

# ROLLS

HR261

Stereo Tube  
Sonic Exciter



## SPECIFICATIONS

Frequency Response:	20 Hz - 40 kHz
Input Impedance:	10K balanced - 10K unbalanced
THD + Noise:	<0.2% typical
Noise Floor:	-78 dB
Subwoofer Slope:	-18 dB/Octave
Max. Subwoofer Gain:	+20 dB
Input/Output jacks:	XLR balanced
Definition Enhancement:	-Infinity to + 10dB
Bottom enhancement:	-Infinity to +10 dB
Dimensions:	1.75" X 5" X 6.75"
Weight:	1.8 lbs.
Power:	100-240VAC 15VA (PS27s adapter)

**ROLLS**

ROLLS CORPORATION  
SALT LAKE CITY, UTAH  
7/14

Quick Start Guide

## FRONT PANEL DESCRIPTION



**ACTIVE SWITCH:** Engages and disengages the HR261. When out, the unit is bypassed.

**BOTTOM:** Controls the low frequency cut/boost (flat or no cut/boost is at about 12 o'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 HR261 is connected to an AC outlet, and the power is turned on.



## REAR PANEL DESCRIPTION

**DC INPUT JACK:** For connection to the supplied power adapter.

**RIGHT/LEFT XLR OUTPUTS:** Balanced outputs for connection a power amplifier or other equipment with XLR line level capabilities.

**LEFT/RIGHT XLR INPUTS:** Balanced line level inputs.

**SUB OUTPUT:** RCA unbalanced output for connection to the Sub Woofer power amplifier.

**RIGHT/LEFT RCA OUTPUTS:** Unbalanced line level outputs.

**LEFT/RIGHT RCA INPUTS:** Unbalanced inputs for connection (normally) to the last device in the signal chain before the power amplifier.

## OPERATION

### STEREO CONNECTION

We recommend you put the HR261 last in the signal chain. If you have an EQ or other processor after your mixer's main outputs, use the HR261 between it and your power amplifier.

If you are connecting the HR261 into a home stereo system, insert the Sonic Exciter between your signal sources such as tuners, DVD players, CD players etc. and the power amplifier.

**CAUTION: TO AVOID POSSIBLE SPEAKER OR AMPLIFIER DAMAGE, ALWAYS TURN ON THE HR261 AND OTHER PERIPHERAL EQUIPMENT BEFORE TURNING ON THE POWER AMPLIFIERS. ALSO TURN OFF THE POWER AMPLIFIERS FIRST, BEFORE TURNING OFF THE HR261 AND OTHER EQUIPMENT.**

The HR261 Stereo Sonic Exciter is a two channel frequency compensation device designed to add life and animation to your sound.

### WHAT IS A SONIC EXCITER?

The frequency range that a human ear can detect is roughly 20Hz to 20kHz. However, the frequency response a normal speaker can effectively reproduce is much, less. Additionally, speakers add distortion and phase changes that make the sound 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 is done by the use of all-pass filtering, frequency compensated gain adjustment, and frequency compensated domain delay. What this means is the elements of sound are fanned out like a deck of cards, making each sound more audible and distinct, reducing the need for higher volumes and radical equalizer adjustment. This makes a more realistic and pleasing sound.