

6" B&W WIRELESS MONITOR SYSTEM



USER'S MANUAL

User Information

The users manual or instruction manual for an intentional or unintentional radiator shall caution the user that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

For a Class B digital device or peripheral, the instructions furnished the user shall include the following or similar statement, placed in a prominent location in the text of the manual.

The Federal Communications Commission Radio Frequency Interference Statement includes the following paragraph.

This equipment has been tested and found to comply with the limits for a Class B Digital Device, pursuant to Part 15 for 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 frequency energy and, if not installed and used in accordance with the instruction may cause interference to radio communication. 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 from that to which the receiver is connected.

--Consult the dealer or an experienced radio / TV technician for help.



Graphic Symbol Explanation



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated 'dangerous voltage' within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Warning - to prevent fire or shockhazard, do not expose this monitor to rain or moisture;

(1) this device may not case harmful interference;
(2) this device must accept any interference received, including interference that may cause undesired operation.

FCC ID LABEL

6" B & W WIRELESS MONITOR SYSTEM
TRADE NAME: SATOW
FCC ID: PN00653
MODEL NO.: LEE-658BTW/583BAL

Troubleshooting

If you are not getting any signal at all

- Check the power on the camera and monitor.
Make sure power plugs are pushed all the way in.
- Check the channel switches on both camera and monitor are set to the same number.
- If you can receive sound, but don't have images, or the images are poor, adjust the V-HOLD/CONTRAST/BRIGHTNESS knob on the back of the monitor.

If the signal is poor, or there is interference

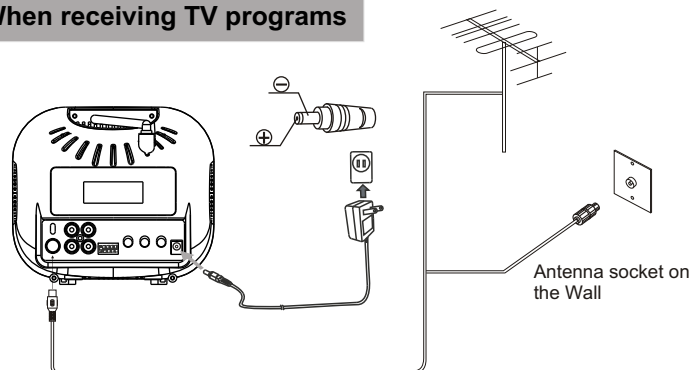
- Change the channel settings on both camera and monitor and keep them same.
- If there is a microwave oven in use in the path between the camera and monitor, remove the microwave oven or turn it off.
- Make sure the camera and monitor are within range of each other (range of approximately 300 feet, 100 meters in open air).

If the motion detection function is void

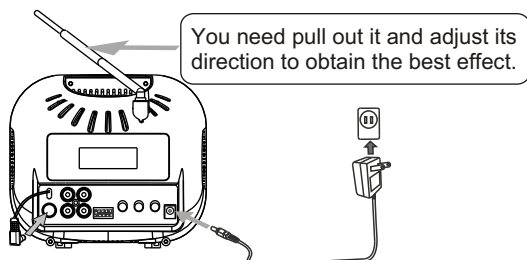
- Check the power on the camera and monitor, make sure power plugs are pushed all the way in.
- Slide the SENSOR switch to the ON position behind the monitor.
- Check the channel switches on both camera and monitor are set to the same number.

Connections

3. When receiving TV programs

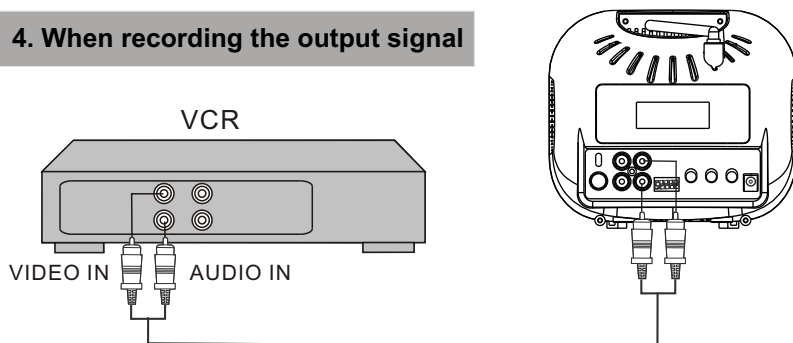


① When receiving CATV or outdoor antenna signal



② When using telescope antenna for receiving

4. When recording the output signal



Precautions

- Keep all its parts and accessories out of young children's reach.
- The camera's performance can be adversely affected by fingerprints or dirt on the lens surface. Avoid touching the lens surface with your fingers.
- Should the lens become dirty, use a blower to blow off dirt and dust, or a soft, dry cloth to wipe off the lens.
- Keep dry. Precipitation, humidity, and liquids, contain minerals that will corrode electronic circuits.
- Do not use or store in dusty, dirty areas.
- Do not store in hot areas. High temperatures can shorten the life of electronic devices and warp or melt certain plastics.
- Do not store in very cold areas. When the system warms up (to its normal temperature), moisture can form inside the case, which may damage electronic circuit boards.
- Do not attempt to open the case. Non-expert handling of the device may damage the system.
- Avoid dropping and strong impact.
- Operate this product using only the power supply included with it or provided as an accessory.
- Do not overload electrical outlets or extension cords as this can result in fire or electric shock.
- Do remember that you are using public airwaves when you use the system and that sound and video may be broadcast to other 2.4 GHz receiving devices. Conversations, even from rooms near the camera, may be broadcast. To protect the privacy of your home, always turn the camera off when not in use.
- When you don't use this kit for a long time, please unplug the power plug on both monitor and camera.

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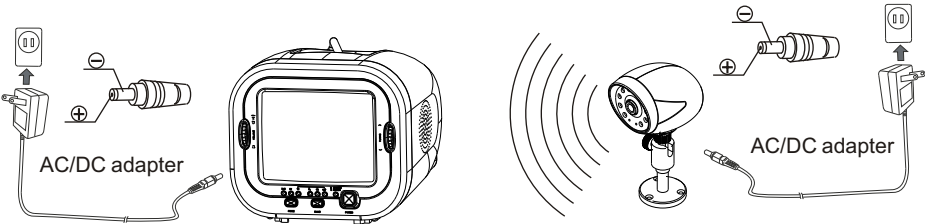
Introduction

The kit comes with a B/W wireless camera and a 6" B/W monitor, it will help you to build-up a portable, easy-to-install, cost-efficient, and expandable security system.

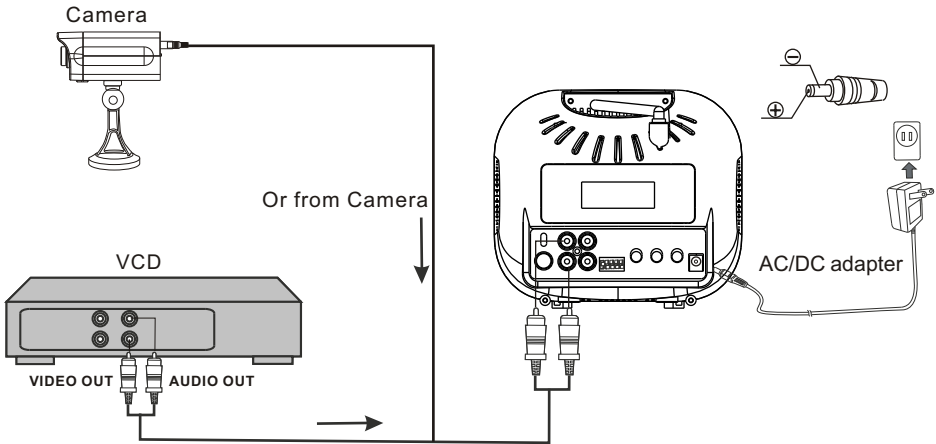
Using the latest wireless technology, signals from the camera travel through walls and floors to the monitor. Except that, the monitor can also receive TV programs and AV signal. Especially, its perfect motion detection function can help you to shift from TV/AV/STANDBY mode to 2.4G mode and turn on the screen automatically, at the same time it is accompanied by arios "DingDong" sound.

Connections

1. When receiving 2.4G wireless signal



2. When receiving AV wired signal

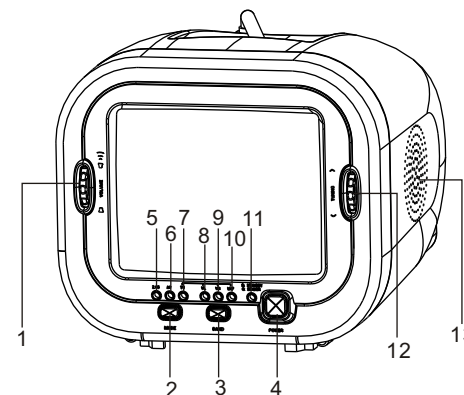


Specifications

■ CAMERA

ITEM	SPECIFICATION
Sensor	1/4" CMOS
Picture Elements	514(H)×484(V) PIXELS
Resolution	420 TVL
System	CCIR/EIA
Scanning Frequency	CCIR H:15625Hz V:50Hz/EIA H:15734Hz V:60Hz
RF Frequency	CH1:2414MHz, CH2:2432MHz, Ch3:2450MHz, CH4:2468MHz
RF Power	≥ 10 dBm
Transmitter Distance (Open air)	≥ 100c
Min Illumination	0 LUX (with IR LED)
S/N Ratio	≥ 48 dB
BLC	Auto
Electronic shutter	CCIR: 1/25S~1.49uS, EIA: 1/30S~1.875uS
AGC	Auto
Motion detector Distance	≥ 6m
Delay hold time	5±2 S.
CDS control	6~18LUX
Lens	f=3.6mm About 60 degree
Power supply	DC 9V 300mA
Power consumption	≤ 3W
Weight	200g
Operation temperature	0 ~ +40℃
Storage temperature	-40~+85℃

Front Panel Components And Controls Of Monitor



1. VOLUME KNOB

Adjusts the audio level. Turn this control up to increase the audio level and turn it down to reduce the audio level.

2. MODE BUTTON

Press this button to select working mode(2.4G/AV/TV).

3. BAND BUTTON

Press this button to select TV band(VL/VH/UHF).

4. POWER BUTTON

Press this button to turn on or turn off the machine.

5. LED for 2.4G mode

The red LED shows that the machine is working in 2.4G mode.

6. LED for AV mode

The red LED shows that the machine is working in AV mode.

7. LED for TV mode

The red LED shows that the machine is working in TV mode.

Front Panel Components And Controls Of Monitor

8. LED for VL

The red LED shows that the machine is working in VL band.

9. LED for VH

The red LED shows that the machine is working in VH band.

10. LED for UHF

The red LED shows that the machine is working in UHF band.

11. LED for monitor on/off and SENSOR on/off

The red LED shows that the machine is working in standby state.

The green LED shows that the sensor detection function is available.

The yellow LED shows that the sensor detection function is available but the machine is working in standby state.

The dark LED shows that the machine is working normally but the sensor detection function is void, otherwise there is no power supply for monitor.

12. TUNING KNOB

Selects the TV programs. Turn this control up to increase the program No. and turn it down to reduce the program No. .

13. SPEAKER

Specifications

■ MONITOR

ITEM		SPECIFICATION
Display tube		6" (15CM) B/W CRT
TV system		☐ CCIR D/K ☐ CCIR B/G ☐ EIA M ☐ SECAM L
Controls		Power/Mode/Band buttons 、 Brightness/Contrast/V-hold/Volume/Tuning knobs
Operation indicator		LED(MODE/BAND/PIR/STANDBY)
TV band		VHF-L VHF-H UHF
2.4 MHz channel		CH1:2414MHz, CH2:2432MHz, CH3:2450MHz, CH4:2468MHz
AV input	video	1 channel input CVBS 1.0VP-P 75 Ω RCA connector
	audio	1 channel input 0dBm 1K Ω RCA connector
AV output	video	1 channel output CVBS 1.0VP-P 75 Ω RCA connector
	audio	1 channel output 0dBm 1K Ω RCA connector
Speaker		$\geq 0.3W$
Resolution		≥ 420 TVL
Picture update		EIA 30 fps CCIR 25 fps
Power supply		DC 13.5V/1.2A or DC12V/1.25A
Power consumption		Max. 15W
Size		200 $\times$ 170 $\times$ 150 mm
Weight		1.38Kg
Operation temperature		0 $^{\circ}$ C~40 $^{\circ}$ C
Storage temperature		-40 $^{\circ}$ C~+85 $^{\circ}$ C

Features

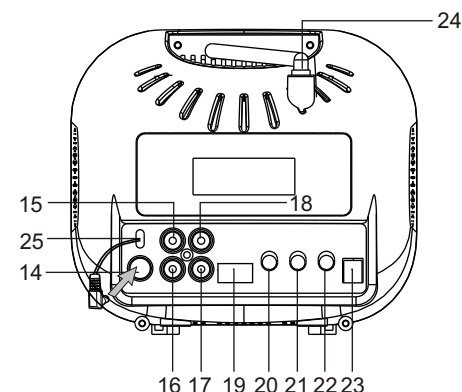
■ MONITOR

- * 2.4G/TV/AV 3in1
- * Telescope antenna and CATV receiving for TV
- * Motion detection, switching from standby/TV/AV to 2.4G mode automatically
- * "DingDong" alarm sound indicator
- * 4 channel of 2.4G for option
- * 1 channel AV input for play back or wired monitoring
- * 1 channel AV output for recording or slaved monitoring

■ CAMERA

- * 1/4" CMOS Sensor
- * Use 2.4GHz Band, Built-in Antenna,
- * Built-in microphone, Audio function
- * With motion detector
- * Built-in CDS to control IR LED
- * High resolution, low power consumption
- * 4 channels select function

Rear Panel Components And Controls Of Monitor



14. External antenna input

This is external antenna input jack. Connect outdoor antenna or CATV signal to this jack through a 75Ω coaxial cable.

15. Video input

This is VCR or wired video input connector.

16. Audio input

This is VCR or wired audio input connector.

17. Video output

This is connector for outputting video signals.

18. Audio output

This is connector for outputting audio signals.

19. 2.4G channel selector and sensor switch

Slide either of the CH1~CH4 dipswitch to the ON position for selecting corresponding 2.4G channel.

NOTE: Change the channel on both camera and monitor and make them the same.

Slide the SENSOR dipswitch to the ON position for selecting motion detection function.

Rear Panel Components And Controls Of Monitor

20. V-HOLD control

This control is used to lock the vertical position of the picture.

21. Brightness control

Adjust the picture brightness. Turn this control clockwise to increase the brightness, and turn it counterclockwise to reduce the brightness.

22. Contrast control

Adjust the picture contrast. Turn this control clockwise to increase the contrast, and turn it counterclockwise to reduce the contrast.

23. DC power control

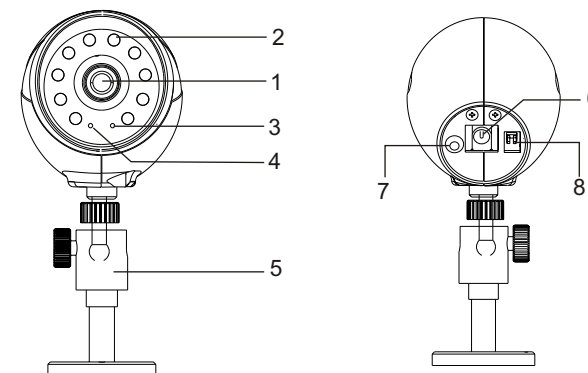
Plug the DC plug of the power adapter (supplied as a standard accessory) into this socket and connect it to an AC outlet.

24. Telescope antenna

When you use telescope antenna to receive TV programs, you must connect the RF linker which is back of the machine to ANT jack(14) .

25. RF linker

Front/rear Panel Components And Controls



1.Lens

Take picture through the camera. Please keep it clean.

2.IR LED

Emit beam for night vision.

3.Microphone

This unit has a built-in microphone that gathers sound at the camera location and transmits it to the monitor.

4.CDS

Control IR LED Emit beam

5.Mounting

Fix the camera.

6. DC IN socket

Power supply.

7. Power switch

Press it to turn on the power supply

8. Channel select

Channel(CH1/CH2/CH3/CH4)select.

CH1	CH2	CH3	CH4