



UNcompressed Digital STL



MODEL 460 DIGITAL STL TRANSMITTER

The TFT Digital STL is a new addition to the TFT family of STL products with six uncompressed program channels and a data channel to meet the requirements of consolidated operations. It provides the maximum number of high quality program channels over a single RF channel.

GENERAL DESCRIPTION

The TFT Digital STL consists of a transmitter and receiver pair that accommodates up to three AES/EBU (stereo) inputs or up to six discrete audio channels. The transmitter has a 2 Watt output and delivers them uncompressed in a configurable digital method to the receiver. Sample rates of 32, 44.1, and 48 ks/s are supported. The method of modulation is a function of the number of channels and sample rate and is configurable from a front panel jack that can be connected to a laptop PC. The RF system is frequency agile and set by software in the transmitter and receiver.

REMOTELY CONFIGURABLE

The frequency and input/output configuration of both the transmitter and receiver can be set for optimum values of threshold and modulation via a laptop PC that can be connected to a modem. User friendly software with a graphical user interface (GUI) is provided with each system. The transmitter and receiver can be remotely controlled over an internet or LAN connection.

FEATURES & BENEFITS

- **6 Channels Uncompressed**
- **PC Configurable**
- **256/64/16 QAM or 8PSK**
- **32, 44.1, 48 ks/s Sample Rates**
- **AES/EBU or Analog I/Os**
- **12.5 kHz Step Size**
- **Major and Minor Alarms**
- **FCC ID: BIO460**

SPECIFICATIONS

SYSTEM

Frequency.....940-960 MHz
 (other frequencies available)

Step Size.....12.5 kHz

Frequency Stability.....± 5 ppm (±0.0005)%

Occupied Bandwidth.....≤ 500 kHz

I/O.....AES/EBU (XLR, 110 Ω) or
 Analog (XLR, 600 Ω)

Linear Channels	Sample Rate (ks/s)	Modulation Type
6	32	256QAM
4	48	256QAM
4	44.1	256QAM
4	32	64QAM
2	48	16QAM
2	44.1	16QAM
2	32	8PSK

Frequency Response
 0.5 Hz to 22.5 kHz (48 ks/s)
 0.5 Hz to 15 kHz (32 ks/s)

Distortion.....< 0.005% at 1 kHz

Noise.....> 92 dB

Dynamic Range.....90 dB static

Crosstalk.....< 80 dB

Time Delay.....< 1 msec

Data Channel.....9600 baud, 9-pin, RS-232

TRANSMITTER

Output Power.....> 2 Watts (nominal)

Output Impedance.....50 Ω

Output Connector.....Type N (female)

PC Interface.....Front Panel 9-pin RS-232

Analog Audio Inputs.....600/10k Ω selectable

Analog Levels....- 10 to + 18 dBm adjustable

AES/EBU Inputs.....110 Ω
 Transformer Balanced

RECEIVER

Threshold Sensitivity...- 84 dBm for 256 QAM
 - 90 dBm for 64 QAM
 - 96 dBm for 16 QAM
 - 99 dBm for 8PSK

Bit Error Rate at Threshold.....< 10⁻⁶
 for no perceptible loss

Analog Audio Outputs.....600 Ω balanced

Analog Output Levels.....- 10 to + 8 dBm

MECHANICAL AND ENVIRONMENTAL

Dimensions.....19 x 3.5 x 17 (inches)
 48.3 x 8.9 x 43.2 (cm)

Weight.....20 lbs. (9 kg)

AC Power Requirements
 120/240 VAC 50/60 Hz
 Transmitter 100 Watts
 Receiver 20 Watts

Operating Temperature.....0° to +50° C.



MODEL 467 DIGITAL STL RECEIVER

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