



OC835-ADT Waterproof HD IP Camera Quick Installation Guide

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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

Connect the supplied 12V power adapter here. Do not **DC Power Input** use other power adapters; doing so may damage the camera. **Power LED** On (Green). Power on. (Green, Amber) 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 On (Green).** Network connection is available (wired or LED wireless). (Green, Amber) 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.



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.

Pulse [®]	
	Please Sign In
Username:	username@domain.com
Password:	
	Remember my username
Forgo	ot your username or password?
Your use of this site signifies that you accep ADT Security Services. All rights reserved. Al this document are marks and/or registered site is prohibited and	ot the ADT Pulse Website Terms of Use Agreement. ©2013 ADT LLC dba DT, the ADT logo, 800.ADT.ASAP and the product/service names listed in marks. Unauthorized use is strictly prohibited. Unauthorized use of this may be subject to civil and criminal prosecution.

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

Summary	History	Alerts	Automations	Schedules	System
System					Help
Devices <u>Site Setti</u>	ngs Users Access Cod	les <u>My Profile</u> <u>M</u> y	<u>y Profile History</u> <u>Modes</u>		
				Mai	nage Devices
Name 🔺	Zone	Device Type			2m
System					
Security Panel		Honeywell Security	: Security Panel - Vista-20PS	SIA	
-		ADT Pulse Gateway	PGZNG1		
Gateway					

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

Switches Doors Thermostats Others
4 1 2 0
4 1 2 0

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

Go Ba	ack	Cameras		
Status	Name 🖨	Model 🕀	MAC ID	Firmware
•	Hall Camera	RC8325-ADT Indoor/Nig	94:4A:0C:09:AE:F7	3.0.01.12.1A
A	Add Add Using WPS 1	of 12 installed.		

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.

Go Back		Add Camera	Continue
Warning: Only concertified or have Show supported	ertain models are supported been obtained from unappro devices.	, and only if obtained from an approved source oved sources may not install or operate as exp	. Devices that have not been ected.
	Instructions		
	1. Enter the camera	a's MAC ID	
	MAC ID	D4:21:22:FF:AD:98	1
	2. Plug the camera	into the Device LAN port of the Gat	eway.
	3. Plug the camera	into an electrical outlet.	
	4. Wait until POWE solid green befor	ER (and if applicable, NETWORK) LE re clicking Continue.	EDs turn

- **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.

Go Back	Camera Details	Save 🗼
Name	Front Entrance Camera	
Model	OC835-ADT Outdoor/Night HD Camera	
MACID	D42122FFAD98	
Firmware	3.0.01.05	
Video Bandwidth	Medium (up to 512Kbps)	•
Remove		

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

Go Ba	ack	Cameras		
Status	Name 韋	Model 🗢	MAC ID	Firmware
•	Front Entrance Camera	OC835-ADT Outdoor/Nig	D4:21:22:FF:AD:98	3.0.01.05AD
•	Hall Camera	RC8325-ADT Indoor/Nig	94:4A:0C:09:AE:F7	3.0.01.12.1A
4	dd Add Using WPS	2 of 12 installed.		

- 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.

Pulse [®]	
	Please Sign In
Username:	username@domain.com
Password:	•••••••
	Sign In
Forgo	t your username or password?
Your use of this site signifies that you accep ADT Security Services. All rights reserved. Al this document are marks and/or registered site is prohibited and	It the ADT Pulse Website Terms of Use Agreement. ©2013 ADT LLC dba DT, the ADT logo, 800.ADT.ASAP and the product/service names listed in marks. Unauthorized use is strictly prohibited. Unauthorized use of this may be subject to civil and criminal prosecution.

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

Summary	History	Alerts	Automations	Schedules	System
System					🕜 Help
evices <u>Site Sett</u>	ings <u>Users</u> <u>Access Cod</u>	les <u>My Profile</u> <u>My</u>	y Profile History Modes		
Name 🔺	Zone	Device Type		Man	age Devices
System					
Security Panel		Honeywell Security	: Security Panel - Vista-20P9	SIA	
-		ADT Pulse Gateway	PGZNG1		
Gateway					

5. In the Manage Devices screen, click Cameras.

Т	Touch Screens Cameras Wi-Fi Extenders				
	1		2 ტ	1	
	Switches	Doors	Thermostats	Others	
	4	1	2	0	

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

Go B	ack		Cameras		
Status	N	ame 🇢	Model 😂	MAC ID	Firmware
•	Hall Camera	a	RC8325-ADT Indoor/Nig	94:4A:0C:09:AE:F7	3.0.01.12.1A
•	Living Room	m Camera	RC8325-ADT Indoor/Nig	D4:21:22:E8:FA:F9	3.0.01.12.1A

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

Warning: Or certified or h <u>Show suppo</u>	nly certain models are supported, nave been obtained from unappro orted devices.	and only if obtained from an approved s ved sources may not install or operate a	bource. Devices that have not been is expected.
	1. Enter the camera	's WPS PIN	
	WPS PIN	33442792	0
	2. Plug the camera	into a power outlet.	
	3. Once connected, (for most models,	wait until the camera is in WPS , this is indicated by a flashing I	S Add mode Power LED).

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.

Go Back	Add Camera Using WPS
	Finding camera model

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**.

Go Back	Camera Details	Save 📡
Name	Front Entrance Camera	
Model	OC835-ADT Outdoor/Night HD Camera	
MAC ID	D42122FFAD98	
Firmware	3.0.01.05	
Video Bandwid	tth Medium (up to 512Kbps)	•
Remove		

The new camera appears in the Cameras list.

GOB	ack	Cameras		
Status	Name 🌻	Model 🗢	MAC ID	Firmware
	Front Entrance Camera	OC835-ADT Outdoor/Nig	D4:21:22:FF:AD:98	3.0.01.05AD
	Hall Camera	RC8325-ADT Indoor/Nig	94:4A:0C:09:AE:F7	3.0.01.12.1A
•	Living Room Camera	RC8325-ADT Indoor/Nig	D4:21:22:E8:FA:F9	3.0.01.12.1A

- 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.

Network Setup	~	Connection OK.		
Panel Settings			Site ID	100d02d61b381
Security Devices	9		Site Name Gateway Panel	TS Test2 6.15.2-10 01.00.02868-0.122-0
Pulse Devices	2	atl		
Tests			~	
Home View				-
		TSSC Panel		Server

4. Click Cameras.

		Manage De	vices	Close
Network Setup	~	Select any device grou	up to add or modify d	evices.
Panel Settings		Touch Screens	Cameras	Wi-Fi Extenders
Security Devices	9	0	2	0
Pulse Devices	2		ŀ	
Tests		Switches	Doors Thermos	stats Others
Home View		0	0 0	0

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.

Go Back	Add Camera Using WPS	Continue
Wait for the	camera to power on before clicking Continue.	45
	Instructions 1. Enter the camera's WPS PIN WPS PIN 33442792 2. Plug the camera into a power outlet. 3. Once connected, wait until the camera is in WPS Add mode (for most models, this is indicated by a flashing Power LED).	

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

The following screen appears.

Go Back	Add Camera Using WPS
O Time re	maining: 1:49
	 Locate the camera with WPS PIN 33442792. Press the WPS button for exactly 5 seconds.

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**.

Name	Front Entrance Camera	
Model	OC835-ADT Outdoor/Night HD Camera	
MAC ID	D42122FFAD98	
Firmware	3.0.01.05ADT	
Video Bandwidth	Medium (up to 512Kbps)	

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

Status	Name 🗢	Model 🗢	MAC ID	Firmware
•	Front Entrance Camera	OC835-ADT Outdoor/	D42122FFAD98	3.0.01.05
•	Hall Camera	RC8325-ADT Indoor/	944A0C09AEF7	3.0.01.12
•	Living Room Camera	RC8325-ADT Indoor/	D42122E8FAF9	3.0.01.12

- 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.