



# **ZigBee Pro Honeycomb Automated Shade Operation Manual**

Revision A

12/29/2015

## TO OUR CUSTOMER

It is our mission to bring you a high quality product that fits our high standards for innovation, beauty and simplicity. To do so we have released our Second Generation QMotion® Automated Roller Shade to bring you a great shade experience. This design has many features that you may or may not have noticed that will make your shade more reliable and ready for our future development plans.

If this is your first time purchasing QMotion® shades, we invite you to view our first time setup document located at the web address below:

<http://qmotionshades.com/support.php>

### **QMotion® Customer Service**

Contact us Monday-Friday

8:00a.m. – 6:00p.m. (U.S. Central Time)

**1-877-849-6070**

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# ZigBee Coordinator / Router Programming Instructions

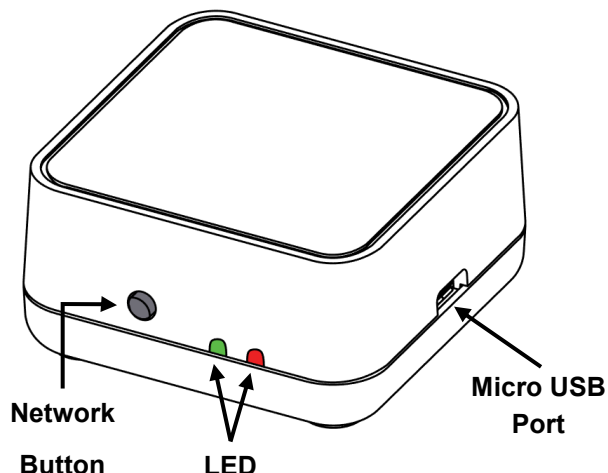
## READ AND UNDERSTAND EACH SECTION BEFORE PERFORMING REQUIRED STEPS

Refer to appropriate user manual whenever a **QMotion Coordinator/Router** is **NOT USED** to establish the coordinator network. Instructions for allowing Routers and End Devices to join the coordinator network will vary by manufacturer.

### CREAT A NEW NETWORK (Coordinator)

1. **POWER** the **COORDINATOR/ROUTER** by connecting the power supply using the **MICRO USB** cable provided
2. **PRESS** and **HOLD** the **NETWORK** button until the **GREEN LED** illuminates (**GREEN LED** illumination indicates the network is active)

This first device that establishes the network is designated as the **NETWORK COORDINATOR**



**QMotion ZigBee  
Coordinator/Router**

### JOIN AN EXISTING NETWORK (Router)

1. **PRESS** the **NETWORK** button on the **NETWORK COORDINATOR** or any **ROUTER** already connected to the coordinator network  
(**RED LED** will pulsate on all coordinator/routers present on the coordinator network when open to joining)
2. **PRESS** the **NETWORK** button on the **ROUTER** that will join the coordinator network  
(**GREEN LED** will illuminate when connected to the coordinator network)

### LEAVE A NETWORK (Router)

1. **PRESS** the **NETWORK** button on the **ROUTER** three (3) times quickly  
(**GREEN LED** will turn **OFF** when not connected to a network)

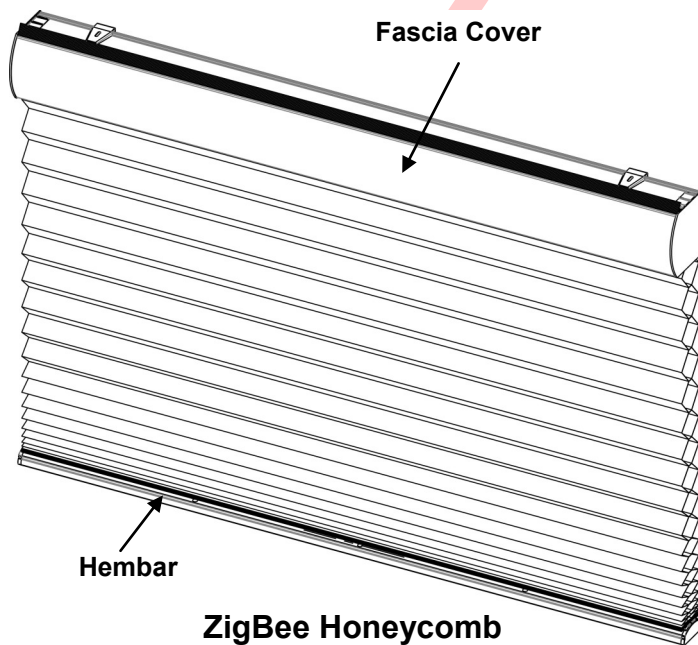
## ZigBee Honeycomb Programming Instructions

### JOIN A NETWORK (Honeycomb Shade)

1. **REMOVE** the **FASCIA** cover to expose the battery holder
2. **PULL** the **BATTERY TAB** or **POWER CYCLE** the shade  
(See **POWER CYCLE** section)
3. **TUG** the shade hembar 10-20 inches  
(Shade will **JOG** in response)

The shade is now joined to the coordinator network.

The **GREEN LED** on networked devices will **FLASH** for 1 second when a new device joins the coordinator network



**ZigBee Honeycomb  
Shade**

# ZigBee Remote Programming Instructions



**IMPORTANT**

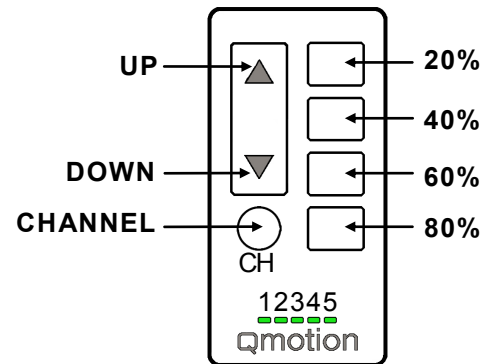


## READ AND UNDERSTAND EACH SECTION BEFORE PERFORMING REQUIRED STEPS

Most programming instructions start with the shade in the upper limit position. If a remote is paired to the shade, pushing the **UP** button will send the shade to the Upper Limit Position. If no remote is paired to the shade, remove the Honey-comb fascia, slide out the motor and battery holder and push the shade up manually. Replace the motor and fascia. **JOG** is a short up then down shade movement.

### FIRST TIME SETUP

1. **INSTALL SHADE** following appropriate installation instructions
2. Remove battery enclosure cover and pull the plastic battery tab
3. On power-up the shade automatically enters **PAIRING / LEARN MODE**
4. Use a paperclip to **PRESS** the **PROGRAM** button on back of the remote  
(The channel LEDs will scroll back and forth when in program mode)
5. **PRESS** and **HOLD** the **UP** button until Shade moves downward



Front

### PAIRING / LEARNING NEW REMOTES (or Channel)

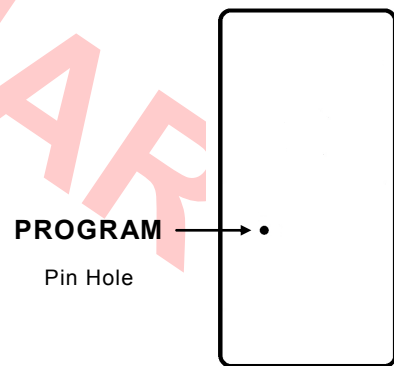
(Must start using paired remote with shade at Upper Limit Position)

**STEPS 1- 3** use paired remote

1. Use a paperclip to **PRESS** the **PROGRAM** button on back of the remote  
(The channel LEDs will scroll back and forth when in program mode)
2. **PRESS** and **HOLD** the **UP** button until Shade moves downward
3. **TUG** the shade **6-10 inches** (Shade will **JOG** in response)

**STEPS 4- 6** use unpaired remote

4. **PRESS** the **CHANNEL** button until desired Channel is lit by **GREEN LED**
5. Use a paperclip to **PRESS** the **PROGRAM** button on back of the remote  
(The channel LEDs will scroll back and forth when in program mode)
6. **PRESS** the **UP** button (Shade will move to Upper Limit Position in response)



Back



**IMPORTANT**



Lower Limit Position must be set prior to using the **PERCENT** positions (**20%, 40%, 60%, 80%**). These positions are calculated based on the Lower Limit Position of the shade.

### SETTING UPPER AND LOWER LIMITS / LEARNING A NEW POSITION

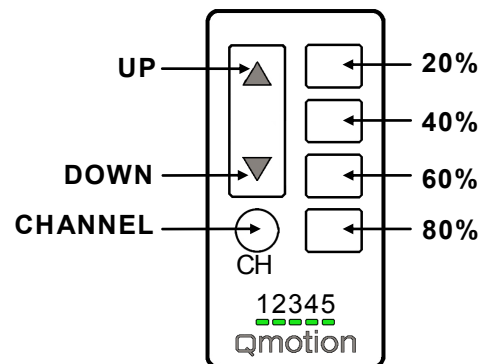
1. **PRESS** the (**UP, DOWN, or PERCENT**) button that will be programmed (Shade will move to selected position)
2. **PRESS** and **HOLD** the same (**UP, DOWN, or PERCENT**) button until shade **JOGS**
3. **TUG** shade **6-10 inches** (Shade will **JOG** in response)
4. **ADJUST** shade to desired position ( Use **UP/DOWN** buttons or manually adjust shade by hand)
5. **PRESS** and **HOLD** the same (**UP, DOWN, or PERCENT**) button (Shade will **JOG** when learned)

**READ AND UNDERSTAND EACH PROGRAMMING SECTION BEFORE PERFORMING REQUIRED STEPS**

**DELETE / UNLEARN A REMOTE (or Channel)**

(Shade at Upper Limit Position)

1. Use a paperclip to **PRESS** the **PROGRAM** button on back of the remote  
(The channel LEDs will scroll back and forth when in program mode)
2. **PRESS** and **HOLD** the **UP** button until Shade moves downward
3. **TUG** the shade **6-10 inches** (Shade will **JOG** in response)
4. **PRESS** the **CHANNEL** button until desired Channel is lit by **GREEN LED**
5. Use a paperclip to **PRESS** the **PROGRAM** button on back of the remote  
(The channel LEDs will scroll back and forth when in program mode)
6. **PRESS** the **DOWN** button  
(Shade will **JOG**, move to Upper Limit Position, and then **JOG** again)

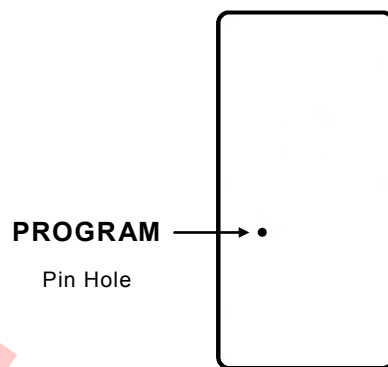


Front

**SPECIAL LEARN COMMAND**

(Must use an unpaired remote with shade at Upper Limit Position)

1. Use a paperclip to **PRESS** the **PROGRAM** button on the back of the remote  
(The channel LEDs will scroll back and forth when in program mode)
2. **PRESS** and **HOLD** the **CHANNEL** button until the shade moves
3. **TUG** the shade **6-10 inches** (The shade will **JOG** in response)
4. Use a paperclip to **PRESS** the **PROGRAM** button on the back of the remote  
(The channel LEDs will scroll back and forth when in program mode)
5. **PRESS** the **UP** button  
(The shade will travel to the Upper Limit Position to confirm learn command)



Back

**BATTERY CHANGE / POWER CYCLE**

1. **REMOVE** the **FASCIA** cover to expose the battery holder
2. **REPLACE** batteries with a new set of fresh D-Cell Alkaline batteries
3. **POWER CYCLE** is performed by removing a single battery, and then tugging the shade 5 inches
4. **INSERT** batteries and **REPLACE FASCIA** cover

**FACTORY (MASTER) RESET** (Will remove **ALL** paired remotes, **EXCEPT** remote and channel used during reset)

(Shade at Upper Limit Position)

1. Use a paperclip to **PRESS** the **PROGRAM** button on back of the remote  
(The channel LEDs will scroll back and forth when in program mode)
2. **PRESS** and **HOLD** the **DOWN** button until shade moves downward
3. **TUG** the shade **6-10 inches** (Shade will **JOG** in response)
4. Use a paperclip to **PRESS** the **PROGRAM** button on back of the remote  
(The channel LEDs will scroll back and forth when in program mode)
6. **PRESS** the **UP** button (Shade will move to Upper Limit Position in response)

## Glossary

### **Fascia**

The removable covering that hides the internal shade components and battery holder.

### **Long Tug**

Tug shade hembar more than 2 inches. A long tug will cause the shade to stay at the position it was tugged to. Two long tugs done within 10 seconds of each other will send the shade to the upper limit position.

### **Micro Tug**

Tug shade hembar up to 1 inch. A micro tug will send the shade to the next highest position

### **Short Tug**

Tug shade hembar 1 to 2 inches. A short tug will send the shade to the upper limit position

### **Hardstop**

A hardstop is the mechanical means by which the shade identifies the maximum upper limit.

### **ZigBee Coordinator**

The coordinator establishes the network, and there is exactly one per network. (Cannot be battery powered)

### **ZigBee End Device**

End Devices cover a wide range of products including QMotion Battery Operated Shades. These devices do not relay data, but consume less power allowing for battery operation.

### **ZigBee Router**

Routers act as intermediate nodes within the network, relaying data between devices. Routers also act as range extenders to the network. (Cannot be battery powered)

## **FCC**

Warning: Changes or modifications to this device not expressly approved by QMotion® Incorporated -Advanced Shading Systems could void the user's authority to operate the equipment.

NOTE: 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 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.

### **RF Exposure**

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

## **INDUSTRY CANADA**

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes: (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

### **RF Exposure**

Cet équipement est conforme aux limites d'exposition aux radiations dans un environnement noncontrôlé. Cet équipement doit être installé et utilisé à distance minimum de 20cm entre le radiateur et votre corps. Cet émetteur ne doit pas être co-localisées ou opérant en conjonction avec tout autre antenne ou transmetteur.

## **Revision History**

Revision A - 12/29/15