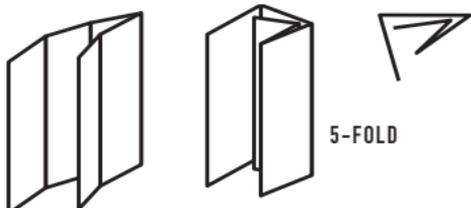


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1	ECO# C00886	MJS	5/04/04	CG
2	ECO# C02412	DR		

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Engineering				
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UNIT DESCRIPTION

The Miro MRH5 Wireless House Scene Remote provides recording and recall of five user-defined lighting scenes (or presets). Its On/Off paddle can also turn on or off selected Miro wireless devices throughout the house.

The MRH5 is a whole-house controller. It can be identified by the icon on its front, which resembles the outline of a house exterior. It is used in combination with any number of Miro wireless dimming or non-dimming devices in the house.



House icon

The MRH5 is a battery operated portable device, so you can use it anywhere in the house. It is commonly used as a bedside controller in the master bedroom. It has the same functionality as the wall-mounted MRD5 wireless house controller, but also incorporates a PANIC button, which activates selected devices to deter intruders and alert neighbors or passers by.



Panic button

You can add house scene controllers to control five additional scenes from other locations in the house. With two or more house scene controllers, you can control a total of up to ten scenes (see MORE SCENES section).

The MRH5 can control a variety of Miro wireless devices including dimmers, switches, appliance modules and lamp modules. For example:

- Set the house to sleep, turn lights off downstairs but leave low-level pathway lighting for the kids to find the bathroom.
- Light up the whole house for a party setting.
- Create a lighting trail and turn on a TV or radio so you can listen to the news as you go through your morning and evening routines.
- Using the paddle's "off" feature, turn off all Miro wireless devices with one touch as you leave the house.

Note: To control a single room, use a Miro wireless room scene controller (a wall mounted MRD6 or a handheld MRH6 remote).

Miro Wireless

Miro wireless devices use radio signals to communicate with each other to control lighting and other types of electric loads in selected areas. They use the 900MHz band for high-speed control communication. Using the Watt Stopper's own "frequency-agile" Top Dog™ technology, Miro wireless devices avoid interference with other 900MHz devices, such as cordless phones and baby monitors.

Application Assistance

The **Miro Installation Guide** provides more information about configuring scenes and presets. Instructions for installation and use are included with the relevant Miro wireless devices. Application support information and the **Miro Installation Guide** is available online.

SET HOUSE ID

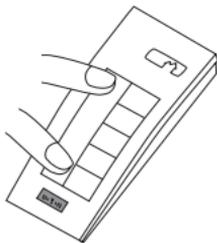
All Miro wireless devices installed in the same home must acquire the same unique House ID before use. This process is known as house binding. Each Miro wireless device is bound to all other Miro wireless devices in the house.

New Installation

1. With all devices installed and energized, make sure that every Miro wireless device LED is yellow. If any LED is off, be sure the circuit breaker is on and the device is correctly installed.

The MRH5 remote shuts down when it is not in use. Press any button to activate the remote and illuminate its LED.

2. Press  on any device paddle until the LED flashes yellow (about 2 seconds). This indicates that it has acquired a unique House ID.



When you see  in the instructions, firmly press and hold both the top and bottom of the paddle until the LED changes (about 2 seconds).

3. Make sure that all other Miro wireless device LEDs are flashing green, indicating that they have acquired the same House ID. For MRH5 or MRH6 remotes, be sure that the units are awake during the binding process. Press any button to activate the remote and illuminate its LED.
4. Return to the device used in step 2, which is still flashing yellow. Press  until the LED changes to solid green (about 2 seconds). All device LEDs in the House change to solid green, indicating house binding is complete.

Adding a Device to an Existing Installation

If you're adding or replacing a device in a Miro wireless installation that is already operating, the new device must be bound to the same House ID as the other Miro wireless devices in the house. After the new device is powered up, the LED should be solid yellow. This indicates that it has not yet acquired a House ID. To acquire the House ID for the existing system:

1. Press  on any **previously bound** device until the LED flashes yellow (about 2 seconds).
2. Verify that the newly added device LED is flashing green, indicating that it has acquired the House ID. In the case of the MRH5 or MRH6 handheld remotes, be sure that the unit is awake during the binding process. Press any button to activate the remote and illuminate its LED.
3. Return to the **same previously bound** device used in step 1 and press  until the LED changes to solid green (about 2 seconds). All device LEDs should now be solid green.

OPERATION

When a new MRH5 is added to a system with existing house scenes, its scene buttons execute the same scenes as other house scene controllers with the same scene set assignment (see MORE SCENES). Paddle functions are the same at every house scene remote and house scene controller.

Paddle Functions

Use the rocker paddle to begin and end binding and recording procedures. It also functions as an On/Off switch. Paddles on **all** house scene controllers in the house turn on or off the **same** devices. Until excluded, all devices turn off when ↓ is pressed. Use the recording procedures below from any house scene controller to change the selection of devices that are included in the on or off function. Remember that ALL house scene controllers will operate the same devices.



When you see ↑ in the instructions, touch the top of the paddle as directed.



When you see ↓ in the instructions, touch the bottom of the paddle as directed.

Record the “On” Devices for the ↑ Paddle

1. Press ⇄ on the MRH5 until the LED begins flashing (about 2 seconds).
2. Tap the ↑ paddle on the MRH5. The LEDs on all the Miro wireless devices begin to flash. You now have 10 minutes to complete this process.
3. To include or exclude a device press ⇄ on the device until the LED changes color.
Yellow flashing LED = Included in paddle operation
Green flashing LED = NOT included in paddle operation

If you get to a device and it is NOT flashing, see TROUBLESHOOTING.

4. Return to the MRH5 used in step 1. Press ⇄ for about 2 seconds — the status LED stops flashing, then all the status LEDs in the house turn green.
5. To test, tap ↑ on any house scene controller to switch or fade included devices to on (dimmers go to full bright).

Record the “Off” Devices for the ↓ Paddle

1. Press ⇄ on the MRH5 until the LED begins flashing (about 2 seconds).
2. Tap the ↓ paddle on the MRH5. The LEDs on all the Miro wireless devices begin to flash. You now have 10 minutes to complete this process.
3. See step 3 above.
4. See step 4 above.
5. To test, tap ↓ on any house scene controller to switch or fade included devices to off.

Scene Button Functions

The smaller buttons, labeled A—E in the illustrations, are used to record and recall scenes. Until a new scene is recorded for the E button, all devices turn off when the E scene button is pressed. Space is provided on the back of the remote so you can write down a name for each button's scene.

Record a Whole-House Scene

1. Press  on the MRH5 until the LED begins flashing (about 2 seconds).
 2. Press the scene button that you wish to program. The LEDs on all the Wireless Miro devices begin to flash. You now have 10 minutes to complete this process.
 3. To include or exclude a device in the scene press  on the device until the LED changes color. **Yellow** flashing LED = Included in the active scene
Green flashing LED = NOT included in the active scene
If you get to a device and it is NOT flashing, see TROUBLESHOOTING.
- NOTE:** You must include devices that are off in the house scene if you want them to turn off when that scene is recalled.
4. Return to the MRH5 used in step 1. Press  for 2 seconds — the status LED stops flashing, then all the status LEDs in the house turn green.
 5. Go around the house and adjust light levels by pressing and holding  or  on the devices that you want to adjust.
 6. Return to the MRH5 used in step 1 and press and hold the same scene button until the LED flashes once (about 2 seconds). Scene recording for this button is complete. Repeat this process for each scene button.

Recall a Scene

1. Press the appropriate scene button.
 2. Watch the scene smoothly transition from the previous lighting state.
- You can recall the same scene from any house scene controller assigned to the same set of house scenes (see MORE SCENES).

Modify the Light Levels of a Scene

1. Recall the recorded scene.
2. Change lighting levels as desired by pressing  or  on individual devices.
3. Press and hold the scene button until the LED flashes twice (about 2 seconds) to save the new settings.

Modify a Previously Recorded Scene

Use the Record a Whole-House Scene procedure to change the characteristics of a previously recorded house scene button. Use the recording procedures in the Paddle Functions section to change (include or exclude) devices associated with ↑ (on) or ↓ (off) for all MRH5 or MRD5 paddles in the house.

Panic Feature

The PANIC feature is designed to deter intruders and draw attention to the house. Typically, lights on the first floor, outside lights, and a bell or siren connected to an appliance module are included. When a PANIC is invoked:

- Lighting circuits on included dimmer devices flash on and off rapidly
- Switched (non-dimming) circuits on included devices turn on

Record a PANIC State

1. Press ↑ on the MRH5 until its LED begins flashing (about 2 seconds).
2. Press the PANIC button . The LEDs on all the Wireless Miro devices begin to flash. You now have 10 minutes to complete this process.
3. To include or exclude a device press ↑ on the device until the LED changes color.

Yellow flashing LED = Included in the PANIC state

Green flashing LED = NOT included in the PANIC state

If you get to a device and it is NOT flashing, see TROUBLESHOOTING.

4. Return to the MRH5 used in step 1. Press ↑ until its status LED stops flashing (about 2 seconds), then all the status LEDs in the house turn green.

Invoking the PANIC State

Press and hold the PANIC button  for 2 seconds.

To cancel the PANIC state and return to normal operation press  again.

MORE SCENES

You can increase the number of house scenes to 10 by adding a second MRH5 to the house, then changing the “scene set assignment” on one of them. The MRH5 scene set assignment is 1-5 when shipped. Changing the second MRH5 scene set assignment to 6-10 allows you to record another 5 scenes that can be accessed by any house scene controller (MRD5 and MRH5) that has a scene set assignment of 6-10.

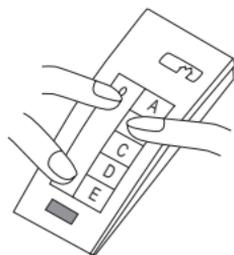
All house scene controllers that have the same scene set assignment operate the 5 scenes in the same way as all other house scene controllers programmed for the same set (1-5 or 6-10).

To assign the controller for scenes 6-10, simultaneously press  and button **B** until the LED blinks twice (about 2 seconds).

To change the assignment to scenes 1-5, simultaneously press  and button **A** until the LED blinks twice (about 2 seconds).

A = scenes 1-5 (default)

B = scenes 6-10



Assigning the MRH5 for scene set 6-10

NOTE: The scene set assignment only affects the scene buttons (A-E). The On/Off paddle on any whole-house controller operates the same devices as any other whole-house controller in the house, regardless of scene set assignment.

LOCK HOUSE CONFIGURATION

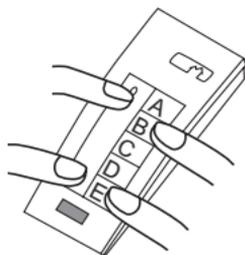
The Lock Configuration function operates from a wireless Miro house scene controller, and prevents the Miro wireless devices in the system from being reprogrammed. Normal operations such as dimming, switching, scene recall and scene light level modifications are not affected.

When the configuration is locked, if the rocker paddle on any Miro wireless device is pressed and held (- ⇄ -), the device's LED flashes red, and the command is ignored.

To lock the configuration:

Go to any house scene controller. Simultaneously press ⇄ and buttons **B** and **E** until the LED flashes (about 2 seconds) to toggle in and out of Lock Configuration mode.

- If the mode changes from unlocked to locked, the LED flashes **red** for 2 seconds, indicating that configuration is now locked.
- If the mode changes from locked to unlocked, the LED flashes **green** for 2 seconds, indicating that configuration is now unlocked.



Locking and unlocking house configuration

BATTERY INFORMATION

The MRH5 operates using three 1.5V Alkaline AAA size batteries. The remote goes to sleep whenever it is not performing a function. When asleep, its LED is off. Press any button to wake up the remote and illuminate the LED.

IMPORTANT: Observe the color of the LED **immediately** after you wake it up.

- **GREEN** indicates the batteries are good.
- **RED** indicates the batteries are getting weak and should be replaced.

The battery compartment is on the bottom of the remote. Gently press up on the battery door latching tab, then lift the cover to expose the batteries.

When replacing batteries, replace all three. Do not mix old and new batteries, or batteries from different manufacturers. Observe the pole orientation (+ -) illustration on the bottom of the battery compartment. Be sure to put the battery cover in place when you finish replacing the batteries.

CLEANING

Clean only using a cloth dampened with water and a little mild detergent. Use of solvents or hydrocarbon-based cleaners may cause permanent damage.

TROUBLESHOOTING

During house ID binding, the LED is not flashing on some wireless devices.

- **If LED is solid green before initiating house ID binding:**
The device already has another house ID. Reset it to the factory default so that it can be bound to the desired house ID. Resetting to factory defaults is described in the "I need to start over" issue.
- **If LED is solid yellow after initiating house ID binding:**
The device may be out of range of the initiating device. Add a MRR2 Wireless Repeater to boost signal range.

During scene button or paddle binding, all LEDs stop flashing before I get back to the MRH5 to press ⇅ .

The 10 minute house scene binding process timer may have expired. Restart the binding process timer by repeating steps 1 and 2 of the procedure you were using. Notice that the devices you previously included are flashing yellow; simply finish the process from where you left off.

The device LED flashes red when I press ⇅ .

The house or room configuration may be locked. Go to any house scene controller and simultaneously press ⇅ and buttons B and E until the scene controller LED flashes GREEN. (See LOCK HOUSE CONFIGURATION.)

Go back to the previously locked device and press ⇅ .

- If it flashes green or yellow, you have successfully unlocked the house configuration.
- If the device still flashes red, the configuration may be locked by a room level scene controller such as the MRD6 or MRH6. See the room scene controller instructions for information on unlocking the room configuration.

I made a configuration mistake. I need to start over.

To reset any Miro wireless device to factory default settings, press and hold - ⇅ - until the LED changes to solid yellow (approximately 10 seconds). During the process, the LED flashes yellow. When complete, it becomes solid yellow. The device can then be reconfigured, exactly like any new device.

FCC Notice

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 or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment to 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.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

Warranty Information

Manufacturer warrants its products to be free of defects in materials and workmanship for a period of five (5) years. There are no obligations or liabilities on the part of manufacturer for consequential damages arising out of, or in connection with, the use or performance of this product or other indirect damages with respect to loss of property, revenue or profit, or cost of removal, installation or reinstallation.

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Phone: 800.555.9891
www.vantagecontrols.com

MRH5

Wireless House Scene Remote

Installation Instructions



Specifications

Power Supply Three AAA Alkaline Batteries, provided
Operating Temperature 32°F to 104°F (0°C to 40°C)

Patents Pending

