# 5000 Series



## **Standalone**



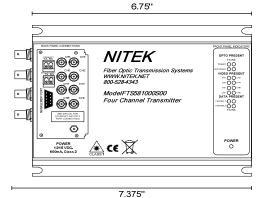
Nitek's FTS581000S00 is an eight channel Universal-Mode™ video transmitter. Nitek's unique Universal-Mode™ optics allow the same unit to be used with 1 single-mode or multi-mode fiber optic

unit to be used with 1 single-mode or multi-mode fiber optic cabling type.

The **5000 Series** fiber optic transmission systems are designed to provide multi-channel, point-to-point, broadcast quality video transmission at an affordable cost, without compression. The 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. The 5000 Series uses Coarse Wavelength Division Multiplexing (CWDM) to transmit 2 wavelength channels for video transmission on a single optical fiber.

Automatic gain control is built into the 5000 Series receivers making this a "plug-and-play" video system, requiring no field setup or adjustments. Receivers are equipped with LED indicators which provide an at-a-glance operating and optics state.

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#### **Features**

- Real time digital transmission eliminates signal degradation associated with distance.
- 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. No adjustments are required for installation, 'plug and play'.
- Configurations available in single fiber and twin fiber configurations.
- Receivers equipped with front panel LED status indicators provide at-a-glance diagnostics of the systems video and optics state.
- Front panel LED status indicators provide at-a-glance status monitoring.
- Standalone transmitters and receivers for ease of installation.

# **Ordering Information**

Fiber Type	Part #	Compatible Receivers	# Fibers	Loss Budget	Connector	Max Distance
Multi-Mode 62.5/125μm	FTS581000S00	FRS581000S00	1	17dB	гc	Multi-Mode Fiber 1,640 ft (3/10 mile)
Single Mode 9/125 μm	F13381000300	FRS581000S00	1	1706	LC	Single-Mode Fiber >130,000 ft (24.5 miles)
Description	FTS581000S00 Video Transmitter					
Accessories						





# **Eight Channel Video Transmitter**

FTS581000S00-022009

#### Video

Compression None, uncompressed Input / output level 1V P/P, nominal Input / output impedance 75 Ohm unbalanced Frequency response 10Hz to 5.57MHz min. 7.5MHz cut off Differential gain 2%

Differential gain 2%
Differential phase 2º

Signal to noise ratio 67dB, 10 bit conversion

Video connection BNC
Optical connection LC
Video standard NTSC/PAL

#### **Optical**

Accepts both multi- and single-mode fiber

50/125 or 62.5/125 Multi-mode 9/125 Single-mode 1310nm Wavelength 1550 option 1550nm Single fiber option 1310/1550nm **CWDM** 1310-1610nm Path loss 17dB min. HP option 22dB min. CWDM option 22dB min.

#### General

Operating temperature 5º to 160º Fahrenheit
Operating humidity 0 to 95% non-condensing
Power requirements 12-24VAC or DC @ 300ma
Indicators

Power Green LED
Video Sync Green LED/channel

## Mechanical

 Height
 5.2"

 Width
 7.4"

 Depth
 2.1"

**ECHNICAL SPECIFICATION** 

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

# System Design

