



## M100 Series

### Multimode

# Single Channel FM Video Transmission System

850 nm Multimode – Low Profile

#### MODELS:

**MTM100** - Mini Module Video Transmitter  
**MRM100** - Mini Module FM Video Receiver  
**RRM100** - Rack Card FM Video Receiver  
**RTM100** - Rack Card FM Video Transmitter

#### FEATURES:

- Compatible with NTSC; RS-170A & RS-343A and PAL
- Diagnostics: Video, Power and Optical Presence
- Full Color Transmission
- Small Profile
- PFM Video Transmission
- Optical AGC

#### SPECIFICATIONS:

##### Video:

I/O Level.....1 Vpp  
I/O Impedance.....75 Ohms  
Bandwidth.....8 MHz  
Differential Gain.....5%  
Differential Phase.....5°  
SNR.....60 dB  
Connector.....BNC

##### Optical:

Wavelength.....850 nm  
Loss Budget (62.5/125μ).....12 dB  
Maximum Transmission Distance.....2.5 Km  
Connector.....ST

##### Temperature (Operating):

-20°C to +70°C, non-condensing

##### Power Supply:

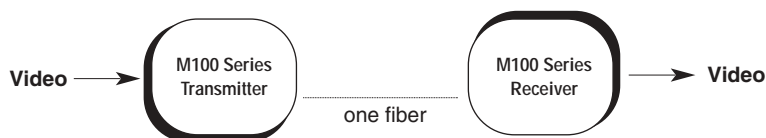
Module - 12 VDC  
Rack Card (See Part #: SR20/2)

##### Size:

Module - 3" x 2" x  $1\frac{3}{16}$ "  
Rack Card Receiver - 6 $\frac{1}{2}$ " x 1" x 5"



The **M100 Series**, designed for Panasonic Security System products, transmits one channel of high-quality, FM video on one multimode optical fiber at 850 nm. Designed to be completely transparent to all camera and monitor manufacturers, the system requires no field adjustments at installation or additional maintenance thereafter. Diagnostic indicators provide a quick visual indication of system status. Equipment may be ordered as stand alone modules or rack cards that are mounted in the Card Cage: SR20/2.



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## M30 Series Multimode

### MODELS:

**RTM30 - Transmitter(Video Source) is compatible with: M30 and M100 Series Receivers**

**RRM30 - Receiver(Control Site) is compatible with: M30 and M100 Series Transmitters**

### FEATURES:

- Compatible with NTSC; RS – 170A & RS –343A and PAL
- Diagnostics: Video, Power and Optical Presence
- Full Color Transmission
- Economical
- FM Video Transmission
- Three Channels Per Card

### SPECIFICATIONS:

#### Video:

I/O Level.....	1 Vpp
I/O Impedance.....	75 Ohms
Bandwidth .....	10 MHz
Differential Gain .....	5%
Differential Phase .....	3°
SNR .....	60 dB
Connector .....	BNC

#### Optical:

Wavelength .....	850 nm
Loss Budget (62.5/125μ) .....	12 dB
Maximum Transmission Distance .....	2.5 Km
Connector .....	ST

#### Temperature (Operating):

-40°C to +75°C, non-condensing

#### Power Supply:

Rack Card – (see Part #: SR20/2)

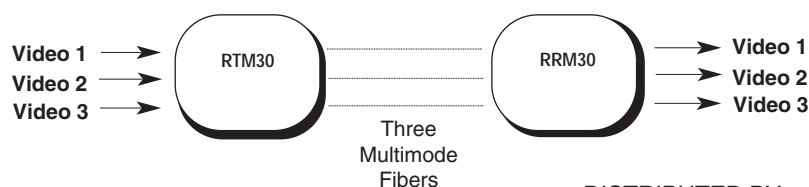
#### Size:

Rack Card Requires one rack slot  
6½" x 1 " x 5 "

# Three Channel Video Multimode FM Transmission System



The **M30 Series**, designed for Panasonic Security System products, transmits and receives three channels of high-quality video on three multimode optical fibers using FM transmission. This system is designed to be completely transparent to all camera and monitor manufacturers. Products require no field adjustments at installation or additional maintenance thereafter. Diagnostic Indicators provide a quick visual indication of system status. The M30 Series are ordered as rack cards and are mounted in the Card Cage: SR20/2.



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## M1485 Series Multimode

# Single Fiber Bi-Directional Transceivers Low Profile

One-Way Video & Two-Way RS485

### MODELS:

MTM1485 - Module Transmitter - Field Unit

MRM1485 - Module Receiver - Control Site

RTM1485 - Rack Card Transmitter - Field Unit

RRM1485 - Rack Card Receiver - Control Site

### FEATURES:

- Diagnostics: Data, Power and Optical Presence
- Switch Selectable 2 Wire or 4 Wire
- Switch Selectable Termination and Fail Safe Bias
- Modules or Rack Cards
- Single or Dual Fiber Alternative

### SPECIFICATIONS:

#### Video:

I/O Level .....	1 Vpp
I/O Impedance .....	75 Ohms
Bandwidth .....	6 MHz
Differential Gain .....	5%
Differential Phase .....	3°
SNR .....	55 dB
Connector .....	BNC

#### Data:

Data Rate .....	up to 100 Kbps
Data Connector .....	5 pin screw terminal

#### Optical:

Wavelength .....	850/1300 nm
Loss Budget (62.5/125µ) .....	12 dB
Connector .....	ST

#### Temperature (Operating):

-40°C to +75°C, non-condensing

#### Power Supply:

Module Transmitter- 12 VDC: 10 VA

Rack Card Receiver - (See Part #: SR20/2)

#### Size:

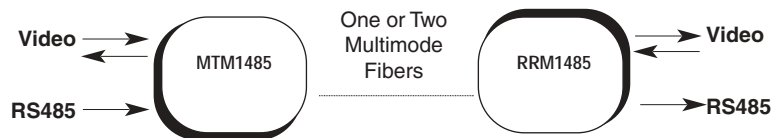
Module - 4 1/4" x 4 1/4" x 1 1/8"

Rack Card requires one rack slot - 6 1/2" x 1" x 5"



The **M1485 Series**, designed for Panasonic Security System products, is a low cost, low profile video and bi-directional data transceiver system. The system utilizes one or two multimode optical fibers. Designed to be completely transparent, this system requires no field adjustments at installation or additional maintenance thereafter. Diagnostic indicators provide a quick visual indication of system status.

Equipment maybe ordered as stand alone modules or rack cards that are mounted in the Card Cage: SR20/2.



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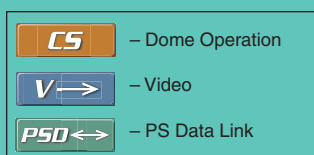
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# M1600P Series

## Multimode

### MODELS:

MTM1600P - Module Transmitter - Video Source  
 MRM1600P - Module Receiver - Control Site  
 RTM1600P - Rack Card Transmitter - Video Source  
 RRM1600P - Rack Card Receiver - Control Site

### FEATURES:

- Video with Reverse Panasonic Camera and PTZ Control Over One Multimode Optical Fiber
- Compatible with NTSC; RS-170A & RS-343A and PAL
- Diagnostics: Video, Power and Optical Presence
- Optical AGC
- Full Color Transmission
- PFM Video Transmission

### SPECIFICATIONS:

#### Video:

I/O Level.....1 Vpp  
 I/O Impedance.....75 Ohms  
 Bandwidth.....8 MHz  
 Differential Gain......5%  
 Differential Phase......5°  
 SNR.....60 dB  
 Connector.....BNC

#### System Data Supports:

Full function Panasonic Up the Coax control protocol.

#### Optical:

Wavelength.....850/1300 nm  
 Loss Budget (62.5/125µ).....12 dB  
 Maximum Transmission Distance.....1.6 Km  
 Connector.....ST

#### Temperature (Operating):

-20°C to +70°C, non-condensing

#### Power Supply:

Module - 12 VDC  
 Rack Card - (See Part #: SR20/2)

#### Size:

Module - 3<sup>3</sup>/<sub>4</sub>" x 1<sup>5</sup>/<sub>16</sub>" x 5<sup>7</sup>/<sub>8</sub>"  
 Rack Card requires one rack slot - 6<sup>1</sup>/<sub>2</sub>" x 1" x 5"

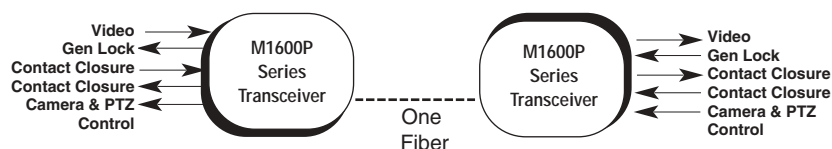


## Single Fiber Bi-Directional Transceivers Low Profile

### One-Way Video With Reverse Panasonic Camera and PTZ Control



The **M1600P Series**, designed for Panasonic Security System products, transmits high-quality, simultaneous video with reverse Panasonic Control Protocol on one multimode optical fiber. Designed to be used with Panasonic products, these systems require no field adjustments at installation or additional maintenance thereafter. Diagnostic indicators provide a quick visual indication of system status. Equipment may be ordered as stand alone modules or rack cards that are mounted in the Card Cage: SR20/2. Panasonic products provide full function Bi-directional video, camera and PTZ control along with full contact closure and video genlock.



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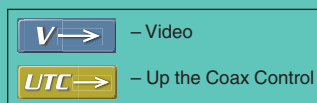
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## 404 Series Multimode

### MODELS:

MT404 - Module Transmitter - Video Source

MR404 - Module Receiver - Control Site

RT404 - Rack Card Transmitter - Video Source

RR404 - Rack Card Receiver - Control Site

### FEATURES:

- Compatible with NTSC; RS-170A & RS-343A and PAL
- Diagnostics: Video, Power and Optical Presence
- Full Color Transmission
- Real Time Video Transmission
- Modules or Rack Cards
- Compatible with 500 Series Audio/Data Modulators & Demodulators
- PFM Transmission
- Drop & Insert Capability

### SPECIFICATIONS:

#### Video:

I/O Level .....	1 Vpp
I/O Impedance .....	75 Ohms
Bandwidth .....	10 MHz
Differential Gain .....	3%
Differential Phase .....	2°
SNR .....	55 dB
Connector .....	BNC

#### Optical:

Wavelengths .....	1300 nm
Maximum Transmission Distance .....	2.5 Km
Loss Budget (62.5/125μ) .....	6 dB
Connector .....	ST

#### Temperature (Operating):

-40°C to +75°C, non-condensing

#### Power Supply:

Module Transmitter -

24 VAC Center Tap

Module Receiver -

24 VAC Center Tap

#### Size:

Module Receiver - 8<sup>7</sup>/<sub>8</sub>" x 5<sup>1</sup>/<sub>2</sub>" x 1<sup>1</sup>/<sub>8</sub>"

Module Transmitter - 8<sup>7</sup>/<sub>8</sub>" x 5<sup>1</sup>/<sub>2</sub>" x 1<sup>1</sup>/<sub>8</sub>"

Rack Card Receiver requires 2 rack slots -  
8" x 5" x 2"

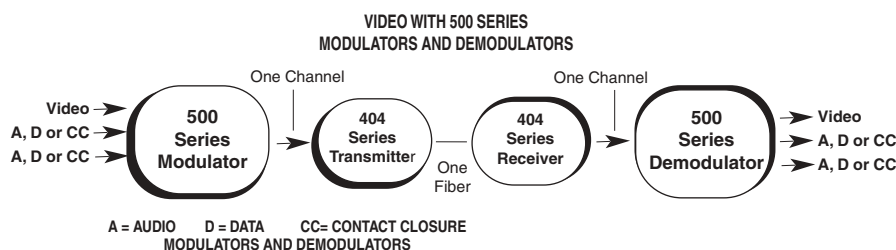
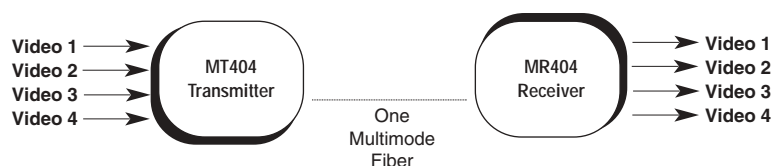
Rack Card Transmitter requires 2 rack slots -  
8" x 5" x 2"

Maximum 7 Rack Cards per SR20/2

# Single Fiber Four-Channel FM Video System



The **404 Series**, designed for Panasonic Security System products, transmits four channels of high-quality video on one multimode optical fiber at 1300nm. Designed to be completely transparent to all camera and monitor manufacturers, this system requires no field adjustments at installation or additional maintenance thereafter. Diagnostic indicators provide a quick visual indication of system status. In addition, two sub-carriers can be added to each video channel using the 500 Series modulators and demodulators. Equipment may be ordered as stand alone modules or rack cards that are mounted in the Card Cage: SR20/2.



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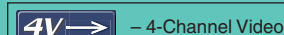
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# 440 Series Multimode

## MODELS:

- MT440 - Module Transmitter - Video Source
- MR440 - Module Receiver - Control Site
- RT440 - Rack Card Transmitter - Video Source
- RR440 - Rack Card Receiver - Control Site

## FEATURES:

- Compatible with NTSC; RS-170A & RS-343A and PAL
- Diagnostics: Video, Power and Optical Presence
- Full Color Transmission
- Real Time Video Transmission
- Modules or Rack Cards
- Compatible with 500 Series Audio/Data Modulators & Demodulators
- PFM Transmission

## SPECIFICATIONS:

### Video:

I/O Level .....	1 Vpp
I/O Impedance .....	75 Ohms
Bandwidth .....	10 MHz
Differential Gain .....	3%
Differential Phase .....	2°
SNR .....	55 dB
Connector .....	BNC

### Optical:

Wavelengths .....	1300 nm
Maximum Transmission Distance .....	5 Km
Loss Budget (62.5/125μ) .....	12 dB
Connector .....	ST

### Temperature (Operating):

-40°C to +75°C, non-condensing

### Power Supply:

- Module Transmitter - 24 VAC Center Tap
- Module Receiver - 24 VAC Center Tap

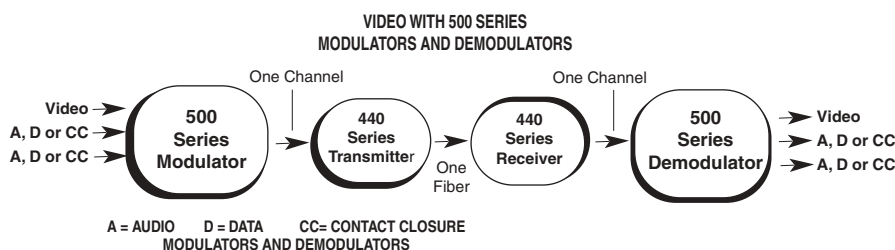
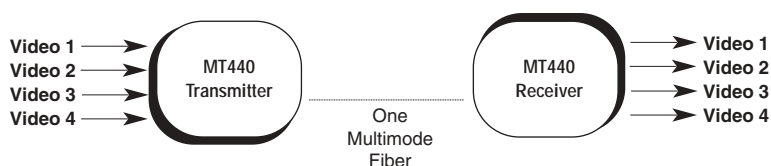
### Size:

- Module Receiver - 8<sup>7</sup>/<sub>8</sub>" x 5<sup>1</sup>/<sub>2</sub>" x 1<sup>1</sup>/<sub>8</sub>"
- Module Transmitter - 8<sup>7</sup>/<sub>8</sub>" x 5<sup>1</sup>/<sub>2</sub>" x 1<sup>1</sup>/<sub>8</sub>"
- Rack Card Receiver requires 2 rack slots - 8" x 5" x 2"
- Rack Card Transmitter requires 2 rack slots - 8" x 5" x 2"
- Maximum 7 Rack Cards per SR20/2

# Single Fiber Four-Channel FM Video System



The **440 Series**, designed for Panasonic Security System products, transmits four channels of high-quality video on one multimode optical fiber at 1300nm. Designed to be completely transparent to all camera and monitor manufacturers, this system requires no field adjustments at installation or additional maintenance thereafter. Diagnostic indicators provide a quick visual indication of system status. In addition, two sub-carriers can be added to each video channel using the 500 Series modulators and demodulators. Equipment may be ordered as stand alone modules or rack cards that are mounted in the Card Cage: SR20/2.



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## 880 Series Multimode

### MODELS:

**MRT880 - Video Transmitter**

**MRR880 - Video Receiver**

### FEATURES:

- Compatible with NTSC; RS-170A & RS-343A and PAL
- Diagnostics: Video, Power and Optical Presence
- Full Color Transmission
- Real Time Video Transmission
- Compatible with 500 Series Audio/Data Modulators & Demodulators
- PFM Transmission
- Wall or Rack Mount

### SPECIFICATIONS:

#### Video:

I/O Level .....	1 Vpp
I/O Impedance .....	75 Ohms
Bandwidth .....	10 MHz
Differential Gain .....	3%
Differential Phase .....	2°
SNR .....	55 dB
Connector .....	BNC

#### Optical:

Wavelength .....	1300/1550 nm
Maximum Transmission Distance .....	5 Km
Loss Budget (62.5/125μ).....	12 dB
Connector .....	ST

#### Temperature (Operating):

-40°C to +75°C, non-condensing

#### Power Supply:

Universal Power Input  
85 to 264 VAC, 47 to 63 Hz  
40 Watts Max.

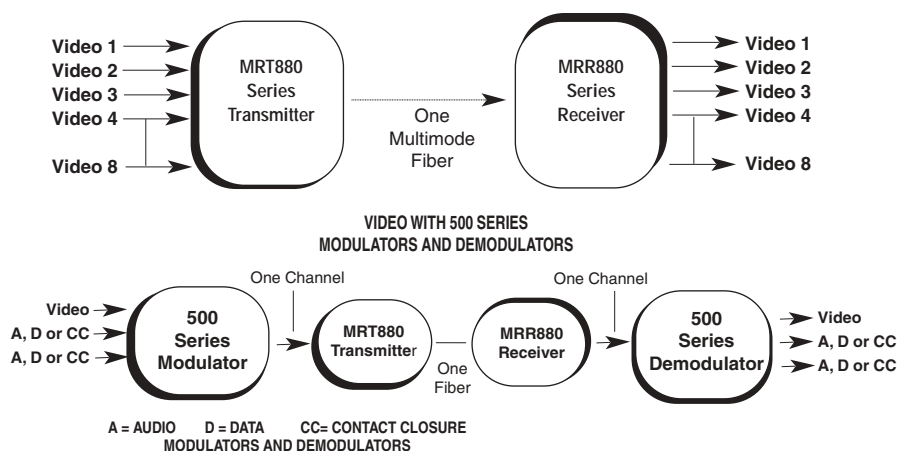
#### Size:

1RU High x 19" Wide x 12" Deep

# Single Fiber Eight-Channel FM Video System



The **880 Series**, designed for Panasonic Security System products, transmits eight channels of high-quality video on one multimode optical fiber. Designed to be completely transparent to all camera and monitor manufacturers. This system requires no field adjustments at installation or additional maintenance thereafter. Diagnostic indicators provide a quick visual indication of system status. In addition, two sub-carriers can be added to each video channel using the 500 Series modulators and demodulators. Equipment may be mounted as stand alone modules or rack units by the position of the mounting brackets.



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**BV** — 8-Channel Video

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# 8485 Series Multimode

## MODELS:

**MTX8485 - Video/Data Transmitter/Data Receiver**

**MRX8485 - Video/Data Receiver/Data Transmitter**

## FEATURES:

- Compatible with NTSC; RS-170A & RS-343A and PAL
- Diagnostics: Video, Data, Power and Optical Presence
- Switch Selectable 2 Wire or 4 Wire RS485
- Switch Selectable RS485 or (1) RS422 and (1) RS232
- Full Color Transmission
- Real Time Video Transmission
- Compatible with 500 Series Audio/Data Modulators & Demodulators
- PFM Transmission
- Wall or Rack Mount

## SPECIFICATIONS:

### Video:

I/O Level.....	1 Vpp
I/O Impedance.....	75 Ohms
Bandwidth.....	10 MHz
Differential Gain.....	3 %
Differential Phase.....	2 °
SNR.....	55 dB
Connector.....	BNC

### Data:

Data Rate.....	up to 50 Kbps
Data Connector.....	8 Pin Screw Terminal

### Optical (Fiber 62.5/125μ):

Wavelength.....	850/1300 nm
Loss Budget: Video/Data (1300 nm).....	12 dB
Loss Budget: Return Data (850 nm).....	20 dB
Maximum Transmission Distance.....	5 km
Connector.....	ST

### Temperature (Operating):

-40°C to +75°C, non-condensing

### Power Supply:

Universal Power Input  
85 to 264 VAC, 47 to 63 Hz  
40 Watts Max.

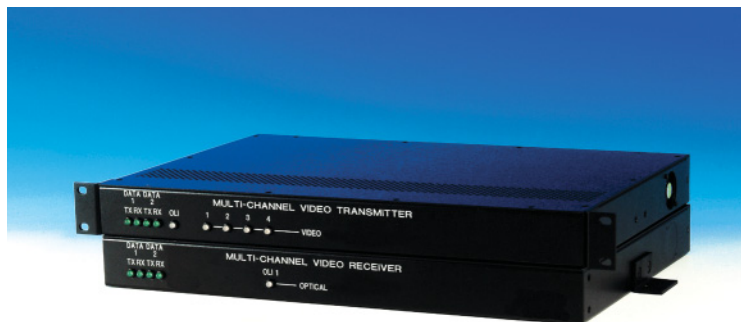
### Size:

1RU High, 19" Wide, 12" Deep

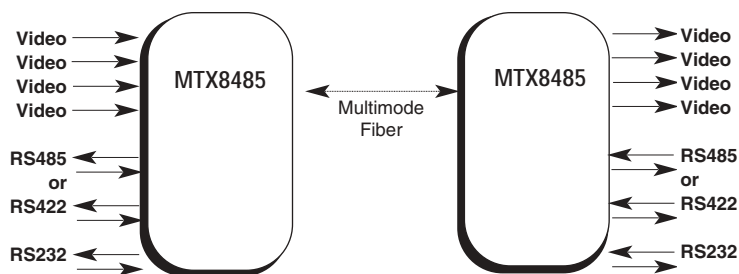


# Single Fiber Four-Channel FM Video System

With Bi-Directional RS485 or RS422 and RS232



The **8485 Series**, designed for Panasonic Security System products, transmits four channels of high-quality video with switch selectable bi-directional RS485 data or bi-directional RS422 and RS232 on a single multimode optical fiber. Included in the circuit design is a switch selectable 2 or 4 wire configuration and the ability to select data line termination. Designed to be completely transparent to all camera and monitor manufacturers, this system requires no field adjustments at installation or additional maintenance thereafter. Diagnostic indicators provide a quick visual indication of system status. In addition, two sub-carriers can be added to each video channel using the 500 Series modulators and demodulators. Equipment may be mounted as stand alone modules or rack units by the position of the mounting brackets.



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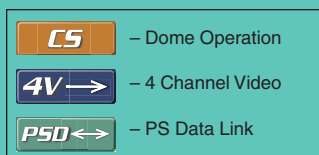
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## 8885 Series Multimode

### MODELS:

**MTX8885 - Video/Data Transmitter/Data Receiver**

**MRX8885 - Video/Data Receiver/Data Receiver**

### FEATURES:

- Compatible with NTSC; RS-170A & RS-343A and PAL
- Diagnostics: Video, Data, Power and Optical Presence
- Switch Selectable 2 Wire or 4 Wire RS485
- Switch Selectable RS485 or (1) RS422 and (1) RS232
- Full Color Transmission
- Real Time Video Transmission
- Compatible with 500 Series Audio/Data Modulators & Demodulators
- PFM Transmission
- Wall or Rack Mount

### SPECIFICATIONS:

#### Video:

I/O Level.....	1 Vpp
I/O Impedance.....	75 Ohms
Bandwidth.....	10 MHz
Differential Gain.....	3 %
Differential Phase.....	2 °
SNR.....	55 dB
Connector.....	BNC

#### Data:

Data Rate.....	up to 50 Kbps
Data Connector.....	8 Pin Screw Terminal

#### Optical (Fiber 62.5/125μ):

Wavelength.....	850/1300/1550 nm
Loss Budget: Video/Data (1300/1550 nm)....	12 dB
Loss Budget: Return Data (850 nm).....	20 dB
Maximum Transmission Distance.....	5 km
Connector.....	ST

#### Temperature (Operating):

-40°C to +75°C, non-condensing

#### Power Supply:

Universal Power Input  
85 to 264 VAC, 47 to 63 Hz  
40 Watts Max.

#### Size:

1RU High, 19" Wide, 12" Deep

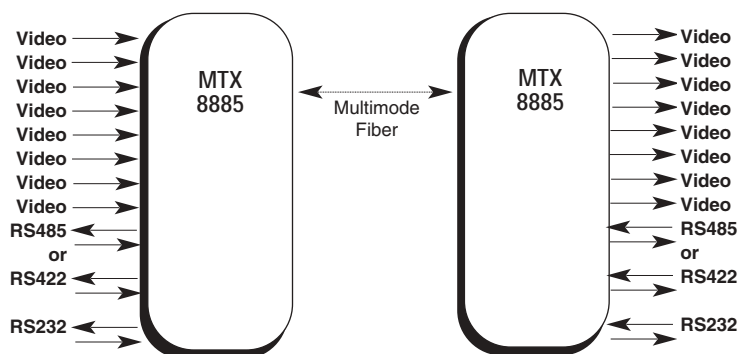


# Single Fiber Eight-Channel FM Video System

With Bi-Directional RS485 or RS422 and RS232



The **8885 Series**, designed for Panasonic Security System products, transmits eight channels of high-quality video with switch selectable bi-directional RS485 data or bi-directional RS422 and RS232 on a single multimode optical fiber. Included in the circuit design is a switch selectable 2 or 4 wire configuration and the ability to select data line termination. Designed to be completely transparent to all camera and monitor manufacturers, this system requires no field adjustments at installation or additional maintenance thereafter. Diagnostic indicators provide a quick visual indication of system status. In addition, two sub-carriers can be added to each video channel using the 500 Series modulators and demodulators. Equipment may be mounted as stand alone modules or rack units by the position of the mounting brackets.



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**Panasonic Digital Communications & Security Company**  
Unit of Matsushita Electric Corporation of America  
**Security Systems**

Executive Office: Three Panasonic Way, Secaucus, NJ 07094

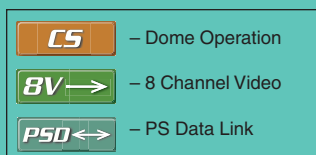
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# SR20/2 Series

## Subrack

### MODELS:

#### SR20/2 - Equipment Rack

### FEATURES:

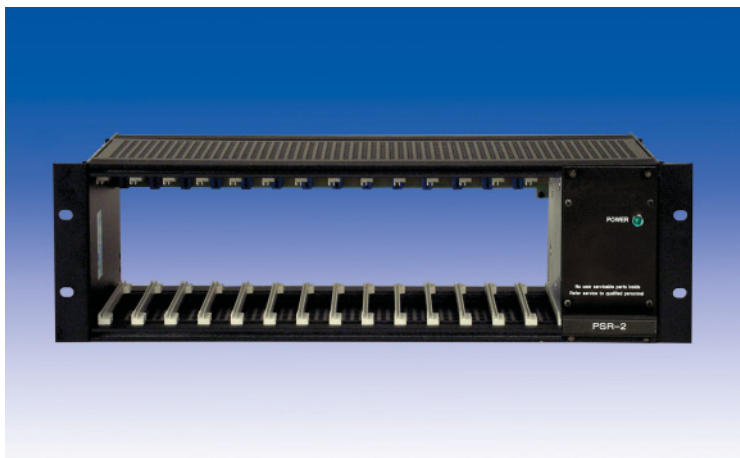
- 19" EIA Subrack Frame
- Rear Power Bus to all plug-in cards
- Blank panels available for 1, 2, and 4 slots
- 100W DC Power Supply included

### POWER SUPPLY FEATURES:

- Universal Power Input 85 to 264 VAC
- Detachable AC line cord
- 100 Watt Switching Power Supply
- Blank Panels Available for 1, 2 or 4 slots

MODEL NUMBER	NO. OF PLUG-IN CARDS	WEIGHT	DIMENSIONS		
			W	H	D
SR20/2	14	4 <sup>1</sup> / <sub>5</sub> lbs	19"	5 <sup>1</sup> / <sub>4</sub> "	7 <sup>5</sup> / <sub>8</sub> "

# Fiber Equipment Rack



The **SR20/2 Series**, designed for Panasonic Security System products, Fiber Equipment Subrack is a system that can be configured with any combination of products including transmitters, receivers or transceivers.

The 100 W power supply features a universal power input of 85 to 264 VAC with no switch selection required, high efficiency and current limiting.

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