

QUICK START

SPECTRA 1964 STX 100 MIC/LINE PREAMPLIFIER

The STX 100 represents an affordable alternative for employing Spectra Sonics technology, with the same result as the now famous vintage recording desks offered over 40 years ago. The unique circuit topology of the STX 100 utilizes a 100 series discrete preamplifier design that was at the heart of every console built by the company. The result is unequalled performance in terms of expanded dynamic range, (headroom), low noise and distortion, as well as extended harmonic content of the amplified signal.

The STX 100 will allow for termination to microphone and line input sources. A dual potentiometer located at the bottom of the unit, allows for quick, accurate and consistent input and output level adjustment.

INPUT TRIM/PAD CONTROL

The input trim is located at the top of the unit. The input trim knob controls a majority for the overall gain of the unit. The overload indicator, located above the input trim, illuminates at a level 3dB prior to input RMS clipping. The level for the input trim section should always be at the *maximum*, as indicated by the overload indicator. The optimum trim level will maximize signal to noise, dynamic range, and overall performance of the device.

OUTPUT LEVEL CONTROL

The output level control operates the multiple amplifier stages terminated after the input stage. As a separate function, the overload indicator, (OUT OVL), provides indication of output RMS clipping, (+18dBm). The output indicator illuminates 3dB prior to the established clipping level. It should be noted that the input overload circuit, (IN OVL), *only* operates on the input section signal levels. The output

overload indicator, (OUT OVL), can be illuminated by either the input, or output signal level settings.

POWER SUPPLY REQUIREMENTS

Unlike similar devices, the STX 100 does not require an excessive power supply reserve. Typically, the unit requires less than 50mA of current for stable operation under the published maximum output of +18dBm. This statement assumes that the power supply source provides a constant +/- 16 volts DC. The noise performance of the STX 100 is based on a PSU noise ripple above -65dB.

STX 100 SPECIFICATIONS

GAIN: 64dB

THD: LESS THAN .01% @ 20Hz-20kHz

SIGNAL/NOISE: BETTER THAN 120dB, (unweighted)

MAXIMUM OUTPUT: +18dBm, 20Hz-20kHz

POWER REQUIREMENT: LESS THAN 50mA, +18dBm

INPUT/OUTPUT CONTROL: INDEPENDENT, CONTINUOUSLY VARIABLE/10dB PAD (PAD MAY BE SWITCHED TO 20dB WITH INTERNAL JUMPER ADDITION).

INPUT IMPEDANCE: 5k OHMS, NOMINAL

OUTPUT IMPEDANCE: LESS THAN 50 OHMS

FREQUENCY RESPONSE: 10Hz-50kHz

PHANTOM: 48 VOLTS

PHASE: 180 DEGREES/REVERSE/MIC OR LINE INPUT

SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE 3/19

