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Chapter 1

Introduction

This Chapter provides details of the OC810-ADT Wireless Outdoor Day/Night Camera features, components and capabilities.

Overview

The OC810-ADT Wireless Outdoor Day/Night Camera (hereinafter referred to as the wireless camera) has an Integrated Microcomputer and a high quality digital Image Sensor, enabling it to display high quality, live streaming video to your web or mobile client over an 802.11n Wireless LAN.

Features

- **Standalone Design:** The wireless camera is a standalone device which requires a power source and a wireless connection to the ADT Pulse gateway.

- **Triple Video Support:** The wireless camera can support H.264, MEPG4 and MJEPG video for different image compression.

- **Day/Night Switch:** With the automatic day/night switching feature, the wireless camera is able to view and record crisper images in the dark within a 25 foot area.

- **Standard Compliance:** The wireless camera complies with the IEEE802.11n (DSSS) specifications for Wireless LANs.

- **Supports 802.11n Wireless Stations:** The 802.11n Draft standard provides for backward compatibility with the 802.11g wireless network.

- **Speeds up to 108Mbps:** All speeds up to the 802.11n maximum of 108Mbps are supported.

**Security Support:** Full WEP (64/128 Bit), WPA and WPA2 Personal standards are supported on the Wireless interface allowing advanced encryption of wireless data.
Physical Details – OC810-ADT Wireless Outdoor Day/Night Camera

Front Panel - Wireless Camera

![Figure 1: Front Panel](image)

1. **Lens**
   - No physical adjustment is required or possible for the lens, but you should ensure that the lens cover remains clean. Image quality is degraded if the lens cover is dirty or smudged.

2. **Power LED**
   - **On** - Powered on.
   - **Off** - No power.
   - **Blinking** - The Power LED blinks during power up. (This can take up to 20 seconds.)

3. **Light Sensor**
   - The Light Sensor detects luminance.

4. **IR LEDs**
   - The LEDs allow the camera to see images at night or in a dark environment.
1. **Antenna**  
The antenna is adjustable with best results typically obtained with the antenna positioned vertically.

2. **Power port**  
The supplied 12V power adapter plugs power to the wireless camera’s power port.

**IMPORTANT**  
**DO NOT USE ANY POWER ADAPTER OTHER THAN THE ONE SPECIFIED FOR THIS CAMERA. DOING SO MAY DAMAGE THE WIRELESS CAMERA.**

3. **Ethernet port**  
The Ethernet port allows connectivity of the wireless camera to your ADT Pulse gateway.

**IMPORTANT**  
PLUGGING IN THE ETHERNET CABLE WILL DISABLE THE WIRELESS INTERFACE. (ONLY ONE INTERFACE CAN BE ACTIVE AT ANY TIME.)

THE ETHERNET CABLE SHOULD ONLY BE CONNECTED OR DISCONNECTED WHEN THE OUTDOOR DIGITAL CAMERA IS POWERED OFF. ATTACHING OR DETACHING THE ETHERNET CABLE WHILE THE CAMERA IS POWERED ON DOES NOT SWITCH THE INTERFACE BETWEEN WIRED AND WIRELESS.

DETACHING THE ETHERNET CABLE WHEN THE OUTDOOR DIGITAL CAMERA IS POWERED ON WILL DISCONNECT THE OUTDOOR DIGITAL CAMERA FROM THE NETWORK.

4. **Reset Button**  
When pressed and held for ten (10) seconds, the communication configuration of the wireless camera will be reset to the default manufacturer settings.
IMPORTANT

THE RESET BUTTON WILL RESET THE CAMERA COMMUNICATION CONFIGURATION SETTINGS AND SHOULD ONLY BE USED UNDER THE DIRECTION OF ADT SUPPORT.

Package Contents

The following items are included:

1. OC810-ADT Wireless Outdoor Day/Night Camera
2. Antenna
3. Power Adapter
4. Ethernet Cable
5. Power Extension Cable (With water sealing cap)
6. Stand
7. Mounting Screws
8. Quick Installation Guide
Chapter 2

Basic Setup

This Chapter provides details of installing and configuring the OC810-ADT Wireless Outdoor Day/Night Camera.

Adding the OC810-ADT Wireless Outdoor Day/Night Camera to the ADT Security System

The OC810-ADT wireless camera can only be added to a Pulse system that supports video.

1. Open your web browser. In the address bar, type: https://Portal.ADTPulse.com

2. Type your username and password then click the Sign In button.

3. Click the System tab then click the Manage Devices button.
4. Click Cameras.

5. Click the picture of the OC810 camera or select it from the drop-down list then click the Continue button.
6. Assign the wireless camera a unique name (this is usually based on the location of the wireless camera) in the space provided then type the wireless camera’s “MAC ID” or “Server Name.” Click the Continue button.
7. Attach the antenna to the wireless camera. To adjust the antenna, screw to the rear mounting point and set the antenna to the upright position to improve wireless reception.

8. Connect the wireless camera to the Device Port of the gateway using a standard LAN cable.

9. Connect the supplied 12V power adapter to power up the wireless camera then click the Continue button.

NOTE

The Power LED will turn on briefly then start blinking. It will blink during startup which takes approximately 5 to 20 seconds. After startup is completed, the Power LED should remain ON.

10. Once connected, click the Continue button.

11. Click the Finish button. The installation is complete.
12. Disconnect the wireless camera from the gateway and remove from power. Assemble mounting bracket, and install camera in the final location. Re-apply power. If the camera does not connect, use of the ADT Wi-Fi extender, part # WN2RPADT-1ADNAS is recommended and may improve connectivity.
For more information, refer to Physical Details – on Pages 2 and 3.

**PIR Video Motion Detection**

The motion event will be captured when a significant image changes within the window of interests. The window of interest is defined as below.

The following installation hints should be noted:

1. Take care not to install facing direct sunlight, bodies of water, or areas of moving shadows as these can lead to unintended triggers.
2. Avoid aiming the PIR camera near or toward hot objects such as AC conditioner.
3. It is preferable to install the PIR sensor underneath eaves or porch coverings to prevent exposure to rain and ice.
4. Avoid direct sunlight or headlights from automobiles.
5. Avoid breeze and corrosive gases.
6. Make sure that the coverage area of PIR sensor does not extend into undesired areas that might cause unwanted activations.
7. While choosing the installation area, be aware that the PIR sensor may detect unimportant motions, such as moving trees or shadows causing by excessive wind.
Video motion detection is susceptible to light reflection, shade or tree/leaves movement and etc. within window of interests. To reduce the number of unwanted video event, please adjust the camera to reduce these noise factors appeared in windows of interest.

Video motion event is always triggered by turning on/off the lamp light.

Enabling the Motion Detection via the ADT Security System

1. Click the Automation tab then click the Add Automation button.

2. Select a trigger for this automation from the Trigger drop-down list.

3. Select ‘Motion’ from the Event drop-down list.

4. Select the conditions under which you want the automation action to occur from Active drop-down list.

5. Click Add Actions.

6. From the delay drop-down list, select the delay option you want to use for this action.
7. Select the desired option from Attach drop-down list.

8. Click OK.

9. Click Save.
Appendix A
Specifications

OC810-ADT Wireless Outdoor Day/Night Camera

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<th>Model</th>
<th>OC810-ADT Wireless Outdoor Day/Night Camera</th>
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<tr>
<td>Dimensions</td>
<td>94mm (W) * 103mm (H) * 37mm (D)</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-10° C to 45° C</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-20° C to 70° C</td>
</tr>
<tr>
<td>Weather Resistance</td>
<td>IP 65</td>
</tr>
<tr>
<td>Network Protocols</td>
<td>TCP/IP, HTTP, HTTPS, DHCP, SMTP, FTP, UPnP, DDNS, NTP, RTP, RTCP, RTSP, SMB</td>
</tr>
<tr>
<td>Network Interface</td>
<td>1 Ethernet 10/100BaseT (RJ45) LAN connection</td>
</tr>
<tr>
<td>Wireless interface (Wireless Model Only)</td>
<td>IEEE 802.11n/802.11b/802.11g compatible, Infrastructure/Ad-hoc mode, WEP/WPA Personal/WPA2 Personal security support, roaming support</td>
</tr>
<tr>
<td>LEDs</td>
<td>1 LED for indicator and 8 IR LEDs</td>
</tr>
<tr>
<td>Illuminator</td>
<td>Night range approximately 25 feet</td>
</tr>
<tr>
<td>Power Adapter</td>
<td>12V/1A, 100~240 VAC</td>
</tr>
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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 modifications not 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).
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 device complies with Part 15 of the FCC 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.
This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

CE Approvals
The OC810-ADT Wireless Outdoor Day/Night Camera meets the guidelines of the European Union and complies with the 99/5/EEC and RTTE 99/5EG directives, including the following standards:
- EN60950-1
- EN300 328
- EN301 489
- EN55024
This is a Class B product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

This product is UL and cUL certified and comply with UL60950-1 Information Technology Equipment applicable requirement.