ADDENDUM

Addendum No.: C1648M ADDEN

Date: April 29, 2005

Manual Affected: FT85081/FR85081 Fiber Transmitter and Receiver

Installation Manual - C1648M

Manual Update: Attachment of Ferrite to Data Cable of FT85081 Transmitter

A snap-on ferrite is supplied with the FT85081MSTR, FT85081SSTR, and FT85081SFCR transmitters. The ferrite must be attached to the data cable of the transmitters to comply with FCC and CE emissions requirements.

After data connections are made to the data connector on the transmitter, attach the ferrite to the data cable. When attaching the ferrite to the cable, position the ferrite as close as possible to the transmitter.

NOTE: The ferrite should fit securely around the cable. If the ferrite is loose and slides along the cable, loop the cable through the ferrite before closing the ferrite. If, however, the thickness of the cable prevents the ferrite from closing, use a tie wrap to hold the ferrite in place rather than looping the cable.



Pelco World Headquarters • 3500 Pelco Way, Clovis, California 93612-5699 USA USA & Canada: Tel: 800/289-9100 • Fax: 800/289-9150

International: Tel: 1-559/292-1981 • Fax: 1-559/348-1120

www.pelco.com



FT85081/FR85081 Fiber Transmitter and Receiver



Eight-Channel Digitally Encoded Video with Bidirectional Data

Contents

lm	portant Safety Instructions	4
Re	gulatory Notices	6
Pr	oduct Overview. Description. Models. Optional Accessories	
	Front Panel	
	Front Panel - FR85081 Receiver	
	Rear Panel	11
Ins	stallation	
	Package Contents	
	Mounting	
	Mounting the Transmitter/Receiver into a Rack	
	Mounting the Transmitter/Receiver Using the Wall Clip	
Tro	publeshooting	24
	pecifications	
List	of Illustrations Eight-Channel Video FT85081 Transmitter and FR85081 Receiver	
0	with Bidirectional Data Channel	
2	Front Panel of FT85081 Transmitter	
4	Rear Panel of FT85081 Transmitter	
5	Rear Panel of FR85081 Receiver	
6	Data Selection Switch	
7	Mounting the FT85081 Transmitter/FR85081 Receiver Using the Wall Clip	
8 9	FT85081 Transmitter/FR85081 Receiver Connections	
10	RS-422 Data Communication Wiring	
11	RS-485 2-Wire (Half Duplex) Data Communication Wiring	
12	RS-485 4-Wire (Full Duplex) Data Communication Wiring	21
13	Manchester Data Communication Wiring	
14	Bi-Phase Data Communication Wiring	23

List of Tables

Α	Data Selection Switch Settings	. 14
В	Data Connector Pin Assignments	. 17
С	Troubleshooting with Front-Panel Indicators	. 24

Important Safety Instructions

- 1. Read these instructions.
- 2. Keep these instructions.
- 3. Heed all warnings.
- 4. Follow all instructions.
- 5. Do not use this apparatus near water.
- 6. Clean only with dry cloth.
- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet consult an electrician for replacement of the obsolete outlet.
- Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the points where they exit from the apparatus.
- 11. Only use attachments/accessories specified by the manufacturer.
- 12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- 13. Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- 15. Apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases shall be placed on the apparatus.
- WARNING: To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.
- 17. Installation should be done only by qualified personnel and conform to all local codes.
- 18. Unless the unit is specifically marked as a NEMA Type 3, 3R, 3S, 4, 4X, 6, or 6P enclosure, it is designed for indoor use only and it must not be installed where exposed to rain and moisture.
- Use only installation methods and materials capable of supporting four times the maximum specified load.

CAUTION: These servicing instructions are for use by qualified service personnel only. To reduce the risk of electric shock do not perform any servicing other that contained in the operating instructions unless you are qualified to do so.

The product and/or manual may bear the following marks:



This symbol indicates that dangerous voltage constituting a risk of electric shock is present within this unit.



This symbol indicates that there are important operating and maintenance instructions in the literature accompanying this unit.

CAUTION:

RISK OF ELECTRIC SHOCK. DO NOT OPEN.

Regulatory Notices

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

RADIO AND TELEVISION INTERFERENCE

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

Changes and Modifications not expressly approved by the manufacturer or registrant of this equipment can void your authority to operate this equipment under Federal Communications Commission's rules.

This Class A digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada.

Product Overview

DESCRIPTION

The FT85081/FR85081 fiber transmitter and receiver provide the ability to transmit eight unidirectional composite video channels and one bidirectional data channel over one optical fiber (refer to Figure 1).



Figure 1. Eight-Channel Video FT85081 Transmitter and FR85081 Receiver with Bidirectional Data Channel

Features of the FT85081/FR85081 fiber optic transmission system include the following:

- 8-bit digitally encoded video for high-quality multi-channel video transmission over a single fiber
- Bidirectional data channel that supports RS-232, RS-422, RS-485 (2-wire/4-wire), Manchester, and Bi-Phase communication
- Wavelength division multiplexing (WDM), allowing video and data channels to be transmitted in the same fiber using different wavelengths
- Multimode fiber support for distances up to 1 km (0.6 mi)
- Single-mode fiber support for distances up to 30 km (18.6 mi)
- Exceeds all requirements for the RS-250C Medium-Haul Transmission specification
- Compatible with NTSC, PAL, and SECAM video standards
- No performance adjustments required
- 12 VDC or 24 VAC power supply
- Standalone and rack-mountable modular design.
- LED indicators for monitoring of signal status, data activity, and operating power

NOTE: The FT85081 transmitter/FR85081 receiver is a Class 1 laser product that complies with FDA radiation performance standard 21CFR Subchapter J and with IEC 60825-1 Edition 1.2, 2001-08.

MODELS

The FT85081/FR85081 fiber transmitter and receiver consist of the following series of models:

Multimode Models:

FT85081MSTR Eight-channel fiber optic video transmitter/single-channel data transceiver;

multimode, ST connector

FR85081MSTR Eight-channel fiber optic video receiver/single-channel data transceiver;

multimode, ST connector

Single-Mode Models:

FT85081SSTR Eight-channel fiber optic video transmitter/single-channel data transceiver;

single-mode, ST connector

FR85081SSTR Eight-channel fiber optic video receiver/single-channel data transceiver;

single-mode, ST connector

FT85081SFCR Eight-channel fiber optic video transmitter/single-channel data transceiver;

single-mode, FC connector

FR85081SFCR Eight-channel fiber optic video receiver/single-channel data transceiver;

single-mode, FC connector

OPTIONAL ACCESSORIES

The following optional accessories are available:

RK5000-3U 19-inch rack mount chassis for 14 slots (no power), 3 RUs RK5000PS-3U 19-inch rack mount chassis for 12 slots with power, 3 RUs

EPS5000-120 External/redundant power supply, 1 RU, 120 W x 2

RK5001B-3U Blank filler panel, single width RK5002B-3U Blank filler panel, double width

RK5003-1UEXP Adapter kit that allows a 3 RU triple-width fiber optic module to be used in

RK5000PS-5U rack mount chassis

FRONT PANEL

The front panel of the FT85081 transmitter and the FR85081 receiver provides LED indicators that allow you to monitor data activity, signal status, and operating power. The following sections provide a view of the front panel of the FT85081 transmitter and the FR85081 receiver.

FRONT PANEL - FT85081 TRANSMITTER

Figure 2 illustrates the front panel of the FT85081 transmitter.

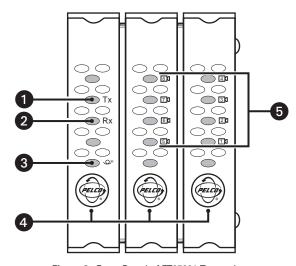


Figure 2. Front Panel of FT85081 Transmitter

- 1 DATA TX LED
- DATA RX LED
- 3 CARRIER DETECT LED
- 4 POWER LED (Pelco badge)
- VIDEO PRESENT LEDs (1-8)

For detailed information about the front-panel indicators, refer to the *Troubleshooting* section.

FRONT PANEL - FR85081 RECEIVER

Figure 3 illustrates the front panel of the FR85081 receiver.

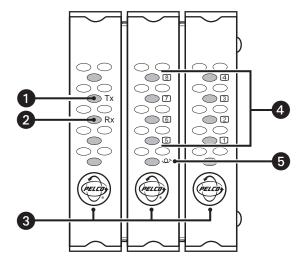


Figure 3. Front Panel of FR85081 Receiver

- DATA TX LED
- 2 DATA RX LED
- 3 POWER LED (Pelco badge)
- 4 VIDEO PRESENT LEDs (1-8)
- **6** CARRIER DETECT LED

For detailed information about the front-panel indicators, refer to the *Troubleshooting* section.

REAR PANEL

Connections to the FT85081 transmitter and the FR85081 receiver are made to the rear panel of the module. The following sections provide a view of the rear panel of the FT85081 transmitter and the FR85081 receiver.

REAR PANEL - FT85081 TRANSMITTER

Figure 4 illustrates the rear panel of the FT85081 transmitter.

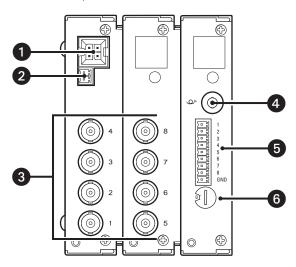


Figure 4. Rear Panel of FT85081 Transmitter

- RACK POWER/ALARM CONNECTOR, 4-pin connector for power/alarm connection of rack-mounted module
- STANDALONE POWER CONNECTOR, 2-pin connector for power connection of standalone module; removable mating connector with screw terminals (not shown)
- 3 VIDEO IN CONNECTORS (1-8), 75-ohm BNC analog video input
- 4 FIBER OPTIC CONNECTOR, ST or FC (dependent on FT85081 model)
- 5 DATA CONNECTOR, 9-pin connector; removable mating connector with screw terminals (not shown)
- 6 DATA SELECTION SWITCH, 10-position rotary switch (positions 0-9)

For additional information about rear-panel connections and about the Data Selection switch, refer to the *Installation* section.

REAR PANEL - FR85081 RECEIVER

Figure 5 illustrates the rear panel of the FR85081 receiver.

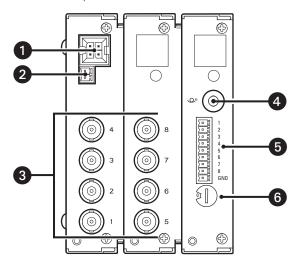


Figure 5. Rear Panel of FR85081 Receiver

- RACK POWER/ALARM CONNECTOR, 4-pin connector for power/alarm connection of rack-mounted module
- 2 STANDALONE POWER CONNECTOR, 2-pin connector for power connection of standalone module; removable mating connector with screw terminals (not shown)
- 3 VIDEO OUT CONNECTORS (1-8), 75-ohm BNC analog video output
- 4 FIBER OPTIC CONNECTOR, ST or FC (dependent on FR85081 model)
- **5** DATA CONNECTOR, 9-pin connector; removable mating connector with screw terminals
- 6 DATA SELECTION SWITCH, 10-position rotary switch (positions 0-9)

For additional information about rear-panel connections and about the Data Selection switch, refer to the *Installation* section.

Installation

PACKAGE CONTENTS

The following items are supplied:

With the FT85081 transmitter:

- 1 Regulated switching power supply with four plug adapters (North American, Australian, U.K., and European configurations); 100-240 VAC input, 12 VDC output
- 1 Wall clip with two 4-40 x .250-inch Phillips pan head screws with lock washers (for attachment of single module to wall)
- 1 FT85081/FR85081 Fiber Transmitter and Receiver Installation manual (this manual)

With the FR85081 receiver:

- 1 Regulated switching power supply with four plug adapters (North American, Australian, U.K., and European configurations); 100-240 VAC input, 12 VDC output
- 1 Wall clip with two 4-40 x .250-inch Phillips pan head screws with lock washers (for attachment of single module to wall)
- 1 FT85081/FR85081 Fiber Transmitter and Receiver Installation manual (this manual)

DATA COMMUNICATION SETUP



NOTE: As a matter of convenience, it is recommended that you set the desired data communication *before* mounting the FT85081 transmitter/FR85081 receiver into a rack or onto a wall.

The Data Selection switch, which is located on the rear panel of the FT85081 transmitter/FR85081 receiver, is a 10-position rotary switch that allows you to set the data communication required for the transfer of data (refer to Figure 6).

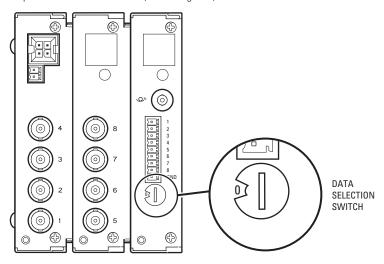


Figure 6. Data Selection Switch

With the FT85081 transmitter/FR85081 receiver powered off, turn the Data Selection switch using a screwdriver until the number representing the required data communication is selected. Refer to Table A for Data Selection switch settings.

Table A. Data Selection Switch Settings

Data Selection	Switch Setting
RS-232	0 (default setting)
RS-422	1
RS-485 2-Wire	2
RS-485 4-Wire	3
Manchester/Bi-Phase	4
Not used	5-9

Note the following:

- The FT85081 transmitter/FR85081 receiver allows data translation between RS-232 and RS-422 signal levels. Consequently, the Data Selection switch can be set to 0 (RS-232) on the transmitter and to 1 (RS-422) on the receiver. Conversely, the Data Selection switch can be set to 1 (RS-422) on the transmitter and to 0 (RS-232) on the receiver.
- If you wish to change the data communication setting after the FT85081 transmitter/ FR85081 receiver has been powered on, power off the transmitter/receiver, change the data communication setting, and then power on the transmitter/receiver again.

MOUNTING

The FT85081 transmitter/FR85081 receiver can be mounted into a rack or can be used as a standalone module. As a standalone module, the unit can be placed on a desktop or can be mounted to a wall



NOTE: As a matter of convenience, it is recommended that you set the desired data communication before mounting the FT85081 transmitter/FR85081 receiver. To set the desired data communication, refer to the *Data Communication Setup* section.

MOUNTING THE TRANSMITTER/RECEIVER INTO A RACK

The FT85081 transmitter/FR85081 receiver can be installed into the RK5000 Series rack mount chassis, which can be mounted into an industry-standard 19-inch (48.26 cm) equipment rack. The RK5000 Series rack mount chassis includes the following models:

- RK5000PS-3U and RK5000-3U: Designed to accommodate fiber optic modules as follows:
 - The RK5000PS-3U rack mount chassis provides 12 single-width module slots and a power supply.
 - The RK5000-3U rack mount chassis provides 14 single-width module slots (a power supply is not included). Power to the modules can be supplied using the optional external power supply (EPS5000-120).

For additional information, refer to the RK5000PS-3U/RK5000-3U Fiber Rack Mount Chassis Installation manual.

 RK5000PS-5U: Designed to accommodate Endura[™] modules but can also accommodate fiber optic modules with the use of the appropriate adapter kit. The RK5003-1UEXP adapter kit is required for installation of the FT85081 transmitter/ FR85081 receiver into the RK5000PS-5U chassis.

For information about the RK5000PS-5U chassis, refer to the RK5000PS-5U Rack Mount Chassis Installation manual.

NOTE: The FT85081 transmitter/FR85081 receiver is a triple-width fiber optic module that occupies three slots in the RK5000PS-3U, RK5000-3U, and RK5000PS-5U chassis.

MOUNTING THE TRANSMITTER/RECEIVER USING THE WALL CLIP

NOTE: Before mounting the FT85081 transmitter/FR85081 receiver to a wall, ensure that there is adequate space at both ends for viewing the front-panel LEDs and for making the various rear-panel cable connections.

To attach the FT85081 transmitter/FR85081 receiver to a wall using the supplied wall clip, refer to Figure 7 and do the following:

- Using the two vertical or horizontal wall-mounting holes, attach the wall clip to a wall using two screws (not provided).
- 2. Slide the module into the clip until the two holes on the bottom of the module align with the two holes on the lower flange of the clip.
- 3. Attach the module to the clip using the two Phillips pan head screws provided for the clip.

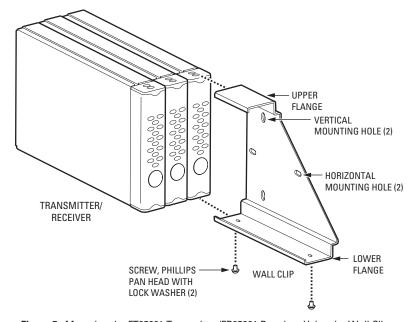
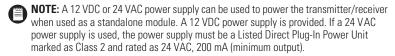


Figure 7. Mounting the FT85081 Transmitter/FR85081 Receiver Using the Wall Clip

CONNECTIONS

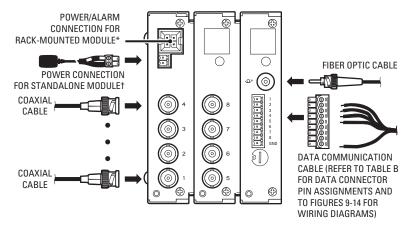
Connections to the FT85081 transmitter and the FR85081 receiver are made on the rear panel of the modules and consist of the following:

Power connection



- Video input connections (transmitter only)
- Video output connections (receiver only)
- Fiber connection
- Data connection

Figure 8 provides an illustration of FT85081 transmitter/FR85081 receiver connections.



^{*}REFER TO THE RK5000PS-3U/RK5000-3U FIBER RACK MOUNT CHASSIS INSTALLATION
MANUAL FOR INFORMATION

Figure 8. FT85081 Transmitter/FR85081 Receiver Connections

[†]THE STRIPED WIRE OF THE SUPPLIED 12 VDC POWER SUPPLY CONNECTS TO THE PIN 1 SCREW TERMINAL (DC+) OF THE STANDALONE POWER CONNECTOR. THE OTHER WIRE CONNECTS TO THE PIN 2 SCREW TERMINAL (DC-).

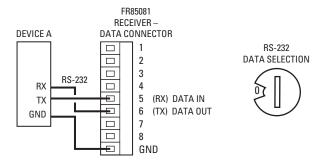
Table B. Data Connector Pin Assignments

Pin Number	RS-232	RS-422	RS-485 2-Wire	RS-485 4-Wire	Manchester	Bi-Phase
1	_	Out+	In+/Out+	Out+	_	_
2	_	Out-	In-/Out-	Out-	_	_
3	_	ln+	_	In+	In+ (W)	In+
4	_	In-	_	In-	In- (B)	In-
5	In	_	_	_	_	_
6	Out	_	_	_	_	_
7	_	_	_	_	Out+ (W)	Out+
8	_	_	_	_	Out- (B)	Out-
9	Ground	*	*	*	Shield	Shield

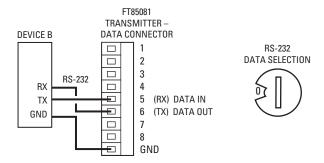
^{*}Ground may be required based on conditions of installation. Refer to the current version of EIA/TIA-422 and EIA/TIA-485 standards for additional information.

NOTES:

- In, In+, and In- denote data input to the transmitter/receiver.
- Out, Out+, and Out- denote data output from the transmitter/receiver.
- W denotes white wire, and B denotes black wire.

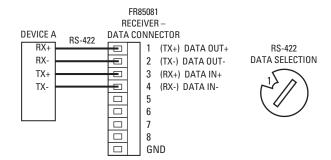


RS-232 DATA CONNECTIONS BETWEEN DEVICE A AND FR85081 RECEIVER

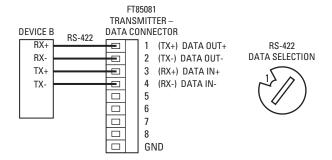


RS-232 DATA CONNECTIONS BETWEEN DEVICE B AND FT85081 TRANSMITTER

Figure 9. RS-232 Data Communication Wiring

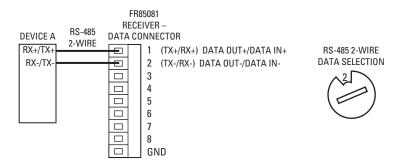


RS-422 DATA CONNECTIONS BETWEEN DEVICE A AND FR85081 RECEIVER

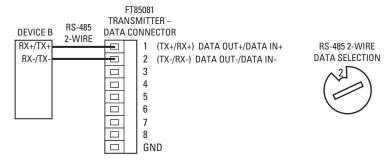


RS-422 DATA CONNECTIONS BETWEEN DEVICE B AND FT85081 TRANSMITTER

Figure 10. RS-422 Data Communication Wiring

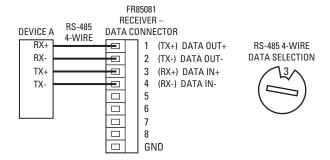


RS-485 2-WIRE DATA CONNECTIONS BETWEEN DEVICE A AND FR85081 RECEIVER

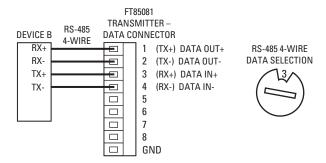


RS-485 2-WIRE DATA CONNECTIONS BETWEEN DEVICE B AND FT85081 TRANSMITTER

Figure 11. RS-485 2-Wire (Half Duplex) Data Communication Wiring

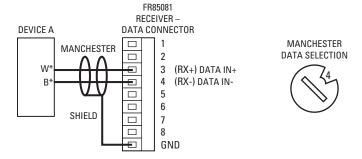


RS-485 4-WIRE DATA CONNECTIONS BETWEEN DEVICE A AND FR85081 RECEIVER

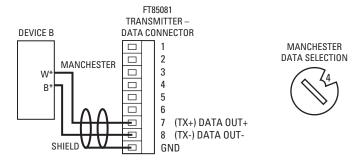


RS-485 4-WIRE DATA CONNECTIONS BETWEEN DEVICE B AND FT85081 TRANSMITTER

Figure 12. RS-485 4-Wire (Full Duplex) Data Communication Wiring



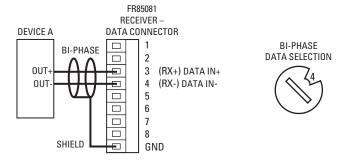
MANCHESTER DATA CONNECTIONS BETWEEN DEVICE A AND FR85081 RECEIVER



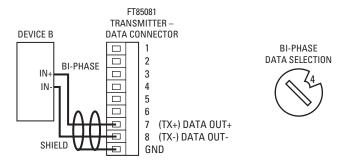
MANCHESTER DATA CONNECTIONS BETWEEN DEVICE B AND FT85081 TRANSMITTER

*W DENOTES WHITE WIRE, AND B DENOTES BLACK WIRE.

Figure 13. Manchester Data Communication Wiring



BI-PHASE DATA CONNECTIONS BETWEEN DEVICE A AND FR85081 RECEIVER



BI-PHASE DATA CONNECTIONS BETWEEN DEVICE B AND FT85081 TRANSMITTER

Figure 14. Bi-Phase Data Communication Wiring

Troubleshooting

LED indicators on the front panel of the FT85081 transmitter/FR85081 receiver (refer to Figure 2 and Figure 3, respectively) allow you to monitor signal status, data activity, and operating power. Table C provides information about the front-panel indicators and associated troubleshooting guidelines.

Table C. Troubleshooting with Front-Panel Indicators

Indicator Color	Meaning	Possible Cause	Corrective Action			
Power LED (Pelco badge)						
Blue Pelco logo lights.	Power is being applied to the module.	_	No action required.			
Blue Pelco logo does not light.	Power is not being applied to the module.	Power connection is faulty.	Check power connection. If module is rack mounted, reseat module or power supply as necessary.			
		Power supply has failed.	Replace power supply.			
		Loss of power occurs due to tripped circuit breaker(s), blown fuse(s), or faulty electrical service.	Check circuit breaker(s), fuse(s), or electrical service as necessary.			
	Video Pr	esent LED				
Green	Incoming video signal is present on the channel.		No action required.			
Red on transmitter	Incoming video signal is not present on the	Video source is not powered on.	Check power connection to the video source.			
	channel.	Video source is not connected to the transmitter.	Check BNC connections.			
		Coaxial cable is defective.	Replace cable.			

(Continued on next page)

Table C. Troubleshooting with Front-Panel Indicators (Continued)

Indicator Color Meaning		Possible Cause	Corrective Action			
Video Present LED (Continued)						
Red on receiver	Incoming video signal is not present on the channel.	Optical signal is not being received from the transmitter. Carrier Detect LED is also red.	Refer to the Carrier Detect LED troubleshooting section below.			
		Video source is not powered on.	Check power connection to the video source.			
		Video source is not connected to the transmitter.	Check BNC connections.			
		Coaxial cable connected to the transmitter is defective.	Replace cable.			
	Carrier D	Detect LED				
Green on transmitter	The optical signal is being received from the receiver.	_	No action required.			
Green on receiver	The optical signal is being received from the transmitter.	_	No action required.			
Red on transmitter	The optical signal is not being received from the receiver.		Check power connections. Replace power supply if necessary.			
		Fiber optic cable is not connected.	Check fiber optic connections.			
		Fiber optic cable connectors are dirty or are damaged.	Clean, polish, or replace fiber optic cable connectors as necessary.			
		Fiber optic cable is defective.	Replace cable.			

(Continued on next page)

Table C. Troubleshooting with Front-Panel Indicators (Continued)

Indicator Color	Meaning	Possible Cause	Corrective Action			
Carrier Detect LED (Continued)						
Red on transmitter (continued)		A problem exists with the optical power budget.	Verify that losses in fiber optic cable do not exceed the optical power budget specification of the fiber optic link. If the losses do exceed the optical power budget, contact Product Support.			
Red on receiver	The optical signal is not being received from the transmitter.	powered on.	Check power connections. Replace power supply if necessary.			
		Fiber optic cable is not connected.	Check fiber optic connections.			
		Fiber optic cable connectors are dirty or are damaged.	Clean, polish, or replace fiber optic cable connectors as necessary.			
		Fiber optic cable is defective.	Replace cable.			
		A problem exists with the optical power budget.	Verify that losses in fiber optic cable do not exceed the optical power budget specification of the fiber optic link. If the losses do exceed the optical power budget, contact Product Support.			

(Continued on next page)

Table C. Troubleshooting with Front-Panel Indicators (Continued)

Indicator Color	Meaning	Possible Cause	Corrective Action			
Data Tx LED						
Flashing amber	Data is being transmitted onto the fiber by the data port.	_	No action required.			
Red	Data Selection switch is set to an invalid setting.		Set Data Selection switch to the correct setting for the desired data communication (refer to Table A).			
Not lit	Data is not being transmitted onto the	Data is not present on the channel.	No action required.			
	fiber by the data port.	Data connection is faulty.	Check data connections.			
		Data communication cable is defective.	Replace cable.			
	Data	Rx LED				
Flashing amber	Data is being received from the fiber by the data port.	_	No action required.			
Red	Data Selection switch is set to an invalid setting.		Set Data Selection switch to the correct setting for the desired data communication (refer to Table A).			
Not lit	Data is not being received from the fiber	Data is not present on the channel.	No action required.			
	by the data port.	Data connection is faulty.	Check data connections.			
		Data communication cable is defective.	Replace cable.			

Specifications

VIDEO

Number of Channels 8

Modulation Type Pulse code modulation, 8-bit resolution
Video Input 1.0 Vp-p, 75 ohms; NTSC, PAL, and SECAM

Bandwidth 6.5 MHz Gain Unity

Crosstalk -50 dB typical at 3.58 MHz

Differential Gain <1%
Differential Phase <1.2°
Tilt <1%

Signal-to-Noise Ratio >60 dB (CCIR weighted)

DATA

Number of Channels 1

Data Communication RS-232, RS-422, RS-485 (2-wire/4-wire), Manchester,

Bi-Phase

Maximum Baud Rate 500 kbps

GENERAL

Operating Temperature -40° to 167°F (-40° to 75°C)
Input Power Requirements 12 VDC or 24 VAC, 600 mA

LED Indicators Power

Video Present (per channel)

Carrier Detect Data Tx Data Rx

Dimensions 8.75" D x 3.48" W x 4.81" H

22.23 x 8.84 x 12.22 cm

Unit Weight 3.50 lb (1.59 kg)

MECHANICAL

Connectors

Video BNC (per channel)
Rack Power/Alarm 4-pin connector

Standalone Power 2-pin connector, screw terminal
Data 9-pin connector, screw terminal

Fiber Optic ST for multimode fiber

ST or FC for single-mode fiber

OPTICAL POWER BUDGET, TRANSMISSION DISTANCE, AND LASER CLASS 1 LIMIT

Fiber	Wavelength	Optical Power Budget	Maximum Transmission Distance	Laser Class 1 Limit*
Multimode	1310 nm (video)	20 dB [†]	1 km (0.6 mi)††	<15.6 mW
(62.5/125 μm)	850 nm (data)	20 dB [†]	1 km (0.6 mi)††	<0.78 mW
Single-mode	1310 nm (video)	20 dB	30 km (18.6 mi)§	<15.6 mW
(9/125 μm)	1550 nm (data)	20 dB	30 km (18.6 mi)§	<10.0 mW

^{*}The FT85081 transmitter/FR85081 receiver is classified by the FDA as a Class 1 laser product.

 $^{^{\}text{t}}\text{When using 50/125}~\mu\text{m}$ fiber, subtract 3 dB from the optical power budget.

^{††}Maximum transmission distance is limited by fiber bandwidth.

 $^{^{\}S}$ Maximum transmission distance is based on attenuation of 0.5 dB/km plus a 5 dB buffer for connector and splice losses.



PRODUCT WARRANTY AND RETURN INFORMATION

WARRANTY

Pelco will repair or replace, without charge, any merchandise proved defective in material or workmanship for a period of one year after the date of shipment.

Exceptions to this warranty are as noted below:

- · Five years on FT/FR8000 Series fiber optic products.
- Three years on Genex® Series products (multiplexers, server, and keyboard).
- Three years on Camclosure® and fixed camera models, except the CC3701H-2, CC3701H-2X, CC3751H-2, CC3651H-2X, MC3651H-2, and MC3651H-2X camera models, which have a five-year warranty.
- Two years on standard motorized or fixed focal length lenses.
- Two years on Legacy®, CM6700/CM6800/CM9700 Series matrix, and DF5/DF8 Series fixed dome products.
- Two years on Spectra®, Esprit®, ExSite™, and PS20 scanners, including when used in continuous motion applications.
- Two years on Esprit® and WW5700 Series window wiper (excluding wiper blades).
- Eighteen months on DX Series digital video recorders, NVR300 Series network video recorders, and Endura[™] Series distributed network-based video products.
- . One year (except video heads) on video cassette recorders (VCRs). Video heads will be covered for a period of six months.
- Six months on all pan and tilts, scanners or preset lenses used in continuous motion applications (that is, preset scan, tour and auto scan modes).

Pelco will warrant all replacement parts and repairs for 90 days from the date of Pelco shipment. All goods requiring warranty repair shall be sent freight prepaid to Pelco, Clovis, California. Repairs made necessary by reason of misuse, alteration, normal wear, or accident are not covered under this warranty.

Pelco assumes no risk and shall be subject to no liability for damages or loss resulting from the specific use or application made of the Products. Pelco's liability for any claim, whether based on breach of contract, negligence, infringement of any rights of any party or product liability, relating to the Products shall not exceed the price paid by the Dealer to Pelco for such Products. In no event will Pelco be liable for any special, incidental or consequential damages (including loss of use, loss of profit and claims of third parties) however caused, whether by the negligence of Pelco or otherwise.

The above warranty provides the Dealer with specific legal rights. The Dealer may also have additional rights, which are subject to variation from state to state.

If a warranty repair is required, the Dealer must contact Pelco at (800) 289-9100 or (559) 292-1981 to obtain a Repair Authorization number (RA), and provide the following information:

- 1. Model and serial number
- 2. Date of shipment, P.O. number, Sales Order number, or Pelco invoice number
- 3. Details of the defect or problem

If there is a dispute regarding the warranty of a product which does not fall under the warranty conditions stated above, please include a written explanation with the product when returned.

Method of return shipment shall be the same or equal to the method by which the item was received by Pelco.

RETURNS

In order to expedite parts returned to the factory for repair or credit, please call the factory at (800) 289-9100 or (559) 292-1981 to obtain an authorization number (CA number if returned for credit, and RA number if returned for repair).

All merchandise returned for credit may be subject to a 20% restocking and refurbishing charge.

Goods returned for repair or credit should be clearly identified with the assigned CA or RA number and freight should be prepaid. Ship to the appropriate address below.

If you are located within the continental U.S., Alaska, Hawaii or Puerto Rico, send goods to:

Service Department Pelco 3500 Pelco Way Clovis, CA 93612-5699

If you are located outside the continental U.S., Alaska, Hawaii or Puerto Rico and are instructed to return goods to the USA, you may do one of the following:

If the goods are to be sent by a COURIER SERVICE, send the goods to:

Pelco 3500 Pelco Way Clovis, CA 93612-5699 USA If the goods are to be sent by a FREIGHT FORWARDER, send the goods to:

Pelco c/o Expeditors 473 Eccles Avenue South San Francisco, CA 94080 USA Phone: 650-737-1700 Fax: 650-737-0933

REVISION HISTORY

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Worldwide Headquarters 3500 Pelco Way Clovis, California 93612 USA

> USA & Canada Tel: 800/289-9100 Fax: 800/289-9150 International Tel: 1-559/292-1981 Fax: 1-559/348-1120

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