

IRS – Interactive Response System

**User Manual of
RF-08A Interactive
Response Devices**

BRAND: IRS

MODEL: RF-08A



◆ IRS Hardware Components

IRS hardware consists two kinds of device, RF-08A handset and RF receiver. RF-08A handset looks like a remote control, its function is transmitting button command to RF receiver via RF 2.4G signal. The RF receiver function is receiving and processing button command from one or many RF-08A handsets and then transfer to PC.



The communication protocol between **RF-08A Handset** RF-08A and RF receiver is a smart two way protocol, user just need to push handset button once then the system will handle any possible collision situation. Each RF receiver typically could handle 300 RF-08 handsets in 50 meters range.



RF RECEIVER

◆ RF receiver Installation

Install RF receiver just need two simple steps,
First, plug USB cable connector into socket of RF receiver and
Second, plug another USB cable connector into any USB port of PC.



For better performance, we suggest you place the RF receiver on higher place and, if you can, use standard camera tripod or mounting bracket to fix the RF receiver.

◆ Application Software Installation

Please refer to IRS software manual. The software operation is look like that:



Question 1

■ Which one has four legs?

(1)



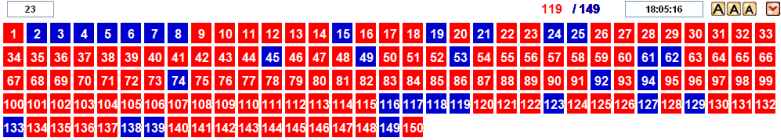
(2)



(3)



(4)



◆ Driver

IRS system level driver is “USB to Serial converter” comes from FTDI. This driver works for RF receiver.

◆ Use RF-08A

RF-08A is default in deep sleep mode until user presses any button. When users press any button on RF-08A, RF-08A will wake up to transmit button data to RF receiver and then deep sleep again.

LED indicator of RF-08A

RF-08A has two LED indicators. The left one is signal indicator, it turns on while transmitting and receiving RF signal. The right one is button indicator, it flashes while user pressing button. If the RF-08A is fail to communicate with RF receiver, the button indicator will flash quickly and continuously for a while.

Signal indicator Button indicator



LED indicator of RF receiver



Live and button receiving indicator

When RF-08A transmits button command to RF receiver, the button receiving indicator of RF receiver will change state (from light to dark or dark to light).

Maintenance **RF Channel**

RF-08A and RF receiver should work on the same channel and the channel is set up by distributor before delivery. End user can not change channel by self. To avoid possible interference, if you own more than one set of IRS system (one RF receiver with many RF-08A handsets) please refer to distributor for channel change service.

Battery Replacement

Step1: Pull the battery cover on the back side

Step2: Remove the used batteries from battery compartment.

Step3: Insert two fresh CR-2032 batteries into battery cover.

Note! keep the + pole on the upper side.

Step4: Push the cover back until hearing the “tick” sound.

CAUTION

Risk of explosion if battery is replaced by an incorrect type.

Dispose of used batteries according to the instructions.

Federal Communication Commission Interference Statement

This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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 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.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Radiation Exposure Statement

The product comply with the FCC portable RF exposure limit set forth for an uncontrolled environment and are safe for intended operation as described in this manual. The further RF exposure reduction can be achieved if the product can be kept as far as possible from the user body or set the device to lower output power if such function is available.