



ADT Interactive Solutions: Control & Pulse OC845 Wireless FHD Outdoor Camera



Quick Installation Guide



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1 Introduction

This section provides information about the OC845 Outdoor Day/Night FHD Camera's features, components and capabilities.

1.1 Feature Overview

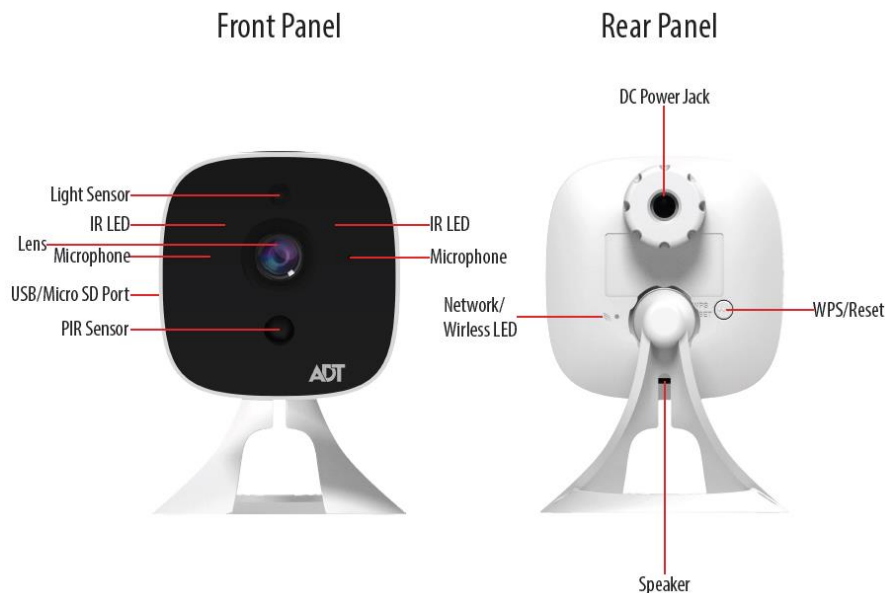
The OC845 is an Outdoor day/night camera with FHD resolution and 802.11ac Wi-Fi connectivity intended for use with both ADT Control® and Pulse®.

- **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 network (Customer router for Control or ADT Pulse gateway).
- **Dual Video Support.** The OC845 supports H.264 and MJPEG video compression.
- **Day/Night Switch.** With the day/night switching feature, you can view and record images even at night.
- **IR LED Support.** The two infrared LEDs can provide illumination for up to 5 meters/16 feet, providing superior video quality under low-light conditions.
- **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).
- **802.11ac Support.** The 802.11ac standard provides backward compatibility with the 802.11b, g and n standards.
- **Supports both Soft AP and WPS.** Soft AP connectivity is used on the Control platform. Wi-Fi Protected Setup (WPS) uses a push button to connect to the Pulse platform.
- **Wireless Network.** The OC845 is connected to the network wirelessly.
- **Two-Way Audio.** The OC845 has a speaker and microphone for two-way conversations and echo cancellation.



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1.2 Physical Details: Front and Rear Panels



Component	Description
DC Power Jack	Connect the supplied 12V power adapter. Do not use other power adapters; doing so may damage the camera.
Tri-Color LED Indicator for Power/Network/WPS	Off: Unit does not have power On: (Blue) Unit is booting up then LED will blink blue ten times Blinking: (Green/Amber) The power LED will blink green/amber after initial startup is completed. This indicates that the Soft AP OR WPS PIN mode is ready. On: (Green) Camera is connected to Network. Blinking: (Green) Camera has lost connection to the Network Blinking: (Amber) Unit is in WPS PIN mode and/or the WPS connection is in progress. On: (Amber) If the LED is on for 5 seconds and then turns off, the WPS function has failed.
WPS/Reset Button	This button serves two functions on the camera. WPS PIN Mode: When pressed and held for 5 seconds during the Pulse enrollment process, the camera creates an encrypted secure wireless connection. Reset: When pressed and held for 15 seconds, the camera reboots and settings are restored to default values.
Lens	The lens is fixed and cannot be adjusted. Please ensure that the lens cover remains clean of dust and debris.
IR LED	Built-in Infrared LEDs for Night Time Illumination
Light Sensor	This is a hardware sensor to detect daylight level or lux.



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PIR Sensor	This is a Passive Infrared Sensor to detect motion
Microphone	Built-in Microphone with echo cancelation
Speaker	Built-in Speaker (1W)
Micro SD Card Slot	Built-in Micro SD Card Slot for future enhancements

Note: As the microSD card slot is not currently functional, please do not remove this protective cover.

1.3 Packaging Contents



2 Basic Setup

This section provides information on how to assemble and configure the OC845 Outdoor FHD Camera for enrollment.

2.1 Assembling the Camera

- Temporarily locate the camera close to the computer for enrollment.
- Attach the camera stand to the camera and connect the power cable.
- Screw/attach the camera onto the camera stand.



2.2 Power-Up

- Connect the 12V power adapter to the camera and power up near the location where you will be performing the enrollment.



Caution: Use the power adapter provided. Using a different power adapter may result in hardware damage.



2.3 Final Steps

- Check LED Status
 - The LED lights up solid blue then blinks ten times during startup, which takes about 30 seconds. After startup is completed, and prior to enrollment, the power LED blinks green/amber.
- Enroll the Camera
 - The process for enrolling the camera on Control is described in Section 3: ADT Control Enrollment.
 - The process for enrolling the camera on Pulse is described in Section 4: ADT Pulse Enrollment.
- Mounting the Camera
 - Mount the camera in its final permanent location. For mounting on a wall using the mounting bracket, see Section 5: Wall Mounting.

3 ADT Control Enrollment

This section provides instructions for wirelessly enrolling the OC845 Outdoor FHD Camera onto the ADT Control platform. This process uses the Soft AP method to wirelessly connect the FHD Camera to the Customer's network.

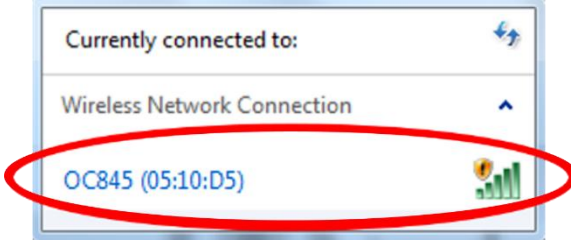
3.1 Using Soft AP to Enroll Camera

- Set up the camera as described in the previous section.
 - Connect the camera's AC power adapter and plug it into a power outlet.
 - Wait for the power LED to blink green/amber.



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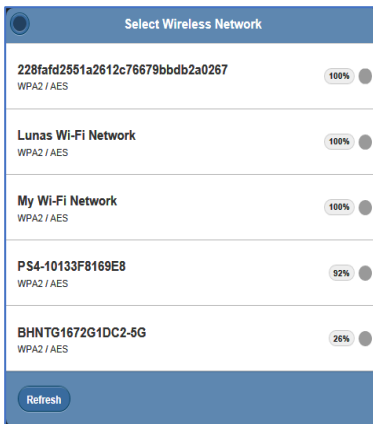
- Connect to the camera's network SSID using a laptop or mobile device. The SSID is the model number of the camera and part of the MAC address. For example, SSID = OC845 (XX:XX:XX).



- Open a web browser (IE, Chrome, Firefox, etc.). Type in **adt1.com** and you will be directed to the install wizard page.
- Choose a language.



- Click **Scan for Wi-Fi Networks** and select the Customer's router SSID.



Note: Control cameras will connect to the Customer's Wi-Fi network to access the Internet to be added to the Control platform. It is imperative that the customer understands that all camera locations are limited by their existing Wi-Fi network and its range. Additionally, the **Customer will need to enter their SSID password during the subsequent step.**



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- Enter the wireless credentials and click **Save**.

WLAN Settings

Scan for WiFi Networks

SSID: [My WiFi Network]

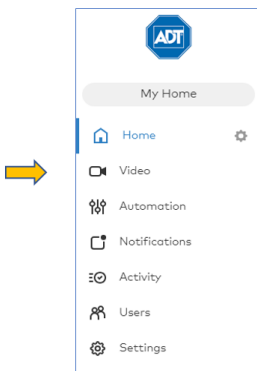
Security: [WPA2-PSK]

Key Format: [AES] [TKIP]

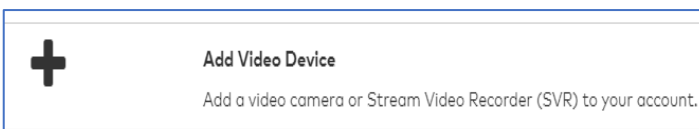
Security Key: [*****]

[Save]

- The LED will turn solid green when data is being transmitted indicating that the connection to the Customer's router is complete.
- Connect a laptop or mobile device to the Customer's network and log in to the Control web portal, <https://www.adt.com/control-login>, to complete the setup.
- Select **Video** from the menu list.



- Click Settings and select Add Video Device.



- Select **install** from the video device list to begin adding camera. If a laptop or mobile device are not on the Customer's network, then enter the MAC address of the camera.

SELECT VIDEO DEVICE TO INSTALL

REFRESH DEVICES

Name	Outdoor Wifi IP Camera	MAC Address	Local IP	Status
e.g. Driveway	OC845	142E5E051005	192.168.0.232	READY

[INSTALL]

- Follow the on-screen instructions to finish adding the camera.

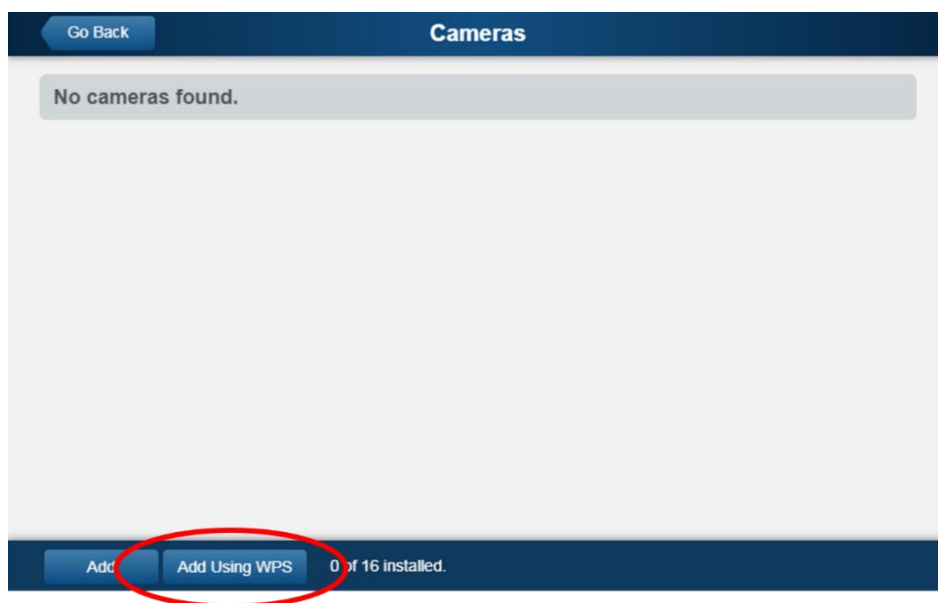


4 ADT Pulse Enrollment

This section provides instructions for wirelessly enrolling the OC845 Outdoor FHD Camera into the ADT Pulse network. This process uses the Wi-Fi Protected Setup (WPS) with PIN method to wirelessly enroll the FHD Camera to the gateway via the ADT Pulse Portal or TS Installer App.

4.1 Using WPS PIN to Enroll Camera

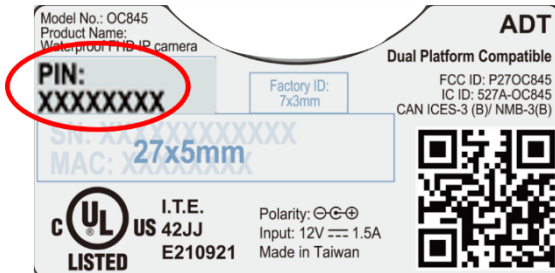
- Set up the camera as described in Section 2.
- Launch an Internet browser and log in to the Pulse portal or TS Installer app.
- Enter the **Manage Devices** screen using one of these methods:
 - For Pulse portal, select the **System Tab** and click **Manage Devices**.
 - For TS Installer app, click the **Pulse Devices** link. The **Manage Devices** screen will display.
- In the **Manage Devices** screen, click **Cameras**.
- Click the **Add Using WPS** button located at the bottom of the screen.





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- Locate the camera's PIN number on the product label on the rear of the camera.



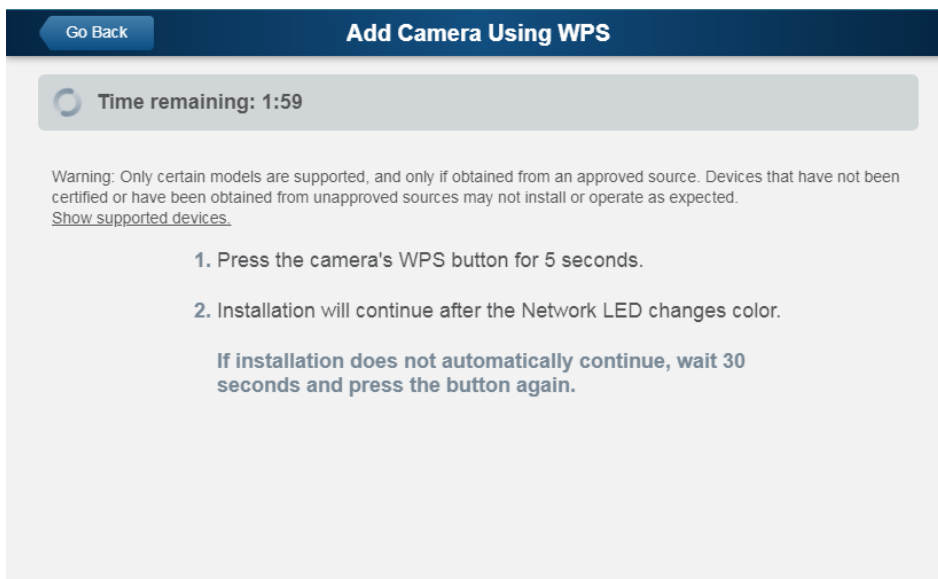
- Enter the camera's PIN into the WPS PIN field.

- Ensure that the camera is powered on and that the LED is flashing green/amber.



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- Click the **Continue** button to initiate the WPS process. The following screen appears.



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



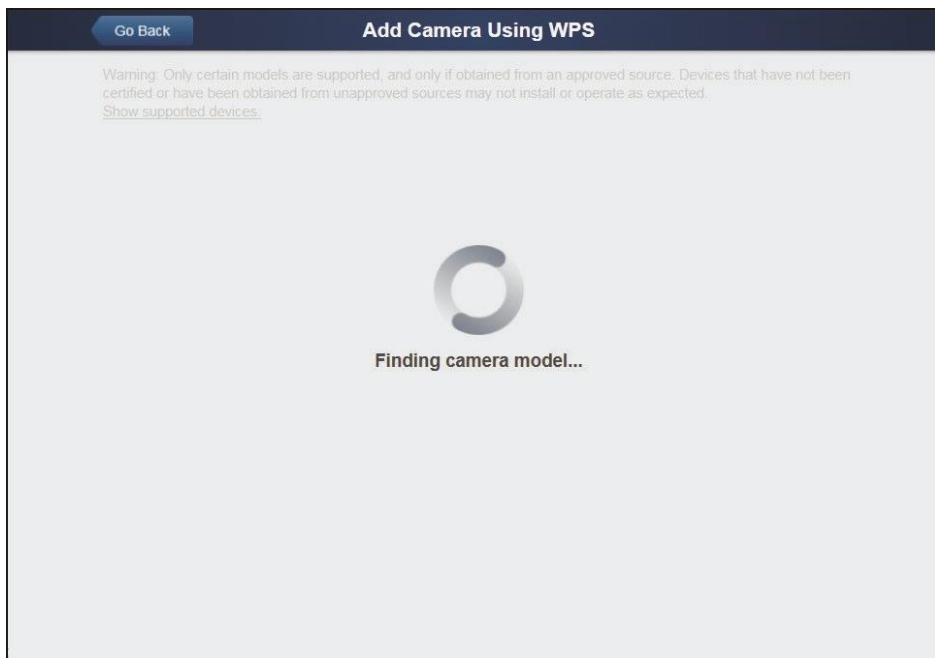
- The LED flashes amber as the gateway attempts to connect to the camera. The wireless connection is successful when the LED turns solid green

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



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- The following screen is shown while the camera is configured



- When the **Camera Details** screen appears, showing that the camera has been enrolled, assign the OC845 a unique name (usually based on the location of the camera) in the Name field, and then click **Save**.

Name	Outdoor Patio
Manufacturer	ADT
Model	OC845-ADT Outdoor 1080p HD Camera
MAC ID	14:2E:5E:05:10:E2
Firmware	3.0.00.13.AADT
Video Bandwidth	Standard (balance bandwidth and clarity)
HDR (High Dynamic Range)	On



- | Cameras | | | | |
|---|--------|-------------------------|-------------------|--------------|
| Status | Name | Model | MAC ID | Firmware |
|  | Camera | OC845-ADT Outdoor/Ni... | 14:2E:5E:05:10:D5 | 3.0.00.10ADT |

- Manage Devices

Close

Select any device group to add or modify devices.

Touch Screens 0	Cameras 1	Wi-Fi Extenders 0	
Switches 0	Doors 0	Thermostats 0	Others 0

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- Wait until the LED is lit solid green, and then disconnect the camera from power.
- Install the camera in its final location.
 - Please refer to Section 5: Wall Mounting

5 Wall Mounting

This section provides details for final mounting of the OC845 Outdoor FHD Camera. You should ensure that the camera is configured and enrolled in the platform before permanently mounting it.

- Locate an unused, non-switchable, indoor outlet to plug the AC/DC Power Adapter into. This outlet should be located as close as possible to the location where the camera will be permanently mounted.



Caution: Do not plug in the power adapter until all the connections are completed and the camera is fully mounted.

- Run the supplied power cable from the outdoor location where the camera will be mounted to the power outlet.
- At the location where the camera will be mounted, unscrew the camera stand and remove it from the camera.
- Hold the stand at the location where you would like to mount the camera and mark the location of the two mounting holes.
- Drill two holes on the mounting surface at the marked location.
- If using the anchors, insert them into the mounting holes.
- Align the two mounting holes on the camera stand with the two holes and mount the stand to the surface using the two supplied screws.



- Attach and screw the camera onto the camera stand.



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- Connect the power cable into the back of the camera.



- Insert the grommet between the camera and the power input cover.



Caution: Ensure that the grommet is positioned properly to prevent water from entering the camera power input.

- At the location of the power source, connect the power cable to the power adapter:
- Screw the red wire onto the positive (+) terminal of the power adapter, on the left side.
- Screw the black wire onto the negative (-) terminal of the power adapter, on the right side.
- Adjust the camera to the desired position and secure it firmly.
- Verify that the camera is active on the wireless network and is recognized by the platform.



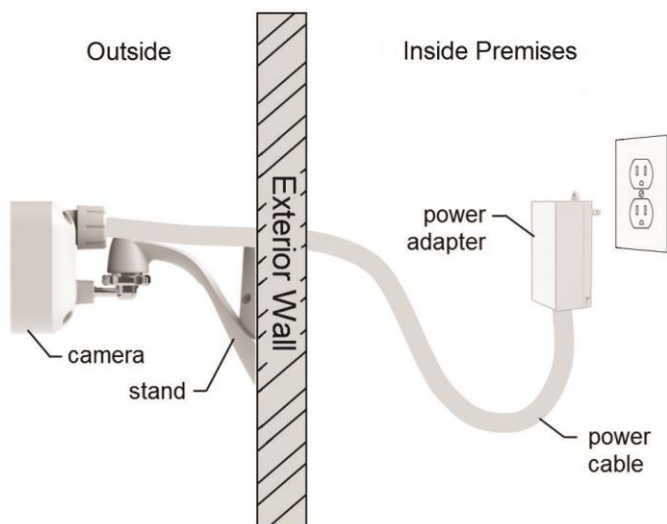
Caution: To avoid damaging the camera, be sure to observe proper polarity. Although the + and - terminals are marked on the power adapter, they are white on white and may be difficult to see.



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- Remove the retaining screw from the receptacle plate and plug the power adapter into the lower power outlet.
- Insert the retaining screw through the opening at the top of the power adapter and reinstall it into the receptacle, securing the adapter to the wall.



- Adjust the camera to a desired position and secure it firmly.
- Verify that the camera is active on the wireless network and is recognized by the platform.

5.1 Smart IR and 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, side wall or column. 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 or column is visible, as demonstrated in the photos in row 2 below.



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The OC845 uses a smart IR function for night viewing. This means that the camera automatically adjusts the IR light output and gain. As a result, if any objects are in the close foreground of the image, the camera lowers the IR light output to prevent overexposing those objects. The drawback of the smart IR function is that this feature causes background objects to receive less IR light and to be displayed with lessened detail. This result is typical for the smart IR function



6 Troubleshooting

This section provides details for troubleshooting wireless connection issues of the OC845 Outdoor Day/Night FHD Camera.

6.1 If the Camera Continually Goes Offline

If after it is enrolled the camera continually goes offline (LED blinks green 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.

- Power cycle the camera.
- If the previous measure fails, power cycle the gateway.
- If the previous measure fails, move the gateway closer to the camera, if possible.
- If the previous measure fails, press the camera's reset button for 15 seconds, and then re-enroll the camera into the platform.
- If the previous measure fails, install a Wi-Fi Range Extender
 - EX6100 for Control
 - WN3000RPH-3ADPAS for Pulse



7 Appendix

7.1 Technical Specifications

Sensor and Lens

Image Sensor	1/2.8" 2.1MP, HDR CMOS Sensor
Minimum Illumination	0 Lux (with IR LED On)
Lens FoV (Field-of-View)	Diagonal Viewing Angle: 145° LDC Enabled, FoV:130.3°(D), 123°(H), 81.4° (V)
PIR Sensor	Detection Range: 16 feet (5 meters)

Video

Video Compression	H.264 Main Profile L4.1, M-JPEG
Video Streaming	Simultaneous, H.264, M-JPEG
Image Settings	Flip, Brightness, Sharpness, Saturation, Contrast
Resolution & Frame Rate	1080p, 720p, VGA, QVGA, Up to 30 fps

Audio

Microphone	Built-in Dual Microphone Array
Two-Way Audio	Bi-directional Full Duplex Audio, Echo Cancellation,
Speaker	Built-in Speaker (2w) with Alarm Audio Playback

Alarm and Event Management

Alarms	Motion Detection, Audio Detection
Event Notification	Push Notification, Email, Text Notification

Network

Wireless	802.11ac, 2x2, Dual Band, 2.4GHz/5GHz
Protocols	TCP/IP, UDP, ICMP, NTP, HTTP, HTTPS, RTP, RTCP

Hardware

Connectors	DC Power Jack
Processor	CPU: ARM Cortex A9, 720 MHz
Memory	Flash: 128MB, RAM: 256MB
Night Vision	IR LED x 2: Range: 16 feet (5 meters)
LED Indicator	1 tri-color LED for Power, Network/WPS
Push Button	Reset (with WPS Function)
Power Adapter	Input: 100~240 VAC, 50~60 Hz
Compliance	FCC, IC, UL, cUL
Dimensions (HxWxD)	3.98" x 1.82" x 1.72" (80mm x 117mm x 34.6mm)
Weight	204g

Environment

Operation	Temperature: -40° ~ 122°F (-40° ~ 50°C)
Storage	Temperature: -40° ~ 158°F (-40° ~ 70°C)
Ingress	IP66

Accessories

Accessories	Power Supply (12VDC/1.5A, 100~240VAC)
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Ordering Information

Part Number	OC845: Full HD Wireless IP Camera
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7.2 Regulatory Approvals

7.2.1 Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. 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.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

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.

IMPORTANT NOTE:

Radiation Exposure Statement:

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

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Country Code selection feature to be disabled for products marketed to the US/CANADA



7.2.2 Industry Canada Statement

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

- (1) This device may not cause interference
- (2) This device must accept any interference, including interference that may cause undesired operation of the device

Cet appareil contient des émetteurs / récepteurs exempts de licence qui sont conformes au (x) RSS (s) exemptés de licence d'Innovation, Sciences et Développement économique Canada. L'opération est soumise aux deux conditions suivantes:

- (1) Cet appareil ne doit pas causer d'interférences
- (2) Cet appareil doit accepter toute interférence, y compris les interférences pouvant provoquer un fonctionnement indésirable de l'appareil

Caution:

the device for operation in the band 5150–5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems;

Avertissement:

les dispositifs fonctionnant dans la bande de 5150 à 5250MHz sont réservés uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux;

Radiation Exposure Statement:

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

Déclaration d'exposition aux radiations:

Cet équipement est conforme Canada limites d'exposition aux radiations dans un environnement non contrôlé. Cet équipement doit être installé et utilisé à distance minimum de 20cm entre le radiateur et votre corps.