

VideoConnection

INSTRUCTION MANUAL



Model VC -1



Model VC -2



Model VC M-2



Model VC -3

Astrotel

Astrotel Communications Corp.

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Wireless Audio/Video Transceivers

" S E N D S O V E R 7 0 0 F E E T "

INTRODUCTION VIDEO CONNECTION

You have just purchased the finest wireless video and audio sender available in the world today.

This product has been designed to accommodate the needs of both household and commercial use for entertainment and security purposes.

The patented omnidirectional antenna allows your video sender to operate over the furthest amount of distance and through the most difficult structures of any product available.

This omnidirectional video sender allows you to send both crisp, clear video and audio information through walls, around corners and up or down levels.

For entertainment purposes, Video Connection Units can be connected to a VCR, a satellite TV receiver, DVD player, CD player or other equipment as source equipment. The information can then be sent to another TV or computer or amplified speaker system.

The Video Connection is also a superb child monitor or security device which allows video and audio of children playing, swimming or babies while at rest and can also be used to monitor a front door or garage, etc., for security purposes.

NOTE: The Video Connection is an omnidirectional product. However, best results are often attained when transmitter and receiver are facing one another or are in line with one another as well as can be done under the circumstances.

You may also notice interference in the signal when a microwave oven or other microwave things such as radar from an approaching aircraft may enter into the area and disturb the microwave signals. This cannot be avoided and you may notice similar situations with car radios, television antennas, and CB radios which you may be familiar with.

LIMITED WARRANTY

WARRANTY CERTIFICATE

MODEL VIDEO CONNECTION

ASTROTEL COMMUNICATIONS warrants the Video Connection units to be free from defects in material arising from normal usage. ASTROTEL warrants all units for (1) one year to the original purchaser and will replace or repair at ASTROTEL discretion. In no event will Astrotel Communications be liable for (A) consequential misuse or damage. (B) If the unit has been altered or repaired in any manner. (C) If the product has been improperly installed and/or connected and/or adjusted. (D) If the product has been subject to abuse, misuse, neglect, accident, storage and transportation or handling damage. (E) If product has been subject to improper application. (F) For any damage that may be construed to have been caused by Video Connection products. (G) If product identification markings, labels and serial numbers have been removed, defaced or altered in any way.

In the event that it is necessary to return a unit against the provisions of this warranty the following procedure is to be followed:

1. Initial purchaser must return the product postage paid to the location set forth below.
2. Provide a written statement of complaint.
3. Enclose proof of purchase with returned unit.

No firm or person is authorized to modify or amend the terms of this warranty, and purported modification or amendment shall be null and void.

Send product directly to:

Astrotel Communications Corp.

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SPECIFICATIONS:

TRANSMITTER

VIDEO INPUT	RCA JACK 1 Vp-p
STEREO AUDIO INPUT LEFT/RIGHT	RCA JACK 1 Vp-p
TRANSMITTING FREQUENCY	2.45 GHz
MODULATION	FM
POWER SUPPLY	+12 VDC, 300 mA (max.)
TRANSMITTED POWER	10 dBm (max.)
DIMENSION	155 x 80 x 41 (mm.)
OPERATING CONDITIONS	Indoor Usage Only

RECEIVER

VIDEO INPUT	RCA JACK 1 Vp-p
STEREO AUDIO INPUT LEFT/RIGHT	RCA JACK 1 Vp-p
TRANSMITTING FREQUENCY	2.45 GHz
MODULATION	FM
POWER SUPPLY	+12 VDC, 300 mA (max.)
RECEIVER SENSITIVITY	80 dBm
REMOTE CONTROL SIGNAL FREQUENCY	434 MHz (for Video Conn. II only)
DIMENSION	155 x 80 x 41 (mm.)
OPERATING CONDITIONS	Indoor Usage Only

COLOR CAMERA

ADJUSTABLE FOCUS	COLOR CAMERA
EFFECTIVE IMAGE AREA	4.8 X 3.6 MM
FORMAT	1/3" IMAGE SENSOR
ARRAY SIZE	510 X 492 PIXELS (NTSC), 628 X 582 PIXELS (PAL)
AUTO ELECTRONIC EXPOSURE	1/60 - 1/2000 SEC.
MINIMUM ILLUMINATION	10 LUX @ F 1.4
S/N RATIO	42 DB
WHITE BALANCE	AUTO
AUTOMATIC GAIN CONTROL	18 DB
APERTURE CORRECTION	AUTO
WEIGHT	3.5 OZ.
TRANSMITTER SIZE	W 2.5" X H 3" X T .75"
CAMERA SIZE	W 1.5" X H 1.5" X T 1.5"

BLACK & WHITE CAMERA

Adjustable Focus	Black & white camera
Array Size	E/A 320 x 440 pixels, CCIR 352 x 288 pixels
Format	1/3" image size
Scanning	2:1 interlace
Resolution	240 (h) TV lines
Auto Exposure Control	1/60 to 1/6000 sec.
Minimum Illumination	1 lux @ fl. .4
S/N Ratio	46 dB
Weight	3.5 oz
Transmitter Size	W 2.5" x H 1.5" x T 1.5"
Camera Size	W 1.5" x H 1.5" x T 1.5"

VIDEO CONNECTION WIRING

There are two units: a transmitter and receiver. The transmitter hooks up to the source such as video cassette player or satellite TV receiver. When using a VC-3 the video and audio is a part of the transmitter. No additional source is required.

The receiver portion is then hooked up to the television, monitor, stereo amplifier, or computer as desired.

Both the standard transmitter and the receiver must be hooked up to a 12V source as indicated in drawing below. The **high power** and **2 watt** transmitters require 6V 1000mA and 9V 1000mA power supplies respectively. Standard RCA type cable connectors are used for wiring of unit to source or TV, stereo amplifier, etc.

TRANSMITTER:

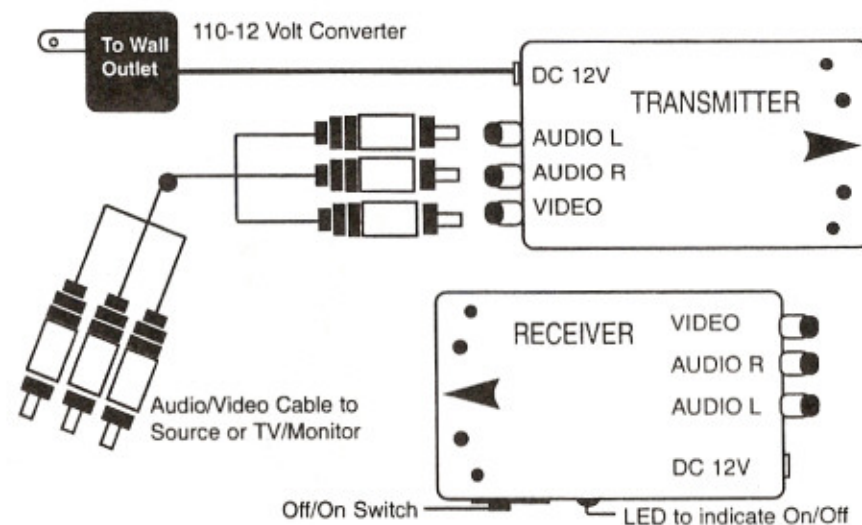
The Video Connection has indications of video, audio left, audio right and power input. You will note on your source equipment, it will have a corresponding indication of video out, audio out left, and audio out right. This hooks up to the transmitter.

RECEIVER:

The receiver is then hooked up to the TV or monitor or stereo amplifier in a similar fashion matching the video input and audio outputs on the receiving equipment. You may wish to hook the video directly to a TV while separating signals for audio and send them to a stereo amplifier for increased listening pleasure.

Please see the following wiring instructions for clarification.

VIDEO CONNECTION BASIC WIRING & FEATURES



WATCHER MINI

NOTE: The Mini Series multi channel units, four or eight cameras or transmitters or any mix of four or eight can be viewed by a single receiver.

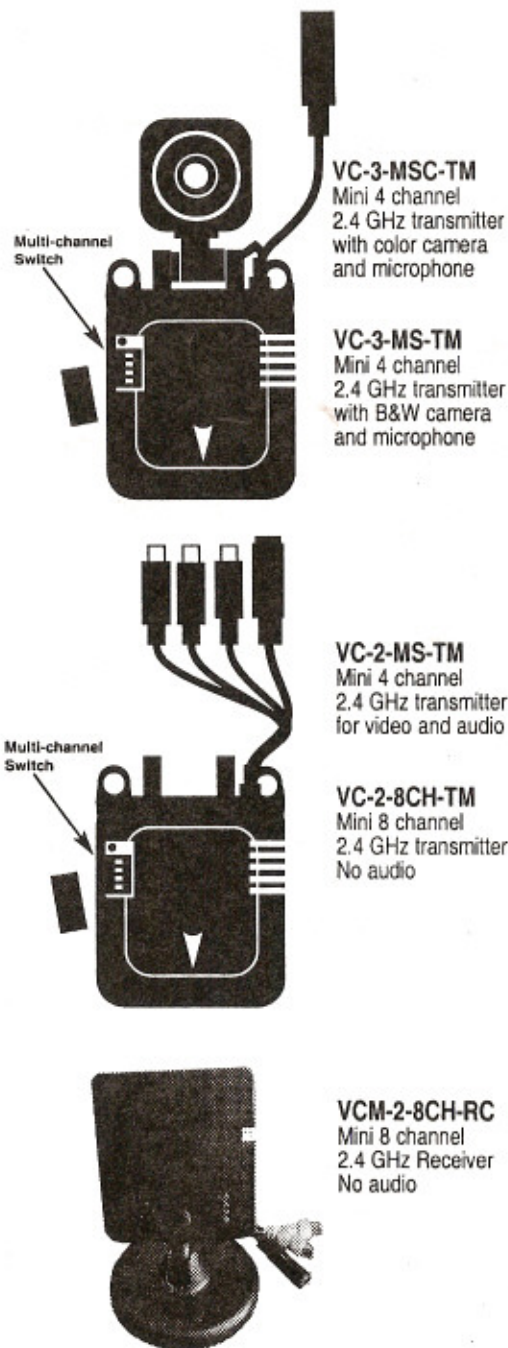
Each camera/transmitter has small switches located under the rubber protectors as indicated. Remove rubber and see the 4 switches. Push **ON** only 1 switch of your choice.

The receiver that comes with the 4-channel feature has a slide switch on one side and when switched will pick up corresponding camera.

To operate the 8-channel unit, please follow the above steps for channels 1 thru 4. For channels 5 thru 8, please select as follows:

- 1 & 4 = channel 5
- 2 & 4 = channel 6
- 3 & 4 = channel 7
- 1, 3 & 4 = channel 8

The receiver that comes with the 8-channel feature has a push button switch to change the channel.



FCC REGULATIONS AND USER PRECAUTIONS

REGULATIONS:

Video Connection has been tested and found to meet and comply with the limits for a Class B digital device under Part 15 of the FCC Rules and regulations.

This product transmits microwave at a frequency of 2.4 GHz. It is done in a fashion which meets FCC requirements and limits its ability to interfere with normal radio, television and communications frequencies.

However, it has been designed in such a fashion that other frequencies may have a tendency to interfere with this product and may experience some distortion or noise from time to time as these signals may be received.

The **high power** and **2 watt** units are not FCC approved and are only for sale outside the U.S.A. or FCC approved governmental agencies.

It is important that no modifications be done to these units which may alter their performance and if any activity is undertaken, it is at the sole responsibility of the user and/or individual modifying the product.

USER PRECAUTIONS:

This product works on low voltage and should present no particular hazard for electrical shock, although all units using electricity should be handled with care and concern.

A transformer is included with the Video Connection to operate on 110 volts and care should be taken to avoid electrical shock.

This product has been designed for indoor use and is not recommended for use and with exposure to outdoor weather conditions.

DISCLAIMER:

Astrotel Communications Corp. is the distributor of Video Connection and assumes no responsibility for the unlawful use, modification or tampering of the product.

To avoid any possible legal ramifications, any questionable use of this product should not be done without consulting local authorities.