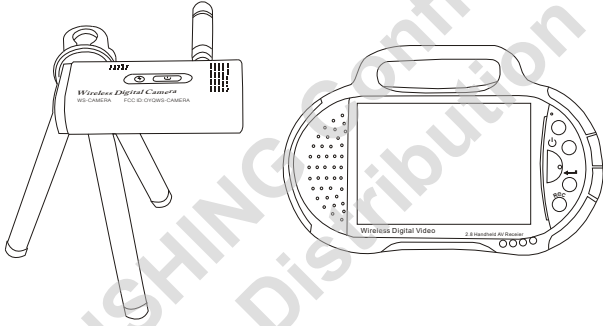


Wireless Digital Security Camera Handheld AV Receiver

2.4GHz GFSK Hopping



Model: WS-CAMERA

Model: WS-Handheld AV Receiver

Vision History

Version	Date	Changes
V1.0	Feb.21,2012	1 st Edition

Content

Important Event	
Declaration	1
Warranty	1
Definition of	
2.4G Wireless Digital Security Camera	2
Handheld AV Receiver	2
Specification	
Wireless Digital Security Camera	3
Handheld AV Receiver	3
RF Specification	3
Operating Environment	3
Operating Instructions	
Wireless Digital Security Camera	
Turn On	4
Pair	4
Illuminate	5
Recharge	5
Handheld AV Receiver	
Turn On	5
System Menu	5
Auto Mute Setting	6
Setup Record	6
Pairing	7
Settings	9
Set up Date & Time	10
Set up Format	11
Set up Default	12
Set up Camera Volume	13
Recording (Only when Mini micro-SD was inserted in the device)	14
Low power indication and plug in the USB recharger	15
Standby Mode	15
FCC Consistent Declaration(U.S.A. Only)	16
Administrative Regulations on Low Power Radio Waves Radiated Devices	
Article 12	16
Article 14	16

Important Event

P.1

1. This product is in general use for the equipment on the premise of the development, design, manufacture. Do not use that require high security purposes, such as machinery or medical, aviation equipment, machinery and transport-related deaths are directly or indirectly related to the system
2. This product should be in this brochure by the instructions of the types and rated voltage power under the current proper use. If violation of this statement by the safety records of the supply operation, I am afraid our company cannot afford any of the responsibility.
3. Do not self-decomposition, alteration, repair of the products also will cause fire, electric shock, fault, and dangerous. In addition, their decomposition, alteration, repair the product, failure is not within the scope of warranty.
4. The products are not waterproof, so please do not use and touch water. Take off and on also please note. Rain, spray, drinks, steam, sweat may be a failure.
5. Use of this product, please be sure to use according to the statement recorded by the use of methods to operate. Please do not violate particular attention to the matter reminded to use.
6. Please respect this statement recorded by the note. When consumers in contravention of this statement recorded note of the operation, I am afraid our company could not shoulder any responsibility.
7. Products are defective, the Company will be responsible for free to amend the flaws, or to the same flawless product or its equivalent products in exchange. However, the Company does not assume based on the requirements of the flaw and loss responsibility.
8. The Company reserves the right to retain without notice to users of the cases, the product of hardware / software (version upgrade) is with the right to edit.

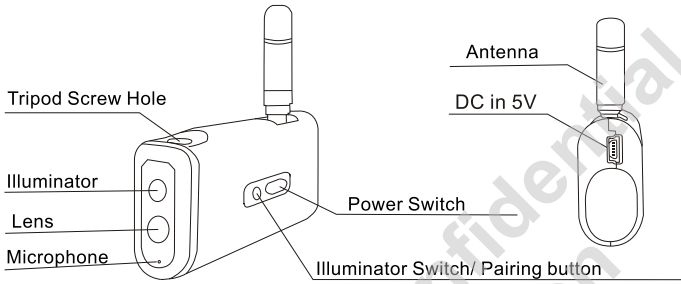
Declaration This product provides different frequency for user selection to meet different telecommunication regulation and FCC/NCC on different countries.

Warranty The warranty time is within one year from purchased date. The warranty scope are used in normal situation and none vandalism. (Some function harmful out of warranty scope and Vandalism are Un-warranty).

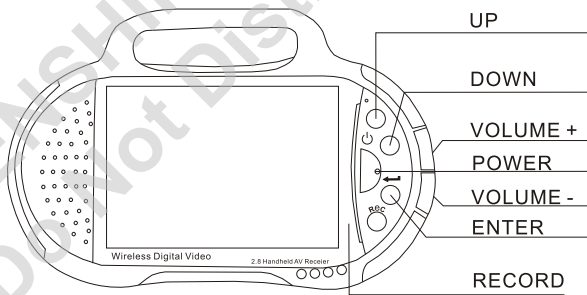
Un-warranty Scope Description

1. Because the natural disaster, accident or human factor to cause the bad damage.
2. Violate the product instruction manual to cause the damage of the products.
3. The improper assemble causes damage.
4. The products used the unsanctioned accessory to cause damaged.
5. Overstep the allowed used environment to cause the products damaged.

●Wireless Digital Security Camera



●Handheld AV Receiver



●Wireless Digital Security Camera

Size: 68.6mm (Long) * 34mm (Wide) * 16.9mm (High)
 Weight : 37.8g (include the battery and antenna)
 Lens : 1/4"CMOS sensor(640x480)
 Omni directional Microphone
 Battery : Built in 450mA Li-ion battery
 Operation period : 1 hour
 Illumination : White LED
 Power supply : B Type Mini USB DV 5V/1A

●Handheld AV Receiver

Size: 117mm (Long) * 79mm (Wide) * 9.6mm (High)
 Weight : 62g (include the battery)
 LCD : 10~16 frames at 320x240(QVGA) · 262K · 0.153 dot pitch
 Battery : Built in 600mA Li-ion battery
 Operation period : 1 hour
 Power supply : B Type Mini USB DV 5V/1A
 Mini micro-SD : Support 8G

●RF Specification

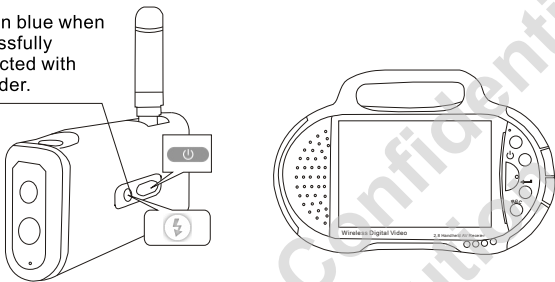
Frequency: ISM 2400~2483MHz hopping
 Transmission Power: 100mW (20dBm)
 Modulation Mode: GFSK

●Operating Environment

Operating Temperature: 0°C~+50°C
 Memorizing Temperature: -10°C~+60°C

After successfully connected the Camera with the Recorder, will then turn into blue.

Keep in blue when successfully connected with Recorder.



(Fig 0.1)

Wireless Digital Security Camera

●Turn On

Press on to turn on the power, glows a steady blue if the device is connected to the "Handheld AV Receiver", and blinks blue every 2 seconds if the device is unpaired or out of range.

●Pair

Will flash in blue continually while you press it for 4 seconds under the turned-on condition. When Handheld AV Receiver is paired successfully, will glow a steady blue, and images from that camera will be displayed simultaneously on the Receiver screen. Once Camera is failed to be paired with Recorder, flashes once 2 seconds. User may follow the described steps to make pairs again until success. (is the icon shown in the first picture)

●Illuminate

Press to turn on the white light illuminator, press again to turn it off. (Fig 0.1)

●Recharge

While turns into yellow, it means the Camera is running out of battery. Users may now plug in the USB charger, and will turn into red during recharging. The Camera should be recharged for 3 hours before first-time used, and should be recharged for 1 hour when the battery is low.



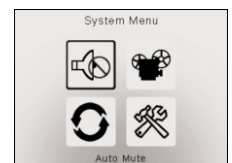
Handheld AV Receiver

●Turn On

1.1 Press on the button "power" to turn on the "Handheld AV Receiver" and get into the start up screen shown below (fig. 1.1). Press and hold the button "power" for 3 seconds to shut down the device.



(Fig.1.1)



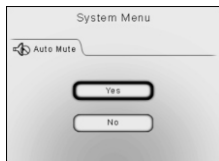
(Fig.2.1)

●System Menu

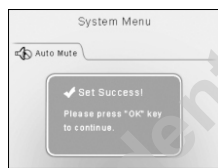
2.1 Press "Record" for 3 seconds to enter into System Menu.(fig.2.1)

●Auto Mute setting

- 3.1 Use "Up/Down" to select Auto Mute, and then press "Enter" to enter into setting, use "Up/Down" again to select Yes/No. As below fig (Fig 3.1)



(Fig 3.1)



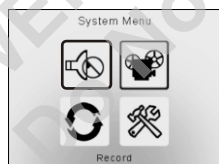
(Fig 3.2)

- 3.2 Press "Enter", "Set Success" shows up as long as setting has succeeded. As above fig (Fig 3.2)

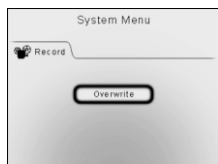
- 3.3 Press "Record" to back into the System Menu.

●Set up Record

- 4.1 Use "Up/Down" to select "Record". As below fig (Fig 4.1)



(Fig 4.1)



(Fig 4.2)

- 4.2 Press "Enter" to enter into Record function. As above fig (Fig 4.2)

- 4.3 Use "Up/Down" select "Overwrite", and press "Enter" to process setting. As below fig (Fig 4.3)



(Fig 4.3)



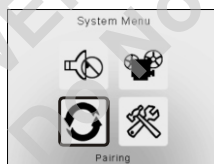
(Fig 4.4)

- 4.4 Use "Up/Down" to move Up and Down, choose Yes/No, then press "Enter". "Set Success" shows up as long as setting has succeeded. As above fig (Fig 4.4)

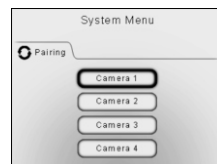
- 4.5 Press "Record" to return to System Menu.

●Pairing

- 5.1 Use "Up/Down" and select Pairing. As below fig (Fig 5.1)



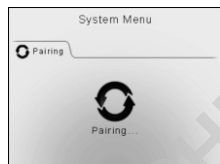
(Fig 5.1)



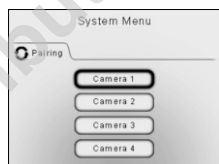
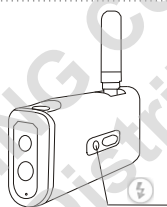
(Fig 5.2)

- 5.2 Press "Enter" to enter into Pairing function. As (Fig 5.2)

- 5.3 As the above picture, select Camera 1, and press "Enter" to enter into pairing. Meanwhile, as the Camera is under standby mode, push and last for four seconds, will then continuously flash in blue. After Camera was successfully paired with Recorder, steadily keeps in blue, and images from that camera will be displayed simultaneously on the Recorder screen. Once Camera is failed to be paired with Recorder, flashes once 2 seconds. User may follow the described steps to make pairs again until success.



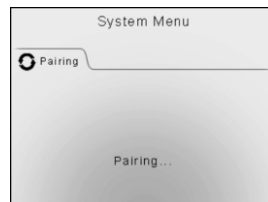
(Fig 5.3)



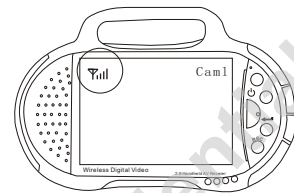
(Fig 5.4)

- 5.4 To pair with more than one camera, press the button "Up/Down" to select camera 2/camera 3/camera 4. Go through the procedure 5.1 to pair with camera 2/camera 3/camera 4 as shown above (fig. 5.4).

- 5.5 Users will see the follow image as camera has been searched, which means pairing is processing. About 1 minute later, image disappears. As below fig (Fig 5.5)



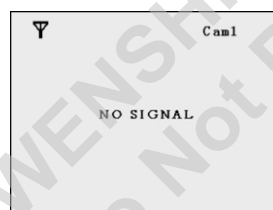
(Fig 5.5)



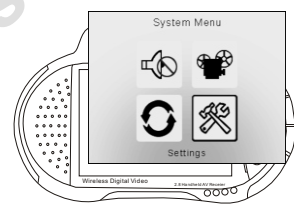
(Fig 5.6)

- 5.6 When the reminder pop-up (as shown above, fig. 5.5) is gone, the surveillance screen turns up, and the antenna signal strength is displayed on the top left corner.

- 5.7 If the "Handheld AV Receiver" can't be found after search, a "NO SIGNAL" reminder will pop up, as shown in fig. 5.7. Please check if there is LED blinking in camera, and re-do the procedure 5.3.



(Fig 5.7)



(Fig 6.1)

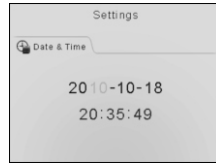
●Settings

- 6.1 Use "Up/Down" to select settings. As above fig (Fig 6.1)

- 6.2 Press "Enter" to enter into Settings. As below fig (Fig 6.2)



(Fig 6.2)



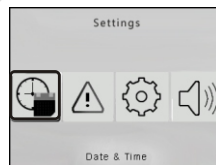
(Fig 7.1)

●Set up Date & Time

- 7.1 Use "Up/Down" to select Date and Time, then press "A" to enter into the setting mode. As above fig (Fig 7.1)
- 7.2 Use "Volume+/Volume-" to select content that needs to be set, and "Up/Down" to enter right figures. After finished press "Enter", "Set Success!" will show up then. As below fig (Fig 7.2)



(Fig 7.2)

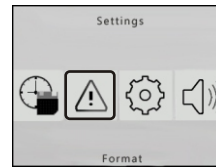


(Fig 7.3)

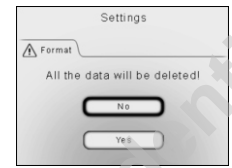
- 7.3 Press "Enter" to back to Settings. As above fig (Fig 7.3)

●Set up Format

- 9.1 Use "Up/Down" to select Format. As below fig (Fig 9.1)



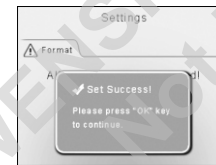
(Fig 9.1)



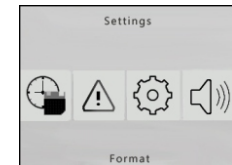
(Fig 9.2)

- 9.2 Press "Enter" to enter into Format setting. As (Fig 9.2)

- 9.3 Use "Up/Down" to select No/Yes, then press "Enter", Set success!" will appear on the Recorder screen. As below fig (Fig 9.3)



(Fig 9.3)



(Fig 9.4)

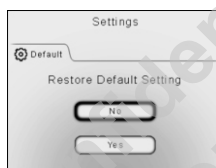
- 9.4 Press "Enter" to back to Settings. As above fig (Fig 9.4)

●Set up Default

- 10.1 Use "Up/Down" to select Default. As below fig (Fig 10.1)



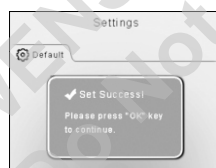
(Fig 10.1)



(Fig 10.2)

- 10.2 Press "Enter" to enter into Default setting. As above fig (Fig 10.2)

- 10.3 Use "Up/Down" to select No/Yes, then press "Enter", "Set success!" will appear on the Recorder screen. As (Fig 10.3)



(Fig 10.3)



(Fig 10.4)

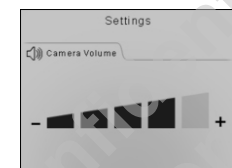
- 10.4 Press "Enter" to back to Settings. As above fig (Fig 10.4)

●Set up Camera Volume

- 11.1 Use "Up/Down" to select Camera Volume. As below fig (Fig 11.1)



(Fig 11.1)



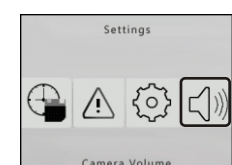
(Fig 11.2)

- 11.2 Press "Enter" to enter into Camera Volume setting. As above fig (Fig 11.2)

- 11.3 Use "Volume+/Volume-" to adjust volume, then press "Enter", "Set success!" will appear on the Recorder screen. As below fig (Fig 11.3)



(Fig 11.3)

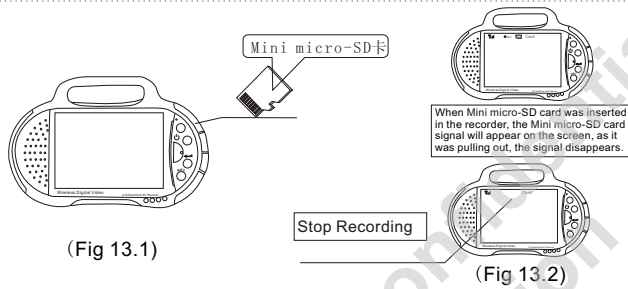


(Fig 11.4)

- 11.4 Press "Enter" to back to Settings. As above fig (Fig 11.4)

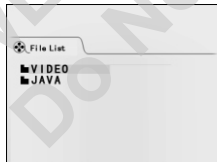
●Recording (Only when Mini micro-SD was inserted in the device)

13.1 Insert Mini micro-SD card. As below fig (Fig 13.1)

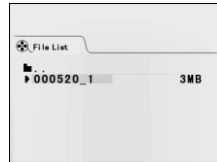


13.2 Whether there are objects moving or not, users may press "Record" to begin the recording, the REC sign will appear on the Recorder screen. Press "Record" again to stop recording. As above fig (Fig 13.2)

13.3 To play the video recorded: When it is under stand-by mode or connected, press "ENTER" to enter the "File List" setting screen. Choose the "VIDEO" file and press "ENTER". (fig. 13.3)



(Fig 13.3)

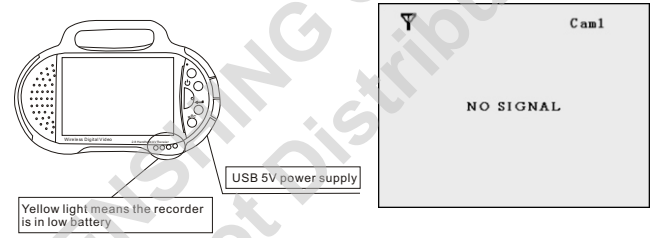


(Fig 13.4)

13.4 After entering the "VIDEO" file, choose the file you want to reserve while recording. Press "ENTER" to replay. When replaying the video recorded, press "ENTER" to stop or play. Press "REC" to go back (fig. 13.4).

●Low power indication and plug in the USB recharger

The battery indicator turns yellow to suggest the condition of low battery, plug in the 5V USB connector to charge. For an out-of-box battery, one should charge 4 hours and above before first time use. For a depleted battery, one should recharge at least 2 hours before use. Each recharge can offer 1 hour use. As shown below (Fig 13.5)



●Standby Mode

When the Recorder is in Standby Mode, "NO SIGNAL" will appear on the screen. (Fig 13.6)

FCC Consistent Declaration (U.S.A. Only)

Attention: FCC rule regulation, modified and changed must allowed by WENSHING Electronics company, otherwise that would make you operate this apparatus invalid. This apparatus adopted test, according to chapter 15 that FCC regulation, accord with Class B digital restrictions of device. These limits are designed to provide reasonable protection, avoid to having harmful interference at home's environment.

This device may have radiated wireless frequency energy. If don't allow the instruction manual, then may will interfere wireless communication. However, there is no any way to guarantee, it will not be interfered in particular installed. If this device really causes harmful interference, (It could be confirmed by turning on or off this device.) Advise you to try to use the following ways modifying the interference situation.

- Relocation receiving antenna or altering its direction.
- Increase the distance between device and receiver.
- Please connect this device to the outlet in the circuit different from the receiver.
- The following manuals is published by Federal Communications Commission, they must be helpful to all users.
- How to Identify and Resolve Radio-TV Interference Problems. (This manual can be obtained by relevant departments of publication of the U.S. government.)
- Government Printing Office, Washington D.C., 20402. Stock No. 004-00398-5

IMPORTANT NOTE: To comply with the FCC RF exposure compliance requirements, no change to the antenna or the device is permitted. Any change to the antenna or the device could result in the device exceeding the RF exposure requirements and void user's authority to operate the device.

Administrative Regulations on Low Power Radio Waves Radiated Devices

Article 12

Without permission granted by the DGT, any company, enterprise, or user is not allowed to change frequency, enhance transmitting power or alter original characteristic as well as performance to a approved low power radio-frequency devices.

Article 14

The low power radio-frequency devices shall not influence aircraft security and interfere legal communications; If found, the user shall cease operating immediately until no interference is achieved.

The said legal communications means radio communications is operated in compliance with the Telecommunications Act.

The low power radio-frequency devices must be susceptible with the interference from legal communications or ISM radio wave radiated devices.