

## Qadvanced Roller Shade ZigBee HA1.2 Programming Instructions

**IMPORTANT:** Read and understand each section before performing required steps.

Refer to appropriate user manual whenever a QzHub is **not used** to establish the ZigBee network. Instructions for allowing Range Extenders and End Devices to join the ZigBee HA1.2 network will vary by manufacturer.

### Create a New Network (QzHub)

1. **Install QMotion QZ App** for ZigBee HA1.2  
(Visit the Google Play / iOS App Store to download the app.)
2. **Install Range Extenders** following application instructions.
3. **Install Shades** following application instructions.  
Be sure to follow QMotion Building a ZigBee Mesh Network Best Practices as referenced on [QMotionShades.com/support-center](http://QMotionShades.com/support-center), and in QMotion trainings.

### Add Device to Network (Shade/Range Extender)

1. Follow QMotion QZ App instructions for adding devices to the network.
2. Using the QMotion App, when a shade is selected it will **jog** to identify itself. Once the shade jogs, **tug the hembar 6-10 inches**. (Shade will jog in response.)

### Add Remote to Network (QdR2 Remote)

1. In the QMotion QZ App, go to **Add Devices** page and scan for devices.
2. **Pull battery tab** from the remote and **press any button**. (All 5 LEDs will blink when the remote is added.)

### Pairing Remote to Roller Shade

**NOTE:** Both shade and remote must be connected to the network before they can be paired together

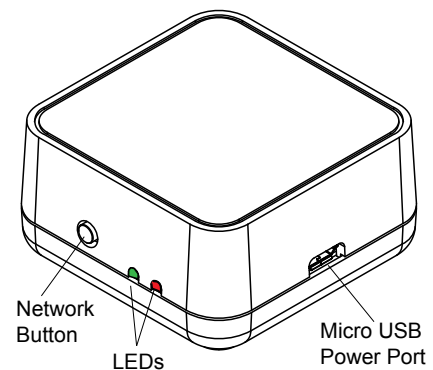
1. Use a paperclip to press the **Program** button on the back of the remote. (Channel LEDs will scroll back and forth.)
2. **Press and release the Up** button. (Shade will jog in response)
3. **Tug the hembar 6-10 inches**. (Shade will jog and move to the Upper Limit.)

### Add Range Extender to ZigBee Network

1. In the QMotion QZ App, select **Add Device** and then scan for new devices.
2. While the QMotion App is scanning for new devices, **press and release the Network** button on the Range Extender.
3. Once the Range Extender joins the ZigBee network, the green LED will blink to show it has joined a network.



**QzHub**  
ZigBee Gateway



**Range Extender**  
ZigBee Router

## IMPORTANT

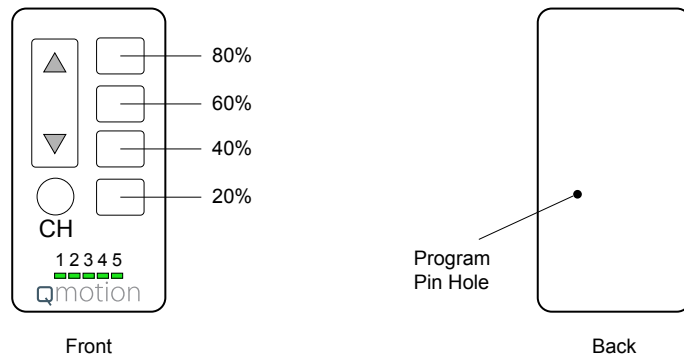
Lower Limit Position must be set prior to using the **preset** positions (20%, 40%, 60%, 80%). These positions are based on the Lower Limit Position of the shade. When learning new positions, the button currently being programmed (after Step 3) will not send commands to the shade. After Step 5 all buttons resume full functionality.

**Example 1:** When learning a new Upper Limit Position, the UP button is semi-disable. Only by pressing the UP button 3 times will the shade move to the up position (or manually roll the shade up by hand).

**Example 2:** When learning a new Lower Limit Position, the DOWN button is disabled. The shade can still be adjusted using the UP button (or manually roll the shade by hand).

## Setting Upper and Lower Limites / Learning a New Position

1. **Press and release** the (UP or DOWN) button that will be programmed. (Shade will move to selected position.)
2. **Press and hold** the same (UP or DOWN) button until the shade jogs.
3. **Tug** shade 6-10 inches. (Shade will jog in response.)
4. **Adjust** shade to desired position. (Manually roll shade by hand if necessary.)
5. **Press and hold** the same (UP or DOWN) button. (Shade will JOG when learned.)



## QdR2 Remote

### Unlearn a Remote From Shade

(Shade at Upper Limit)

1. **Press and release** the CHANNEL button to select the channel currently paired to the shade.
2. Use a paperclip to **press** the PROGRAM button on back of the remote.
3. **Press and release** the DOWN button. (Shade will jog in response.)
4. **TUG** the shade 6-10 inches. (Shade will JOG and move to the Upper Limit.)

When unrolling the shade to expose battery cover, the shade will try to roll upward. Hold the fabric roll tube firmly in place to resist the initial upward movement, then continue to unroll the fabric roll tube to expose battery cover.

### Battery Replacement

1. **Press and release** the DOWN button. (Shade will move to Lower Limit Position.)
2. **Unroll** the Fabric Roll Tube to expose the battery cover (see information above).
3. **Remove** battery cover and replace with new D cell alkaline batteries **Replace** battery cover.
4. **Press and release** the UP button to roll fabric back onto the tube.

## **IMPORTANT**

### **Tug Command Mode**

Tug Command Mode will allow certain features to be performed manually without a learned remote. **Read the following instructions completely before starting the procedure.** Inputs from the user are time sensitive. If the shade times out before entering a tug command, return the shade to the Upper Limit Position and begin the procedure over.

#### **To Enter Tug Command Mode**

1. Start with the shade at the Upper Limit Position.
2. Perform two consecutive 6 inch tugs, **waiting 1 second** between tugs. (Shade will **jog**, then travel up, settling a few inches below the Upper Limit Position).  
The shade is now in Tug Command Mode: There is a 10 second opportunity to enter a tug command before the shade will leave Tug Command Mode and resume normal operation.
3. Once the shade is in Tug Command Mode, perform additional 6 inch tugs to select a command option. After each tug, the shade will return to its starting position. Once the shade returns to its starting position, **wait 1 second** before performing the next tug (a brake is engaged during this 1 second wait, making the shade difficult to tug). After the tug sequence is performed (1-4 Tugs), **wait 5 seconds** and the shade will accept the tug command.

- 1 Tug - Join ZigBee Network / Identify
- 2 Tugs - Set Lower Limit Position
- 3 Tugs - ZigBee Network Reset
- 4 Tugs - Factory Master Reset

#### **Join ZigBee Network / Identify**

This command will allow the shade to join an open ZigBee network. If the shade is not connected to a ZigBee network, the shade will “micro-jog” while trying to find a network. Once a ZigBee network is found, the shade will seek the Upper Limit Position hardstop. If a ZigBee network is not found after 1 minute, the shade will stop “micro-jogging” and wait for further inputs. If the shade “micro-jogs” but does not find a network, make sure the ZigBee network coordinator (QzHub/Range Extender) is open for devices joining the network.

If the shade is already connected to a ZigBee network, the shade will continually “long jog” up and down for 2 minutes. Manual operation of the shade will not be available during this operation. **Wait until the 2 minute “long jog” is complete** to proceed. If the shade “Identifies” on a network, but is unable to pair to a remote, perform the ZigBee Network Reset tug command and then connect the shade to the correct ZigBee network.

#### **Set Lower Limit**

This command will allow the Lower Limit Position to be adjusted without a remote. The shade will travel to the current Lower Limit Position and then jog. Manually adjust the shade to the desired Lower Limit Position. To set this new position as the Lower Limit Position, **leave the shade to idle for 1 minute**. After the 1 minute has passed, the shade will jog to confirm the new Lower Limit Position.

#### **Zigbee Network Reset**

This command will remove the shade from its current ZigBee network. This command will also delete any groups/scenes that are stored on the shade. Tugging the shade after a ZigBee Network Reset will cause the shade to “micro-jog” and search for an open ZigBee network.

#### **Factory Master Reset**

This command will perform a ZigBee Network Reset as well as restore the Upper & Lower Limits Positions and Intermediate Set-points to their default values. Tugging the shade after a Factory Master Reset will cause the shade to “micro-jog” and search for an open ZigBee network.

## FCC

**Warning:** Changes or modifications to this device not expressly approved by QMotion® 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.

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.

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## INDUSTRY CANADA

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

Conformément à la réglementation d'Industrie Canada, le présent émetteur radio peut fonctionner avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émetteur par Industrie Canada. Dans le but de réduire les risques de brouillage radioélectrique à l'intention des autres utilisateurs, il faut choisir le type d'antenne et son gain de sorte que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne dépasse pas l'intensité nécessaire à l'établissement d'une communication satisfaisante.

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.

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### QdR2 REMOTE

Model: QZR-ZIG2400  
FCC ID: 2ABLX-ZIG24DECO  
IC: 8832A-ZIG24DECO

### ROLLER SHADE

Model: QMRS-240Z  
FCC ID: 2ABLX-240Z  
IC: 8832A-240Z

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