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Security

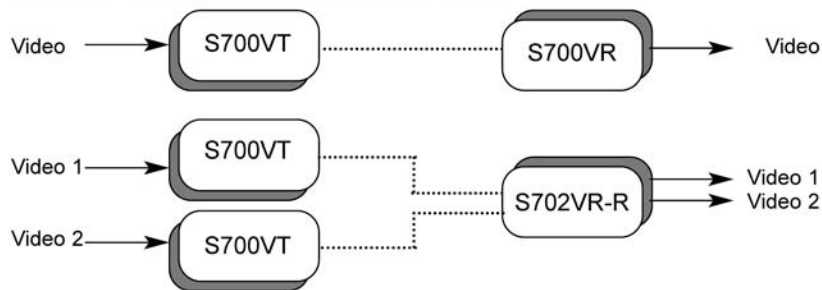**Fiber Optic
Subminiature Video Transmitter
Model S700VT-TST**

installation instructions

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imagination at work

FIGURE 1: SYSTEM CONFIGURATIONS

1 GENERAL

The S700VT-TST Video Transmitter is designed to transmit one video signal one-way over a single multimode fiber to one of the receivers in the S700VR or S702VR series. The receiver may be a standalone type or a rack-mounted type

NOTE: The term S700VR will be used generically in this manual to refer to all receiver models except where noted.

2 FEATURES

2.1 S700VT-TST TRANSMITTER

The S700VT-TST modules are housed in an extremely small cylindrical housing measuring approximately 43 mm (1.7 in) long by 15 mm (0.57 in) in diameter. An ST optical connector is fixed to one end, while a coaxial cable with BNC and power leads are attached at the other end.

2.2 RECEIVERS

The S700VT-TST transmitter can be used with any of the following receivers: S700VR-EST, S700VR-RST, S702VR-RST. The S702VR-RST supports two transmitters. Complete technical information on the receivers can be found in the S700V and S702V Product Specification.

All the receivers feature a diagnostic LEVEL/LOSS LED to indicate the presence of valid fiber signal. (S702V cards have two such LEDs). See TROUBLESHOOTING for more information.

rackmount receivers are designed to be mounted in Fiber Options' 515R1 or 517R1 card cages. Electrical power input is derived from the card cage.

3 INSTALLATION

The S700VT-TST transmitter is intended to be located on or near a CCTV camera. If the camera is mounted outdoors, the S700VT-TST must be mounted inside the housing with the camera.
1. Make sure there is sufficient space for making the various cable, electrical, and fiber connections.

4 SIGNAL CONNECTION

CAUTION: *Make sure all peripheral equipment that is to be connected to the fiber unit is turned OFF during installation.*

All fiber-optic links convert electrical signals of some type or types into a light signal at the transmitter and convert the light back to electrical signals for output at the receiver. The electrical signal connections to the S700VT-TST consist of a single BNC connector on the end of an 460-mm (18-inch) coaxial cable.

Connect the video source equipment, such as a camera, to the S700VT-TST transmitter using the attached coaxial cable.

5 OPTICAL CONNECTION
The standard optical connector on Fiber Options' units is the ST type. Connect the pre-terminated fiber to the two fiber units.

6 ELECTRICAL CONNECTION

CAUTION: *The S700VT-TST is designed to be powere by 12 - 16 VDC. Do not connect it to an AC source.*

1. Two 50-mm (6-inch) leads are provided for power input.   The polarity is as follows:
> **RED: +** or positive
> **BLACK: --** or negative

A tag on the leads also indicates the polarity.

2. Make sure the power supply is not connected to any power source, and attach the leads from the S700VT-TST to the appropriate terminals.
3. Plug the power supply into a suitable outlet.

Once the S700VT-TST has been installed and the other end of the fiber connected to a suitable receiver, power up the peripheral equipment and verify system operation by observing video on the monitor at the receiver end.

7 TROUBLESHOOTING

S700VR receivers have a single LEVEL/LOSS LED while the S702VR units have two indicators, one for each fiber. When green, LEVEL/LOSS™ indicates the presence of sufficient optical and video signals being received from the transmitter. If unlit, check fiber and all connections and splices. Also check that the transmitter is connected to an operating video source, is on, and is connected to the receiver via the fiber.

NOTE: A blank monitor screen can be valid video input.

If the system fails to operate and the cause of the failure cannot be determined, it may be necessary to contact Fiber Options.

8 CONTACTING FIBER OPTIONS

If you cannot determine the cause of your problem and you are in the U.S. or Canada, call the Fiber Options Headquarters.
If you are outside the U.S. or Canada, call the closest international office as listed on the back page of this manual.
Have the following information available: exact model number and product code of your fiber-optic links, and a listing of the diagnostic indicators and their respective color/condition.

9 SHIPPING AND PACKAGING

Before shipping or transporting your Fiber Options unit, pack it securely to prevent damage that could occur in transit. Use care to protect all connectors, LEDs, and corners from possible damage.

10 RETURNS TO FIBER OPTIONS

If any equipment must be returned to Fiber Options for repair or replacement, you must obtain authorization from our Return Authorization department before shipping the unit.

NOTE: *Fiber Options will not accept return delivery of any products without prior authorization.*

All authorized returns must be clearly marked with the Return Authorization information. Please follow the instructions completely.

Customer Support

For assistance in installing, operating, maintaining, and troubleshooting this product,
refer to this document and any other documentation provided. If you still have questions,
please contact technical support during normal business hours (Monday through Friday,
excluding holidays, between 6 a.m. and 5 p.m. Pacific Time).

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Call: 888 437-3287 (US, including Alaska and Hawaii; Puerto Rico; Canada)
Outside the toll-free area: 503 885-5700
Fax: 561 998-6224
www.gesecurity.com

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