) Base panel is performed during the Pulse enrollment. This process is detailed starting on page 13.

NOTE: The Wireless and LAN interfaces cannot be used simultaneously. Making a wired LAN connection disables the wireless interface.

3. Power Up

Connect the supplied 12V power adapter to the camera and power up. Use only the power adapter provided. Using a different one may cause hardware damage.

Use only the power adapter provided. Using a different one can result in hardware damage.

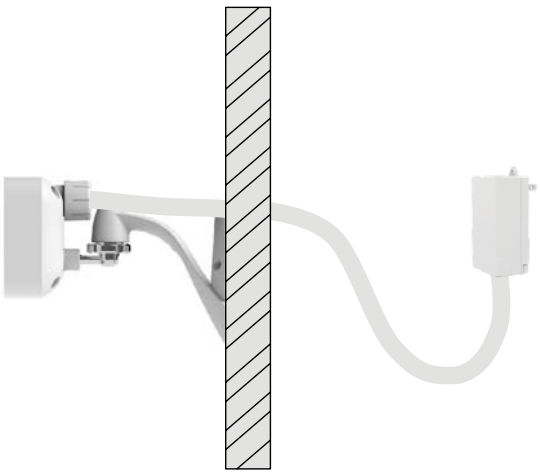


Figure 5: Routing the Power Cable

The Power LED turns on briefly, and then starts blinking. (The Power LED will continue to blink during startup, which takes about one minute. After startup is completed, the Power LED should remain ON.)

4. Check the LEDs

- **Power LED.** At power up, the Power LED turns on briefly, and then starts blinking, which takes about one minute. After startup has completed, the Power LED remains on.
- **Network/WPS LED.** At power up, the Network/WPS LED is off. (The Network/WPS LED will flash amber when the camera attempts to connect wirelessly to the Pulse Gateway / TS Base. The Network/WPS LED will turn solid green when the wireless connection is successful.)

5. Enroll the Camera in ADT Pulse

This process is described in the next chapter, **ADT Pulse Enrollment**.

6. Mount the Camera

Place the camera in a location near a power source. For mounting on a wall using the mounting plate, see **Chapter 4 Wall Mounting** on page 21.

Mounting Suggestion

To get the best video quality for targets at night, make sure that the camera's field of view does not include a large foreground object, such as tabletop or side wall. If installing on a tabletop, place the camera as close to the edge as possible. If installing on a wall, angle the camera so that a minimal portion of the wall is visible.

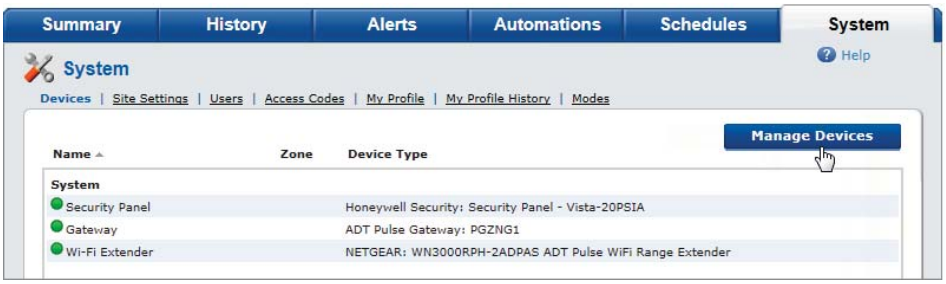
Chapter 3
ADT Pulse Enrollment

This section provides examples of three different methods for enrolling the OC835-ADT Outdoor HD Camera into the ADT Pulse network. (1) The first method uses a wired connection to enroll the HD Camera to a Gateway via the Pulse Portal. (2) The second method, which uses WPS to wirelessly enroll the HD Camera to a Gateway via the Pulse Portal, is described on page 13. (3) The third method, which uses WPS to wirelessly enroll the HD Camera to an ADT Total Security (TS) Base panel via the TS Installer App, is described on page 17.

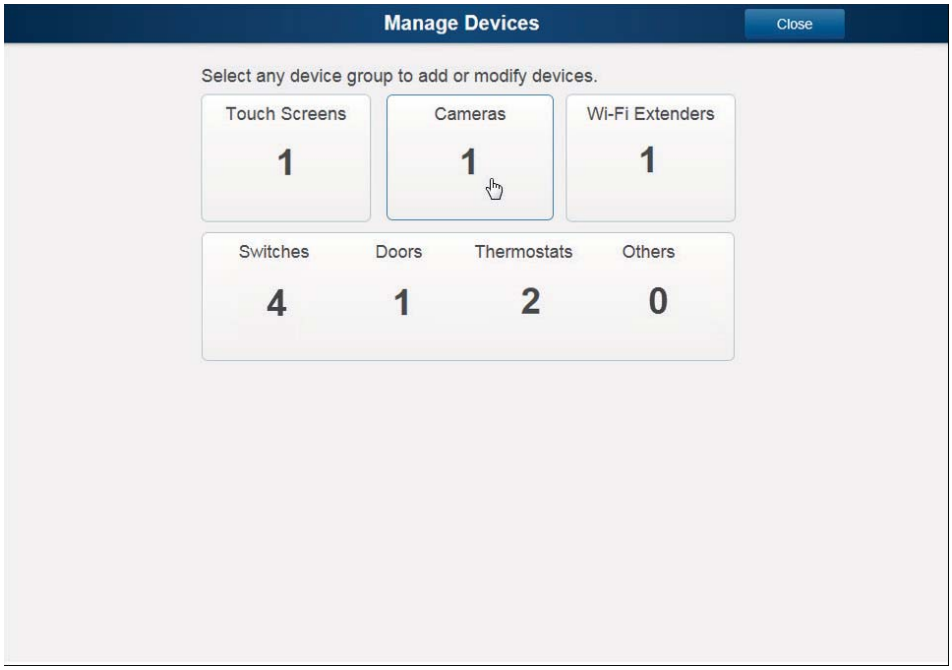
Wired Connection to the Gateway Using the Pulse Portal

1. Set up the camera, as described in the previous chapter.
2. Open a web browser and in the address bar, enter: https://Portal.ADTPulse.com.
3. Type your **Username** and **Password**, and then click the **Sign In** button.

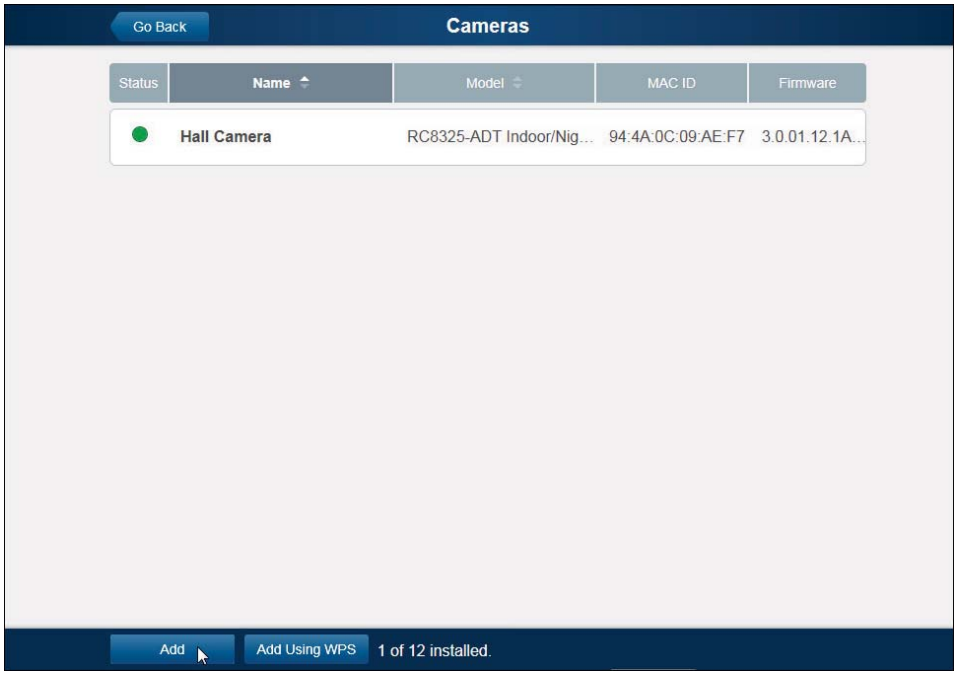
4. Click the **System** tab, and then click the **Manage Devices** button.



5. In the *Manage Devices* screen, click **Cameras**.

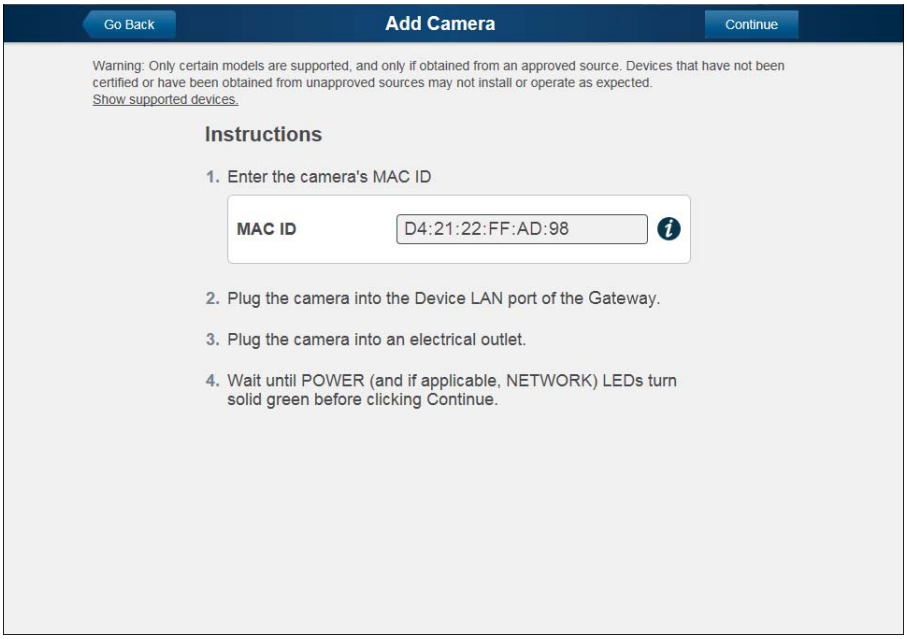


6. Click the **Add** button at the bottom of the screen.

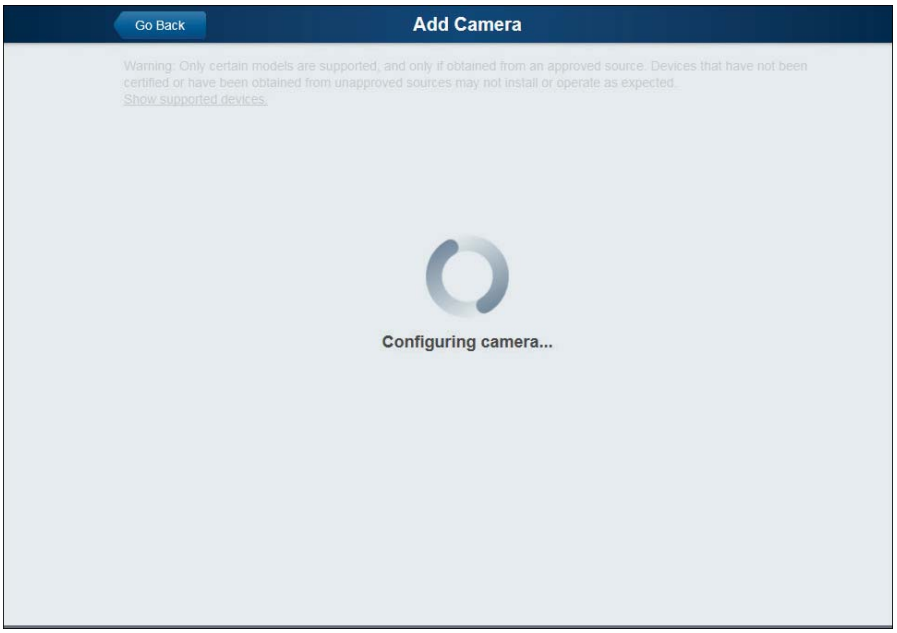


7. On the rear of the camera locate the camera's MAC ID.

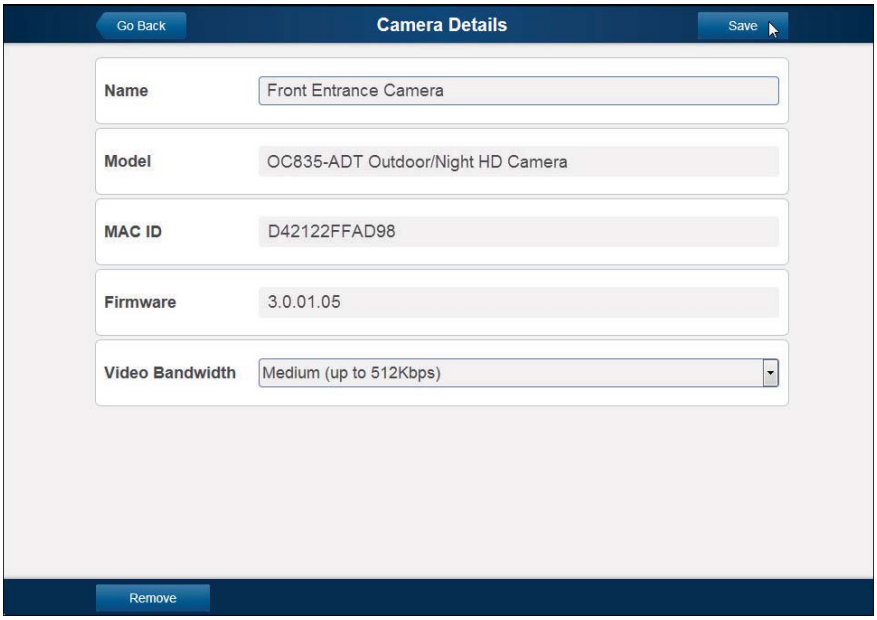
8. On the *Add Camera* screen, enter the camera's **MAC ID**. Do not click **Continue** at this time.



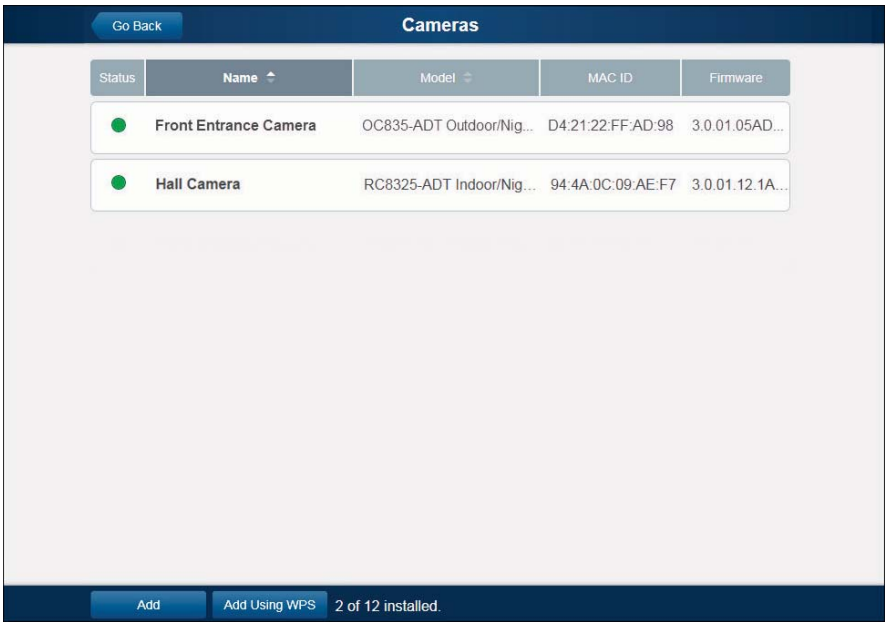
9. Ensure that the camera is connected to the device port of the Gateway using the Micro USB to RJ-45 Adapter Cable / Ethernet cable and connected to the supplied 12VDC power adapter.
10. After the Power and Network LEDs turn on solid green, click **Continue**.
11. Wait for the camera to add. It could take a few minutes, especially if an upgrade is required.



12. Assign the camera a unique name (usually based on the location of the camera) in the **Name** field, and then click the **Save** button at the upper right of the screen.



13. The *Cameras* screen appears, now displaying the added camera.

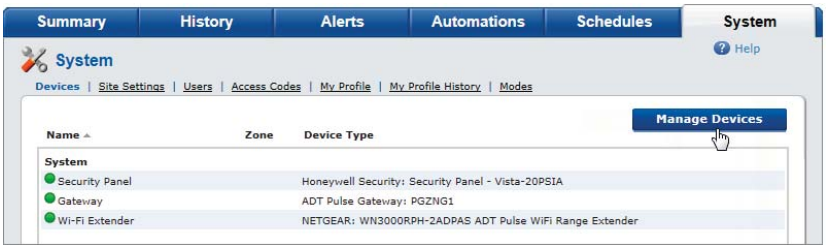


14. At the top left of the screen, click **Go Back**.
15. You are returned to the *Manage Devices* screen. The total number of installed cameras has increased by one. Click **Close**.
16. Click **Close** again to confirm.
17. Disconnect the camera from the Gateway and remove from power.
18. Install the camera in its final location. For Wall Mounting, refer to Chapter 4.

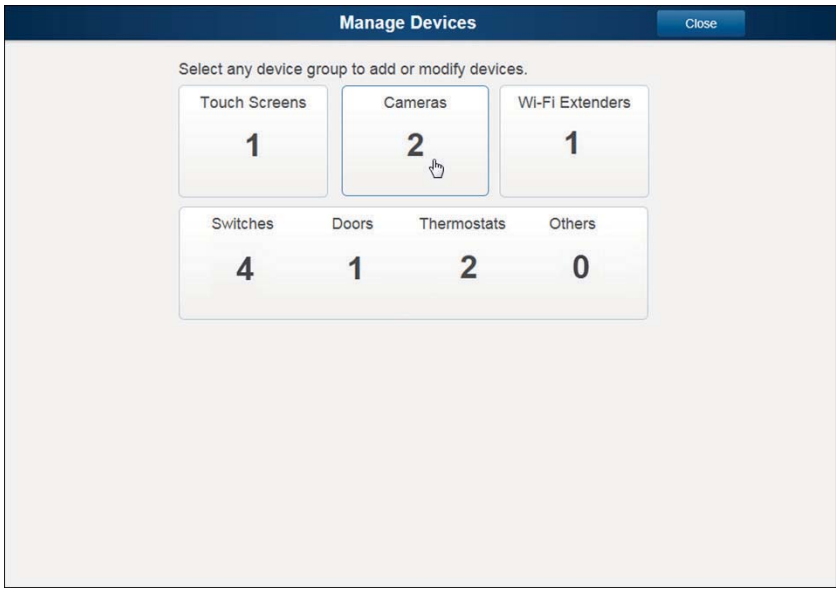
Wireless Connection to the Gateway Using the Pulse Portal

1. Set up the camera, as described in Chapter 2.
2. Open a web browser and in the address bar, enter: https://Portal.ADTPulse.com.
3. Type your **Username** and **Password**, and then click the **Sign In** button.

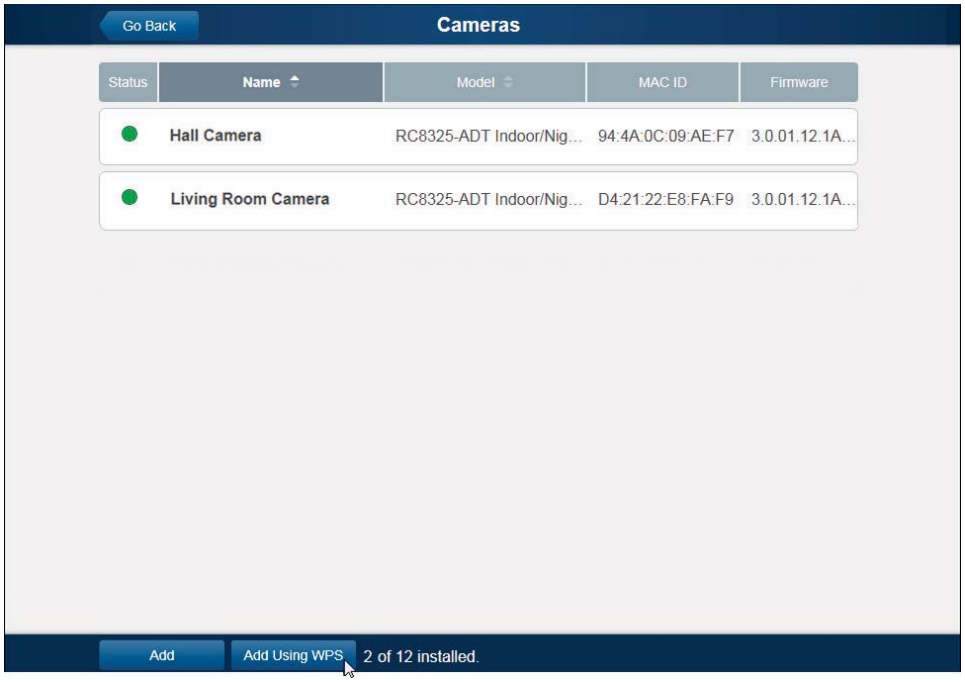
4. Click the **System** tab, and then click the **Manage Devices** button.



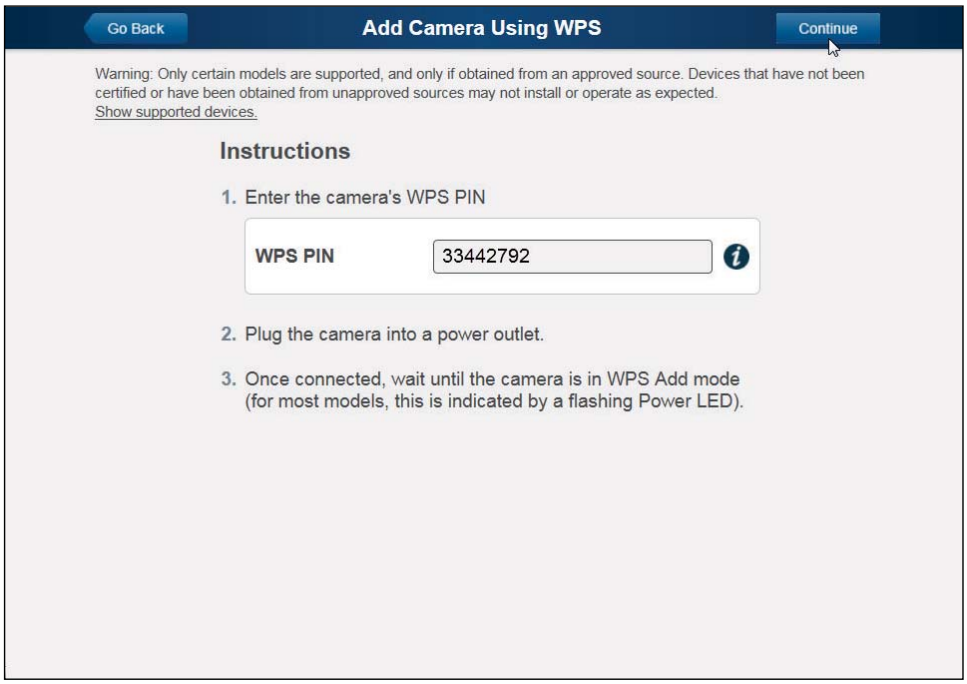
5. In the *Manage Devices* screen, click **Cameras**.



6. In the *Cameras* screen, click the **Add Using WPS** button at the bottom of the screen.

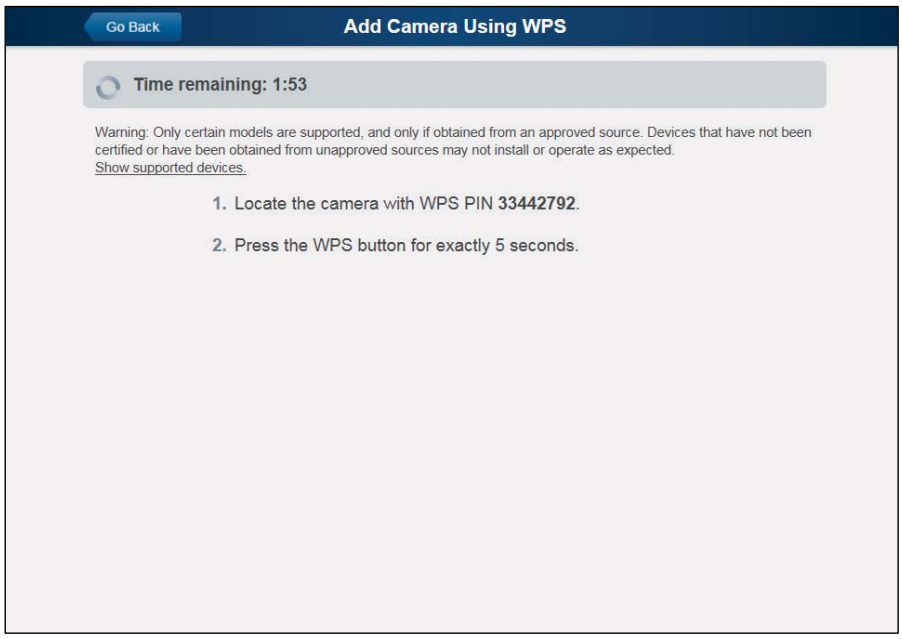


7. Locate the **PIN** number located on the label on the rear of the camera and enter that number in the **WPS PIN** field.

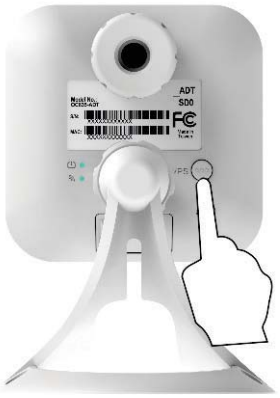


8. Ensure that the camera is powered on, and then click the **Continue** button to initiate the WPS process.

The following screen appears.

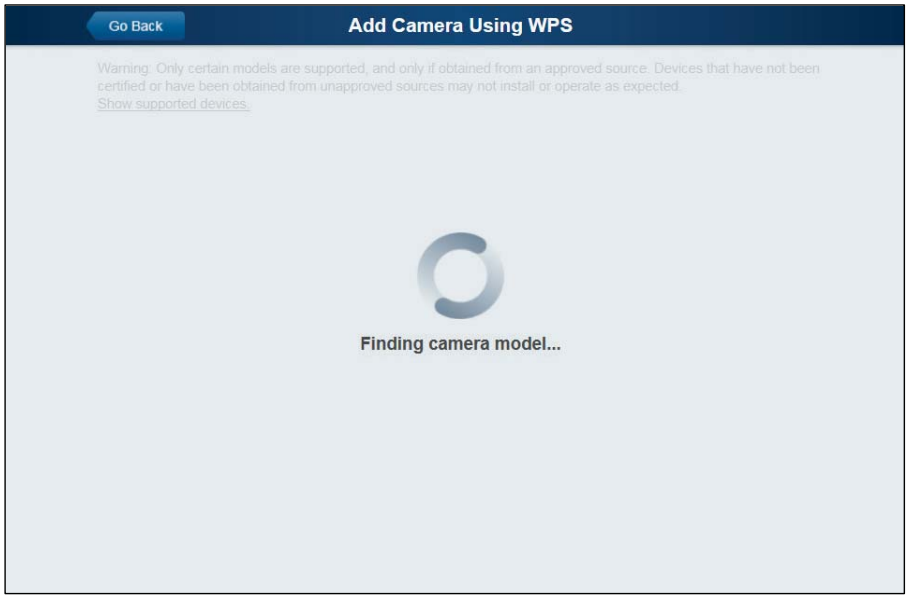


9. Press and hold the **WPS/RESET** button on the camera for 5 seconds to establish a wireless connection.

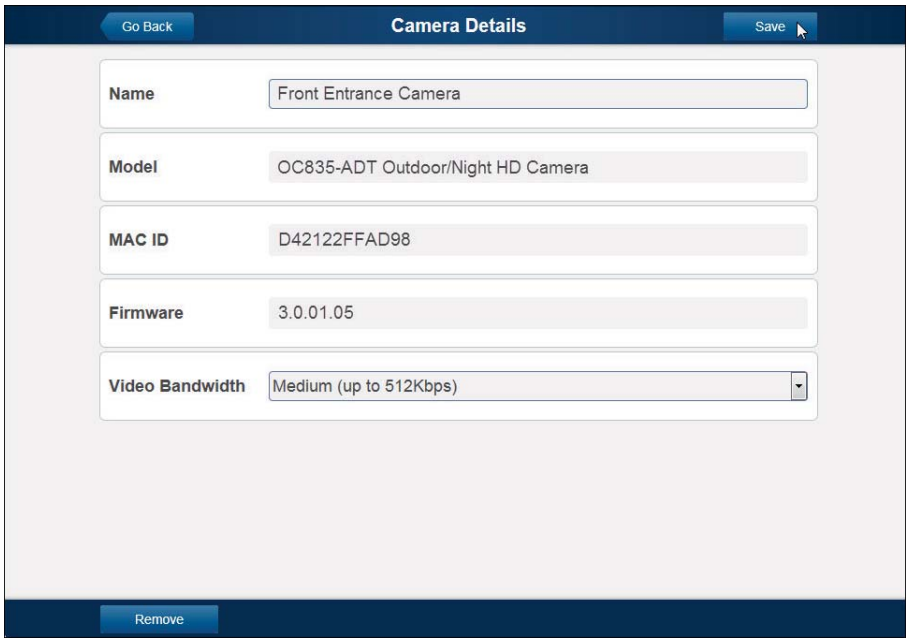


Note: You must complete the WPS connection within 2 minutes or else the process will time out. The time remaining is displayed in the upper left portion of the screen.

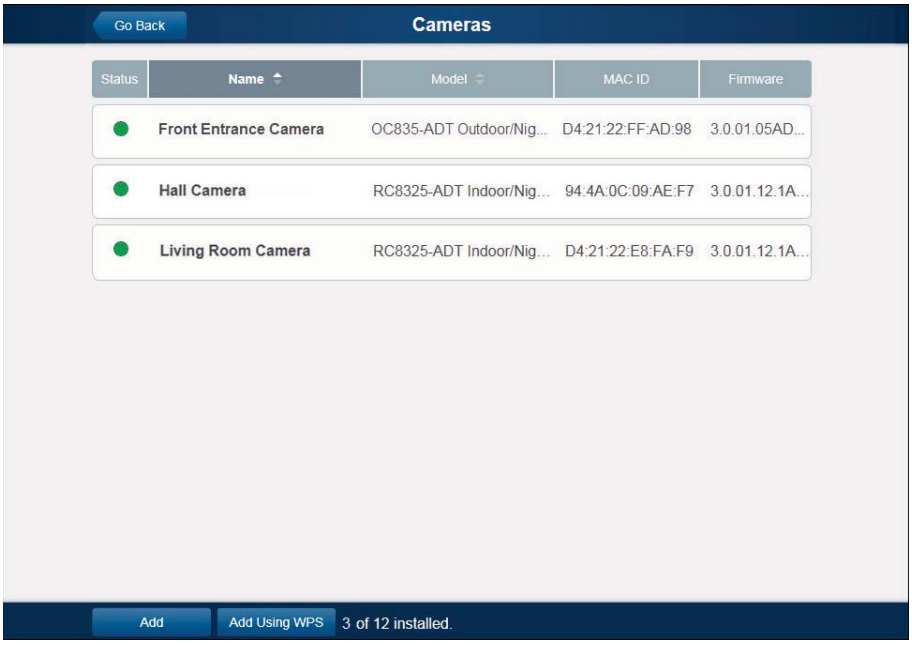
The Network/WPS LED flashes amber as the Gateway attempts to connect to the camera. The wireless connection is successful when the Network/WPS LED turns solid green.



10. When the *Camera Details* screen appears, showing that the camera has been enrolled, assign the OC835-ADT a unique name (usually based on the location of the camera) in the **Name** field, and then click **Save**.



The new camera appears in the Cameras list.



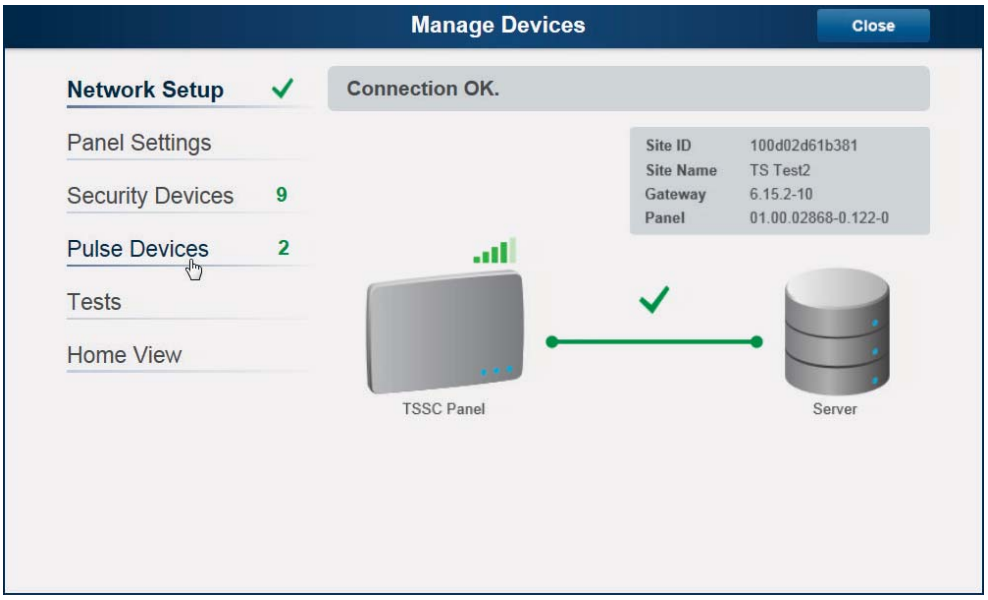
11. At the top left of the screen, click **Go Back.**
12. You are returned to the *Manage Devices* screen. The total number of installed cameras has increased by one. Click **Close**.
13. Click **Close** again to confirm.
14. Disconnect the camera from power.
15. Install the camera in its final location.

    For Wall Mounting, refer to Chapter 4.

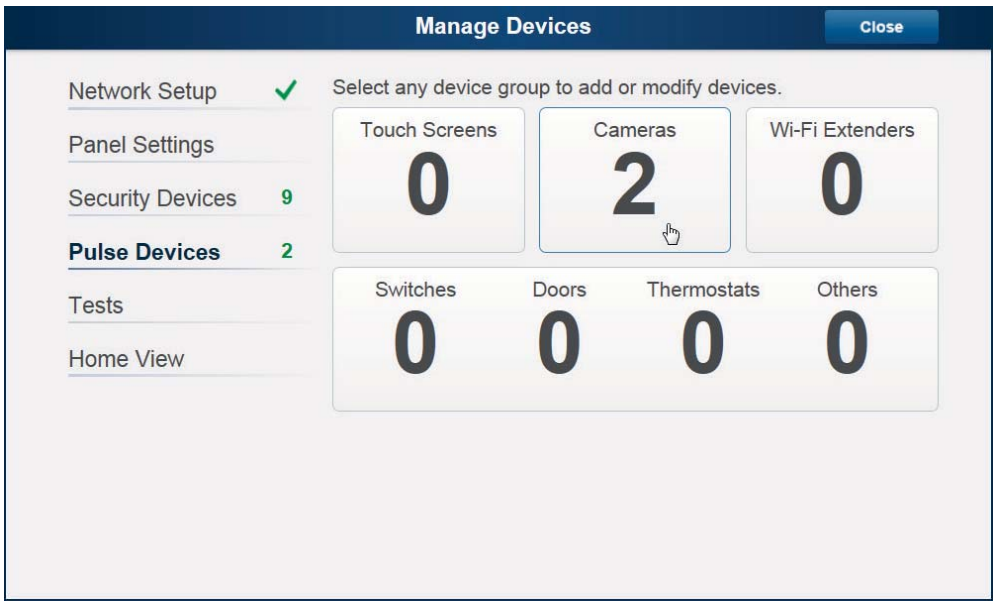
Wireless Connection to the TS Base Using the Installer App

Note: In ADT Total Security (TS) Systems, the gateway is integrated with the TS Base panel and is not a separate device.

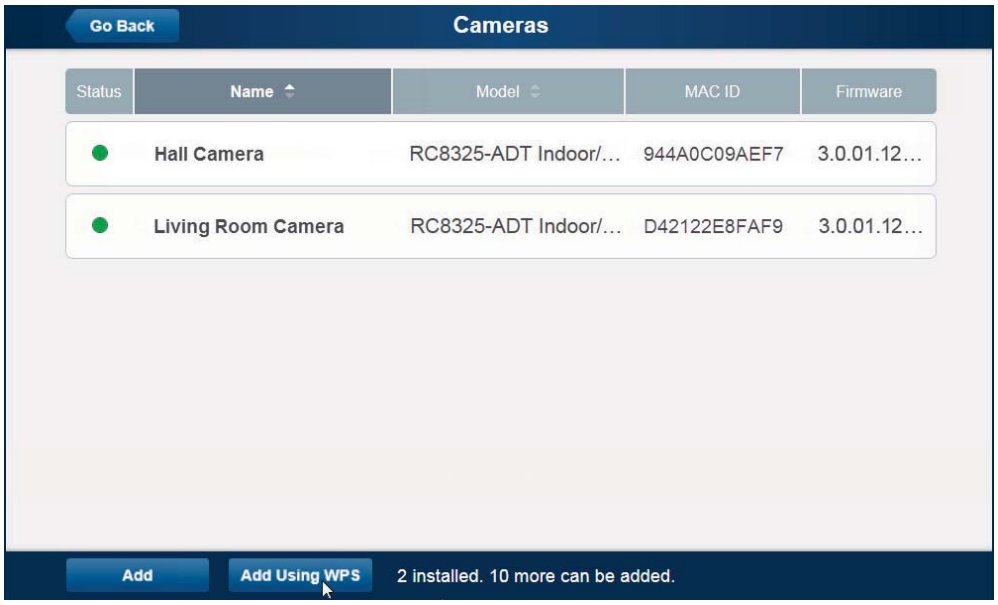
1. Install and configure the camera, as described in the previous chapter.
2. Launch an Internet browser from a computer and log in to the Installer App.
3. Select **Pulse Devices**.



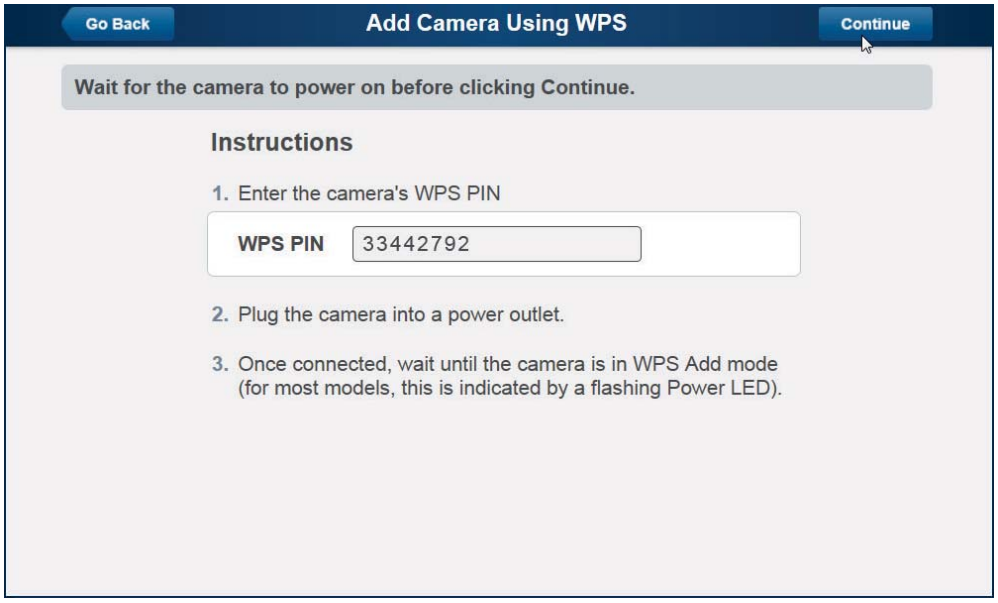
4. Click **Cameras**.



5. Click the **Add Using WPS** button, located at the bottom of the screen.

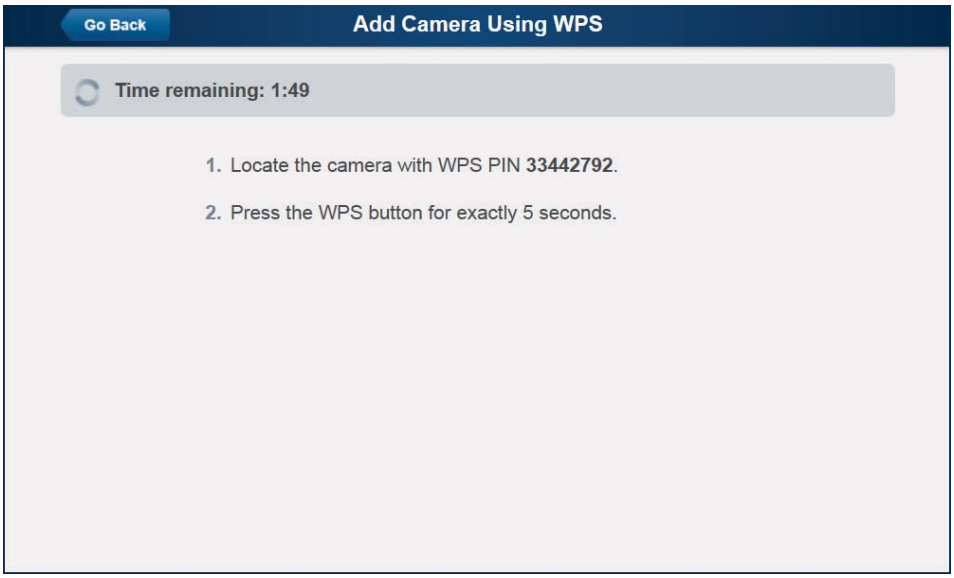


6. Locate the **PIN** number located on the label on the rear of the camera and enter that number in the **WPS PIN** field.

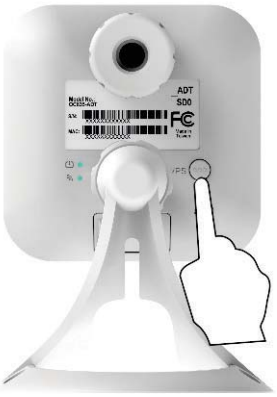


7. Ensure that the camera is powered on, and then click the **Continue** button to initiate the WPS process.

The following screen appears.



8. Press and hold the WPS/RESET button on the camera for 5 seconds to establish a wireless connection.

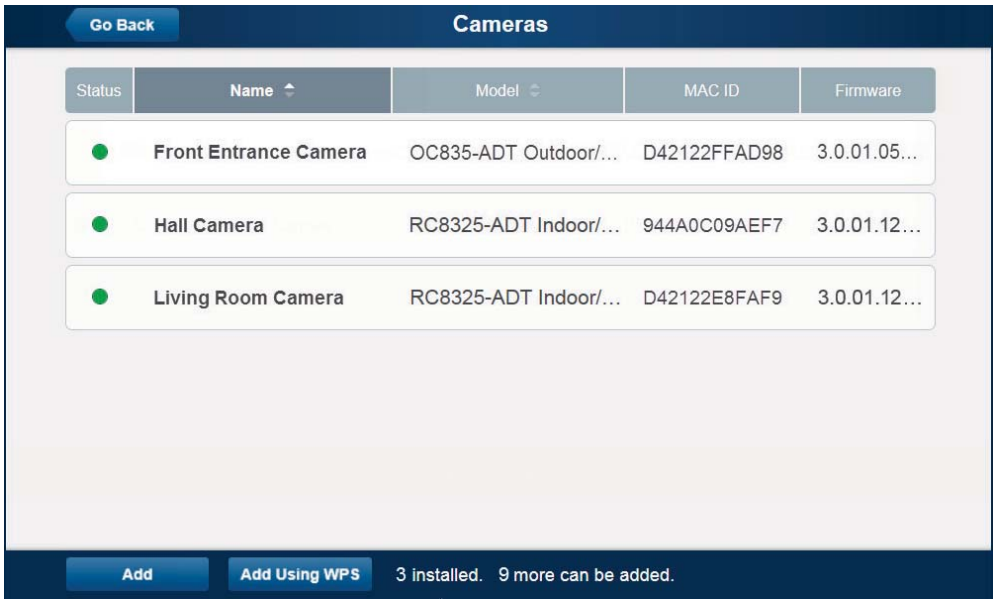


The Network/WPS LED flashes amber as the TS Base attempts to connect to the camera. The wireless connection is successful when the Network/WPS LED turns solid green.

Note: You must complete the WPS connection within 2 minutes or else the process will time out. The time remaining is displayed in the upper left portion of the screen.

9. When the Camera Details screen appears, showing that the camera has been enrolled, assign the OC835-ADT a unique name (usually based on the location of the camera) in the Name field, and then click **Save**.

The Pulse enrollment is complete. The newly-added device appears in the *Cameras* list.



10. At the top left of the screen, click **Go Back.**
11. Disconnect the camera from power.
12. Install the camera in its final location.

    For Wall Mounting, refer to Chapter 4.

If the Camera Continually Goes Offline

If after enrolling it the camera, it continually goes offline (Power LED blinks continually), the camera will automatically attempt to recover the wireless connection. If the camera cannot recover on its own, take the following measures to re-establish the Wi-Fi connection.

1. Power cycle the camera.
2. If the previous measure fails, move the Pulse Gateway closer to the camera.
3. If the previous measure fails, press the camera's reset button for 15 seconds, and then re-enroll the camera into Pulse.
4. If the previous measure fails, install a Wi-Fi Range Extender model WN3000RPH-2ADPAS.

Chapter 4
Wall Mounting

This section provides details for final mounting of the OC835-ADT Outdoor Day/Night HD Camera. You should ensure that the camera is configured and enrolled in ADT Pulse before permanently mounting it.

Mounting Suggestion. To get the best video quality for targets at night, make sure that the camera's field of view does not include a large foreground object, such as tabletop or side wall. If installing on a tabletop, place the camera as close to the edge as possible. If installing on a wall, angle the camera so that a minimal portion of the wall is visible.

1. Unscrew the camera stand and remove it from the camera.
2. Hold the stand at the location where you would like to mount the camera and mark the location of the two mounting holes.
3. Drill two pilot holes on the mounting surface at the marked locations.
4. Align the two mounting holes on the camera stand with the two pilot holes, and mount the stand to the surface using the two screws supplied.

Figure 6: Installing the Camera Stand

5. Screw/attach the camera onto the camera stand.

Figure 7: Attaching the Camera

6. Connect the power cable into the back of the camera, and then insert the grommet as shown in the figures below.

Figure 8: Attaching the Power Cable

Ensure that the grommet is positioned properly to prevent water from entering the camera.

7. Rotate the power input cover to tighten it, providing a watertight seal for the power cable.

Figure 9: Securing the Power Cable

8. Plug the adapter end into a power outlet.
9. Adjust the camera to a desired position and secure it firmly.
10. Verify that the camera is active on the wireless network and is recognized by ADT Pulse.

Note: If the camera does not re-connect, use of the ADT Wi-Fi extender, part # WN3000RPH-2ADPAS may be recommended to improve wireless connectivity.

Appendix A

Specifications

OC835-ADT Outdoor Day/Night HD Camera

Dimensions W x H x D	2.99" x 2.99" x 1.91" (76mm x 76mm x 48.6mm)
Video Compression	H.264 and MJPEG
Image Resolution	16:9 720p (1280x720), 640x360 4:3 XGA (1024x720), VGA (640x480), QVGA (320x240) Mixed Mode (720p, VGA, QVGA)
Operating Temperature	–40°F to 122°F (–40°C to 50 C) Heater operation: 42°F to 32°F (6°C to 0 C)
Storage Temperature	–40°F to 158°F (-40°C to 70°C)
Network Protocols	TCP/IP, HTTP, HTTPS, DHCP, UPnP, NTP, RTCP, DNS
Network Interface	1 RJ-45 LAN connection for Ethernet through Micro USB to RJ-45 Adapter Cable
Wireless Interface	IEEE 802.11n/802.11b/802.11g compatible, WEP 64/128 bit, WPA/WPA2 personal security support
Button	1, WPS/Network
LEDs	2, Power and Network/WPS
IR LEDs	2
Power Adapter	12VDC/1.5A, 100 to 240VAC

Regulatory Approvals

FCC Statement

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful 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 of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

To assure continued compliance, any changes or modificationsnot expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. (Example: use only shielded interface cables when connecting to computer or peripheral devices).

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference, and
- This device must accept any interference received, including interference that may cause undesired operation.

FCC Radiation Exposure Statement

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.
This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

IC Approvals

CAN-ICES-3 (B)/ NMB-3(B)
This device complies with RSS-GEN of the Industry Canada Rules. 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.

Ce dispositif est conforme à la norme CNR-GEN d'Industrie Canada applicable aux appareils radio exempts de licence. Son fonctionnement est sujet aux deux conditions suivantes: (1) le dispositif ne doit pas produire de brouillage préjudiciable, et (2) ce dispositif doit accepter tout brouillage reçu, y compris un brouillage susceptible de provoquer un fonctionnement indésirable.

This radio transmitter has been approved by Industry Canada to operate with the antenna types listed below with the maximum permissible gain and required antenna impedance are strictly prohibited for use with this device.

Le présent émetteur radio a été approuvé par Industrie Canada pour fonctionner avec les types d'antenne énumérés ci-dessous et ayant un gain admissible maximal et l'impédance requise pour chaque type d'antenne. Les types d'antenne non inclus dans cette liste, ou dont le gain est supérieur au gain maximal indiqué, sont strictement interdits pour l'exploitation de l'émetteur.

IC Radiation Exposure Statement

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

Déclaration d'exposition aux radiations:Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 20 cm de distance entre la source de rayonnement et votre corps.