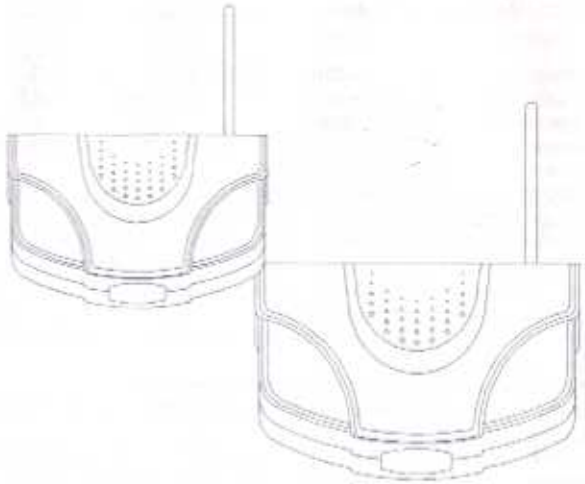
Model No.: SAV-2000

2.4 GHz A/V SENDER

Users' Manual



Contents

IMPORTANT!
Read this Carefully before Installing or using these units.

DANGER-HIGH VOLTAGE- Unit should only be opened by an authorized technician if service is required.

Safety Precautions

For correct and safe operation of this system it is essential installers, end-users and service technicians follow all safety procedures outlined in this manual. Specific Warning and Caution Statements (and/or symbols) are marked on the units where needed.

Warning and Caution Statements

"WARNING" indicates a situation where failure to follow proper procedures can cause personal injury.

"CAUTION" indicates a situation where failure to follow proper procedures can cause damage to the equipment.

PLEASE READ CAREFULLY AND SAVE

This manual contains important information about this product's operation.
If you are installing this product for use by others you must leave this manual- or copy - -with the end user.

Important Safety Precautions Before Starting

Congratulation for your purchase of this 2.4GHz Wireless Audio/Video Sender system, please read the following safety and operation instructions carefully before operating you Wireless Audio/Video Sender system, and then retain this user's manual for future reference.

- To prevent entanglement, never place the camera in a crib or playpen.
- Do not place the camera on any surface or mount it on any wall where the camera or its DC adapter cord is within reach of children.
- Never use the camera or receiver near water. For example, do not use near a bathtub, Laundry tub, kitchen sink, in a wet basement. etc.
- Disconnect the DC adapters from wall outlets when not using.
- Position the camera, receiver and DC adapters to allow adequate ventilation.
- Keep the camera out of direct sunlight.
- To prevent overheating, keep the camera, receiver and DC adapters away from heat sources such as radiators, heat registers, stoves or other appliances(including amplifiers)with high operating temperature.
- Please make sure use only the DC adapters provided. Use of any others may damage the Camera and/or receiver.
- Plug into only the standard household electrical power output.
- Mis-handing, change or modifications not approved by manufacturer could void the warrantee applied to the equipment.
- Please always remember that you are using the public airwaves with the Wireless Audio/Video Sender system, the sound and video may be broadcasted to other 2.4GHz receiving devices, even conversations from rooms near the camera may be broadcasted.
- To protect the privacy of your home, always turn the system off when not in use.

General description

The SAV-2000 A/V SENDER is designed for operation in dry and indoor environment.

Please only use the 10V main adapters provided, use of other non recommended adaptor may result damage the system, and void the warranty.

It is not recommended to change nor modify any part of this product.

This appliance is registered for use as a radio transmitter, CE-tested, and complies with the Low Voltage Directives.

Please always read and refer to safety and assembly instructions with any questions.

No warranty liabilities shall be accepted for any damages caused by failure to observe these operating instructions, nor any legal liability for consequent damages.

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

Safety instructions

Injury in the form of any electric shock could result if this appliance is handled improperly.

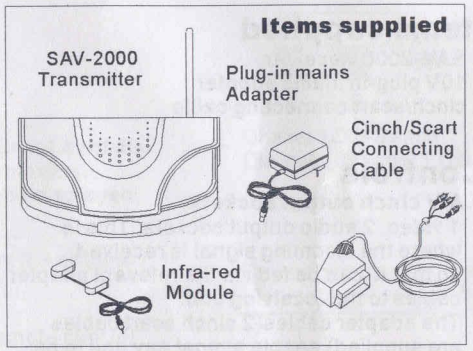
These operating instructions, and in particular the following safety instructions must be followed at all times.

- Opening the adapters is prohibited and warranty will be void.
- If the system needs to be examined, this must be done by a qualified licensed electrician.
- The system is only to be used in dry, indoor rooms.
- Do not operate this system in any area with high atmospheric humidity and extreme ambient temperatures.
- If any fault in the power supply is discovered, the system must be taken out of operation at once. Defective parts must be replaced by original spare parts.
- The system should be disconnected from the mains voltage if a thunderstorm is imminent, as a precaution against damage by lighting. This also applies if the system is to be left unused for any length of time.
- The electrical rating must be adhered to at all times-this applies particularly to the operating Voltage and the mains adapters.
- In the event of a breakdown, the system should be sent to the dealer from which it was bought for examination by the manufacturer.

The SAV-2000 Transmitter

Items supplied

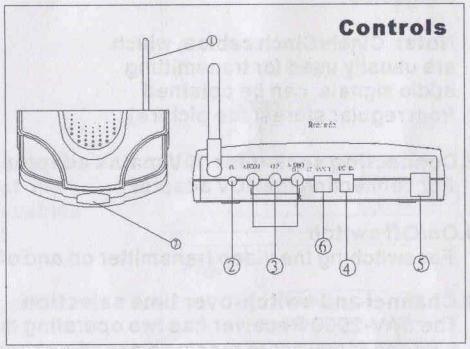
1 SAV-2000 Transmitter
1 10V plug-in adapter
1 infra-red module
1 cinch/scart connecting cable



Controls

1. 433MHz aerial

This receives the 433 MHz signal from the origin remote control unit transmitted by radio by the SAV-2000 Receiver.
The enclose infra-red module passes on the infra-red remote control signals to the unit (e.g. the VCR)to which it is connected the aerial must point upwards when it is in Use..



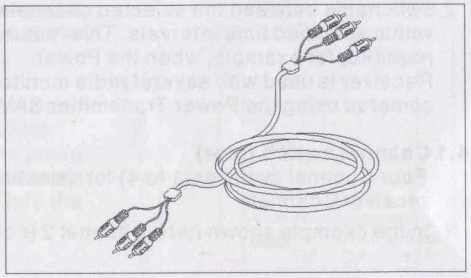
2.Socket for extension module

This is used to connect the extension module for the remote control of the transmitter. the infra-red diode on the extension module must be glued to the infra-red "eye"of the unit to be controlled.

3.A/V cinch input sockets

1 Video, 2 Audio input sockets for feeding in the transmission signal. The appropriate adapter cables are available as accessories (2 are supplied with the unit) to allow any unit to be connected.

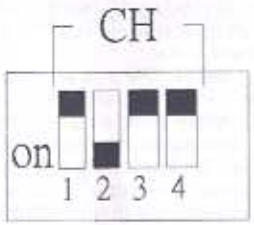
Note: Cinch/Cinch cables, which are usually used for transmitting audio signals, can be obtained from general stores(see picture)



4.10V input socket
For connection to the 10V adapters

5.On/Off switch
For switching the video transmitter power on and off.

6."CH" channel switch(rear).
4 channel switch-over switches for channel selection. The same channel must be selected for both transmitter and receiver. This setting makes it possible to operate up to 4 systems independently. Use CH Switch 1-4 to select a channel, set the switch to ON position (e.g. Channel 2) to select the required channel.



7.LED pilot light
This lights up when the transmitter power is on.

The SAV-2000 Receiver

Items supplied

1 SAV-2000 Receiver
1 10V plug-in mains adapter
1 cinch/scart connecting cable

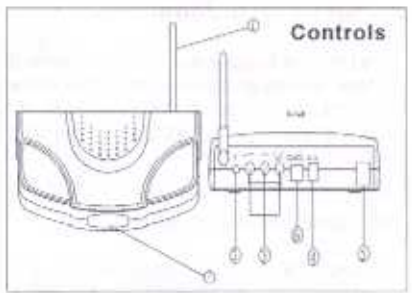
Controls

1.A/V cinch output sockets
1 video, 2 audio output sockets. This is where the incoming signal is received, so that it can be fed via the relevant adapter cables to the receiving unit.
The adapter cables(2 cinch scart cables are supplied) enable almost any unit to be connected.

Note: Cinch/Cinch cables, which are usually used for transmitting audio signals, can be obtained from regular stores(see picture)

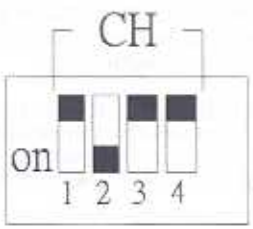
2.Connecting socket for 10V mains adapter
For connecting the 10V adapter

3.On/Off switch
For switching the video transmitter on and off



4.Channel and switch-over time selection
The SAV-2000 Receiver has two operating modes:
1.Permanently set to receive a specific channel.
2.Switchable between the selected channels within specified time intervals. This feature is required, for example, when the Power Receiver is used with several radio monitoring cameras using the Power Transmitter SAV-2000.

4.1 Channel switch (rear)
Four Channel switches(1 to 4) for selecting the receiver Channel.
In the example shown here,Channel 2 is activated.

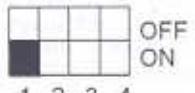


4.2 The Auto-Sequence Feature

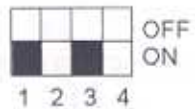
The Auto-Sequence Feature is automatically activated when more than one channle switch is selected and set to ON position. The channels selected will be displayed on the monitor /TV with a five seconds interval time.

To stop Auto-Sequence Feature, simply slide the dip-switches you don't want displayed to OFF position on both the Transmitter and Receiver units. Channel dip-switches in the OFF position are inactive and will not be shown on the monitor.

The auto-sequence feature is activated when more than one channel is switched ON. The channels switched ON will display on the monitor at three second intervals.
For example, if you want to select two channels, set channel 1 and channel 3 dip-switches to ON position. Then (CH1) and (CH3) will start to display on the monitor in sequence at three seconds intervals. This interval time is preset by the factory and cannot be adjusted by the user.



Channel Dip-Switch Diagram Channel 1 ON



Channel Dip-Switch Diagram Channel 1 ON

To stop the auto-sequence function:

Slide the dip-switch of the channel(s) you do not want displayed to OFF on both that camera and the monitor. channels in the OFF position will no longer be displayed.

5.Aerial for control channel
This transmits the 433MHz control signals from the original remote control unit.

6.Infra-red "eye"
This is the point towards which the standard remote control unit of the unit connected to the power Transmitter has to point.

Connection for the SAV-2000 Transmitter

The video and audio signal for radio transmission can be fed in via the cinch sockets to the Rear side of the SAV-2000 Transmitter, and the relevant adapter cables can be used for connection to any required uni t (Cinch/scart adapter cables are supplied).

Connections(Figs. 1-2):

1.Plug the cinch plug of the connecting cable into the AV Socket of the Power Transmitter. Please note that the colours of the Plug and the socket are the same.

2.Now connect the plug at the other end of the cable to the AV output socket of the unit the signals of which are to be transmitted. Please make sure that the poles of the scart plug are the right way round. Use the cable identified as "Transmitter"(out). Do not force it into the socket!

Fig.1

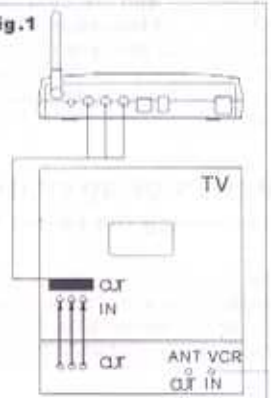
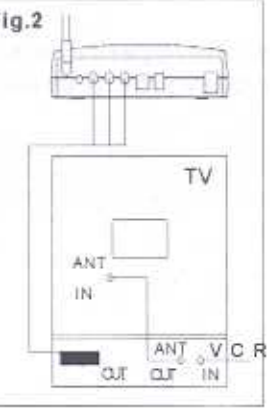


Fig.2



PLEASE NOTE: if you use a cinch cable(one of the accessories)for this connection, note when connecting it to the unit that the colour of the plug must match the colour of the socket on The unit If they are all different, note the following: the yellow plug carries the video signal and must be inserted into the "video"socket, the red one goes into the "audio right" sockets, and the white one into the "audio left" socket.

3. Set the channel switch to one of the 4 channels (Ch. 1to 4).
NOTE: The same channel must be set at both the SAV-2000 Transmitter and SAV-2000 Receiver so that they can operated compatible with one another.

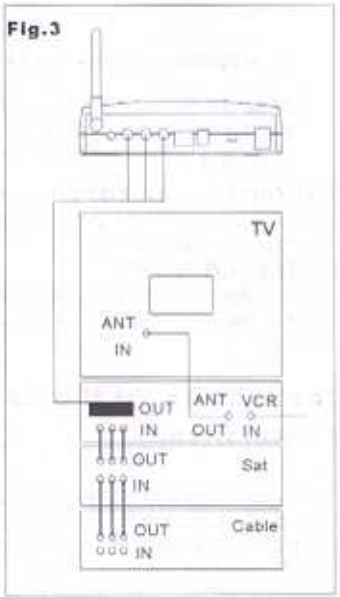
4. Plug the adapter provided into a 230V mains socket, and the 10V plug into the socket provided. use only the adapter provided, use of other may damage the product and void the warranty.
5. Turn the on/off switch to "On" position, and place the SAV-2000 Video Transmitter in a suitable position, e.g. On top of the television set.

6. Plug the infra-red module into the "IR-extender" socket provided, and glue the infra-red diode onto the "eye" of the unit to be controlled.

Connecting a number of AV units(Fig.3)

If you intend to transmit the signals of a multiple receiver (i.e., VCR, DVD, etc),all these units have to be switched one behind another(see Fig.3). Now connect the Power Transmitter with the"Line out" sockets of the last unit.
NOTE: If the television set is already plugged into these sockets, you can take the alternative course of connecting via the aerial cable(see Fig.3), thus releasing the output socket for the SAV--2000 Transmitter connection.

Fig.3



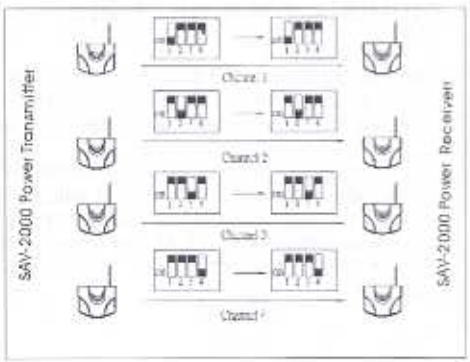
Modes of operation

Fine-tuning the Power Transmitter SAV-2000

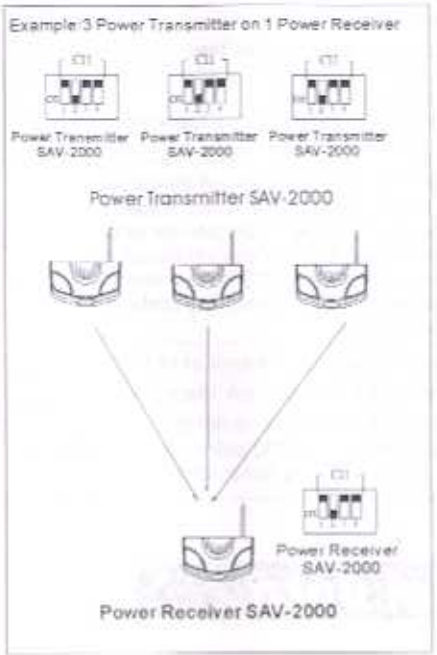
The Power Transmitter is capable of transmitting A/V signals over a distance of max.300 ft". (line-of-sight). Any wall or concrete ceiling represents a barrier, and thus shortens the system's transmission range.

Parallel operation of a number of SAV-2000 Transmitters

Up to 4 Transmitters can be operated in the immediate vicinity of one another by means of the various channel settings (1 to 4).

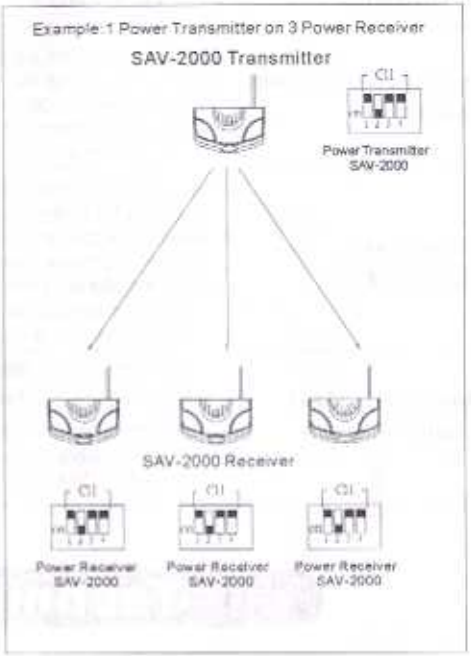


Receivers, for instance, a television set can be controlled by a number of transmitters. In order to avoid any interferences, only one SAV-2000 Transmitter can be switched on at any one time.



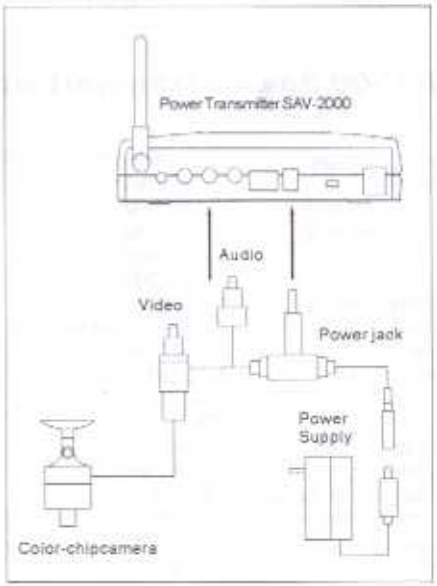
Expansion of the Power Transmitter SAV-2000

A SAV-2000 Transmitter set can be operated with multiple SAV-2000 Receivers for the reception simultaneously.



Using Power Transmitter SAV-2000 as a monitoring System

The Power Transmitter is able to transmit A/V Signals over a distance of max. 300 ft. (clear line-of-sight). This long range and the advantages of wireless transmission of sound and video makes the Power Transmitter very Ideal for use with cameras. The Power Receiver can be switched between 1 to 4 channels in a fixed cycle time, which means up to 4 cameras can be linked to one TV in order to create a complete A/V monitoring system. Suitable colour cameras equipped with sound transmission capability are available as accessories. These cameras can be easily connected to the Power Transmitter as the power will be supplied by the SAV-2000 Transmitter.



Common Trouble Shooting

Symptons	Check Points
Poor transmission quality	1. Reflections of the signal can sometimes effect the transmission quality, reposition the Power Transmitter or Receiver an inch or two, and this should improve the situation. 2. Change the channel settings on both the Power Transmitter and Power Receiver (Ch. 1 to 4).
No signal Received	1. Make sure the channel settings (Ch 1 to 4) are set on the same channels for both Power Transmitter and the Power Receiver. 2. Beyond the transmitting/receiving range? Relocate the position of both the Power Transmitter and Power Receiver closer, and always make sure the maximum range is 300 ft" clear line of sight (When two aerials can see one another without any obstacles. 3. Have you used the right scart plug?
Remote control Channel	1. if you use a radio-beam headset or some similar radio transmitter in addition to the SAV-2000 with the same frequency, which may reduce the effective range. 2. Is the RX cable included in the SAV-2000 pointed at the infra red "eye" of the unit for proper remote control feature?

Technical data

Power Transmitter Set SAV-2000

SAV-2000 Power Transmitter

Operating Voltage	Mains adapter 10V DC
Transmitter:	4 channels
Channel 1:	2.412GHz
Channel 2:	2.432GHz
Channel 3:	2.452GHz
Channel 4:	2.472GHz
Transmitter output:	1mW
Distance:	300 ft.(line of sight)
Receiver:	433.92 MHz
AV connections:	3 x cinch sockets 2 audio, 1 video
Modulation:	FM
Video input signal:	1 Vpp (type)
Audio input signal:	1 Vpp (type)
Video input impedance	75 ohm
Audio input impedance	600 ohm
Dimensions(W x H x D)	170 x 40 x 130 mm
Weight:	270 g

SAV-2000 Power Receiver

Operating Voltage	Mains adapter 10V DC
Receiver:	4 channels
Channel 1:	2.412GHz
Channel 2:	2.432GHz
Channel 3:	2.452GHz
Channel 4:	2.472GHz
AV connections:	3 x cinch sockets 2 audio, 1 video
Video output signal:	1 Vpp (type)
Audio output signal:	1 Vpp (type)
Remote control channel	433.92 MHz 0.1 mW transmitter output
Dimensions (W x H x L):	170 x 40 x 130 mm
Weight:	270 g