

WIRELESS MONITOR WITH CAMERA



Please read all these safety and
operating instructions completely.

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Improtant Safety Precautions Before Setting Up

1

Congratulation on purchasing 2.4 GHz Wireless Monitor with Camera. Before operating your Wireless Monitor with Camera, please read all these safety and operating instructions completely and then retain for future reference.

- To prevent entanglement, never place the transmitter in a crib or playpen.
- Do not place the transmitter on any surface or mount it on any wall where the transmitter or its AC adapter cord are within reach of baby.
- Keep the transmitter and receiver out reach of children.
- Never use the transmitter or receiver near water. For example, do not use near a bathtub, washbowl, laundry tub, kitchen sink, in a wet basement, etc.
- Disconnect the AC adapters from wall outlets during long periods of non-use.
- Position the transmitter, receiver and AC adapters to allow adequate ventilation.
- Keep the transmitter out of direct sunlight
- To prevent overheating, keep the transmitter, receiver and AC adapters away from heat sources such as radiators, heat registers, stoves or other appliances (including amplifiers) which produce heat.
- Use only the AC adapters provided. Use of any others may damage the transmitter and/or receiver.
- Plug into an electrical outlet with standard household power.
- Changes or modifications not approved by SELLER could void user's authority to operate the equipment.
- Do remember that you are using public airwaves when you use the Wireless Monitor with Camera and that sound and video may be broadcast to other 2.4 GHz receiving devices. Conversations, even from rooms near the transmitter, may be broadcast. To protect the privacy of your home, always turn the transmitter off when not in use.

What You Get in This Package

2

The following elements should be included in the box. Please check that you have them all before installation.

- A transmitter with camera
- A receiver with monitor
- A 12V DC adapter for transmitter only
- A 13.5V DC adapter for receiver only
- A 12V **RECHARGEABLE BATTERY (OPTIONAL)**

Warning: Two DC of adapters are included with the Wireless Monitor with Camera. The DC adapters can not be interchangeably used. Use the adapter labelled OUTPUT: 7.5V DC with the transmitter. Use the adapter labelled OUTPUT: 13.5V DC with the receiver.

Getting to Know Your Wireless Monitor with Camera

3

Transmitter-----Front View

Antenna

Antenna does not rotate over 270 degrees.

Power Switch

Push on /off

Adjustable camera lens

For focus adjustment

Microphone

For clear audio Pick-up

Night vision LEDs

The automatic night vision LEDs allow the transmitter to see your baby even in a completely darkened room!

Note: The video image displayed on the receiver may appear "snowy" when the transmitter is operating in darkness or very low levels of light.

LED indicator

Lights up when the transmitter is "ON"

Moveable base

The transmitter can be wall mounted on the wall mount bracket, or it can be easily removed from the wall mount bracket for placement on a flat surface, such as a table top, dresser or shelf.

Note: The bracket does not rotate freely 360 degrees.

Transmitter-----Rear View

12V DC In

12V power adapter plug.

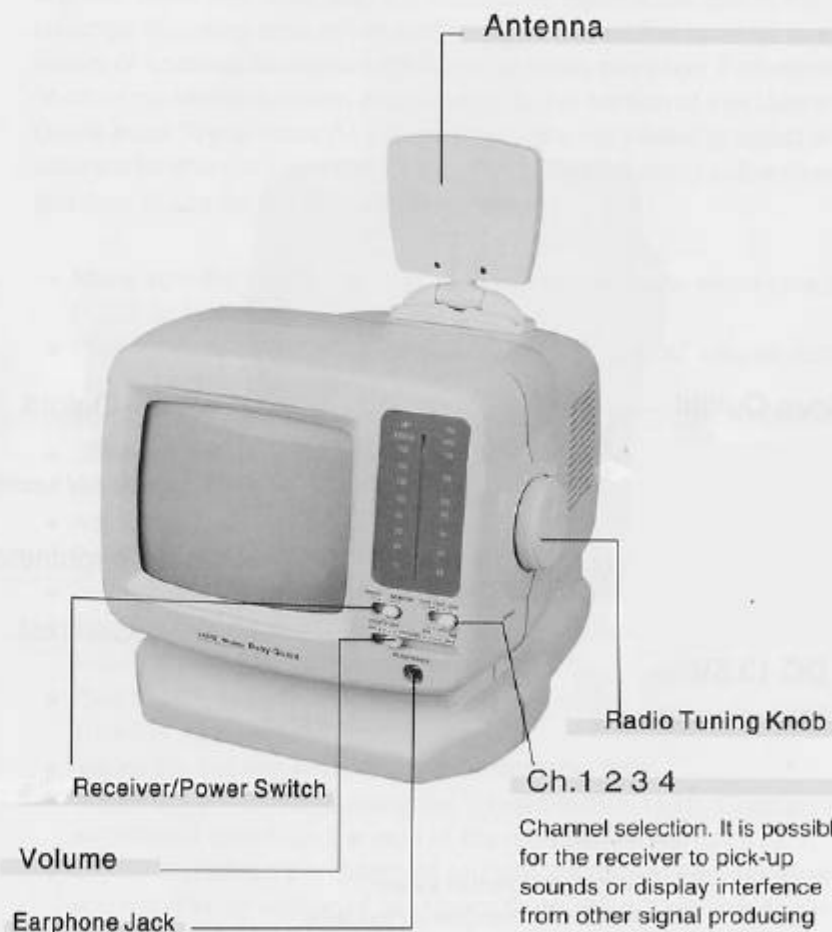


Channel 1 2 3 4

Channel selection. It is possible for the receiver to pick up sounds or display interference from other signal producing devices. To minimize the potential for this problem, four channels are available for use. Make sure that the transmitter and receiver are set to the same channel.

Front View

Antenna

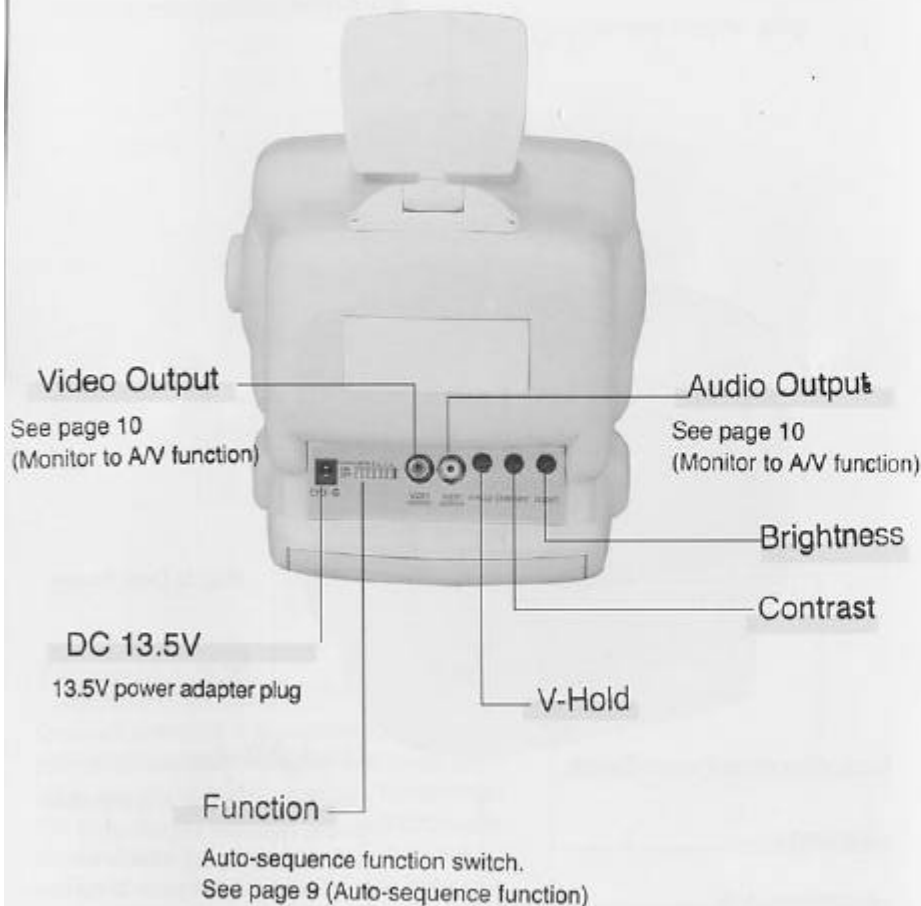


Radio Tuning Knob

Ch.1 2 3 4

Channel selection. It is possible for the receiver to pick-up sounds or display interference from other signal producing devices. To minimize this potential problem, four channels are available for use. Make sure that the transmitter and receiver are set to the same channel.

Rear View



If you wish to wall mounting the transmitter, it is recommended that the reception of the Video Monitor be tested before installing the wall mount bracket. Have one adult hold the transmitter against the wall at the selected mounting area while another adult moves the receiver to a variety of locations throughout the house to check reception. If interference or other problems develop, please refer to the section of this User's Guide titled "If you Have Any Questions". You may need to select a different location in the room for mounting. The following setps show you how to sey up the Wireless Baby Guard:

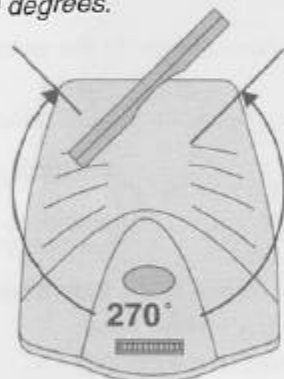
- Make sure the transmitter and receiver are set to the same channel. (1,2,3 or 4)
- Plug the jack on the 12V DC adapter cord into the DC adapter socket on the back of the transmitter.
- Plug the DC adapter into a standard wall outlet.
- Slide the ON/OFF switch on the side of the transmitter to the "ON" position. The power indicator will light.
- Adjust the angle and focus of the camera lens for best view of baby. Point the microphone pick-up directly toward baby.
- Position the antenna so that it points to the ceiling.
- Plug the jack on the 13.5V DC adapter cord into the DC adapter socket on the back of the receiver.
- Plug the AC adapter into a standard wall outlet. Turn the receiver on.
- Adjust the volume switches to a comfortable level.
- Adjust the video image using the V-Hold(vertical hold), Contrast and adjustment switch on the side of the receiver.
- Locate and orient the antennas on both the transmitter and receiver according to the section of this User's Guide titled "Orienting Antennas for Optimal Performance."

Orienting Antennas for Optimal Performance

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Wireless Monitor with Camera Broadcasts its high-quality audio and video using directional antennas which must be oriented in certain configurations for best results. The 2.4 GHz audio/video antennas have been designed to pivot and have limited rotation in either clockwise or counterclockwise directions.

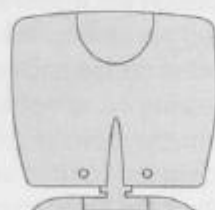
Warning: See instructions shown below for rotating antennas. Rotation antennas beyond the specified range will result in permanent damage to both antennas and the mechanical stopper. Antenna does not rotate over 270 degrees.



Maximum rotation of audio/video antenna shown.



Front View



Rear View

In most situations, the flat pitted face of the A/V antennas on both the transmitter and receiver should be facing one another. Since all rooms are different, for optimal reception, additional slight pivots or rotations may be necessary. If the transmitter and receiver are less than 10 feet apart, keep the A/V antennas flat in their casings.

What else can Wireless Monitor with Camera do

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Auto-sequence function

With the Wireless Monitor with Camera, user's can monitor a series of rooms for maximum supervision of the home (or office). The Wireless Monitor with Camera can use up to four transmitters on four different channels, while the receiver can receive signals on up to four different frequencies and display them in sequence. The Wireless Monitor with Camera includes 6 dip-switches for various operating modes, as described in the following diagram:

	1	2	3	4	4/8	4/B
OFF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ON	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

DIP 4/B: The automatic channels sequence function

ON: Enables the "CH 1 2 3 4" switch and stops the auto-sequence function. When stopping the auto-sequence function, slide all four channel dip switches to the "OFF" position.

Note: If one or more of the four dip-switches remains on, the auto-sequence function will continue on these channels, even though the 4/B dip-switch is in the "OFF" position.

OFF: Disable the "CH 1 2 3 4" switch and start the auto-sequence function.

DIP 4/8: Sequence interval timer

ON: Displays at four second intervals

OFF: Displays at eight second intervals

DIP 1~4 channel switch: setting up the automatic channel sequence function

Slide the channel dip-switch that you wish to view to the "ON" position, or slide the channel dip-switch that you wish to deactivate to the "OFF" position.

Example:

When you want to use the auto-sequence function:

If you have two transmitters and their channels are set on CH 1 and CH 3, and you wish to monitor the two different channels in sequence, you must first slide the "4/B" dip-switch to the "OFF" position, this means the "CH 1 2 3 4" switch is now disabled. Then slide the first and third dip-switches to the "ON" position. (See the following diagram.) If you wish these two channels to be displayed at eight second intervals, slide the "4/8" dip-switch to the "OFF" position; or you can keep it at "ON" position, and it will be displayed at four second intervals.

	1	2	3	4	4/8	4/B
OFF						
ON						

When you want to stop the auto-sequence function:

Slide the "4/B" dip-switch to the "ON" position to activate the "CH 1 2 3 4" switch.

Monitor to A/V function

Wireless Monitor with Camera receiver unit has audio/video outputs which can be used to transfer the picture and sound from the monitor screen to a TV screen. Connect the outputs to the A/V input on a TV set for a large screen display, or connect the outputs to a VCR to record transmissions for later viewing!

Symptoms	Check Points
No power is supplied to the transmitter or receiver.	<ul style="list-style-type: none"> Is the power cord disconnected? <ul style="list-style-type: none"> - Connect it. Transmitter/ Receiver is not turned on <ul style="list-style-type: none"> - Slide the ON/OFF switch to the "ON" position. Wrong AC adapter used. <ul style="list-style-type: none"> - Use the AC adapter labelled OUTPUT:7.5V with the transmitter, 13.5V with the receiver.
No sound or picture. Noisy sound or picture.	<ul style="list-style-type: none"> Channel switches are not the same setting. <ul style="list-style-type: none"> - Set the transmitter and the receiver to same channel. Signal interference due to microwave oven. <ul style="list-style-type: none"> - Turn off the oven or remove it from path between transmitter and receiver. Signal interference due to other signal producing devices. <ul style="list-style-type: none"> - Change the channel setting on both the transmitter and the receiver. - Identify and eliminate the source of interference. - Relocate the transmitter and / or receiver. Out of range. <ul style="list-style-type: none"> - Relocate the transmitter and / or receiver Improper antenna position. <ul style="list-style-type: none"> - Adjust transmitter / receiver antenna orientation.

Receiver(Monitor)

Rx Description		
Video System	NTSC	PAL
Receiver Frequency	2.4 GHz ~ 2.4835 GHz	2.4 GHz ~ 2.4835 GHz
Max. Range (clear line of sight)	300 feet	750 feet
Receiver Antenna	Directional	Directional
Receiver Sensitivity	-25 ~ -90 dBm	-25 ~ -90 dBm
Sound		
Max. Output	800 mW	800 mW
The output 10%	500 mW	500 mW
Picture		
Hor. Pull-In +	200 Hz	200 Hz
-	200 Hz	200 Hz
Hor. Hold +	400 Hz	400 Hz
-	400 Hz	400 Hz
Vert. Range	6Hz	6Hz
Linearity V	15 %	15 %
H	15 %	15 %
Pincushion V/H	3 %	3 %
Barrel Dist V/H	3 %	3 %
Keystone Dist	3 %	3 %
Scan Redisplay Rate V	90 %	90 %
H	90 %	90 %
Resolution at Center V	250 Lines	250 Lines
H	300 Lines	300 Lines
Luminance Max	100 cd/m2	100 cd/m2
Current Consumption	1200 mA	1200 mA
Power Supply	DC 13.5V	DC 13.5V

Transmitter(CMOS)

Tx Description		
Video System	NTSC	PAL
Transmitter Frequency	2.4 GHz ~ 2.4835 GHz	2.4 GHz ~ 2.4835 GHz
Max. Range (clear line of sight)	300 feet	750 feet
Transmitter Antenna	Directional	Directional
Transmitter Sensitivity	0 dBm FCC	10 dBm CE
Number of Effective Pixels	320 X 240	352 X 288
Picture of color	B/W	
Optical Size	1/3"	
Scanning System	2 :1 interlace	
Resolution(TV line)	240 (h)	
Auto Exposure	1/60 - 1/6000 sec.	
Gamma Correction	auto	
Backlight Compensation	auto	
Indoor/Outdoor	indoor only	
Night-time	1 to 2 m	
MIC. Sensitivity	2 - 3 meters	
Aux. Input	1 X video, 2 X audio	
White Balance	auto	
Number of Channels	4	
Current Consumption	300 mA	
Power Supply	DC 12 V	