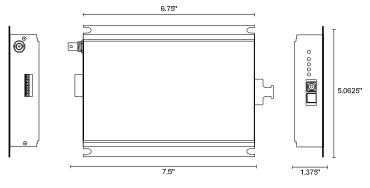
3000 Series



Standalone



Description

Nitek's FRS312104S00 is a single fiber per channel Universal-Mode™ video and data receiver. Nitek's unique Universal-Mode™ optics allow the same unit to be used with single-mode or multimode fiber optic cabling types.

The **3000** Series fiber optic transmission systems are designed to provide point-to-point, broadcast quality video transmission at an affordable cost, without compromise. The video is transmitted in a real time full bandwidth digital format. This insures the highest quality regardless of distance. By transmitting the video in an uncompressed format, there is no latency or loss of video quality.

An Automatic Gain control feature built into the receiver makes this a "plug-and-play" video system, requiring no field setup or adjustments. The unit is equipped with LED indicators which provide an at-a-glance operating and optics state.

The **3000 Series** 10 bit digital technology combined with ease of installation and inherent reliability have made this the system of choice for critical applications.

Features

- Real time 10 Bit digital video eliminates signal degradation associated with distance.
- Automatic Gain control minimizes setup and adjustment time.
- Switchable P/T/Z data interface allows interfacing with a wide range of manufacturers' protocols.
- Universal-Mode™ allows the same unit to be used with multi-mode or single-mode fiber without any set up or field configuration.
- Wide dynamic range. Provides "broadcast quality" video transmission.
- Directly supports all NTSC, PAL or SECAM video formats.
- Receiver is equipped with front panel LED status indicators to provide at-a-glance diagnostics of the systems video and optics state.
- Broad operating temperature range for use in protected outdoor applications.

Ordering Information

Fiber Type	Part #	Compatible Transmitter	# Fibers	Loss Budget	Connector	Max Distance
Multi-Mode 62.5/125μm	FRS312104S00	FTS312104S00	1	20dB	SC-PC	Multi-Mode Fiber 6,500 ft (1.2 miles)
Single Mode 9/125 μm			_			Single-Mode Fiber >130,000 ft (24.5 miles)
Description	FRS312104S00 Video and Data Receiver					
Accessories						





Video

Compression

Input / Output Level

Input / Output Impedance

Frequency Response

Differential Gain

None, Uncompressed

1V p/p nominal

75 Ohm Unbalanced

10Hz to 5.75Mhz

Differential Gain 1%
Differential Phase 1º

Signal to Noise Ratio 67dB minimum

Fiber Connector SC-PC
Video Connection BNC
Video Standard NTSC/PAL

Data

Data interface RS232, RS422 (full duplex, two wire)

RS485 (half duplex, two wire)

Slide switch selectable

Data rate per channel Up to 512kb/s

Auxiliary Communication

Bi-directional contact closure/alarms

Alarm in Contact/relay in Alarm out 100V / 150mA max.

Audio

Not Available in 3000 Series See 5000 Series

Optical

Accepts both multi- and single-mode fiber

Multi-mode 50/125 or 62.5/125 Single-mode 9/125

Wavelength 1310nm
Optical Connector SC-PC
Path Loss 20dB min.

General

Operating Temperature -40° to 165° Fahrenheit
Operating Humidity 0 to 95% non-condensing
Power Requirements +12VDC to +24VDC ac/dc
1.5 Watts

Mechanical

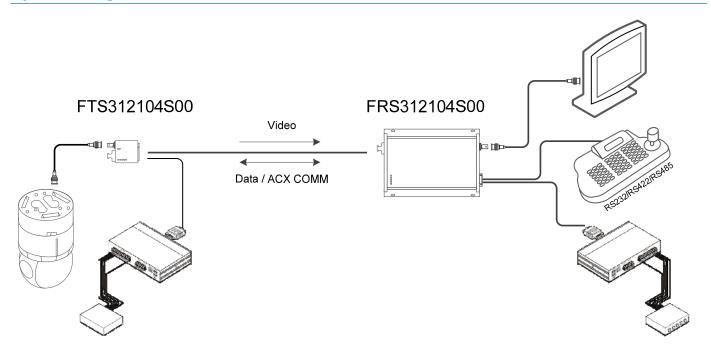
 Height
 4.330"

 Width
 1.375"

 Depth
 6.770"

In our continued effort to "Bridge the Gap in Technology", product specifications are subject to change without notice.

System Design







/SN