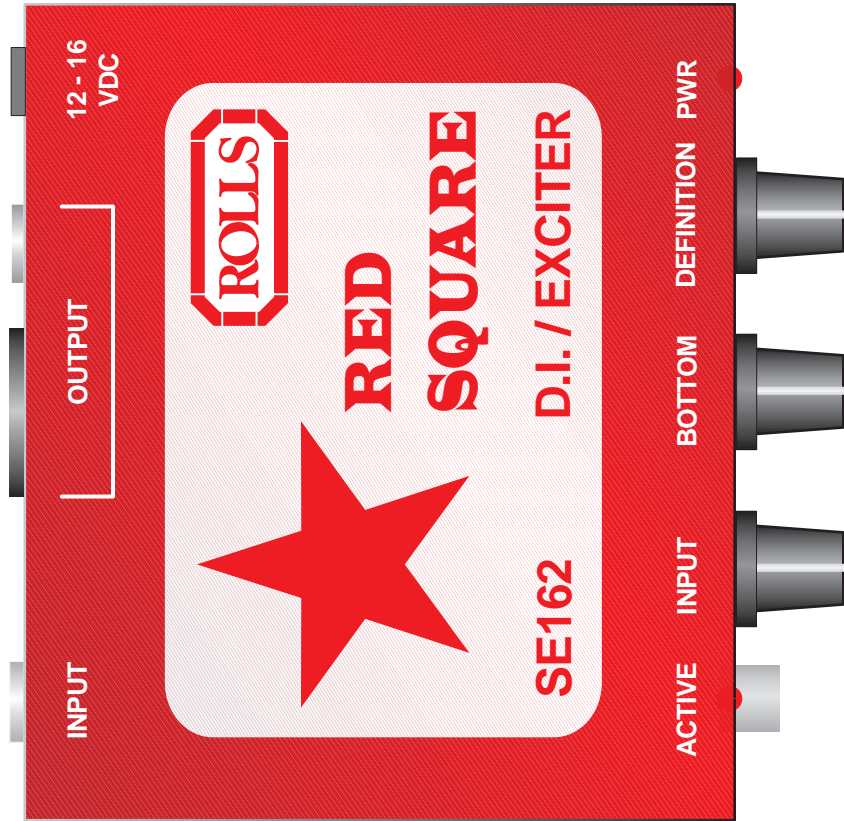




**SE162
RED SQUARE
D.I. / Sonic Exciter**



OWNERS MANUAL

LIMITED WARRANTY

This product is warranted to the original consumer purchaser to be free from defects in materials and workmanship under normal installation, use and service for a period of one (1) year from the date of purchase as shown on the purchaser's receipt.

The obligation of Rolls Corporation under this warranty shall be limited to repair or replacement (at our option), during the warranty period of any part which proves defective in material or workmanship under normal installation, use and service, provided the product is returned to Rolls Corporation, TRANSPORTATION CHARGES PREPAID. Products returned to us or to an authorized Service Center must be accompanied by a copy of the purchase receipt. In the absence of such purchase receipt, the warranty period shall be one (1) year from the date of manufacture.

This warranty shall be invalid if the product is damaged as a result of defacement, misuse, abuse, neglect, accident, destruction or alteration of the serial number, improper electrical voltages or currents, repair, alteration or maintenance by any person or party other than our own service facility or an authorized Service Center, or any use violative of instructions furnished by us.

This one-year warranty is in lieu of all expressed warranties, obligations or liabilities. ANY IMPLIED WARRANTIES, OBLIGATIONS, OR LIABILITIES, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, SHALL BE LIMITED IN DURATION TO THE ONE YEAR DURATION OF THIS WRITTEN LIMITED WARRANTY. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

IN NO EVENT SHALL WE BE LIABLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR BREACH OF THIS OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, WHATSOEVER. Some states do not allow the exclusion or limitation of special, incidental or consequential damages so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

SE162 RED SQUARE

- Direct Box and Sonic Exciter all in one compact package
- "Definition" Control for crisp highs
- "Bottom" Control for a big bass sound

The SE162 is an impedance matching device with a unique and usefull addition - sonic excitment. It was designed by sound engineers who desired a way to take signals that may need some frequency loss compensation, and send the purified signals down long lines.



Rolls Corporation
Salt Lake City, UT
2/98

Thank you for your purchase of the Rolls SE162 DI/Sonic Exciter. This product has been designed for years of useful service. We take pride in our products and appreciate any comments you may have regarding them. The SE162 takes your program material and adds new life, clarity, and three dimensionality to your sounds, as well as converting a high impedance signal to low impedance.

Please read the following manual carefully to ensure proper operation, and enjoy your new SE162.

INSPECTION

1. Unpack and Inspect the SE162 package

Your SE162 was carefully packed at the factory in a protective carton. Nonetheless, be sure to examine the unit and the carton for any signs of damage that may have occurred during shipping. If obvious physical damage is noticed, contact the carrier immediately to make a damage claim. We suggest saving the shipping carton and packing materials for safely transporting the unit in the future.

2. Please complete the Warranty Registration Card and return it to the factory.

DESCRIPTION

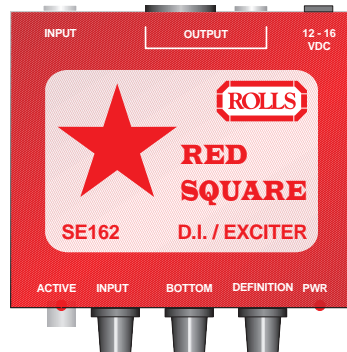
ACTIVE SWITCH: Engages and disengages the SE162 process. When out, the unit is bypassed.

INPUT: Controls the level of input signal.

BOTTOM: Controls the low frequency cut/boost (flat or no cut/boost is at about 11'clock). There is a 0 to 1/2 turn spectrum spread from mid-range to bass with this control as well as amplitude control.

DEFINITION: Controls the amount of sonic clarity and sound spread. Setting it on 0 is flat response and minimal spread, on 10 is maximum spread and definition.

PWR LED: Indicates that the RP262 is connected to an AC outlet, and the power is turned on.



INPUT: Unbalanced 1/4" T-S input for connection to the output of an instrument preamplifier or other line level output.

OUTPUT: XLR balanced and 1/4" TS unbalanced output for connection to a snake, mixer, or power amplifier.

WHAT IS A SONIC EXCITER?

The human ear can detect a frequency range of roughly 20Hz to 20kHz. However, the frequency response that a normal speaker can effectively reproduce is much, much less. Additionally, speakers add distortion and phase changes that make the sound quite different from that of the original material.

A sonic exciter restores clarity and presence to the processed signal by correcting phase changes and harmonic structure differences. In other words, it puts the components of the sound back where they belong.

All of this magic is done by the use of all-pass filtering, frequency compensated gain adjustment, and compensated frequency domain delay. What this means to you is the elements of your sound are fanned out like a deck of cards, making each sound more audible and distinct, reducing the need for high volume and radical equalizer adjustment.

SPECIFICATIONS

Frequency Response	20 Hz - 40 kHz
Input Impedance	100K Ω unbalanced
THD + Noise	<0.03% typical
Noise Floor	-78 dB
Indicators	Power LED Active LED
Input/Output jacks	XLR balanced output 1/4" unbalanced input and output
Size:	4" x 4" x 1.5"
Weight:	1 lb. (.5 kg)
Power:	12 - 16 VDC 50mA 5 x 1.2 mm DC Jack - Center Negative