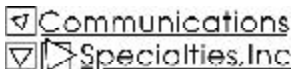


# USER'S MANUAL



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## **Beamer-V™** Box Version

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### **Introduction**

Beamer-V is a high-quality, cost-effective fiber optic video transmission system designed to transmit color and black and white signals over distances of more than a mile. The system is easily installed and designed for long, trouble-free operation in most indoor or outdoor-protected environments. Beamer-V is compatible with all analog video standards, including NTSC, PAL and SECAM, and will operate with all standard 62.5 micron fiber optic cables and industry standard ST type connectors.

If you purchased part numbers 3100 or 3101, your product is supplied with:

1 Beamer-V Transmitter or Receiver unit	1 User's Manual
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If you purchased part number 3105, your product is supplied with:

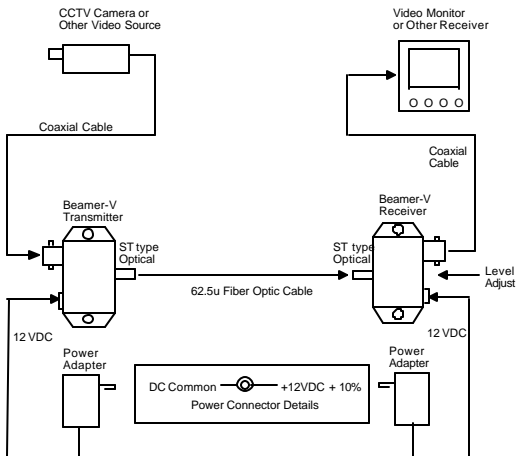
1 Beamer-V Transmitter unit	1 User's Manual
1 Beamer-V Receiver unit	2 12 Vdc Power Supplies

### **Installation**

See the diagram on the following page for assistance during installation.

Please note that Beamer-V Box units (transmitter P/N 3100 and receiver P/N 3101) may be used in conjunction with 2-channel card versions of Beamer-V (transmitter P/N 3108A and receiver P/N 3109A). If you are connecting one or more box units to a card unit, please refer to the manual that came with your card unit for installation instructions regarding that portion of your system.

1. Mount the Beamer-V transmitter at the camera or source of video to be transmitted. Use the mounting tabs on the housing or the enclosed self-adhesive mounting pad.



**Installation of Beamer-V Fiber Optic Transmission System**

2. Connect one of the plug-in power supplies to the input connector on the Beamer-V transmitter. If an external power source is to be used, be certain it provides regulated 12 volts DC  $\pm 10\%$ . Current from this source will not exceed 250 ma. When power is applied, the red PWR indicator LED will glow. Note that the (-) side of the power input is connected to the enclosure.
3. On the Beamer-V transmitter, connect the video signal to be transmitted to the BNC connector and the ST fiber optic cable plug to the optical connector.
4. Mount the Beamer-V receiver at the monitor or device where the video will be received.
5. Connect the remaining plug-in power supply to the Beamer-V receiver's input connector. If an external power source is to be used, be certain it provides regulated 12 volts DC  $\pm 10\%$ . Current from this source will not

exceed 250 ma. When power is applied, the red PWR indicator LED will glow. Note that the (-) side of the power input is connected to the enclosure.

6. Connect the video monitor or other video receiving device to the BNC connector on the Beamer-V's receiver and the fiber optic cable plug to the Beamer-V receiver's optical connector.
7. For a pleasing picture, slowly adjust the LEVEL control on the Beamer-V's receiver. If high accuracy is required, set this level to 1 volt pp with a 75 ohm load.
8. Your Beamer-V video transmission system is now installed.

## **Interface Troubleshooting**

In rare instances, where the Beamer-V transmission system does not immediately operate, the following "checklist" should be used:

1. Is the correct operating power present and connected to the proper pins on the power connector? If so, the red PWR LED should glow.
2. If an external power source is being used, does it matter that the signal and power ground are connected to the enclosure?
3. Is a video signal present at the Beamer-V transmitter input?
4. Is the proper 62.5 micron fiber optic cable being used?
5. Is the length of fiber optic cable longer than 1.5 miles? If so, a weak, snowy picture may result.
6. Are the fiber optic connector ends free of any minute dust or dirt particles? If there is any doubt, the use of a lint-free cloth moistened with a drop of alcohol should be used to gently clean the optical surface.

*If the above is correct and the system will still not operate properly, call our customer service department for further assistance.*

## **CE Information**

Standards to which conformity is declared:

- |     |   |
|-----|---|
| EMC | EN 55022: 1994, CISPR 22: 1993, Class B Limit     |
|     | EN 50082-1: 1992                                  |
|     | IEC 801-2: 1991; IEC 801-3: 1984; IEC 801-4: 1988 |

## **FCC User Information**

**WARNING:** This equipment generates, uses and can radiate radio frequency energy and if not installed and used in accordance with the instruction manual, may cause interference to radio communications. It has been tested and found to comply with the limits for a Class A computing device pursuant to Subpart B of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference when operated in a commercial environment. Operation of this equipment in a residential area is likely to cause interference, in which case the user at his own expense will be required to take whatever measures may be required to correct the interference.

## **Limited Warranty**

Communications Specialties, Inc. (CSI) warrants that for a period of three years after purchase by Buyer, Beamer-V will be free from defects in material and workmanship under normal use and service. A Return Material Authorization (RMA) number must be obtained from CSI before any equipment is returned by the Buyer. All material must be shipped to CSI, Hauppauge, New York, at the expense and risk of the Buyer. Units returned to the Buyer will be shipped freight collect.

CSI's obligation under this warranty will be limited, at its option, to either repair or replacement of defective units, including free materials and labor, at its customer service facility in Hauppauge, New York. In no event shall CSI be responsible for any incidental or consequential damages or loss of profits or goodwill.

CSI shall not be obligated to replace or repair equipment damaged by fire, war, acts of God or similar causes, or equipment that has been serviced, altered, improperly installed or abused.

RMA numbers and repairs can be obtained from:

Communications Specialties Headquarters

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Fax: (631) 273-1638

Singapore Office

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