Solar Animal Repellent
USER MANUAL

RB-101

Broox®

Thanks for choosing Broox animal repellent! Please make a careful study of the manual and keep it for future reference. Solar energy is used for charging the device battery. After initial charging via USB cable the device will get charged via solar energy when it is exposed to sufficient sunlight. The Passive Infrared sensor (PIR) detects motion and triggers the ultrasonic speaker. Animals' ears are sensitive to the produced ultrasonic sound which makes them to get scattered. Please kindly contact Broox costumer service (contact@raymondbroox.com) and mention the kinds of animals you want to repel to receive useful tips.

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Please download the catalogue via above QR code

Important tips

1. Make sure that the batteries work well. It is strongly recommended that the device get charged before the first use. And the most effective way for reactivating the batteries is as follow; charge the device via the USB cable which is inside the package for 6 hours, unplug the device and repeat it for another 6 hours, unplug it and repeat for the third time.
2. Next step is finding a proper place for installing the device as it plays a great role in the result you get from the repellent. Consider the following points when choosing the location of the device.

   a. Avoid installing the device in shadow, otherwise the repellent does not charge adequately during the day and the number of times for charging the device via USB cable will increase.
   b. Consider a place for the repellent where the animals tend to enter your area.
   c. There should not be anything in front of the repellent as the motion detector should be able to detect the animals' movement.
   d. Based on the kind of the animal, sometimes it is better to install the repellent above ground level (for bigger and taller animals like deer) or put it close to the ground for kinds of animals which move close to the ground or even go under the ground. In both cases you should make sure that the motion detector is able to detect the motion of the animal.

3. After installing the device, the proper mode should be chosen based on the kind of the animals you want to repel. This device provides 5 different modes. Each of these modes get activated when the PIR detects a motion.
4. Modes 1, 2 and 3 provides just ultrasonic sound, in different ranges of frequencies.

5. Mode 4 contains flashing light as well as an alarm sound that get activated simultaneously when a movement is detected by PIR, which is the most effective way for repelling the animals.

6. Mode 5 produces the ultrasonic sound and flashing light at the same time.

7. Note that some animals may get used to the emitted ultrasonic sound after some time, so make sure to change the device mode every once in a while (mode 4 or 5 is recommended), and set it in previous mode again after one or two days.

8. Notice that different kinds of animals may show different reactions to one mode. So, if you see a mode does not work for you, change the mode, and try another one. You will find the best mode after some days.

9. The IP code of the repellent is IP44. It means that this repellent works properly under normal rainfalls. If you have rainstorm, please do not expose the device to heavy rain. Remove it and reinstall it after the heavy rain ends.

10. Having patience is the key to get the suitable result from these kinds of repellents. It usually takes 2-4 weeks to notice the significant difference and perfect operation of them.

Operation

» The operation of this kind of repellent is based on producing ultrasonic sound. different sound frequencies can be generated by the device whenever an animal enters the PIR sensor range, then the animal feels uncomfortable and runs away from the area. The sound frequencies are adjustable based on the animal species to repel.

» A strong flashing LED is another feature which has been considered for this device. This also gets activated when the motion detector detects a motion and causes animals to get scared and flee.

» For scaring wild animals, an alarm sound has been added on mode 4 of the device.
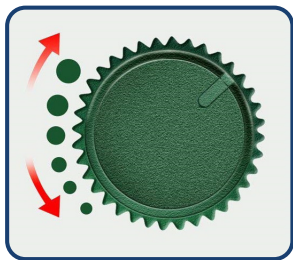
SET UP

There are two knobs on the device:

- Sensitivity knob (left knob)
- Frequency knob (right knob)

"Sensitivity" knob helps you to adjust the impact distance of the ultrasonic waves. By turning the knob clockwise, the range of protection of the device will increase.
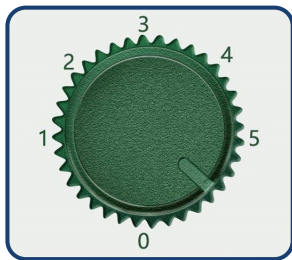
"Frequency" knob is used for frequency selection. By turning the knob clockwise, the frequency will increase.

 Frequency ranges per mode, comes as follow:

- 0: OFF
- 1: 13.5KHZ-19.5KHZ for repelling animals like   mice, rats, dogs, foxes, martens etc.
- 2: 19.5KHZ-24.5KHZ for repelling animals like cats, raccoons, badgers, skunks etc.
- 3: 24.5KHZ-45.5KHZ for repelling animals like bats, birds, rodents etc.
- 4: Alarm and strong red LED flashing lights to scare wild animals.
- 5: All functions together (mode 1, mode 2, mode 3) along with strong flashing light.
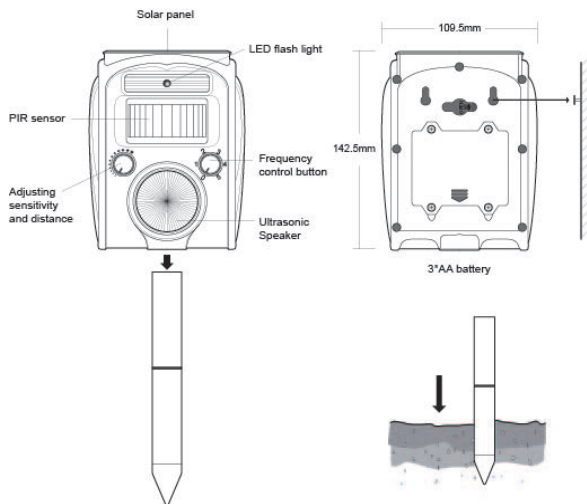

Sensitivity Knob   **Frequency knob**

Assemble and Installation

1. Charge the device via the USB cable inside the package as follow. Battery is included. Charge the repellent for six hours, unplug the device and plug again and charge it for another 6 hours. Repeat it for the third time.

2. Consider a suitable place for the repellent regarding the points mentioned in Important Tips section. The repellent can be installed in a flowerbed, on the fence, against the wall, etc. for bigger animals it is better to put the repellent above ground level. The repellent should be set towards the area which should get protected. As a reminder, the solar panel of the repellent should be exposed to enough sunlight and the solar panel on the top of the device should not be covered.

3. If the repellent is going to be mounted in the ground, insert the rod carefully into the ground. It is suggested first dig a hole and put the device in the ground to prevent any kind of damage. Note that 12 cm of the rod should be out of the ground.

* Please send Email to contact@reymonbroox.com for further guidance and advice.

Solar panel

LED flash light

PIR sensor

Frequency control button

Adjusting sensitivity and distance

Ultrasonic Speaker

109.5mm

142.5mm

3*AA battery

- Assemble and Installation

Technical Specification

» Charging Light Indicator: While charging the repellent via the USB cable the Indicator Light is RED, and it turns BLUE when the device is fully charged.

» Green LED Light: Turns on whenever the repellent detects a motion and gets activated

» Infrared Sensor Angle: 110 degree

» Detection Range: The repellent can detect the motion from 6-8 meters (20-25 Feet) depending on the size of the animal. (the bigger the animal, the larger range will be protected by the repellent.)

» Power Supply: Solar power + 3 X Ni-mH AA rechargeable batteries, or 9V, 1A adapter. A USB cable can be found inside the package.

» Some notes to be considered:

» Turn off the repellent before charging it to prevent any damage to the device. Furthermore, when the device is getting charged by USB the PIR sensor will not work, even if the device is turned on.

» If it is some cloudy or rainy days in a row, the device will need to get charged via the USB cable.

ULTRA BRIGHT FLASH

INFRARED INDUCTION LAMP

ULTRASONIC SPEAKER

2 Hanging Holes

Adaptor port for USB cable or DC adaptor

3xAA rechargeable batteries

Silicone Waterpoof Ring inside

- Technical Specification

Battery Considerations

1. In case the repellent is not going to be used for a long time (more than 1 month), the batteries will discharge. To reactive the batteries, they must be charged 3-5 times before reprocessing the repellent.

2. When the batteries that have been used for a long time and get fully charged in a short time, it means that they need to be changed with new batteries.

3. If the batteries need to be replaced, the batteries must be 3× Ni-Mh or Ni-Cad AA, 1.2 V rechargeable batteries model and should be placed in battery compartment. Better quality and more capacity of batteries lead to better performance of the repellent.

4. Rechargeable batteries need to be recycled because they contain heavy metals that can be hazardous to the environment. For recycling rechargeable batteries find recycling facilities use Earth911's Recycling Search or call your local solid waste district or city hall. Also, some home improvement or office stores often host a drop box from an organization like Call2Recycle.

Caution

1. The frequency range generated by the device may be audible by some individuals while it may not be recognizable to some others. There is no harm for human or animals' bodies in either way. Just for providing comfort and avoiding any inconvenience for children, try not to install the repellent in children's playground.

2. Do not cover the PIR sensor.

3. Use damp, soft cloth and mild soap diluted with water, to clean the repellent. Do not use harsh chemicals or abrasive cleaning agents that may damage the device.

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