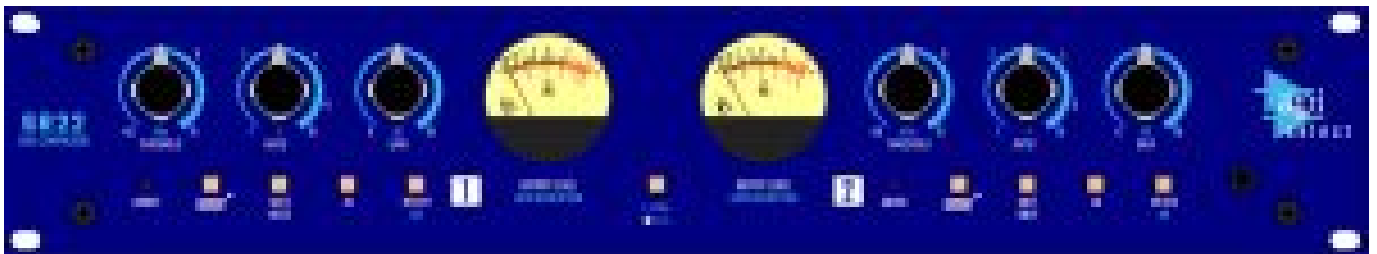




API Select SR22 Dual Channel Compressor User Manual

[Home](#) » [API Select](#) » API Select SR22 Dual Channel Compressor User Manual 



2 CHANNEL COMPRESSOR MODEL SR22 User Manual

Contents

- [1 INTRODUCTION](#)
- [2 FRONT PANEL CONTROLS](#)
- [3 REAR PANEL](#)
- [4 API Limited Warranty and Service Information](#)
- [5 Documents / Resources](#)
- [6 Related Posts](#)

INTRODUCTION

Thank you for choosing this API Select SR22 Compressor. The SR22 is a dual-channel compressor featuring two

channels of API's patented award-winning compressor circuit in a rack mount unit with an internal power supply. Each channel includes the patented THRUST switch to protect the sensitive high-frequency content of the audio signal even under the most vigorous of compression ratios. This is the same compressor circuit originally designed into all ATI Paragon mixing consoles. Audio Toys, Inc. (ATI) was founded in 1988 to manufacture audio equipment for live sound reinforcement use. The most revered product was the API Paragon P40 and later, its successor, the Paragon II mixing console. Paragons could be found on many of the top tours of the past 20 years. One of the many distinctive features of the Paragon was the inclusion of onboard dynamics processing – a gate and a compressor, both of which were the favorites of many of the top live engineers on the road. The compressor circuit from the Paragon is faithfully replicated in the API SR22.

ATI was able to acquire API in 1999. Today, the engineering approach and manufacturing processes of ATI have been incorporated into the company which has become API. The perfect companion to your SR24 EO, the SR22 compressor provides comprehensive easy-to-use control of the audio signal with custom VU metering of both output and gain reduction. While there are no Attack or Release controls, the SR22 uses an automatic timing circuit, which automatically varies the attack and releases characteristics in response to the audio signal passing through the unit. This results in very pleasing audio compression without the potential clicks and pops of either hard-edged attack or super-fast release times. The two channels can even be linked for use as a stereo compressor with two RMS power summing of the left and right signals.

LAYOUT

The API Select SR22 contains two identical channels of compression in a single chassis, sharing only a common ON/OFF switch.

Each channel features switches for the patented THRUST circuit, hard or soft knee, and bypass. Compressor controls are set via continuously variable potentiometers for threshold, compression ratio, and output makeup gain. The custom analog VU meter can be switched between monitoring output levels and gain reduction, with an additional LED to indicate when the input signal is above the set threshold level.

Rear panel connections include both balanced XLR connectors as well as balanced 1/4" jacks for both input and output.

FRONT PANEL CONTROLS



(1 channel shown)

POWER SWITCH The front panel power switch turns power to the SR22 on and off.

THRESHOLD The Threshold control sets the signal level above which compression will occur and can be adjusted from -410dBu to +15dBu.

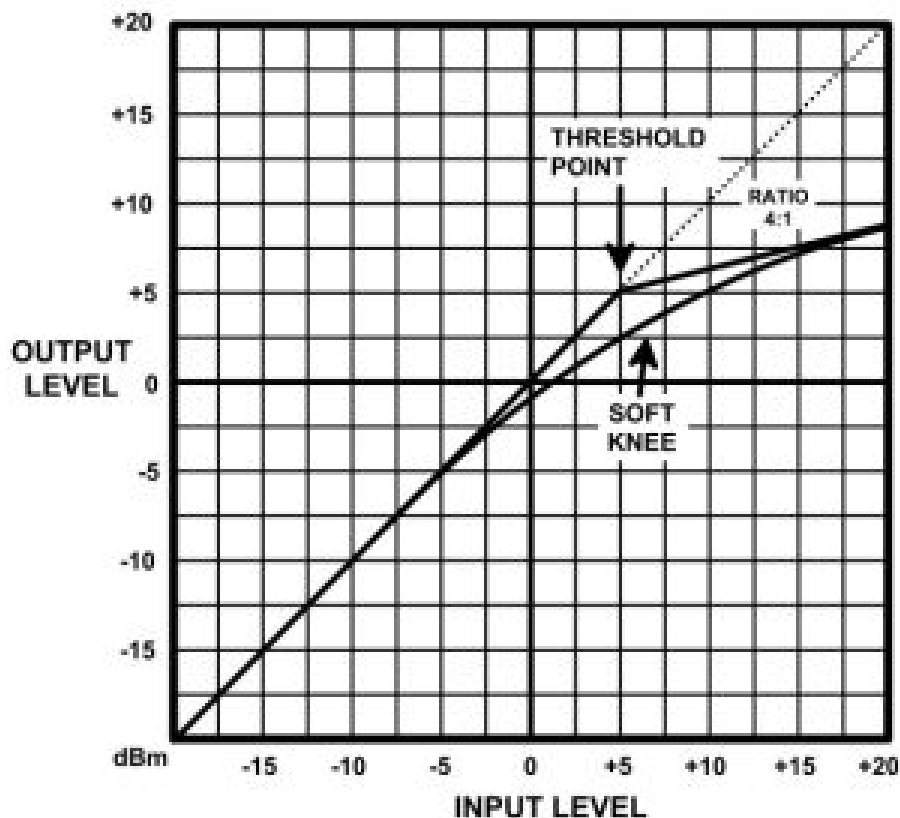
ABOVE LED LED will light when the input signal is above the set threshold level. Note that LED will light regardless of the state of the IN switch.

RATIO This control sets the compressor ratio, which is variable from 1:1 to 10:1.

SOFT / HARD KNEE When in the up 'Soft' setting, the compressor threshold knee is 'rounded' (see graph).

THRUST OUTPUT When the patented

THRUST circuit is engaged, a filter is placed in front of the RMS detector. The result is preserved punchy bottom end while still compressing the overall signal.



FRONT PANEL CONTROLS – continued



GAIN

This control adds a variable 0dB to +20dB of make-up gain to compensate for compressor loss.

VU METER

The custom backlit analog meter shows either output VU level or gain reduction in dB. Note that the meter will always show output and gain reduction for the compressor controls in the circuit.

OUTPUT | GAIN REDUCTION

This switch allows you to change each channel meter from output level to gain reduction. This switch is NOT linked as part of link mode, so you can monitor each channel how you would like.

IN! BYPASS

When in the activated position, the channel is affected by the compressor controls. The bypass is a hard relay bypass. If the unit loses power, it will default to this hard relay bypass. This switch is NOT linked as part of the link mode, so you can still switch in and out of each channel independently.

LINK In link mode, channel A controls for threshold, ratio, gain. *THRUST*, and knee control are both channels. The audio signal from both channels is combined in true RMS power summing to create the compression control signal. Then the resulting compression is applied to both channels evenly for proper balance.

REAR PANEL

product within the applicable warranty owing Proof 01 purchase may be required

e) For questions regarding the operation, interfacing, or service of your API product, please contact your API dealer from whom you purchased the unit. Many times, your authorized API dealer is the fastest and most cost-effective way to maintain and service your product.

f) The below steps are the best way to initiate the repair process or to submit a parts order request:

Repair procedure:

1. Fill out a Return Authorization(RA) form at service.apiaudio.com.
2. Wait to receive an e-mail from API Audio with an RAN
3. Use the API original box to package the units. Write the RAN large and legibly on the box (if the RAN is not clearly visible on the box, the unit may be rejected by our receiving department)
4. Make a copy of the RA form with the unit.
5. Ship the product freight prepaid to:
API SERVICE DEPARTMENT 8301 Patuxent Range Road Ste A1 Jessup. MD 20794

Parts Order procedure:

1. Fill out online PO form (for parts and parts numbers not listed online. E-mail our PO form with your name, email, contact phone and ship address and describe the part you need).
2. Submit online PO form.
3. API will e-mail you back with part numbers and procedure how to order/pay

g) This is your sole warranty. API does not authorize any third party, including any dealer or sales representative, to assume liability on behalf of API or to make any warranty for API.

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In a constant effort to improve the subtle details of our products, some amount of change is inevitable. API reserves the right to modify or change any of the features, specifications, or performance of its products without notice or obligation.

Documents / Resources



2 CHANNEL
COMPRESSOR
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SR22, Dual Channel Compressor, SR22 Dual Channel Compressor, Compressor