



Invisible Infra Red Flash Booster

Model: QC-8044

Part No: IRX-22BW

(VER.20140908)



**Wireless Booster Model:
QC-8044 / IRX-22BW**

Main Features:

- *Upgrade any visible scouting camera to be totally invisible.
- *Light source is placed more closely to the target for much clear pictures
- *Controllable more boosters in same field to increase illumination.

Product Description

Product Description

Thank you for purchasing the **WildSpot Flash** product. This WildSpot Wireless Black infrared Flash booster IRX-22BW can enhance the quality of the night pictures and videos from your existing invisible black IR trail camera. It support all kinds of IR night vision scouting cameras to increase a few times of illumination depend on how many the IR boosters to be equipped. Just one RF transmitter with a gooseneck IR sensor is used for detecting the IR signal from the camera and trigger unlimited same model of flasher units around 100 feet to light-up synchronously. It means a several boosters are available to be placed in difference places in order to increase illumination from multi-angles to the target for getting every perfect image or video clip at night. For more variant applications for advance users, it is also ideal for most of experienced users who want to upgrade their ordinary visible IR camera to become a totally black IR camera instantly. Two accessory parts are provided for shielding the visible light from camera and provide a way to detect a moment of camera capturing. After a simply decoration processing, human will not see any visible IR Red glow and this invisible IR booster will be instead of the IR glow source on your camera to work together at night. So, it is the best partner with a night vision camera for every one. It is compatible to work fine with any other general IR devices like CCTV monitor

Kit List

This package kit is including the accessory parts as below:

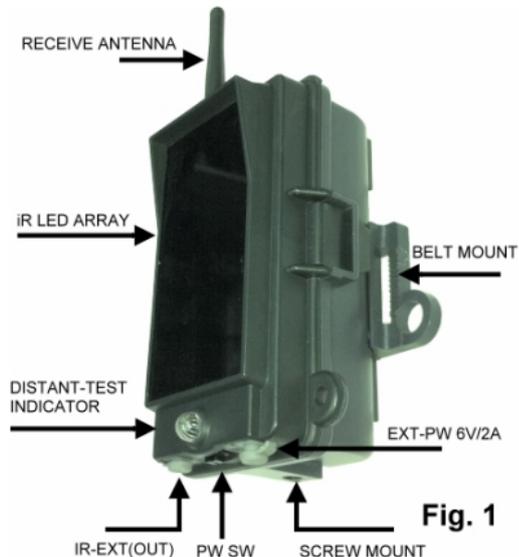


1. Main unit x1 pc
2. Transmitter x1 pc
3. Antenna x2 pc (For main unit x1; transmitter x1)
4. Battery 23A 12V x1 pc (Optional Accessory)
5. Belt x1 pc
6. Sensor Holder x1 pc
7. Shielding Sheet x2 pc
8. Instruction manual x1 pc

Preparation

Main Booster Unit:

The power is required 4 pcs good quality D cell Alkaline



batteries for the best result in operation. Do not try to mix old and new batteries together. After installing batteries according to the polarity mold on the cabinet into the compartment, push the **BAT-Check** button once and see if the Bat-Test LED does work in order to verify the battery polarity to be correctly. (Fig. 2)

The code switch is always at the factory default setting and is required to pair with a same coding shown on the transmitter. Do not try to change the default coding either on main unit or transmitter until you will be familiar to use the system.

The booster is made with water-proof material and available to mount on a tree or any outdoor applications with the attached belt as the installation method shown below. The light window must always be required toward to the scouting target by adjusting the booster unit angle. An easy way to do that while a booster is mounted on tree already,



Fig.3

you try to add a proper short stick behind the booster and adjust it's position to the belt obversely.

If you will use a booster for indoor security application, it is also available to be upside down mounted on a ceiling with a popular mounting accessory. But any upside down installation methods will NOT be applied for OUT-DOOR used.

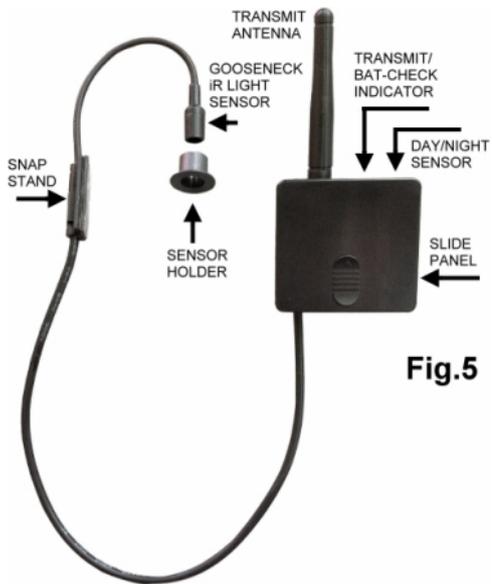


Fig.5

Transmitter Setup

See the out-look with IR sensor at Fig.5. It will compatible with all of general night vision scouting camera. It is recommended to place the camera and booster apart not more than 50 feet which a consideration about an animal target away from the camera will be too smaller in case out of this range. Then, just snap the transmitter (Fig.3) on belt

and place it near to the side where closely to the IR light source of camera. Press the TEST button and see the TRANSMIT light must be fully ON. It means the battery status to be good and a RF trigger signal is sending to

booster for self-testing. For a multiple booster application, only one transmitter will be required, other rest transmitters will not be used and keep them in the packing. Remember to uninstall a battery from any unused transmitter. Just pay attention to the coding on all boosters is exactly same as the transmitter.

Connection for Difference Devices

There are a several applications that this booster will support. Please refer the connections as below:

1. Work with an Invisible (Black) IR Camera: (Fig.4)

Snap the transmitter on the belt and adjust the gooseneck sensor. Then adjust the IR gooseneck sensor head face to the IR light source like (Fig.4) in order to be able for sensing camera shooting event. Do not apply with any other accessories like item #6; #7

2. Work with a Visible IR Camera (Fig.3)

In order to upgrade a visible night vision camera to be totally invisible camera, You need to use the attached two accessories item #6+ #7 from the above packing list. Make a hole (Reserved with 3 positions on the shielding sheet) and cut a proper size depend on fitting for your camera IR lens. Then place the sensor holder through the hole and put the sheet over the IR Light lens to block RED glow completely and make sure you will not see any RED glow from outside except allow a light source goes through the sensor holder #6. Put the gooseneck sensor into the holder after snapped it on the belt. See Fig.3

3. Work with an Extension Wired IR Boosters:



Fig.4

In some cases, you might already have one or more wired Wildspot Black IR booster **IRX-22B** and would like to connect it to be a slave in order to increase a double illumination. You can use an extension cable to connect the **MASTER** wireless booster and the **SLAVE** directly as a chain by plugged one end to the **IR-OUT** port on **MASTER** booster and the other end to **IR-IN** port on **SLAVE** booster. You have to refer the instruction manual of the wired booster to set the **TRIGGER** source pin to **SLAVE /CABLE** mode and applied to all other slave boosters. One wireless Master will support up to 4 sets of wired boosters in one chain connection.

Self-Test before Working

Place a booster or more and a camera attached transmitter in your target spot. It isn't a matter that it is at day or night time for self-test, you can perform a configuration testing as you like. Set the **PW** Switch on the **Booster** to **TEST** mode firstly and open the transmitter cover, then press the **TEST** button on the transmitter **Fig.6**. You will see both the **TRANSMIT** Indicator on transmitter Top and the **Distant-Test** Indicator on booster will be **TURNED ON** at the same time. If **Distant-Test** Indicator on one of booster is **OFF** or always blinking, it means a control signal on this booster may be very weak where it might be too far away from the transmitter. Try to move it back to the camera closely. If there is no any response even they are already near by, you have to check the **Power SW** and **Battery** installation as well as the security code setting. Also, you must be sure the **WORK GROUP** code switch on both transmitter and booster with the exactly same setting by observing each relative knobs are at same location 1~4. See **Fig.6**

After finish self-test, remember to slide the **PW** switch to **OFF** (At Center)



Fig.6

Operation On Duty

Since above installation is done, no more adjusting will be required. Slide the PW SW of Booster to ON. Now, the system is start working on duty at night time and silent at day. It always does synchronize with your scouting camera or CCTV for each event. It only consumes a very low power at stand-by mode. So that it will stay in the field for a long time and the average life under good quality battery will be able for taking more than a few thousand images under normal conditions.

Caution: Pay attention to avoid the Day/Night sensors on the transmitter to be covered. See Fig.5

After installation procedures and distance Self-test are done, do not forget to check if the slide panel on transmitter is closed completely; PW knob is switched to ON and the other rest port is still remaining corked by a spile before left.

Advanced Usage

Change for New Work Group

If you would like to add more wireless boosters to work at a time to get more illumination, you can place unlimited IRX-22BW boosters with a same coding to group together under one transmitter. Then allocate all boosters around the target position and repeat a same test as above to request all units will work at a same time. If you find there is a jamming signal appearing around you to cause either one booster to work improperly, just simply to change the WORK GROUP code for a new coding on both transmitter and all boosters in order to make your system difference than your neighbor.

Caution: The multiple codes of user defined are available for user. Just remember to change the same code applied for all boosters and transmitter. You may do this in case there is more than one user to use the same system around your neighborhood.

Video Phase Setting:

Sometimes, you might wonder about a dark bar which is frequently scrolling trough the video clips. There is a knob called "Video Phase" on inner panel. You can adjust it to make the pulsing frequency to be synchronized as your camera at video mode in order to stop the scrolling bar

Adjusting Method:

1. Be sure you are in dark environment before making adjustment, turn ON your video camera and switch TFT screen to ON for taking a video manually with our booster working together.
2. During recording, you may see a black bar scrolling on camera screen and then, adjust the VIDEO PHASE until to a bar stop on the screen. Remember the pointer position after done
3. Always remain this position of the VIDEO PHASE for normal operation on duty. The scrolling bar will disappear. You may do the same adjustment while you change another new IR camera.

Power Status / Battery Replacement

For the transmitter unit, if you notice the Bat-Low RED light become blinking or NOT light up while you push the BAT-Check button, that means the status of battery is poor condition or dead. You need to replace a new set of battery soonest. It is recommended to fill with new batteries at the beginning of winter. Once you notice the power is very weak through the BAT-CHECK LED, it will cause a working range will become short or controlling unreliable. You need to replace with a new battery (Battery Type : 23A 12V) by push up the panel to move the battery cover piece.

For a booster, to check the internal battery power, just press BAT-CHECK key to observe the LED to be lighted if power is full. In case a light shows very weak light or no light, it means you need to replace all batteries. 4 batteries installed on the main unit are required to use good quality Alkaline D cell battery. Conditions affecting battery life are including usage of the booster in video mode; took a number of night pictures or using product in a cold climate ect....

There is an optional feature for the booster that it will be powered by a 6V DC /2A of external power pack. The shaft diameter of the plug must be required to match 2.5mm. It's centre pin is positive.

Trouble Shooting

1. **BAT-CHECK LED on booster did not Light up by pushing the Bat-Check button when PW is either at ON or TEST mode, but it would light up while PW is at OFF :** It is telling you that battery is going dead almostly. When a loading is activated, those batteries did not work. You must install a new set batteries now.
2. **I could observe the Self-Test Indicator on Booster does ON during pressing TEST /BAT-LOW button on transmitter under TEST mode, but I found camera always take dark images or videos and the Self-Test Light did not turn ON when camera was taking night video or picture:** Check if the gooseneck sensor was already away from the IR light source on camera. Most of cases were caused by the IR sensor did not snap on properly or falling down from camera. This issue would cause the IR sensor was shifted after you left. Therefore, you have to find a way to make it snapping firmly. Another reason might be the current environment still bright that the camera does not switch ON the internal IR light source during a transition time of day /night. Also, booster and transmitter will only work at night only. So, either one might still detect a day time period, the booster system will not work at this moment until to an environment become dark completely.
3. **Seems not too much help even this booster was in-used:** Investigate for a possible issue if a current angle of booster might not the same as the camera lens. Need to adjust an angle on each booster with the skill explained on Preparation Chapter above. In other case, you try to move the booster near to camera to make them in the same target zone. In order to get the best result, you have to take a several night images with the booster in difference angles and locations. Of course you need to prove the batteries are not poor before you try to do further testing. In case a zone is very large and a target will be always far away, you may consider to add one or more IR boosters to get greater illumination.
4. **Seems the brightness for most of pictures and videos to be darker than comparing with using internal visible RED Glow IR light:** Usually, it is correct due to the efficiency of a CMOS camera sensor against visible IR length-wave is much higher than invisible IR length-wave. So, if you

expect to get more brightness on images or videos, you can check firstly if both boosters and camera are toward for a same target zone. Then, you may consider to add more black IR boosters to improve.

5. **I noticed some of Slave will be always switched ON even camera did not work:** Double check if the setting of trigger source option on each slave, improper connection in a chain will cause such problem. All boosters which in a chain connecting to the IR-Out on the MASTER (The first booster controlling by transmitter) must be required to set SLAVE /CABLE mode. Refer to the wired booster manual description.
6. **A scroll bar always appear in every night videos. Sometimes scrolls fast sometimes slow:** You need to refer the **Advanced Usage Setting** of this manual to eliminate a scrolling bar after adjustment.
7. **I am sure my IR camera does work at night, but the booster did not work:** At the first, check the coding of the system. 2nd, resume the procedures to test the system under the Self-test mode.
8. **During setting up my scouting system, I could see the Distant-Test Light to be ON while pressing the Bat-Low Check button on booster, but it did not response while I press the BAT-CHECK key on transmitter:** You need to check if the Main PW switch is at TEST mode firstly, also, the transmitter and the booster must be required with a same security code in order to work in the same work group. Check the Transmit light on transmitter while pressing.

Important Note: Please consult your dealer if you have any technical questions or problem while you use the product before you would send back the unit for repairing