

NanoMote Quad user guide.

Modified on: Thu, 14 Mar, 2019 at 4:05 PM

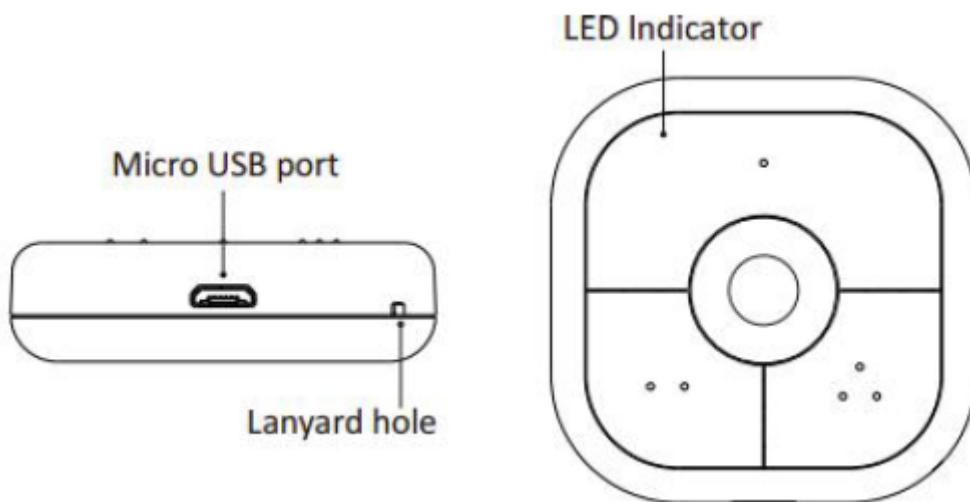
Aeotec NanoMote Quad.

Aeotec NanoMote Quad has been crafted to control connected lighting using **Z-Wave Plus** (<http://aeotec.com/z-wave-plus>), as a Z-Wave S2 device. It is powered by Aeotec's **Gen5** (<http://aeotec.com/z-wave-gen5>) technology. You can find out **more about NanoMote Quad** (<https://aeotec.com/small-z-wave-remote-control>), by following that link.

To see whether NanoMote Quad is known to be compatible with your Z-Wave system or not, please reference our **Z-Wave gateway comparison** (<http://aeotec.com/z-wave-gateways>), listing. The **technical specifications of NanoMote Quad** (<https://aeotec.freshdesk.com/solution/articles/6000184697-nanomote-quad-technical-specifications->), can be viewed at that link.

Familiarize yourself with your NanoMote Quad.

1. NanoMote Quad
2. Micro USB port
3. Lanyard Hole
4. LED Indicator



Features:

1. Z-Wave Plus certified for good compatibility (500 series chipset)
2. Z-Wave S2 system
3. Support remote control anywhere and anytime
4. Program up to 4 customized scenes
5. The battery is rechargeable and replacable, will run for three months per charge
6. Support low battery alarm with buzzer
7. Support Child Lock function
8. Supports OTA firmware update

Safety information.

Please read this and other device guides carefully. Failure to follow the recommendations set forth by Aeotec Limited may be dangerous or cause a violation of the law. The manufacturer, importer, distributor, and / or reseller will not be held responsible for any loss or damage resulting from not following any instructions in this guide or in other materials.

WallMote Quad is intended for indoor use in dry locations only. Do not use in damp, moist, and / or wet locations.

Keep product and batteries away from open flames and extreme heat. Avoid direct sun light or heat exposure. Always remove all batteries from products that are being stored and not used. Batteries may damage the appliance if they leak. Ensure correct polarity when inserting the batteries. Improper battery use may damage the product.

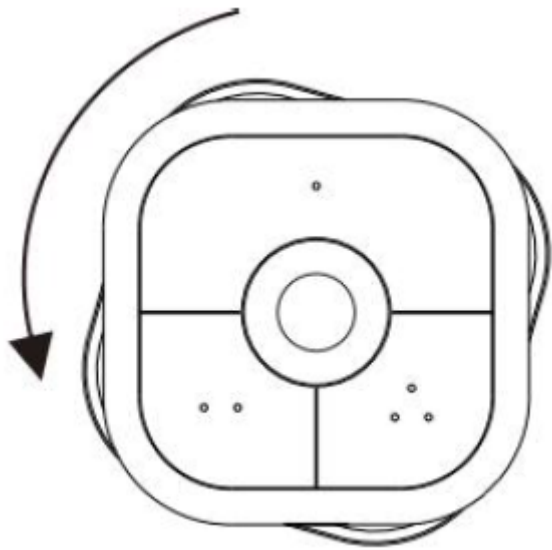
Do not apply permanent power. Do not charge for more than 3 hours at a time.

Quick start.

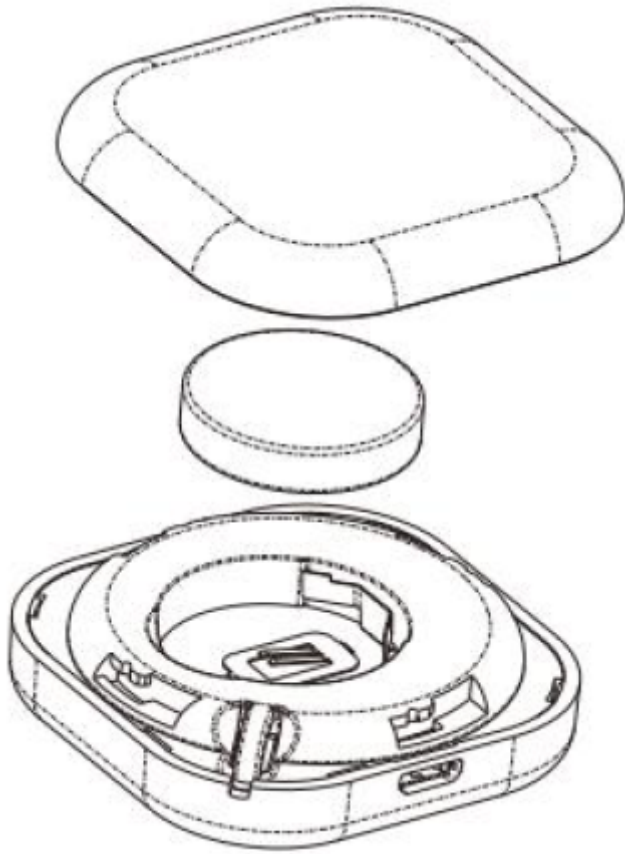
Power up your NanoMote Quad.

Initially NanoMote will be unpowered with its battery blocked by a plastic cover, this plastic cover must be released to initially power up your NanoMote.

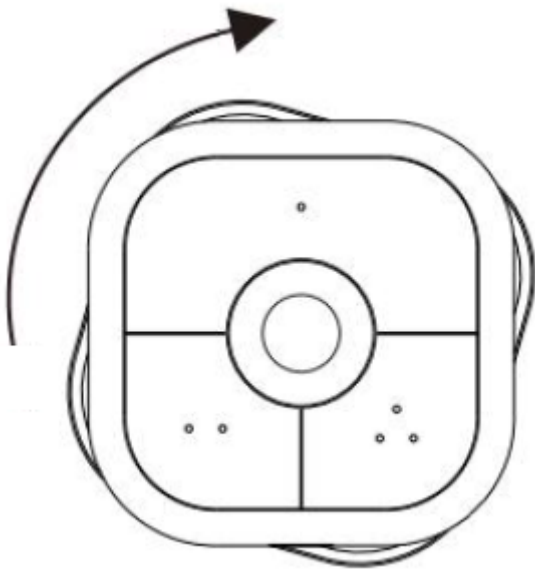
1. Open up NanoMote cover by twisting the back cover counter-clockwise to unlock.



2. Remove the battery and plastic cover
3. Place battery back into battery holder



4. Place the backcover back on then twist the back cover clockwise to lock the battery in place.



Adding your NanoMote Quad to your Z-Wave network.

With your NanoMote Quad now powered, it's time to add it to your Z-Wave network.

1. Place your Z-Wave primary controller/gateway enter into pairing/inclusion mode.
2. Take your NanoMote near to your primary controller.
3. Double click the NanoMote button (can be any button), the LED will blink rapidly with a white color.
4. If your NanoMote has been successfully added to your Z-Wave network, its white LED will be solid for about 10 seconds, then flash green to indicate it is awake. If the adding was unsuccessful and the red LED will be solid for 2 seconds and then off, repeat the above steps.
5. If your NanoMote does not go to sleep on its own, press and hold for 2 seconds (or until LED turns orange) then release its button to put your NanoMote to sleep.

With your NanoMote Quad now working as a part of your smart home, you'll be able to configure it from your home control software or phone application. Please refer to your software's user guide for precise instructions on configuring the NanoMote Quad to your needs.

Advanced Functions.

Send a wake up notification.

In order to send your NanoMote Quad new configuration commands, OTA, or receive other commands from your Z-Wave controller or gateway, it will need to be woken up.

Enable Wakeup:

1. Press and hold button (any button) for 5 seconds or until LED turns to a green color

LED will change from:

Orange

Green //at 5 seconds.

2. Release the button and the LED will flash green rapidly to indicate it is in an awake state.

Disable Wakeup:

1. Press and hold button (any button) for 2 seconds or until LED turns to a orange/red color
2. Release the button and the LED should be deactivated

Child Lock NanoMote.

You can use the Child Lock function to disable NanoMote control over your devices and scene triggers.

You can toggle child lock on/off by:

1. Press and hold NanoMote button (can be any button)

LED will change from:

Orange

Green

Red //at 10 seconds of holding

2. When LED turns red (after 10 seconds), release its button.
3. Tap button again while second Red LED is illuminated (you'll have 2 seconds to do so), if successful, the red LED will flash for 1-2 seconds.

Association table of the control buttons.

The NanoMote Quad supports 9 association groups, all control buttons can activate the configured scenes via sending the Central Scene Notifications to primary controller/gateway (In association group 1). In order to use Association Groups, make sure that your gateway or software can allow you to set these (ie: **Vera Group Association Setup** (<https://aeotec.freshdesk.com/solution/articles/6000162165-using-wallmote-quad-with-vera-ui7>)), in order to do so, please refer to your gateways manual on setting group association. This will allow the NanoMote Quad to directly communicate ON/OFF or Dimming commands to your devices without going through your gateway.

Every control button also can send the control commands to control the devices in the other association groups, see the table below:

Button ID	Group ID	Action & notification
Any button	1	Press: Central scene notification (Key Attributes=0) Hold: Central scene notification (Key Attributes=2) Release: Central scene notification (Key Attributes=1)
Button 1	2	Press: Basic Set Hold: Reserve Release: Reserve
	3	Press: Switch multilevel set Hold: Multilevel start level change Release: Multilevel stop level change
Button 2	4	Press: Basic Set Hold: Reserve Release: Reserve
	5	Press: Switch multilevel set Hold: Multilevel start level change Release: Multilevel stop level change
Button 3	6	Press: Basic Set Hold: Reserve Release: Reserve
	7	Press: Switch multilevel set Hold: Multilevel start level change Release: Multilevel stop level change
Button 4	8	Press: Basic Set Hold: Reserve Release: Reserve
	9	Press: Switch multilevel set Hold: Multilevel start level change Release: Multilevel stop level change

Testing Health Connectivity.

You can determine the health of your NanoMotes connectivity to your gateway using a manual button press, hold, and release function which is indicated by the LED color. This will help you maximize the battery life based on the health of your NanoMote communication to your gateway.

You'll be able to see a maximum battery use of 3 months of use over green LED indication listed below.

1. Press and hold the NanoMotes button (can be any button) for 20 seconds.

LED will change from:

Orange //2 seconds

Green //5 seconds

Red //10 seconds

Pink //15 seconds

2. Release the button on the Pink LED status. It will remain Pink for 2 seconds
3. With that 2 second of releasing its button, tap its button again to start the health detection process.
4. The LED will blink pink rapidly, once it finishes the health test, the LED will change to 1 of 3 colors for 2 seconds:

Red = Bad Health

Blue = Moderate Health

Green = Great Health

Note: This function will only work if paired to a Z-Wave network.

Your NanoMote Quad's battery.

Your NanoMote Quad has a internal rechargeable LIR2450 3.6V battery that will allow you to charge it when it is in low battery power. The charger's output should be a micro USB terminal with the specification of output DC 5V and at least 1A.

The LED color is red during the charging process, and it will turn to green if the charging is finished.

Notes: If the battery health begins to degrade, you can always purchase a new LIR2450 3.6V Battery to replace the one that comes with this unit.

Removing your NanoMote Quad from a Z-Wave network.

Your NanoMote can be removed from your Z-Wave network at any time. You'll need to use your Z-Wave network's main controller/gateway. To do this, please refer to the part of their respective manuals that tell you how to remove devices from your network.

1. Put your primary controller into device removal mode.
2. Take your NanoMote near to your primary controller.
3. Double click the NanoMote button (can be any button), the LED will become a solid green color.
4. If your NanoMote has been removed from your Z-Wave network, its LED will begin cycling through rainbow colors.

Manually factory reset NanoMote.

If you find that your gateway is no longer functioning and you need to pair your NanoMote to a new Z-Wave gateway, perform the steps below to manually factory reset your NanoMote. We recommend that you perform the Removal process instead if your gateway that NanoMote is connected to is still functioning.

To manually factory reset, follow these steps:

1. Press and hold the NanoMote button (can be any button) for 20 seconds.

LED will change from:

Orange

Green

Red
Pink
Red

2. Release the button on the second Red LED status. It will remain red for 2 seconds
3. Tap button again while second Red LED is illuminated (you'll have 2 seconds to do so).

Advanced Parameter Configurations.

Not all gateways will allow you to further configure your Z-Wave devices, but in the case that your gateway does allow it, the NanoMote Quad has some available parameter configurations that will allow you to configure it further to your liking.

Parameter 32 Level of low battery.

Available settings: 10-50 (10% - 50%)

Default setting: 20 (20%)

Parameter size: 1[byte]

Parameter 42 Setting the duration value of the command switch multilevel.

Available settings: 0-255

Default setting: 255

Parameter size: 1[byte]

Parameter 43 Enable/disable the buzzer alarm when battery is running low.

0 - Disable.

1 –Enable.

Default setting: 0

Parameter size: 1[byte]

Further steps for different Z-Wave Gateways.

Most gateways will have specific steps to use NanoMote Quad via group association (direct control), while others will have different steps to use its scene triggers through the gateway directly for more advanced controls. Below are the known steps required for the listed gateways.

1. Currently none listed at this time. This section will update later in the future.

If your gateway is not listed here, please contact support to see if there are possible steps that can be used on your gateway to make it work.

