

Quick Start Guide

*HMVC3050
Wireless Motion
Sensor Day/Night
Camera*



Introduction

Congratulations on your purchase of the Motorola *homesight*™ Wireless Day/Night Camera. A high-resolution color video camera, it includes a built-in heat/motion detector and an audio microphone. These features enable you to secure an area, rain or shine, day or night. This Quick Start Guide describes how to set up and troubleshoot your Wireless Motion Sensor Camera.

Controlling Your Camera

Using your computer and the Wireless System Controller, you locally manage your home environment with the Motorola *homesight*™ software. When configured, the system can notify you of any new events by sending an e-mail when your Wireless Motion Sensor Camera detects an event. An event is defined as motion in the field of view of the camera's heat/motion sensor.

How It Works

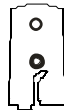
The Wireless Motion Sensor Camera surveys an area up to 12–14 feet (3.5–4 m) at a viewing angle of 80 degrees. If armed, heat/motion triggers the camera to turn on automatically and begin capturing a still image, or a video clip of a prescribed length. The camera transmits the video back to the Wireless System Controller, which in turn feeds your computer. This enables you to view the image or watch the video to determine the cause of the triggered event.



Package Contents



Wireless Motion
Sensor Camera



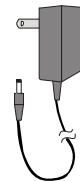
Wall
Mount
Bracket



Hardware
Mounting Kit
with Discovery
Tool



AC
Extension
Cord



12V Power
Adapter

Installation Overview

Installing your camera is a simple process.

- 1** Choose an appropriate location for the Wireless Motion Sensor Camera as described in the Installation Hints.
- 2** Plug the AC adapter into the wall and the module.
- 3** Register your camera with your Wireless System Controller using a process called Discovery. Refer to your Wireless System Controller documentation for instructions on how to discover your Wireless Motion Sensor Camera.
- 4** Mount the module, using either the tabletop base, or by following the instructions for wall mounting. If using the table mount, slide the power switch on the base to On.

Installation Hints

Please consider the following points when mounting the camera:

- The camera must be aimed so that it does not directly face the sun or any bright light; otherwise, this may cause damage to the camera.
- Avoid viewing areas where half of the area is in bright sunlight and the other half is dark. All types of cameras have difficulty seeing wide variations of light.
- The Motorola Wireless Motion Sensor Camera is constructed of UV-resistant ABS plastic. If installing the Wireless Motion Sensor Camera outside, it should be shielded from the elements, such as underneath a porch roof. Do not install the camera where it is subjected directly to the elements.
- Typically, the camera's wireless reception is good to up to 60–80 feet from the Wireless System Controller, depending on the number of obstacles. These can include metal framing, thick walls, and other wireless devices operating at 2.4 GHz. It is recommended that different positions be tried.

Installing Your Camera

Your camera can either be mounted on a wall or just sit on a level surface.

Wall Mount Your Wireless Camera

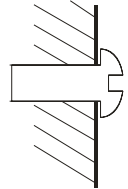
Make sure the power adapter cord is long enough to reach your mounting location. Also, be sure the AC outlet cannot be switched on and off with a wall switch.

Warning: When mounting near a window, drilling too close to the glass could break the glass and possibly cause it to shatter. The window extends deeper into the frame than can be seen; therefore, ensure your screw is beyond the glass before drilling.

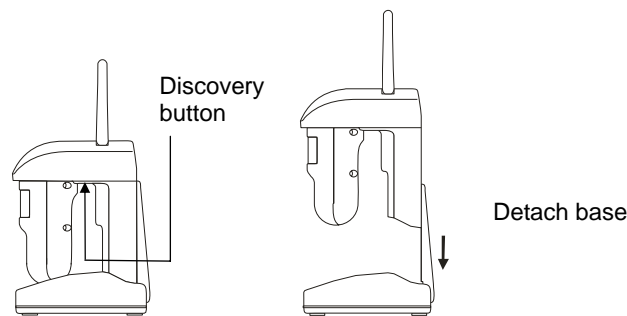
- 1 Using the holes on the drilling template found later in this guide, mark the position of the holes to be drilled.

For drywall or other composite surfaces use a 7/32" drill bit. Drill a hole for each of the mounting screws and insert a plastic wall anchor into each hole.

For other solid surfaces, use a 1/16" drill bit. Drill a pilot hole for each of the mounting screws.



- 2 Using the screws provided, secure the camera mounting bracket to the wall. Pull off the camera base by pulling straight down. The base detaches from the upper back side. Slide the camera down on to the bracket until it is firmly seated and you feel it click as the contacts engage.

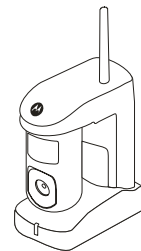


- 3 Position the camera to view the desired area and plug in the power supply. Please keep in mind that the field of view is 80 degrees and motion sensor distance works up to 12–14 feet (3.5–4 m).
- 4 Make adjustments to the camera viewing angle by tilting and panning the camera head with your hand.

Table Mount Your Wireless Camera

The camera can be placed on any horizontal surface.

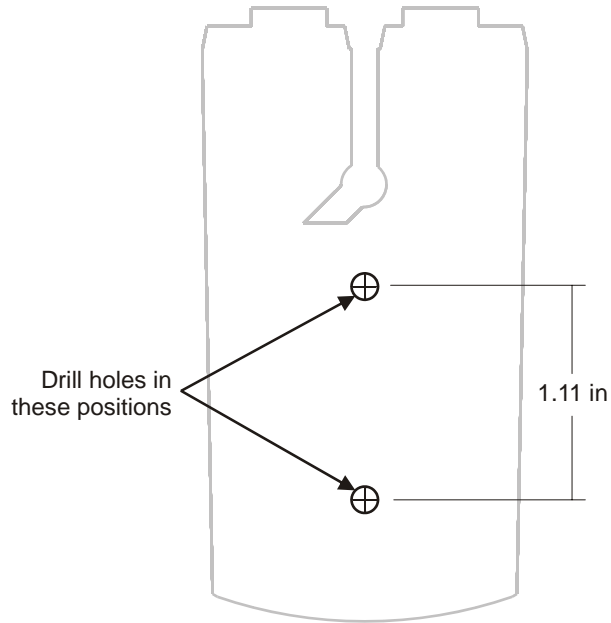
- 1 Locate the camera on a horizontal surface.
- 2 Plug the power supply into camera and then to a wall outlet.
- 3 Make adjustments to the camera viewing angle by tilting and panning the camera head with your hand.



Wall Mount Drilling Template

Mounting tools: Screwdriver, electric drill or awl. On hard surfaces, Motorola recommends that you pre-drill ½-inch deep pilot holes with a drill bit slightly smaller than the camera mounting screws before securing the camera to the surface. When mounting a camera on soft surfaces like sheetrock, use an awl to punch holes in the material slightly smaller than the plastic anchors included in the hardware mounting kit.

The illustration is drawn to a one-to-one scale, which means that it provides the exact dimensions required to mount the unit.



Troubleshooting

Problem	Solution
Camera will not register with the Wireless System Controller	<ul style="list-style-type: none">• Ensure that the camera is powered and the power switch is On (table mount base).• Ensure that the Wireless System Controller is powered and online.• Ensure that you are pressing the Discovery button.• Reposition the camera closer to the Wireless System Controller.• Try a hard reset by holding down the Discovery button while powering up the camera.
No camera picture	<ul style="list-style-type: none">• Ensure that the Wireless System Controller is powered and online.• Ensure that you have the proper camera selected.• Reposition the camera closer to the Wireless System Controller.
Poor picture quality	<ul style="list-style-type: none">• Ensure that you are using the proper power supply.• Make sure the proper camera quality settings are configured when viewing (Motorola <i>homesight</i>™ User Guide).• Make sure your camera viewing area has proper lighting.• Try another location.• Select other operating channels on other 2.4 GHz devices.• Be sure there is no conflict with your WiFi network. See the <i>homesight</i> User Guide for details.
Motion events are not triggered	<ul style="list-style-type: none">• Ensure that the camera is not positioned behind glass. The motion sensor is triggered by changes in heat. Any material such as glass that "insulates" keeps the camera from detecting heat changes (movement).• Ensure that the camera head is positioned properly.
Audio problems	<ul style="list-style-type: none">• Make sure the speaker volume is turned up when playing back the video clip.• Make sure the sound is within the microphone range (6–10 feet).• Does the computer have a sound card and are the speakers activated and loud enough?

FAQ

How far away can the camera see?

Depending on the lighting conditions and the size of the object(s), you can view objects up to 200 feet (60 m) away with a viewing angle of 80 degrees. The motion sensor is capable of detecting objects at up to 16 feet (5 m) with a field of view of 80 degrees.

How sensitive is the camera's microphone?

The microphone picks up normal conversation 6–10 feet away.

Features and Specifications

- Device signal communication
- Red LED behind motion detector lens illuminates when activity occurs
- Microphone captures audio
- 60 degree field of view for motion and camera lens
- Auto brightness, auto contrast, auto white-balance
- All hardware for either wall or tabletop mounting included
- AC operation

Integrated lens:	4.3 mm, F1.8 fixed focus
Motion and camera lens:	60 degree field of view
Focus range:	2 feet to infinity
Resolution:	400 horizontal TV lines
Signal/noise ratio:	48 dB
Frequency range:	2.41–2.47 GHz
Image sensor:	1/3" CCD color
High-speed electronic shutter:	1/60–1/15000 sec
Minimum illumination:	.01 lux (at 3 m)
Current consumption:	approximately 220mA
Typical communication range open air (line of sight):	200 feet (60 m)
Typical communication range indoors:	60 feet (18 m)
Overall size:	3.25"W x 7.3"H x 4.5"D (8.3 cm W x 18.5 cm H x 11.4 cm D)
Operational temperature/humidity:	32° to 104° F with 10% to 80% humidity with all components operating within manufacturer thermal limits
Storage temperature:	-25° C to 75° C

Regulatory Information

CAUTION: Changes or modifications not expressly approved by Motorola for compliance could void the user's authority to operate the equipment.

FCC Compliance Class B Digital Device

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 environment. 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 Declaration of Conformity

Motorola, Inc., Connected Home Solutions, 101 Tournament Drive, Horsham, PA 19044, 1-215-323-1000, declares under sole responsibility that the HMVC3075 complies with 47 CFR Parts 2 and 15 of the FCC Rules as Class B digital devices.

Industry Canada ICES-003 Statement

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Restrictions on Use of Wireless Devices

In some situations or environments, the use of wireless devices may be restricted by the proprietor of the building or responsible representatives of the organization. If you are uncertain of the applicable policy for the use of wireless equipment in a specific organization or environment, you are encouraged to ask for authorization to use the device prior to turning on the equipment.

The manufacturer is not responsible for any radio or television interference caused by unauthorized modification of the devices included with this product, or the substitution or attachment of connecting cables and equipment other than specified by the manufacturer. Correction of interference caused by such unauthorized modification, substitution, or attachment is the responsibility of the user.

FCC Certification

This product contains a radio transmitter and accordingly has been certified as compliant with 47 CFR Part 15 of the FCC Rules for intentional radiators. Products that contain a radio transmitter are labeled with FCC ID and the FCC logo.

This device complies with Part 15 of FCC Rules. Operation of the device is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference that may cause undesired operation.

Canada—Industry Canada (IC)

The wireless radio of this device complies with RSS 210 and RSS 102 of Industry Canada.

The use of this device in a system operating either partially or completely outdoors may require the user to obtain a license for the system according to the Canadian regulations.

Registration

Register your product at:

<http://broadbandregistration.motorola.com>

Limited Warranty

Wireless Motion Sensor Day/Night Camera

Motorola, Inc., Connected Home Solutions ("Motorola")

Limited Warranty. Motorola warrants to you, the original end user customer, that (A) the Product, excluding Software, will be materially free from defects in materials and workmanship under normal use, and (B) with respect to Software, (i) the media on which the Software is provided will be free from defects in material and workmanship under normal use, and (ii) the Software will perform materially as described in its documentation. This Limited Warranty to you, the original end user customer, continues (A) for Software and the media upon which it is provided, for a period of ninety (90) days from the date of purchase from Motorola or an authorized Motorola reseller, and (B) for the Product (excluding Software), for a period of one (1) year from the date of purchase from Motorola or from an authorized Motorola reseller. To take advantage of this Limited Warranty or to obtain technical support, you must call the Motorola toll-free phone number (below). Motorola's sole and exclusive obligation under this Limited Warranty for retail sales shall be to repair or replace any Product or Software that does not meet this Limited Warranty. All warranty claims must be made within the applicable Warranty Period.

General Information. The warranties described in this Section shall not apply: (i) to any Product subjected to accident, misuse, neglect, alteration, Acts of God, improper handling, improper transport, improper storage, improper use or application, improper installation, improper testing or unauthorized repair; or (ii) to cosmetic problems or defects which result from normal wear and tear under ordinary use, and do not affect the performance or use of the Product. Motorola's warranties apply only to a Product that is manufactured by Motorola and identified by Motorola owned trademark, trade name or product identification logos affixed to the Product. Motorola does not warrant to you, the end user, or to anyone else that the Software will perform error free or without bugs. MOTOROLA IS NOT RESPONSIBLE FOR, AND PROVIDES "AS IS" ANY SOFTWARE SUPPLIED BY 3RD PARTIES. EXCEPT AS EXPRESSLY STATED IN THIS SECTION ("WARRANTY INFORMATION"), THERE ARE NO WARRANTIES OF ANY KIND RELATING TO THE PRODUCT, EXPRESS, IMPLIED OR STATUTORY, INCLUDING BUT NOT LIMITED TO IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR THE WARRANTY AGAINST INFRINGEMENT PROVIDED IN THE UNIFORM COMMERCIAL CODE. Some states do not allow for the exclusion of implied warranties, so the above exclusion may not apply to you.

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Please call the Motorola toll-free number, 1-877-466-8646, for technical support or warranty service.

Visit our website at:

<http://www.motorola.com/homemonitoring>



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