

Flash Extender Wireless Black Flash IRX-22BW

OPERATION MANUAL

(VER.20121206)

Product Description

Thank you for purchasing the **Flash Extender** product. This Flash Extender Wireless Black Flash IRX-22BW infrared flash booster can enhance the quality of the night pictures and videos from your invisible black IR trail camera. An attached transmitter is used for detecting the IR signal from night vision camera and trigger unlimited units of flasher main units around 100 feet of it to light-up synchronously. It means a several boosters are available to be placed in difference place in order to increase much more illumination on the target for getting a perfect image or video at night. An IR-In port is equipped on the transmitter offer an option that it is not only detect IR light signal from it's gooseneck sensor but also is triggered directly from a triggering output source if your IR camera is already equipped with an IR-Ext port which you will find it in our all **Infrared Camera** series. 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 get a way to detect a moment of capturing. After a simply decoration processing, human will not see any visible IR Red light and the invisible IR booster will be instead of the IR light source on your camera to work at night. It will be compatible to work fine with any other general IR game cameras.

Kit List

This package kit is including the accessory parts as below:

1. Main Unit x1 set
2. Antenna x1 pc
3. Belt x1 pc
4. Instruction manual x1 pc
5. Transmitter x1 pc (Optional)
6. Shielding Sheet x2 pc (Optional)
7. Sensor Holder x1 pc (Optional)

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 setting is the factory default and is required to pair with a code shown on the transmitter. Do not try to change the default 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. If you will use it for indoor security application, it is also available to be upside down mounted on a ceiling with a popular mounting accessory. But this upside down installation method will not be applied for OUT-DOOR used.

Transmitter

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 install the camera and booster apart not more than 50 feet, then, just snap the transmitter **(Fig.3)** on belt and place it near to the side of more closely to the IR light window 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 trigger signal is sending to booster for self-testing.

Work with Black IR Camera:

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.

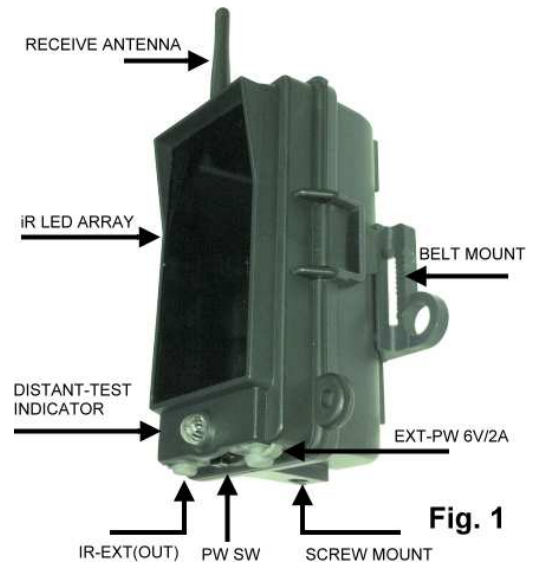


Fig. 1



Fig. 2



Fig. 3

Work with Visible IR Camera:

In order to upgrade a visible night vision camera to be totally invisible camera, You need to use the attached two accessories item No.6+ No.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 lens completely and make sure you will not see any RED glow from outside except the sensor holder. Put the gooseneck sensor into the holder after snapped it on the belt. See **Fig.3**

Work with Infrared IR Camera:

If you are using any Infrared Cam Night Vision models, an easy way is for you that you can use a cable to connect the camera and transmitter directly. In this case, the gooseneck is no use that there is no need to place it in front of the IR source. See the next chapter for the **Advanced Usage** application.



Fig.4

Distance Self-Test

Place a booster or more and camera with transmitter in your target spot. Set the PW Switch on the Booster to TEST mode and open the transmitter cover firstly, then press the TEST button on the transmitter **Fig.6**. You will see both the TRANSMIT Indicator on transmitter and the Self-Test Light on booster will be ON at the same time. If Self-TEST indicator on one of booster is OFF or always blinking, it means this booster may be set too far away from the transmitter and recommended to move 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 the code setting. Also, you must be sure the WORK GROUP switch on both transmitter and booster with exactly same setting.

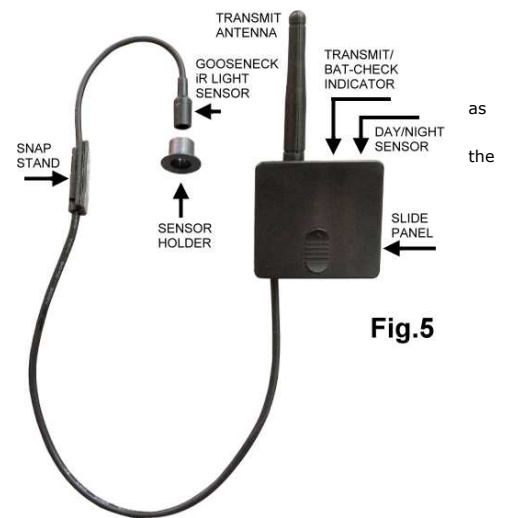


Fig.5

Operation

Since above installation is done, no more adjusting will be required. Slide the PW SW of Booster to ON. Now, the system will always work at night time only and does synchronize with your scouting camera 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. Pay attention to avoid the Day/Night sensors on the transmitter and booster to be covered.

Conditions affecting battery life are including usage of the booster in video mode; a number of night pictures or using product in a cold climate.

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

Advanced Usage Fig.6

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 change unlimited IRX-22BW boosters with a same code under one transmitter. It is just simply to change the WORK GROUP code switch knob according to the printing table on the inner panel of booster. Then allocate all boosters in the target position and repeat a same test as above.

Caution: The preset code of transmitter is available to change by user, then, remember to change the same code for all boosters. You may do this in case there is more than one user to use the same system around you



Fig.6

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 to stop this bar 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.

Power Status / Battery Replacement

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.

The booster is optional to be powered by a 6V DC /2A of external power pack. The shaft diameter of the plug must be required to match 2.5mm.

4 batteries installed on the main unit are required to use good quality Alkaline D cell battery.

Trouble Shooting

1. **There is no Light up from BAT-CHECK LED by pushing the Bat-Check button when PW is either at ON or TEST mode, but it light at OFF only :**
It is telling you that battery to be going down when a loading is activated, those batteries might not be last for a long time. You must be ready new battery for replacement soonest.
2. **I can see the Distant-Test Indicator does ON during pressing BAT-LOW test either on main unit and the transmitter under TEST mode, but I find camera always take dark images or videos and the Self-Test Light does not turn ON:** It means a communication between transmitter and main booster is fine. Check if the gooseneck sensor was already away from the IR light source on camera. Most of cases are the IR sensor did not snap properly or falling down from camera to 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 need to switch ON the internal IR lights
3. **Seems not too much help even this booster is used:** Investigate for a possible issue if a current angle of booster might not the same as the camera lens. In other case, you try to move the booster near to camera to make them in the same target zone. You have to test in difference angle and location for the best result. Of course you need to prove the batteries are not poor before you try to do further testing.
4. **Seems not the same brightness for most of pictures and videos comparing with internal visible RED Glow IR light:** You have to check firstly if both boosters and camera are toward for a same target zone. Then, you may consider to add one or more black IR boosters to get greater illumination if a zone is very large and a target will be always far away
5. **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.
6. **During setting up my scouting system, I could see the Distant-Test Light to be ON while pressing the Bat-Low Check button, 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