Getting Started

Everything you need to quickly get up and running.
HD Wi-Fi Camera
Overview

Front

Day/Night Sensor
IR LEDs
Microphone

Back

Wi-Fi Antenna
5V Power
Micro SD Card Slot
10/100 Ethernet
WPS Button
External Microphone
External Speaker
HD Wi-Fi Camera

Installation

Outlet Connections
Connect the power adapter to an outlet and connect the ethernet cable to your router.

Camera Connections
Connect the antenna, ethernet cable and DC power connector to your camera.
Mounting Bracket
Mount the optional bracket using screws and wall anchors. You can position the camera right-side up or upside down.

Different wall materials require different screws and anchors. Use the appropriate type for your mounting surface. Drywall screws and anchors have been provided. Use caution when drilling holes in walls that may contain live electrical wires.
HD Outdoor Wi-Fi Camera
Overview

Camera

- Wi-Fi Antenna
- IR LED
- Day/Night Sensor

Cable Bundle

- 12V Power
- 10/100 Ethernet
- External Speaker
- External Microphone
- Reset Button
Outlet Connections
Connect the power adapter to an outlet and connect the ethernet cable to your router.

Camera Connections
Connect the antenna, ethernet cable and DC power connector to your camera.
Mounting Bracket
Mount the bracket using screws and wall anchors. Set the camera’s position by adjusting the various set screws with the included hex key.

Outdoor Cameras
Affix the camera with the final set screw. Encase the camera cables in a weather-proof electrical box.

? Different wall materials require different screws and anchors. Use the appropriate type for your mounting surface. Drywall screws and anchors have been provided. Use caution when drilling holes in walls that may contain live electrical wires.
Insteon app for iPhone, iPad and iPod Touch

Use the Insteon app to configure and control your Insteon Wi-Fi Cameras. Insteon HD Wi-Fi Cameras require Insteon Hub (2242-222) or (2245-222).
Configure a Camera for Wired Ethernet

iPhone, iPad and iPod touch

Launch the Insteon App

Tap the drawer icon or swipe from the right edge of the display to open the drawer

Tap Add a Device

If you have not already done so, connect your camera to power and your router using the supplied ethernet cable. It can take up to two minutes for your camera to complete its startup process. When ready, tap Next.

Select the camera that you would like to configure
Configure a Camera for Wired Ethernet
iPhone, iPad and iPod touch

Give your camera a user name and password. When ready, tap Next.

Select Use Wired Ethernet and then tap Next.

Wait while your camera’s settings are updated.

If you are presented with information about Remote Access, follow these steps for Troubleshooting Remote Access.

Name your camera, select an icon and add it to a room. When finished, tap Done.

You’re done setting up your Insteon Wi-Fi Camera.
Configure a Camera for Wi-Fi

iPhone, iPad and iPod touch

Launch the Insteon App

Tap the drawer icon or swipe from the right edge of the display to open the drawer

If you have not already done so, connect your camera to power and your router using the supplied ethernet cable. It can take up to two minutes for your camera to complete its startup process. When ready, tap Next.

Select the camera that you would like to configure
Configure a Camera for Wi-Fi
iPhone, iPad and iPod touch

Give your camera a user name and password. When ready, tap Next.

Tap Use Wi-Fi and select your network from the list. If you don’t see your network, ensure that you’ve connected the antenna to your camera.

Enter your Wi-Fi network’s password and tap Next.

Disconnect the ethernet cable from your camera and restart the camera by disconnecting and then reconnecting your camera’s power cable. If you do not disconnect the ethernet cable, your camera will not switch to Wi-Fi.

If you are presented with information about Remote Access, follow these steps for Troubleshooting Remote Access.

Name your camera, select an icon and add it to a room. When finished, tap Done.

You’re done setting up your Insteon Wi-Fi Camera.
Add an Already Configured Camera

iPhone, iPad and iPod touch

Add an already configured camera if you have already setup an Insteon Wi-Fi Camera using its web browser interface or would like to re-add a camera that was configured using the Insteon app.

Launch the Insteon App

Tap the drawer icon or swipe from the right edge of the display to open the drawer

Tap Add a Device
Add an Already Configured Camera
iPhone, iPad and iPod touch

Tap Camera

Tap Next.

Select that camera that you would like to add from the list of cameras.
Add an Already Configured Camera

iPhone, iPad and iPod touch

Enter your camera’s user name and password. When ready, tap Next.

Adding an already configured camera does not enable Automatic Remote Access.

Name your camera, select an icon and add it to a room. When finished, tap Done.

If your camera supports Automatic Remote Access, you can enable it from camera settings. If your camera requires manual remote access, follow these steps to Configure Manual Remote Access.

You’re done setting up your Insteon Wi-Fi Camera.
Add a Remote Camera
iPhone, iPad and iPod touch

Add a remote camera if your camera has been previously setup and is not located on your local network.

Launch the Insteon App

Tap the drawer icon or swipe from the right edge of the display to open the drawer

Tap Add a Device
Add a Remote Camera
iPhone, iPad and iPod touch

1. Tap Camera
2. Tap Next.
3. Tap My Camera Isn’t Listed

4. Tap Add a Remote Camera
5. Enter your camera’s IP address or URL, port, user name and password. When ready, tap Done.
6. Name your camera, select an icon and add it to a room. When finished, tap Done.

You’re done setting up your Insteon Wi-Fi Camera.
Advanced Camera Configuration
iPhone, iPad and iPod touch

Use advanced camera configuration if you would like to enter all of your camera's network information at once or if you would like to control options like DHCP, IP address and port.

Launch the Insteon App

Tap the drawer icon or swipe from the right edge of the display to open the drawer

Tap Add a Device
Advanced Camera Configuration
iPhone, iPad and iPod touch

Tap Camera

If you have not already done so, connect your camera to power and your router using the supplied ethernet cable. It can take up to two minutes for your camera to complete its startup process. When ready, tap Next.

Select that camera that you would like to configure from the list of cameras.
Advanced Camera Configuration
iPhone, iPad and iPod touch

Tap Advanced Setup

Configure your camera as desired and tap Next

Wait while your camera’s settings are updated

Advanced camera configuration does not enable Automatic Remote Access.

Name your camera, select an icon and add it to a room. When finished, tap Done.

✅ You’re done setting up your Insteon Wi-Fi Camera.
Insteon HD Cameras support Automatic Remote Access so you can view and control your camera when you’re away from home without any additional configuration. Automatic Remote Access is only configured when adding an unconfigured camera. It can be manually enabled for existing cameras.

Navigate to Settings and tap Devices

Select your HD Camera from the list of devices

Turn on Automatic Remote Access

To troubleshoot Automatic Remote Access, see this article.
Insteon app for Android

Use the Insteon app to configure and control your Insteon Wi-Fi Cameras. Insteon HD Wi-Fi Cameras require Insteon Hub.
Configure a Camera for Wired Ethernet

Android

Launch the Insteon App

Navigate to Settings by tapping Edit Settings from the Settings button

Tap Devices

Tap the Add button

Tap Camera

Tap Play to watch the setup video or tap Skip Video to continue with setup.
Configure a Camera for Wired Ethernet

If you have not already done so, connect your camera to power and your router using the supplied ethernet cable. It can take up to two minutes for your camera to complete its startup process. When ready, tap OK.

Give your camera a user name and password. When ready, tap Yes.

Tap Use hardwired with an Ethernet cable.

Wait while your camera’s settings are updated.

Name your camera, select an icon and add it to a room. When finished, tap Done.

You’re done setting up your Insteon Wi-Fi Camera.
Configure a Camera for Wi-Fi

Android

Launch the Insteon App

Navigate to Settings by tapping Edit Settings from the Settings button

Tap Devices

Tap the Add button

Tap Camera

Tap Play to watch the setup video or tap Skip Video to continue with setup.
Configure a Camera for Wi-Fi

Android

If you have not already done so, connect your camera to power and your router using the supplied ethernet cable. It can take up to two minutes for your camera to complete its startup process. When ready, tap OK.

Give your camera a user name and password. When ready, tap Yes.

Chose the Wi-Fi option that applies for your network: password-protected or open.

Enter your Wi-Fi network’s password and tap Done

Wait while your camera’s settings are updated

When prompted, disconnect the ethernet cable from your camera and tap Next
Configure a Camera for Wi-Fi

Android

Wait while your camera reconnects via Wi-Fi

Name your camera, select an icon and add it to a room. When finished, tap Done.

✔️ You’re done setting up your Insteon Wi-Fi Camera.
Insteon HD Cameras support Automatic Remote Access so you can view and control your camera when you’re away from home without any additional configuration. Automatic Remote Access is only configured when adding a new camera. It can be manually enabled for existing cameras.

Navigate to Settings and tap Devices

Select your HD Camera from the list of devices

Turn on Automatic Remote Access

To troubleshoot Automatic Remote Access, see this article.
Web Browser Interface

Use the web browser interface to configure advanced settings on your camera.
Web Interface

Many camera settings can only be modified using the camera’s web browser interface. Information on configuring supported settings can be found on insteon.com/support.
Camera Tool

Use Camera Tool to find your Insteon Wi-Fi Camera on your network to administer changes or update firmware using the camera's web browser interface.

Camera Tool for OS X
Requires Mac OS X 10.7 or higher

Camera Tool for Windows
Requires Windows 7 or higher
Firmware Update
For detailed firmware update instructions, visit insteon.com/camera-setup
Factory Reset

Restore all settings by performing a factory reset. Configured users, passwords, network settings and more are all erased and restored to factory defaults.
Factory Reset

Ensure your camera is connected to power and then press and hold the reset button for 30 seconds.

**Indoor Camera**
Use a straightened paper clip to depress the recessed reset button located on the bottom of the camera for 30 seconds.

**Outdoor Camera**
Use a fingertip to depress the reset button located in the cable bundle for 30 seconds.
Appendix

Everything else you might need to know about your Insteon product.
## Specifications

### General

<table>
<thead>
<tr>
<th>Available Colors</th>
<th>White (Indoor)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>White (Outdoor)</td>
</tr>
<tr>
<td></td>
<td>Black (Indoor)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Brand</th>
<th>Insteon</th>
</tr>
</thead>
<tbody>
<tr>
<td>FCC ID</td>
<td>ZDEFI9803PV2</td>
</tr>
</tbody>
</table>

| Manufacturer Product No.: | 2864-222 White (Indoor) |
|                          | 2864-226 Black (Indoor) |
|                          | 2864-232 White (Outdoor) |

| UPC: | 813922014129 White (Indoor) |
|      | 813922014136 Black (Indoor) |
|      | 813922014198 White (Outdoor) |

| Warranty        | 90 days, limited |

### Mechanical

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Indoor Cameras</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>5.1&quot; H x 4.1&quot; W x 5.7&quot; D</td>
</tr>
<tr>
<td></td>
<td>130mm H x 104mm W x 145mm D</td>
</tr>
</tbody>
</table>

|            | Outdoor Camera |
|            | 5.7" H x 3.6" W x 5.9" D |
|            | 92mm H x 92mm W x 152mm D |

<table>
<thead>
<tr>
<th>Enclosure Material</th>
<th>Indoor Cameras</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>UV stabilized plastic</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Outdoor Camera</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Aluminum</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Mounting</th>
<th>Indoor Cameras</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Tabletop or Wall Mount</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Outdoor Camera</th>
<th>Wall Mount</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Operating Environment</th>
<th>Indoor Cameras</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Indoors</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Outdoor Camera</th>
<th>Indoors or Outdoors</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Operating Humidity Range</th>
<th>10-80% relative humidity, non-condensing</th>
</tr>
</thead>
</table>

| Operating Temperature Range | Indoor Cameras |
|                            | 14° to 122° F |
|                            | 10° to 50° C |

<table>
<thead>
<tr>
<th>Outdoor Camera</th>
<th>-4° to 140° F</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>-20° to 60° C</td>
</tr>
</tbody>
</table>
## Electrical

<table>
<thead>
<tr>
<th>Feature</th>
<th>Indoor Cameras</th>
<th>Outdoor Camera</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Power Consumption</strong></td>
<td>10 Watts Max</td>
<td>12 Watts Max</td>
</tr>
<tr>
<td><strong>Supply Voltage</strong></td>
<td>100-240 Volts AC, 50/60 Hertz, single phase</td>
<td></td>
</tr>
<tr>
<td><strong>DC Power Supply</strong></td>
<td>5V, 2A</td>
<td>12V, 1A</td>
</tr>
<tr>
<td><strong>Power Connector</strong></td>
<td>3.5mm Barrel Connector</td>
<td>5.5mm Barrel Connector</td>
</tr>
<tr>
<td><strong>Certification</strong></td>
<td>CE, FCC, RoHS</td>
<td></td>
</tr>
</tbody>
</table>

## System Requirements

<table>
<thead>
<tr>
<th>Feature</th>
<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Operating System</strong></td>
<td>Microsoft Windows 7 or later, Mac OS X 10.7 or later, Apple iOS 7 or later, Android 2.2 or later</td>
</tr>
<tr>
<td><strong>Browser Compatibility</strong></td>
<td>A list of supported browsers can be found on insteon.com/support</td>
</tr>
</tbody>
</table>
## Network

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethernet Support</td>
<td>One 10/100 RJ45 port</td>
</tr>
<tr>
<td>Wi-Fi Support</td>
<td>IEEE 802.11 b/g/n</td>
</tr>
<tr>
<td></td>
<td>802.11b at 11Mbps max</td>
</tr>
<tr>
<td></td>
<td>802.11g at 54 Mbps max</td>
</tr>
<tr>
<td></td>
<td>802.11n at 150 Mbps max</td>
</tr>
<tr>
<td>Wi-Fi Security Support</td>
<td>WEP, WPA, WPA2</td>
</tr>
<tr>
<td>Network Protocols</td>
<td>IP, TCP, UDP, HTTP, HTTPS, SMTP, FTP, DHCP, DDNS, UPnP</td>
</tr>
</tbody>
</table>

## Video

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Image Sensor</td>
<td>HD Color CMOS Sensor</td>
</tr>
<tr>
<td>Image Sensor Resolution</td>
<td>1280 x 720</td>
</tr>
<tr>
<td>Minimum Illumination</td>
<td>0 Lux (using IR illumination)</td>
</tr>
<tr>
<td>Lens Type</td>
<td>Glass Lens</td>
</tr>
<tr>
<td>Focal Length</td>
<td>f:2.8mm</td>
</tr>
<tr>
<td>Aperture</td>
<td>Indoor Cameras F2.4</td>
</tr>
<tr>
<td></td>
<td>Outdoor Camera F1.2</td>
</tr>
<tr>
<td>Field of View</td>
<td>70º</td>
</tr>
<tr>
<td>Image Compression</td>
<td>H.264</td>
</tr>
<tr>
<td>Frame Rate</td>
<td>720P 23 FPS Maximum</td>
</tr>
<tr>
<td></td>
<td>VGA 25 FPS Maximum</td>
</tr>
<tr>
<td>Supported Resolutions</td>
<td>720P 1280 x 720</td>
</tr>
<tr>
<td></td>
<td>VGA 640 x 480</td>
</tr>
<tr>
<td></td>
<td>nHD 640 x 360</td>
</tr>
<tr>
<td></td>
<td>QGVA 320 x 240</td>
</tr>
<tr>
<td>Image Adjustment</td>
<td>Flip, Mirror</td>
</tr>
<tr>
<td>Pan and Tilt</td>
<td>Indoor Cameras 300º Horizontal Pan</td>
</tr>
<tr>
<td></td>
<td>120º Vertical Tilt</td>
</tr>
<tr>
<td></td>
<td>Outdoor Camera Fixed Mount</td>
</tr>
</tbody>
</table>
Troubleshooting

For detailed troubleshooting information, visit insteon.com/get-started-2864-222
Certifications and Warnings

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 when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the installation manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his own expense.

FCC Caution

Any changes or modification not expressly approved by the party responsible for compliance could void the user’s authority to operate this equipment.

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

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

CE Mark Warning

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.
In 2002, the European Union introduced the Directive on Waste Electrical and Electronic Equipment (WEEE). The main aim of the Directive is to ensure that WEEE is collected and treated separately. WEEE may contain hazardous substances that should not end-up in the (human) environment because it can have adverse effects on it. Furthermore, WEEE is a vast source of raw materials. With the ever-rising worldwide demand for new equipment and the ever-decreasing volume of raw materials in nature, letting this potential source of such materials go to waste is unacceptable. If equipment is collected separately, the equipment can be recycled and up to 85 to 90% of the equipment can be reused as new material, saving the use of virgin raw materials and energy of producing these. Separate collection and treatment of WEEE will thus decrease CO2 emissions as well. For the above reasons, Insteon expects end-users to dispose of the material in an environmentally friendly way through separate collection and treatment. Electrical and Electronic Equipment is labeled with the following ‘crossed out wheeled bin’ symbol indicating that the equipment should be disposed of, by the end-user, separate from other types of waste. End-users should contact their dealer/distributor or our company on disposal, collection and recycling options in their country.
Product Warranty

Limited Warranty

Seller warrants to the original consumer purchaser of this product that, for a period of 90 days from the date of purchase, this product will be free from defects in material and workmanship and will perform in substantial conformity to the description of the product in this Owner’s Manual. This warranty shall not apply to defects or errors caused by misuse or neglect. If the product is found to be defective in material or workmanship, or if the product does not perform as warranted above during the warranty period, Seller will either repair it, replace it, or refund the purchase price, at its option, upon receipt of the product at the address below, postage prepaid, with proof of the date of purchase and an explanation of the defect or error. The repair, replacement, or refund that is provided for above shall be the full extent of Seller’s liability with respect to this product. For repair or replacement during the warranty period, call 866-243-8022 with the Model # and Revision # of the device to receive an RMA# and send the product, along with all other required materials to:

Insteon
ATTN: Receiving
16542 Millikan Ave.
Irvine, CA 92606-5027

Limitations

The above warranty is in lieu of and Seller disclaims all other warranties, whether oral or written, express or implied, including any warranty or merchantability or fitness for a particular purpose. Any implied warranty, including any warranty of merchantability or fitness for a particular purpose, which may not be disclaimed or supplanted as provided above shall be limited to the two-year of the express warranty above. No other representation or claim of any nature by any person shall be binding upon Seller or modify the terms of the above warranty and disclaimer.

Home automation devices have the risk of failure to operate, incorrect operation, or electrical or mechanical tampering. For optimal use, manually verify the device state. Any home automation device should be viewed as a convenience, but not as a sole method for controlling your home.

In no event shall Seller be liable for special, incidental, consequential, or other damages resulting from possession or use of this device, including without limitation damage to property and, to the extent permitted by law, personal injury, even if Seller knew or should have known of the possibility of such damages. Some states do not allow limitations on how long an implied warranty lasts and/or the exclusion or limitation of damages, in which case the above limitations and/or exclusions may not apply to you. You may also have other legal rights that may vary from state to state.