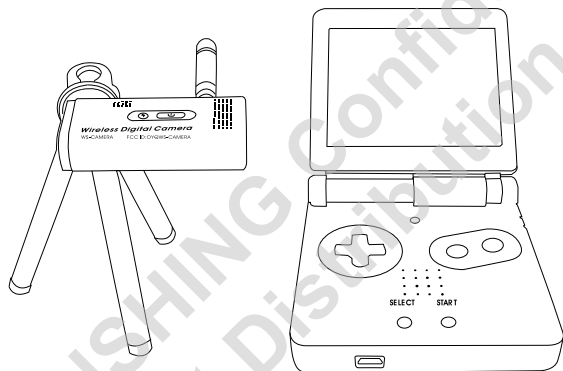


Wireless Digital Security Camera

Wireless Digital Video Recorder

2.4GHz GFSK Hopping



Model: WS-CAMERA-RECORDER(Wireless Digital Security Camera)

Model: WS-VIDEO-RECORDER(Wireless Digital Video Recorder)

Vision History

Version	Date	Changes
V1.01	Nov.01,2010	1 st Edition
V1.02	Dec.15,2010	2 st Edition
V1.03	Jan.17,2011	3 st Edition
V1.04	Feb.11,2011	4 st Edition

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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.

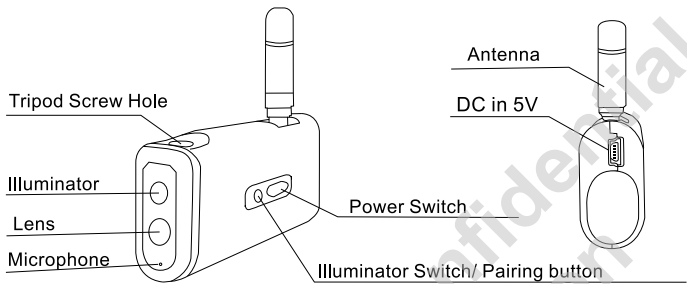
Declaration This product provides different frequency for user selection to meet different telecommunication regulation and FCC/NCC on different countries.

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).

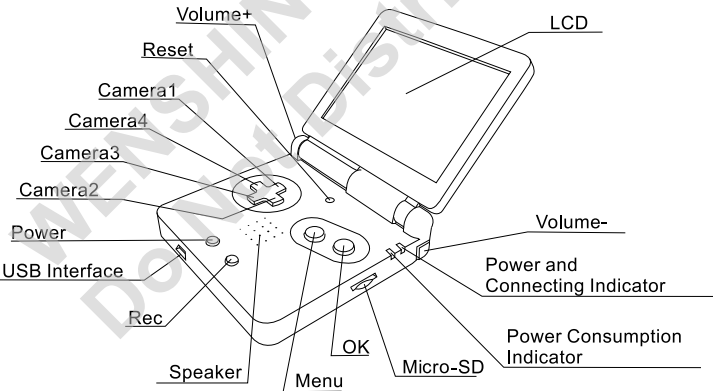
Un-warranty Scope Description

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.

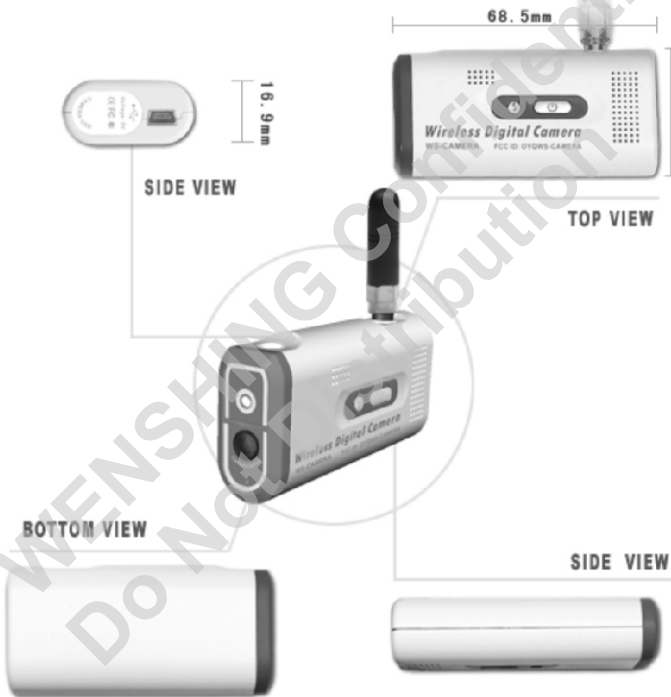
●Wireless Digital Security Camera



●Wireless Digital Video Recorder



●Wireless Digital Security Camera



●Wireless Digital Security Camera

- Lens : 1/4"CMOS sensor(640x480)
- Microphone : Omni directional Microphone
- 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
- Weight : 40.2g (include the battery and antenna)
- Size: 68.6mm (Long) * 34mm (Wide) * 16.9mm (High)

●Digital Video Recorder

- 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
- Weight : 122.6g (include the battery)
- Size: 83.9mm (Long) * 82.9mm (Wide) * 25mm (High)

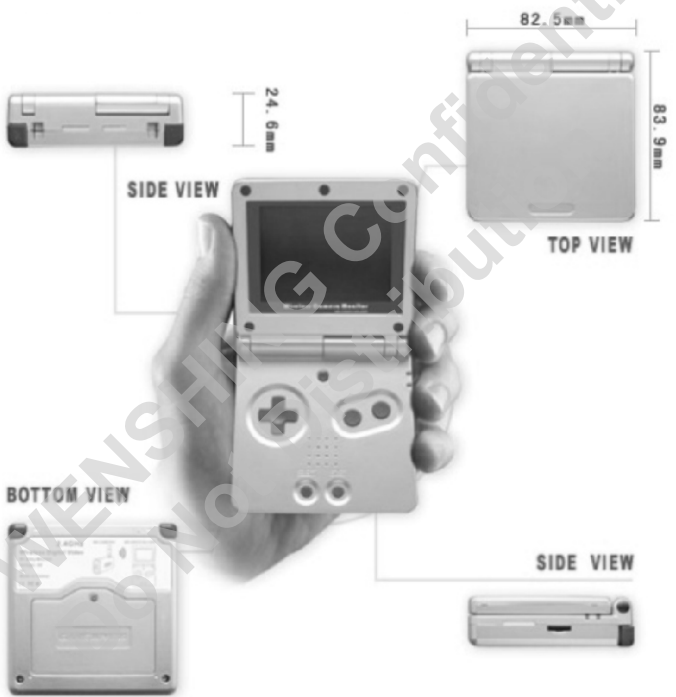
●RF Specification

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

●Operating Environment

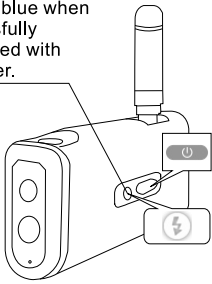
- Operating Temperature: 0℃~+50℃
- Memorizing Temperature: -10℃~+60℃

●Wireless Digital Video Recorder

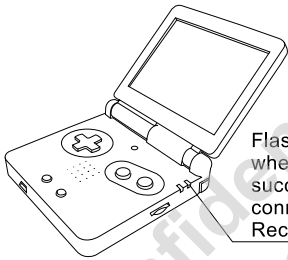


After successfully connected the Camera with the Recorder,  will then turn into blue.

Keep in blue when successfully connected with Recorder.



(Figure 1)



(Figure 2)

Operation Instruction(Wireless Digital Security Camera)

●Turn On

Press on  to turn on the power,  glows a steady blue if the device is connected to the "wireless digital audio video color-display receiver", and blinks blue every 2 seconds if the device is unpaired or out of range. (see  in fig. 1 as shown above, see  in fig.1as shown above)

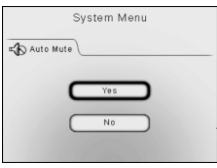
●Pair

While the "Wireless Digital Security Camera" (Hereinafter called Camera)is under the standby mode, press  and last for 4 seconds,  will then continuously flash in blue. Meanwhile, follow the "Pairing" step (step 2.4) of Recorder. After the Camera was successfully paired with the 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. (see  in fig. 1 as shown above,) .

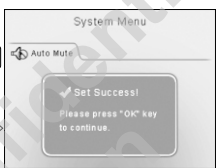
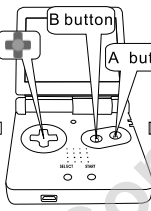
Pairing/Operation Method of Wireless Digital Camera and Video Recorder

●Auto Mute setting

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



(Fig 3.1)



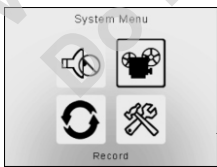
(Fig 3.2)

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

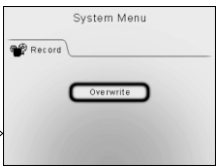
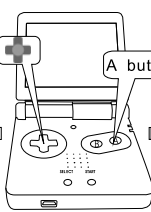
3.3 Press "B" to back into the System Menu.

●Set up Record

4.1 Use  to select "Record".As below fig (Fig 4.1)



(Fig 4.1)



(Fig 4.2)

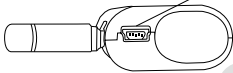
●Illuminate

Press  to turn on the white light illuminator, press again  to turn it off.

●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.

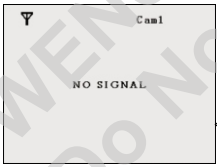
Plug in the USB charger here.



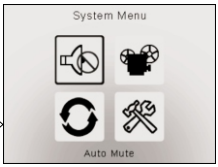
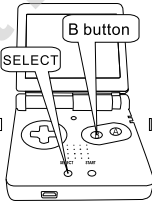
Pairing/Operation Method of Wireless Digital Camera and Video Recorder

●Turn On

1.1 Press on the button "SELECT" to turn on the "wireless digital audio video color display receiver" and get into the start up screen shown below (fig. 1.1). Press and hold the button "SELECT" for 2 seconds to shut down the device.



(Fig.1.1)



(Fig.2.1)

●System Menu

2. 1 Press "B" to enter into System Menu.As fig(fig.2.1)

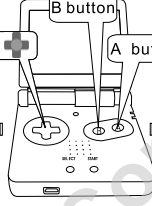
Pairing/Operation Method of Wireless Digital Camera and Video Recorder

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

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



(Fig 4.3)



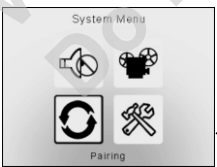
(Fig 4.4)

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

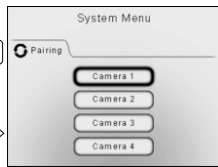
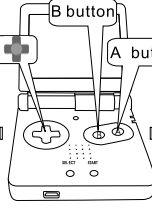
4.5 Press "B" to return to System Menu.

●Pairing

5.1 Use  and select Pairing. As below fig (Fig 5.1)



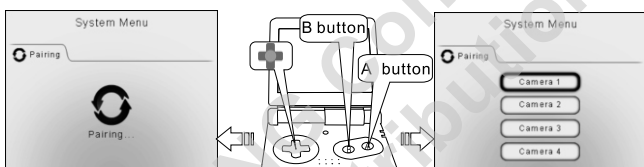
(Fig 5.1)



(Fig 5.2)

5.2 Press "A" to enter into Pairing function. As above fig (Fig 5.2)

5.3 As the above picture, select Camera 1, and press "A" 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.

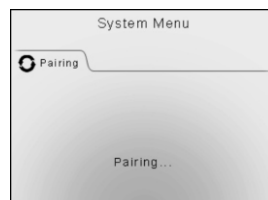


(Fig 5.3)

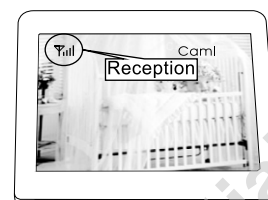
(Fig 5.4)

5.4 To pair with more than one camera, press the button  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)



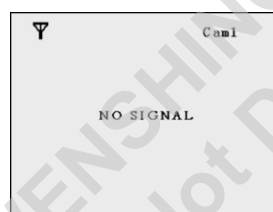
(Fig 5.5)



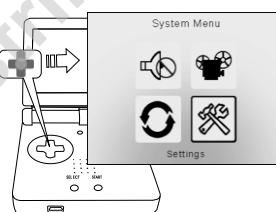
(Fig 5.6)

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 "wireless digital audio video color display 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)

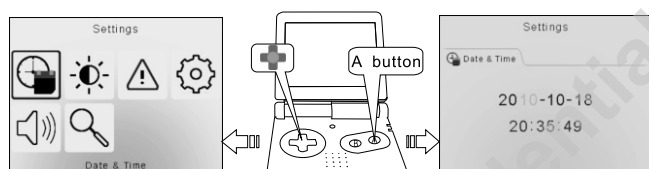


(Fig 6.1)

●Settings

6.1 Use  to select settings. As above fig (Fig 6.1)

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



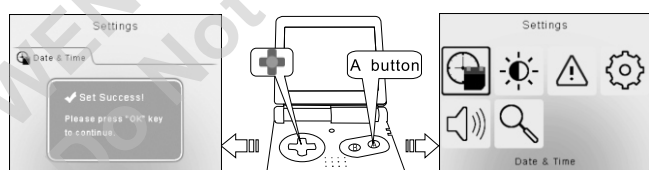
(Fig 6.2)

(Fig 7.1)

●Set up Date & Time

7.1 Use  to select Date and Time, then press "A" to enter into the setting mode. As above fig (Fig 7.1)

7.2 Use  Left / Right to select content that needs to be set, and Up/Down to enter right figures. After finished press "A", "Set Success!" will show up then. As below fig (Fig 7.2)



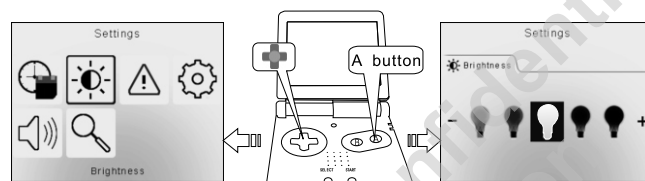
(Fig 7.2)

(Fig 7.3)

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

●Set up Brightness

8.1 Use  to choose Brightness. As below fig (Fig 8.1)

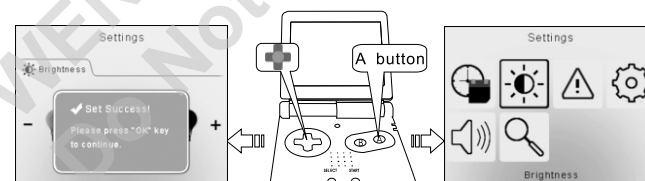


(Fig 8.1)

(Fig 8.2)

8.2 Press "A" to enter into Brightness setting. As above fig (Fig 8.2)

8.3 Press  Left/Right to adjust the brightness, then press "A", "Set Success!" will appear on the screen. As below fig (Fig 8.3)



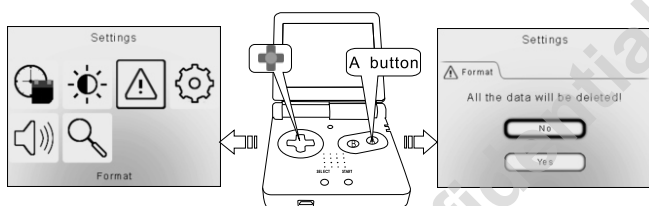
(Fig 8.3)

(Fig 8.4)

8.4 Press "A" to back to Settings. As above fig (Fig 8.4)

●Set up Format

9.1 Use **+** to select Format. As below fig (Fig 9.1)

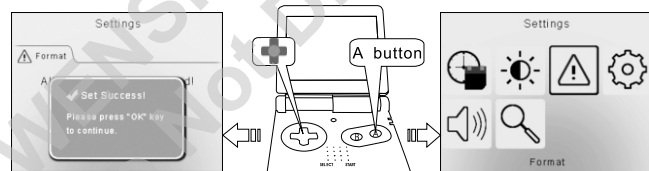


(Fig 9.1)

(Fig 9.2)

9.2 Press "A" to enter into Format setting. As above fig (Fig 9.2)

9.3 Use **+** to select No/Yes, then press "A", "Set success!" will appear on the Recorder screen. As below fig (Fig 9.3)



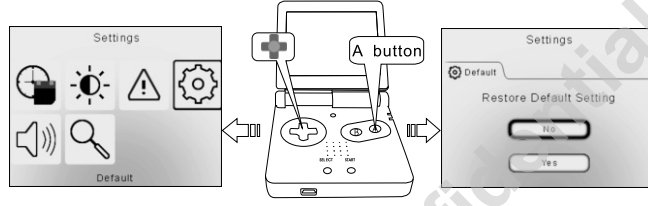
(Fig 9.3)

(Fig 9.4)

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

●Set up Default

10.1 Use **+** to select Default. As below fig (Fig 10.1)

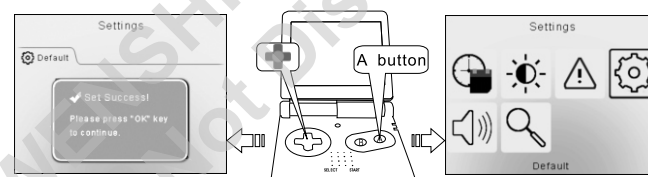


(Fig 10.1)

(Fig 10.2)

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

10.3 Use **+** to select No/Yes, then press "A", "Set success!" will appear on the Recorder screen. As below fig (Fig 10.3)



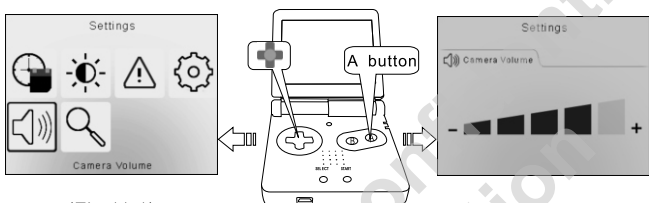
(Fig 10.3)

(Fig 10.4)

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

●Set up Camera Volume

11.1 Use **+** to select Camera Volume. As below fig (Fig 11.1)

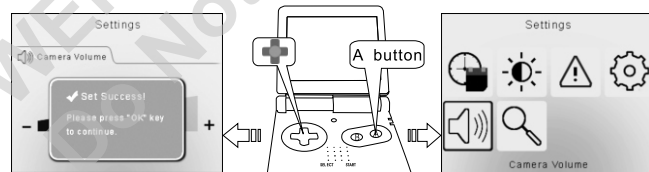


(Fig 11.1)

(Fig 11.2)

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

11.3 Use **+** Left/Right to adjust volume, then press "A", "Set success!" will appear on the Recorder screen. As below fig (Fig 11.3)



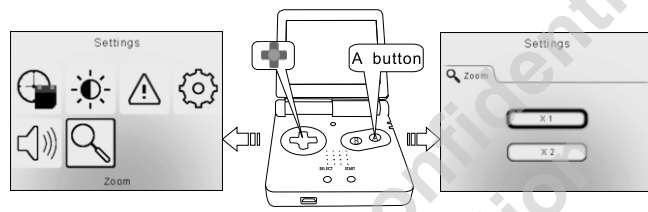
(Fig 11.3)

(Fig 11.4)

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

●Set up Zoom

12.1 Use **+** to select Zoom. As below fig (Fig 12.1)

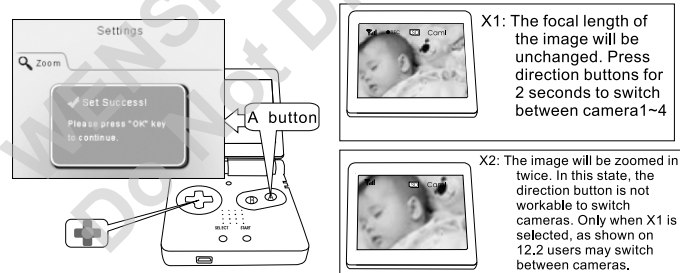


(Fig 12.1)

(Fig 12.2)

12.2 Press "A" to enter into Zoom setting. As above fig (Fig 12.2)

12.3 Use **+** Up/Down to choose the magnification X1 or X2, then press "A", "Set success!" will appear on the Recorder screen. As below fig (Fig 12.3)



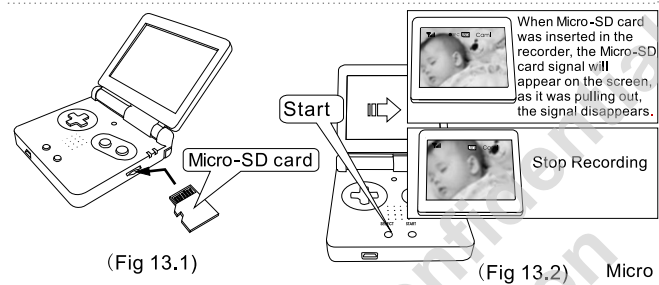
(Fig 12.3)

(Fig 12.4)

12.4 According to as the following diagram, the result of X 1 and X 2 are as below pictures. As above fig (Fig 12.4).

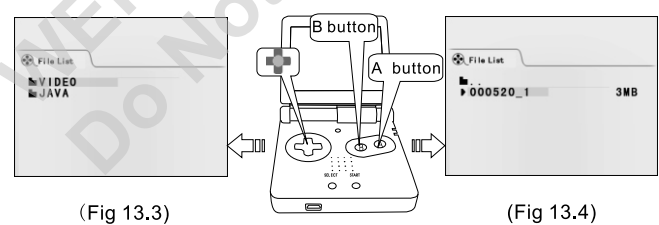
●Recording (Only when Micro-SD was inserted in the device)

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



13.2 Manual recording function is available as well. Whether there are objects moving, users may press "Start" to begin the recording, the REC sign appears on the Recorder screen. Press "Start" again, recording stops. As above fig (Fig 13.2)

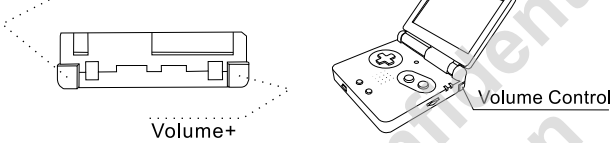
13.3 Video playback: In the mode of standby or connected, press the button "A" to enter "File List" setup menu. Select the folder "VIDEO", as shown below (fig. 13.3), and press "A" to enter.



13.4 In the data folder, select the folder where the recording was saved, press "A" to play back. During playback, press "A" to play or pause, and press "B" to return, as shown above (fig. 13.4).

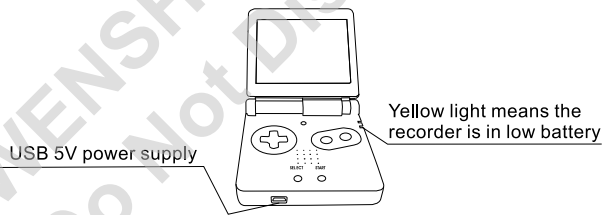
●Volume

Volume-down button Volume-up button



●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 a 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



●Standby Mode

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

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

P.20

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

Notice: The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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.