



Authorized Fiber Distributor
GE Security



MAYFLEX
PHYSICAL SECURITY

Optical Fibre is the transmission medium of choice...

Today's rapid advancements in technology and the industry's demand for high-resolution video and high-speed data communications has pushed the need for greater and greater bandwidth.

Moreover, GE Security's many product lines are demanding "real" system integration. This means interfacing CCTV, Access Control, Fire, Alarms, and at times even HVAC onto a single communication backbone that is secure and has the flexibility to expand.

Fibre optic transmission is the communications' medium-of-choice because of the many advantages inherent to optical transmission over glass vs. electrical transmission over copper.

Why do Architects & Engineers like fibre?

- Utilises the existing fibre backbone to reduce costs
- Provides reliability and maintains system integrity
- Provides numerous future expansion capabilities
- Maintains the video quality through multiple physical layers
- Utilises the system diagnostics for network management and supervision
- Tremendous life-cycle cost savings vs. copper
- Transmission security of sensitive data
- No spark or firehazard

Why do Dealers/Integrators use fibre?

- Elimination of ground loops, EMI and RFI
- Lightning protection of the sensitive head-end electronics
- Provides flexible and economical solutions to system topology changes
- Meets the expanding requirements for greater bandwidth
- Supports signal-to-noise requirements for installations using DVR's
- Fibre cables lighter weight and smaller size reduces installation costs
- Stable performance over great distances

Fibre Options' Products from GE Security

Fibre Optic Transmission products that lead the industry, designed for use with all GE Security products and throughout the industry. Video, Access, Intrusion and Fire; the only true solution to bandwidth challenges.

Fibre Options' SMARTS™ Technology

What separates Fibre Options' products from the competition is its SMARTS™ — Status Monitoring And Reliability Test System.

All Fibre Options' products incorporate SMARTS™ Technology, providing the installer the on-board test generators to perform in-field systems checks without test equipment and the End-User "real-time" supervision of the system status and operational performance of each channel.

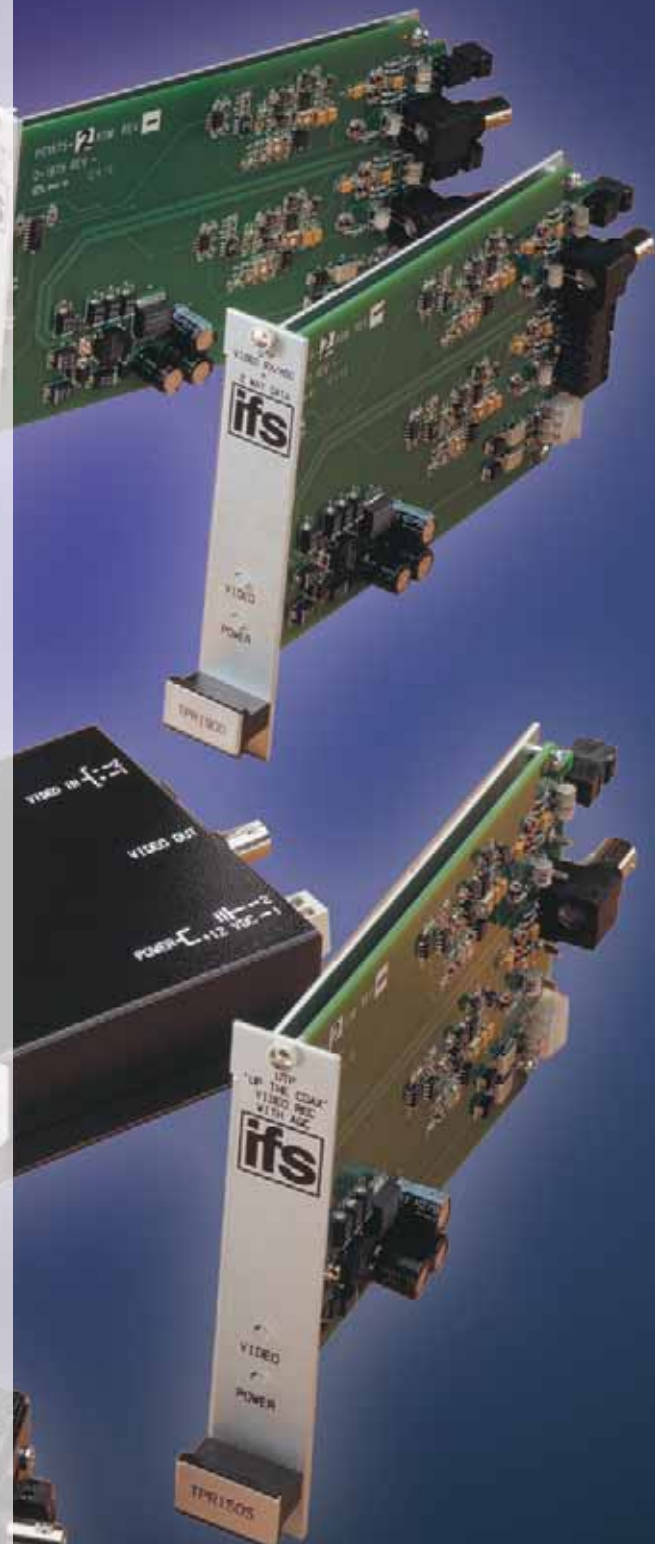
SMARTS™ Technology is so advanced, it tests the status of Video Input, Video Output, VideoSync, Optical Signal Strength, Data Input, Data Output, Audio Input, Audio Output, Audio Level and confirms the Data Protocol.

SMARTS™ also provides Data Transmission, Self Healing Ring and On-Screen Display.

Fibre Options' products provide everything you want in a fibre communications system like superior performance and high reliability, and because of SMARTS™, it is easy to install.

Fibre Options' SMARTS™ Technology, the dealer's favourite and now voted the new industry standard.

- RBI — Reliability Built-In
- MTBF > 100,000 Hours
- Extended Operating Temperature
- Single-Point failure Protection on Card Cage Systems
- Solid-State Current Limiters for Short Circuit Protection
- No Electrical or Optical Field Adjustments
- Optical Gain Control "OAGC" Standard
- 5-Year Product Warranty



The GE Security video and data product range

S700V – Single-Channel Video

VIDEO PRODUCT

The S700V video link meets the challenge for a low cost, high performance fibre optic video transmission system. The series transmits one channel of baseband composite video up to 3.2 miles (5.2 km) over one multimode fibre.

The S700V series consists of a transmitter and a receiver. The S700V is available as a standalone unit and as a rack card for use in the 515R1/517R1 rack mount card cages.

The SMARTS™ diagnostic technology provides built-in diagnostic tools including LEDs that monitor the operating status of the video and optical signals.



Features

- | One-way video transmission over one multimode fibre
- | Single video channel
- | Supports NTSC and PAL video formats
- | Works with all cameras
- | Video SNR >50 dB
- | 8 MHz video bandwidth
- | Optical AGC
- | 13 dB optical budget
- | Operating distance up to 3.2 miles (5.2 km)
- | Standalone or rack configurations

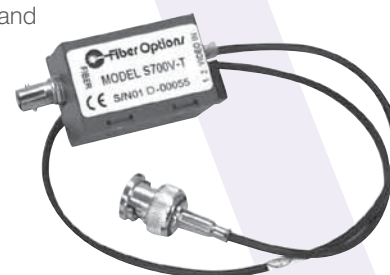
S700VT-MST – Miniature Video Transmitter

VIDEO PRODUCT

The S700VT-MST miniature video transmitter is designed to transmit standard analogue baseband composite video up to 3.2 miles (5.2 km). The unit provides one-way video transmission over one multimode fibre.

The transmitter has been designed especially for easy installation in environmental camera housings. The S700VT-MST is intended for use with any of the S700VR or S702VR series of receivers.

The SMARTS™ diagnostic technology provides built-in diagnostic tools including LEDs that monitor the operating status of the video and optical signals. The LEDs are provided on the S700VR or S702VR receiver connected to the system.



Features

- | One-way video transmission over one multimode fibre
- | Single channel transmitter
- | Supports NTSC and PAL video formats
- | Designed for environmental housings
- | Video SNR >50 dB
- | 8 MHz video bandwidth
- | Use with S700VR or S702VR receiver
- | 13 dB optical budget with S700VR or S702VR receiver
- | Operating distance up to 3.2 miles (5.2 kms)

S702V – Two-Channel Video

VIDEO PRODUCT

The S702V video link meets the challenge for a low cost, high performance fibre optic video transmission system. The series transmits two channels of baseband composite video up to 3.2 miles (5.2 km) over two multimode fibres.

The S702V series consists of a transmitter and a receiver. The S702V is available as a standalone unit and as a rack card for use in the 515R1/517R1 rack mount card cages.

The SMARTS™ diagnostic technology provides built-in diagnostic tools including LEDs that monitor the operating status of the video and optical signals.



Features

- | One-way video transmission over two multimode fibres
- | Two video channels
- | Supports NTSC and PAL video formats
- | Works with all cameras
- | Video SNR >50 dB
- | 8 MHz video bandwidth
- | Optical AGC
- | 13 dB optical budget
- | Operating distance up to 3.2 miles (5.2 km)
- | Standalone or rack configurations

The S732DV fibre link provides transmission of one-way video and two-way multiprotocol data over one or two multimode optical fibres. A complete system consists of a transmitter and a receiver. The link can be supplied as either a standalone module or as a rack card that can be installed in a standard 19-inch card cage.



The units utilise 8-bit video processing of the video component along with a signal-to-noise ratio >55 dB that assures clean, noise-free video at the receiver.

The data functions include the unique data translation feature, which allows one data format to be input and a different data format to be output. Data formats are selected during installation and can be easily changed in the field via a rotary switch.

The SMARTS™ diagnostic technology provides an extensive set of built-in diagnostic tools including a video test pattern generator that allows failures to be diagnosed from the monitor. LEDs provide a visual indication of the operating status of the equipment.

Certain models of the S732DV series incorporate Coarse Wavelength Division Multiplexer (CWDM) technology for maximum distance capability using a single multimode fibre.

Features

- | One-way video, two-way multiprotocol data transmission over one or two multimode fibres
- | 8-bit video processing
- | 520 TV lines video resolution
- | Unique data translation function
- | Field-selectable data format
- | 13 dB optical budget (20 dB on CWDM models)
- | Supports all major data formats
- | Standalone or rack configurations

S707V - 4 Channel Video Fibre Link

MULTIPLEXED VIDEO PRODUCT

The S707V fibre links represent a technological breakthrough in the simultaneous transmission of four full-frame, real-time video signals (colour or monochrome) over one multimode fibre.



The four-channel system features a 6.2 MHz-per-channel bandwidth and optical automatic gain control (OAGC). It accepts analogue baseband inputs and converts them to digital format for transmission, assuring high-quality video outputs at the receiver. The system is compatible with all major video formats.

The SMARTS™ diagnostic technology includes a built-in-video test pattern generator on the transmitter for system setup and on-screen diagnostics to indicate insufficient optical power or an inactive video channel for each output. LEDs monitor the status of the video and optical signals.

Features

- | One-way transmission of four video channels over one multimode fibre
- | Digital multiplexing technology
- | 10-bit video processing
- | 500 TV lines resolution
- | Video SNR >55 dB
- | 6.2 MHz video bandwidth
- | Built-in test pattern generator and On-Screen diagnostics (OSD)
- | 13dB optical budget
- | Supports all major video formats
- | Optical AGC
- | Standalone or rack configurations

S764DAV – One-Way Video and Two-Way 2-Channel Audio VIDEO/AUDIO/DATA/CONTACT PRODUCT

The S764DAV fibre links provide one-way video transmission combined with two-way, two-channel audio, two-channel multiprotocol data and two-channel contact closure over one or two multimode fibres.



Digital processing of the video signal along with a video signal-to-noise ratio >65 dB assures clean, noise-free video at the receiver. Digital processing of the audio signal along with an audio signal-to-noise ratio >90dB allows the audio output to drive balanced or unbalanced loads and maintain constant audio levels.

The data functions include the unique data translation feature, which allows one data format to be input and a different data format to be output. Data formats are selected during installation and can be easily changed in the field via a rotary switch.

The SMARTS™ diagnostic technology provides an extensive set of built-in diagnostic tools including an audio test generator to verify operation of the audio channel, a video test generator to verify operation of the audio channel, and a video test pattern generator that allows failures to be diagnosed from the monitor. LEDs provide a visual indication of the operating status of the video, audio, data and contact channels as well as the optical signal strength.

Features

- | One-way video and two-way two-channel audio, two-channel multiprotocol data and two-channel contact closure transmission over one or two multimode fibres
- | 9-bit video processing
- | 24-bit audio processing
- | >600 TV lines video resolution
- | Unique data translation function
- | Local or remote user-selectable data format – 2 independent data channels
- | Supports multiprotocol data formats

When you buy GE Security Products from Mayflex you can be assured of:

- Dealing with an experienced and knowledgeable sales team
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- Project support
- Marketing support
- Demonstration facilities
- Sales and technical training

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