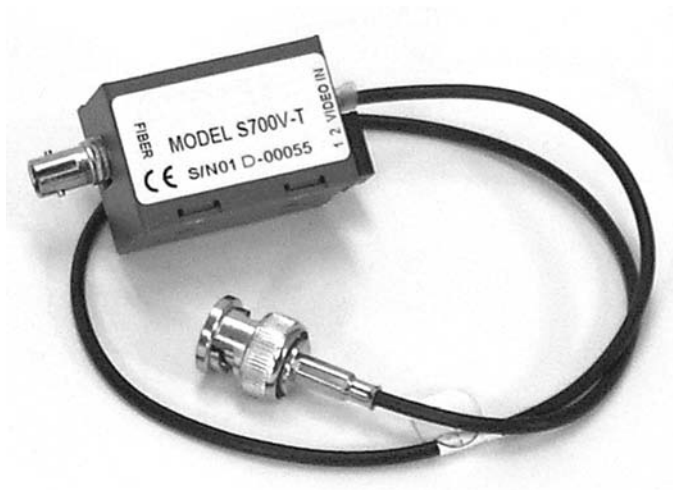


GE
Security

Fiber Optic
Miniature Video Transmitter
Models S700VT-MST

installation instructions



imagination at work

GENERAL

This manual is a guide to the installation and operation of the S700VT-MST fiber optic video transmitter. Please read the entire manual before installing the equipment.

NOTE: The series numbers S700VR is used to describe all receiver models unless noted otherwise.

The S700VT-MST video transmitter system transmits one video signal from a camera to a monitoring station over one multimode fiber. The S700VT-MST can be used with the S700VR or S702VR series receivers.

A complete system consists of one transmitter and one receiver.

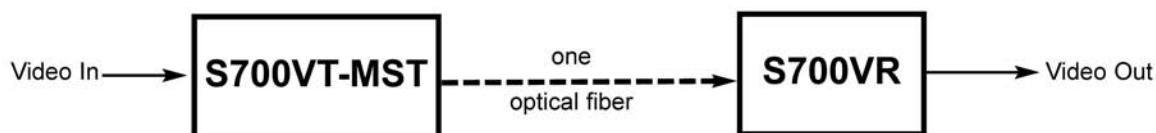
Unpacking the Unit

In the event that anything is missing from the following list, contact your authorized Fiber Options dealer or representative.

S700VT-MST Transmitter
Instruction manual

Save the original packing materials in case it becomes necessary to return the unit.

FIGURE 1: BASIC SYSTEM DIAGRAM

**FEATURES**

The S700VT-MST transmitter housing is extremely small measuring 38 mm (1.5 in.) by 26 mm (1.04 in.) by 24 mm (0.94 in.). An ST optical connector is fixed to one end, while a coaxial cable with BNC connector and a removable 2-pin screw-terminal power connector are attached at the opposite end.

The S700VT-MST transmitter can be used with any of the following receivers: S700VR-EST, S700VR-RST, S702VR-RST. The S702VR-RST supports two transmitters.

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

Refer to TROUBLESHOOTING for more information. Rack-mount receivers are designed to be mounted in a standard 19-inch card cage (515R1 or 517R1). Electrical power input is derived from the card cage.

INSTALLATION

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

Velcro™ fastener tape is provided for mounting the S700VT-MST to any smooth, flat surface. See Figure 2 for unit dimensions.

1. Adhere the fastener tape to the transmitter by removing the protective backing from the gummed tape. Firmly press the tape to the unit.
2. Fasten the other piece of Velcro to the selected surface in the same way. The S700VT-MST can now be mounted to the surface by attaching the two pieces of fastener tape to each other.

CONNECTIONS

All fiber-optic links convert electrical signals into a light source at the transmitter and convert the light back to electrical signals for output at the receiver.

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

Video Cable Connection

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

Fiber Optic Cable Connection

The standard optical connector on S700VT-MST units is the ST type. Connect the pre-terminated fiber to the two fiber units.

Power Connections

A removable 2-pin screw-terminal connector is provided for the electrical connection.

1. Make sure the power supply is not connected to any power source and attach the leads from the power supply to the appropriate terminals as follows:

Pin 1: +13.5 VDC (DC+) or 12 - 14 VAC

Pin 2: Ground (DC-) or 12 - 14 VAC

2. Plug the power supply into a suitable outlet.

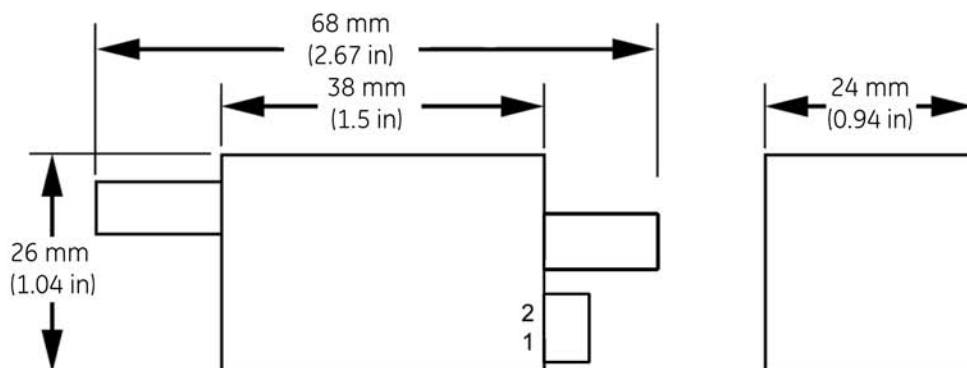
Once the S700VT-MST has been installed and the other end of the fiber connected to a suitable receiver, power up the peripheral equipment.

TROUBLESHOOTING

Operation of a system including an S700VT-MST transmitter can be monitored with the LEVEL/LOSS™ LED on the S700VR or S702VR receivers.

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.

FIGURE 2: MODULE DIMENSIONS



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

If the S700V fails to operate and the cause of the failure cannot be determined, it may be necessary to contact Fiber Options.

MAINTENANCE

There is no operator maintenance other than keeping the units clean.

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.

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.

Customers in other countries should contact their regional representative listed on the back cover of this manual. A Return Authorizations representative will provide full instructions for returning your product at that time.

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

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

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).

GE Security

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



GE Security

www.GESecurity.com

U.S.

T (561) 998-6100

T 888-GE-SECURITY

888 (437-3287)

F 561 998-6224

E gesecuritycustserv@ge.com

Asia

T 852-2907-8108

F 852-2142-5063

Australia

T 613-9239-1200

F 613-9239-1299

Canada

T 519-376-2430

F 519-376-7258

Europe

T 44-113-238-1668

F 44-113-253-8121

Latin America

T 305-593-4301

F 305-593-4300

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