

Description

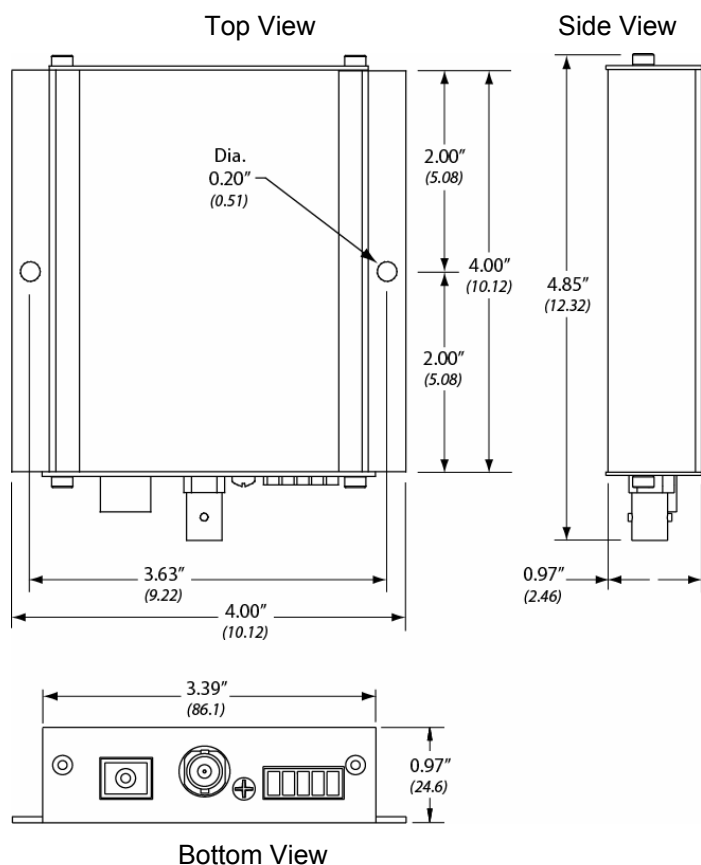
The NITEK FSS20111S fiber transmitter and receiver set, is a single channel video and data fiber-optic Universal-Mode™ system which can operate on either single-mode or multi-mode fiber. It transmits digital video and bi-directional data over a single optical fiber. The unique Universal-Mode™ optics mean you no longer have to worry about what kind of fiber you have in place. Digital transmission provides broadcast quality video performance, up to distances of 20Km (single-mode) and 1.2Km (multi-mode).

The transmitter and the receiver units are engineered to provide simple "plug and play" installation. Each unit can be removed from its case aluminum housing and used with the FRS2020, a 16 channel 19" 2U rack-mount chassis. To install, simply connect the included power supplies to each unit. Connect a camera to the transmitter and the receiver to a video monitor. The RS422/RS485 port allows for the use of camera controls if needed. The system begins communicating immediately after power-up. Three LED's on the front of the units indicate the presence of power, video and data for easy troubleshooting.



FSS20111S — 1 Channel Video Optical System

FSS20111S Unit Dimensions



Features

- Compatible with PAL / NTSC / SECAM video systems
- Supports RS422 2-wire and RS485 4-wire data protocols
- Distances up to 20Km in single-mode transmission
- Distances up to 1.2Km in multi-mode transmission
- Easy install, no set up or adjustments required
- Individual modules can be installed in the FRS2020 2U rack-mount chassis
- Real time digitally encoded video
- No degradation for video regeneration
- Wide temperature operating range
- System supports 'hot swapping'
- LED indicators for power, video and data
- Made in the USA



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TECHNICAL SPECIFICATION

SYSTEM SPECIFICATIONS

Number of Channels:	1 Channel	Data Connector:	Screw Terminal Block
Input / Output Voltage:	1Vpk-pk (typical)	Power Connector:	2.5mm (ID) x 5.5mm (OD) Barrel
Input / Output Impedance:	75 ohms (unbalanced)	Video Connector:	BNC Coax Connector
Bandwidth:	8MHz	Fiber Connector:	SC (IEC 61754-4)
Differential Phase:	< 0.7°	LED Indicators:	Power, Data, Video
Differential Gain:	< 2% (typical)	Operating Temp:	-35 C to 70 C / -31 F to 158 F
Tilt:	< 0.5%	Storage Temp:	-40 C to 85 C / -40 F to 185 F
Signal-to-Noise Ratio:	≥ 65dB	Relative Humidity:	Up to 95% non condensation
Format:	PAL/NTSC/SECAM compatible	Dimensions:	5.0" x 4.0" x 1.0" Including Tabs & BNC
Data Format:	RS-422 (2-wire) / RS-485 (4-wire)	Mounting Hole:	0.20" Diameter (5.0mm)
Data Direction:	Bi-direction	Shipping Dimensions:	12" x 10" x 2" (305 x 254 x 51mm)
Data Rate:	300Kbps	Shipping Weight:	2.0lbs (1.4Kg)
Bit Error Rate (BER):	10 ⁻⁹ bits		
Fiber Type Distances: (Dual Mode Communication)	Single-Mode 9/125 to 20Km Multi-Mode 50/125~62.5/125 to 1.2Km		

TRANSMITTER SPECIFICATIONS

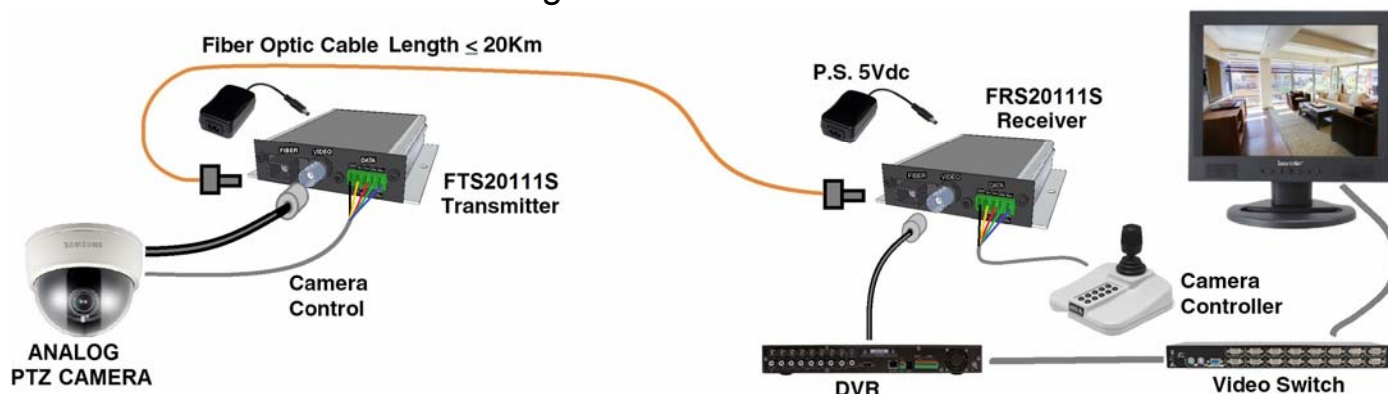
Transmitter Wavelength:	
TX:	1310nm
RX:	1550nm
Power Requirements:	5Vdc, 290mA / 1.5W

RECEIVER SPECIFICATIONS

Receiver Wavelength:	
TX:	1550nm
RX:	1310nm
Power Requirements:	5Vdc, 270mA / 1.4W

Common Installation Types

Single Camera Installation



Multiple Camera Installation

