

STL SYSTEMS

STL-1 AND STL-2 FREQUENCY AGILE COMPOSITE STUDIO-TRANSMITTER LINKS



Transmitter STL-1

SYSTEM FEATURES:

- Frequency Agile within 20 MHz Band, 200-1000 MHz.
- Composite or High Fidelity Mono Operation.
- Precision LED Modulation Meter with Peak Indicator.
- Adjustable Power Output 0-10 Watts for STL-1.
- STL-2 Requires only 1 Watt of RF Drive for 17 Watt Output.
- Full Metering of Main Parameters.
- (1) Composite or (1) Mono and (3) SCA Inputs on Transmitter with Companion Outputs on Receiver.

The STL Systems described in this brochure are designed to provide broadcasters with excellent, quality equipment which offers exceptional reliability for years of trouble free service.

The STL-1 and STL-2 design takes advantage of the latest technologies, providing unparalleled performance at budget prices.

The STL-1, 10 watt system consists of the STL-1 transmitter and the STL-R receiver, the STL-2, 17 watt system is an STL-1 system with an STL-2. amplifier.



ENERGY-ONIX

The Transmitter People

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Receiver Model #STL-R

TRANSMITTER SPECIFICATIONS

FREQUENCY RANGE: 890-960 MHZ, 400-480 MHZ, 280-340 MHZ, 200-260 MHZ (10KHZ Steps).

RF POWER OUTPUT:

STL-1 - 10 WATTS 200-480 MHZ
 10 WATTS 890-960 MHZ
 STL-2 - 20 WATTS 200-480 MHZ
 17 WATTS 890-960 MHZ

OUTPUT IMPEDANCE: 50 watt, Type 'N' Female.

FREQUENCY STABILITY: + .0015%, -20°C TO +50°C.

TYPE OF MODULATION: Direct FM (Synthesized).

MONO INPUT: 600 OHMS - 10 DBM balanced adjustable.

COMPOSITE INPUT: 10 K OHMS unbalanced BNC.

SCA INPUT: (3) 10 K unbalanced BNC's, 0 DBM nominal input for +7.5 KHZ deviation.

AC REQUIREMENTS: 117 or 230 volt +10%, 50-60 HZ single phase, STL-1: 70 watt. STL-2: 100 watt.

SPURIOUS AND HARMONIC EMISSION:
 Meets or exceeds FCC and CCIRC requirements.

METERING: Precision "Peak-Hold" Bar Graph Meter. Test Meter for Forward Power, PA Voltage, PA Current, AFC, and Power Supply Voltages.

RECEIVER SPECIFICATIONS

FREQUENCY RANGE: Same as transmitter.

SENSITIVITY COMPOSITE: 100 MV or less 65 DB SNR de-emphasized, demodulated.

MONO: 35 MV or less 65 DB SNR.

INPUT IMPEDANCE: 50 OHM, type 'N' Female.

SELECTIVITY: +100 KHZ at -3 DB if bandwidth +350 KHZ at -70 DB if bandwidth.

FREQUENCY STABILITY: +.00025%, -20°C to +50°C

SPURIOUS RESPONSE: Meets or exceeds all FCC and CCIR requirements.

COMPOSITE OUTPUT: +13 DBM 600 OHMS unbalanced BNC.

SCA OUTPUTS: -6 DBM 600 OHMS unbalanced BNC.

FRONT PANEL CONTROLS: Headphone Trim Pot, Frequency Select, Muting Level Trimmer, Deviation Meter Select, Multi-Meter Select, Power On/Off, LPF Selection.

AC REQUIREMENTS: 117 or 230 V +10% 50-60 HZ, single phase 22 watt.

METERING: Bar Graph Deviation Meter, Multi-Meter for Signal Strength, SCA Strength, Mono, MPX, and Center and Power Supply Voltages.



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