# 2.4Ghz Wireless Digital 7"

# Baby Monitor System

# SBT-AS1901

# User Manual

## Note:

**1:** Please do not work at a high temperature, high magnetic field or under the glare.

**2:** Use the designated power adapter and battery in case any serious damage of this product.

**3:** Do not put this product in those places where the temperature is extremely low or high.

**4:** Please turn off the power when you do not use this product. Meanwhile, please take out the battery when you do not use it for a long time.

**5:** Please avoid water and dust.

**6:** Please do not use thinner or other chemicals to wipe this product.

**7:** This product is designed for baby, please try to use it in interior. And it will reduce the display effect under strong light.

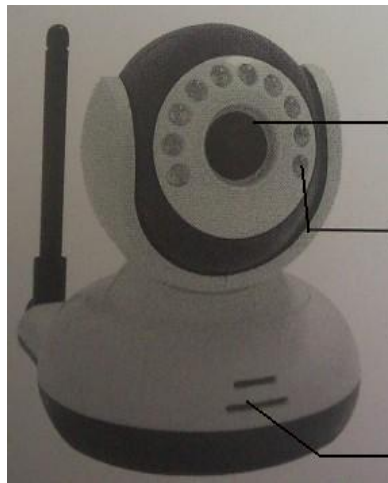**8:** The AC adapter is for indoor use only.

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## Main Function

●Adopt 2.4GHz Frequency transmission, accord with FCC, CE Standard；

●With high resolution 7" LCD display screen；

●Have a operational text menu display function；

●Support one receiver to connect 4 transmitters；

●Long-distance transmission: Up to 200-300m in open air;

●Day and night monitoring with clear images for 24 hours；

●Half-duplex Voice Transmission，Voice clear, volume of sound（0~10）is adjustable；

●VOX Activate function， when the volume of baby sound or happened in baby room is beyond the volume of VOX sensor, monitor will be activated（The screen in dormant state then automatically turn on with sound), to remind parents to pay attention to baby.

●Monitor with TV Out function, support TV display;

●Camera and receiver use lithium batteries, convenient for mobile use;

●With pairing code (or registering) function: make pairing through the pairing code buttons of monitor and camera;
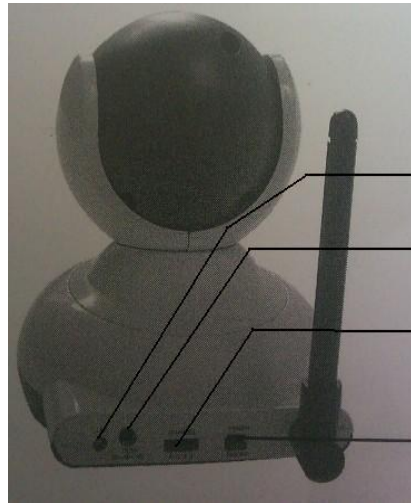
## Function Introduction

## 2.4Ghz Wireless camera
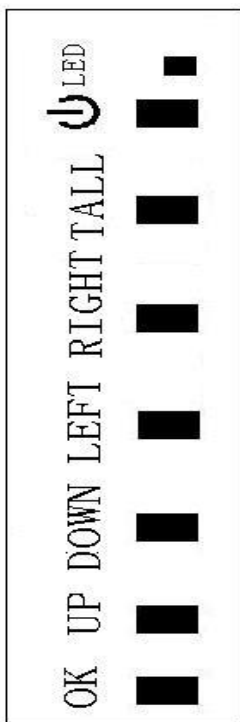
Lens

Infrared LED

Speaker

Recharge LED

DC 5V input

Work/Pair LED

Power/Paring Key

# 7" LCD Monitor



LED：Work LED

Power Key: 3-5 sec long press to turn on/turn off

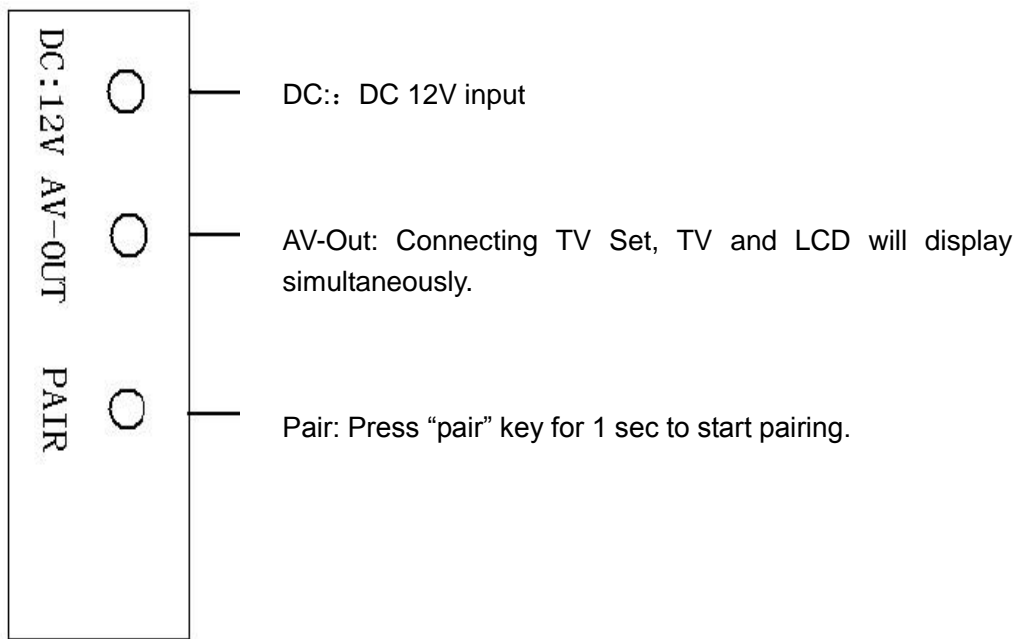Talk Key: Short press switchover the speaking side

Right Key: To adjust parameter or switchover channels on Preview Screen.

Left Key: To adjust parameter or switchover channels on Preview Screen.

Shifting key on menu, VOX adjusting on Preview Screen

Shifting key on menu, VOX adjusting on Preview Screen

Menu/OK Key

DC:：DC 12V input

AV-Out: Connecting TV Set, TV and LCD will display simultaneously.

Pair: Press "pair" key for 1 sec to start pairing.

## Packing Content

- 5V DC Adaptor for camera.                1PCS

- 12V DC Adaptor for LCD                1PCS

- 7" Wireless LCD Monitor                1PCS

- 2.4Ghz Wireless Camera                1PCS

- User Manual                1PCS

- AV Cable                1PCS

- Li-Battery for camera                1PCS

### Instructions

The camera and receiver use external power supply or built-in lithium battery, short press the Power/Pair button of the camera until the power indicator light is on.

Then, press the Power button of the receiver for 3 seconds to turn on, and then press the Pair key to pair, meanwhile press the Power/Pair key of camera for 3-5 seconds, power light will flash and start to pair. After pairing succeed, Monitor will display "Paired" information, and to connect with cameras automatically.

In the Preview Screen to press up/down button to adjust the volume of the LCD receiver and press left/right to switch the channels.

Note: It's needed to pair only at the first time, after that, do not need to pair again.

## Main Menu:



In the Preview Screen short click OK button to enter the main menu display
● Baby Vol
● Effect
● Setup
● Exit

## Baby Vol Mode

In the preview screen short click OK button to enter the main menu display,the options box stops in the "Baby Vol" option,this model is to adjust the volume of the camera and to adjust the volume of the LCD when pressing up/down button in the preview screen.Click OK button to enter the volume adjustment, press left and right adjust the volume , volume level from 0-100 (10 a level volume).Press OK Key to confirm and exit after this.

## Effect Mode



### 1：Brightness Mode

In the preview screen, short click OK button to enter the main menu display, then press the up/down key to move to Effect position when the press OK to enter.Press the up/down key move to brightness ,press left/right key to modify the parameter,the brightness level from 0-100 (10 a level brightness )

Press OK Key to confirm and exit after this. Brightness

Note：The brightness can be adjusted usefully only after receiving the image of camera, and the brightness is the camera's, not the LCD's.

## 2：Vertical Mode

In the preview screen ,short click OK button to enter the main menu display,then press the up/down key move to Effect position when the press OK to enter.Press the up/down key move to Vertical, press left/right key to modify the ON/OFF state.

    **ON:**Image display properly

    **OFF:**Mirror image shows around

Press OK Key to confirm and exit after this.

## 3：Horizontal Mode

In the preview screen, short click OK button to enter the main menu display,then press the up/down key move to Effect position when the press OK to enter.Press the up/down key move to Horizontal, press left/right key to modify the ON/OFF state.

    **ON:**Image display properly

    **OFF:**Mirror image shows around

Press OK Key to confirm and exit after this.

## 4：Contrast Mode

In the preview screen, short click OK button to enter the main menu display,then press the up/down key move to Effect position when the press OK to enter.Press the up/down key to move to contrast, press left/right key to modify the parameter,the contrast level from 0-100 (10 a level contrast)

Press OK Key to confirm and exit after this.

Note: The contrast can be adjusted usefully only after receiving the image of camera.

5：Saturation　Mode

In the preview screen, short click OK button to enter the main menu display, then press the up/down key move to Effect position when the press OK to enter.Press the up/down key move to Saturation, press left/right key to modify the parameter,the saturation level from 0-100 (10 a level saturation)

Press OK Key to confirm and exit after this.

Note：The saturation can be adjusted usefully only after receiving the image of camera, and the saturation of this mode is fixed so the parameter won't change when adjusting.

## Setup Mode



1：VOX Mode

In the preview screen, short click OK button to enter the main menu display,then press the up/down key move to Setup position when the press OK to enter.Press the up/down key move to VOX Mode,press left/right key to modify the parameter.There are OFF/LO/HI 3 choices,it will display［---］if not receiving images.

OFF:close sonic function, sonic function is invalid

LO:Sonic low sensitivity,when the LCD enter sleep mode,the voice of the camera is more than 60 dB ,and the LCD will open automatically, and the screen display "VOX ".

HI：Sonic high sensitivity,when the LCD enter sleep mode,the voice of the camera is more than 56 dB ,and the LCD will open automatically, and the screen display "VOX ".

2：Auto Sleep Mode

In the preview screen ,short click OK button to enter the main menu display, then press the up/down key move to Setup position when the press OK to enter.Press the up/down key move to Auto Sleep,press left/right key to modify the parameter.

OFF：When auto sleep mode off,short press POWER button to enter the auto sleep mode.

30S/1M/3M/5M/10M：choose the time of automatic out screen time,then the LCD receiver will enter auto sleep mode.When the LO/HI of vox mode is on, the voice of the camera in the control level more than set up,the LCD will light automatically.

3：TV  OUT Mode

In the preview screen ,short click OK button to enter the main menu display, then press the up/down key move to Setup position when the press OK to enter.Press the up/down key move to TV OUT TV formats output model,press left/right key to modify the parameter, PAL-M/NTSC-3.58 / PAL/NTSC-4.43 four formats for choosing.

Pair Process

LCD Monitor with power, meantime cameras should be with power;

1: Choosing the camera code which is going to pair by Left and Right Key of the Monitor,such as CH1;

2:Press Power/Pair of Monitor for 3 seconds to make pairing, POWER light will flash LCD display"1# baby Pairing…"

3:Press the Power/Pair key of camera for 3 seconds, Green light flash and enter into pairing code;

4:After pairing successful, Monitor will show "Paired" information, and connect with cameras automatically.

If can not pair code, it returns to original code and back to original state after 15 seconds,

Repeat Step 4.2.2 ～ Step 4.2.5 to make pairing code of Camera 2,3,4.

Note:Different cameras should choose different channel to code, otherwise, it will override other cameras in this channel to code.

Problems & Solutions

**1:There are screaming voice if the distance between the camera and monitor is near**

Answer: This phenomenon is caused by the acoustical feedback, the audio signal of microphone is gleaned by receiver's speaker and then the microphone pick the signal again and transmit them together with camera's voice, the receiver will have louder voice than before. Therefore, it can cause the formation of self-excited oscillation round and round, and result in the screaming voice. However, you can

solve this problem by turn down the speaker volume or insert the headset into the receiver.

## 2: No response

Answer: Check whether the power adapter is connected well, heck whether the battery is installed well. Please install the battery in correct direction. And check whether receiver power button is ON position

## 3 : LCD can't display when power on

Answer: Please Check whether the AV line and not connected to insert the TV, whether press the POWER button is short in auto sleep mode, then press the POWER button in short time to see if the display work or not.

## Parameters

### a: Function

| Function | Description |
|---|---|
| Frame Rate | 15-25 Frame, Signal strong, frame rate high |
| Signal strength indication | 6 grade |
| Voice Volume | 10 grade |
| Talkback | Two-way talk, half-duplex |
| VOX | Switch on automatically when there is voice |
| One monitor with 4 transmitter | One receiver with 4 cameras, switch CH display |

| Real time clock: | Yes,24 hours system |
|---|---|
| LCD Size | 7 inch 800*480 RGB color LCD |
| Transmission safety | Use after pair code |

## b: Electrical parameters

| LCD Receiver Voltage | DC:12V1000MA |
|---|---|
| Camera Voltage | DC: 5V/1000MA ;Battery:External lithium battery 3.7V/850MAH |
| Frequency | 2.4GHz ISM Band |
| Wireless Work Method | FHSS |
| Transmission Power | 19dBm@CW mode |
| Transmission rate | 3Mbps |
| Operating Range | Open field：200-300 meter |
| Transmitter Work Current | TX: 400mA MAX, (No recharge current calculation) |
| Receiver Work Current | TX: 560mA MAX |
| Camera recharge current | 120-200MA |
| Work current for Auto sleep | TX:35mA(once every 0.5s)RX:40mA(once every 0.5s) |
| Audio rate | 16K |
| Audio range | 120Hz~3KHz |
| VOX Activate Volume: | -56/-60dB@ MIC Input |

| | |
|---|---|
| Camera resolution | 0.3 Mega |
| Video Rate | 15-25FPS |
| Out Put System | PAL an NTSC |
| Total harmonic distortion | <5.0% |
| SNR | 46dB |
| Receiving Sensitivity | -96dBm@BER=1e-3 |
| Night vision range | 3-5 meters |
| Operating Humidity | 20--80% RH |
| Operating Temperature | 0℃--60℃ |

Note： The product should be 20cm for end users.

FCC Warning

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 or more 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.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

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.

To comply with FCC RF exposure compliance requirements, this grant is applicable to only mobile configurations. The antennas used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.