

SONY®

Compressor/Expander

SRP-L210

Graphic Equalizer

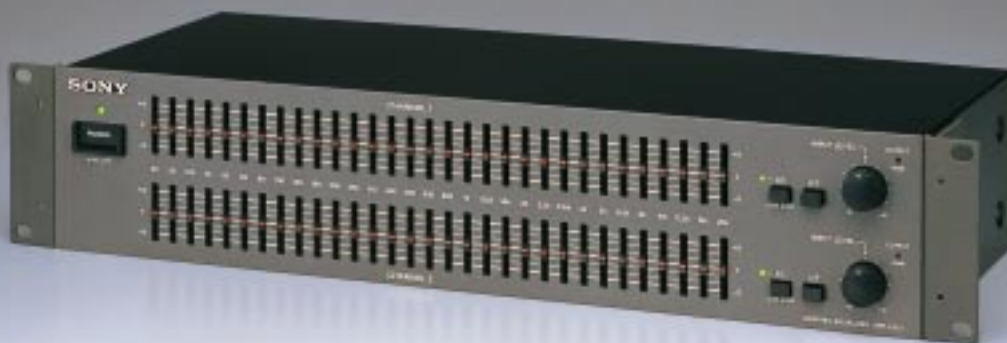
SRP-E210/E110



SRP-L210



SRP-E110



SRP-E210

Compressor/Expander

SRP-L210

The Sony SRP-L210 is an analog 2-channel dynamic processor implemented with advanced Sony audio technology.

It provides compressor/limiter, expander, and harmonics functions.

Both of the channels offer compressor/limiter, upward expander, gate (downward expander) and harmonics functions, each of which can be controlled independently. By setting the LINK switch on the front panel to ON, Channel 1 and 2 can be coupled as a stereo pair. In addition, the SRP-L210 offers a peak limiter function which prevents clipping during digital recording.

With the SRP-L210, you can create natural compression. Or harmonic sound in a wide range of applications from PA systems at live concerts to multitrack recording. In particular, when using the harmonics of the SRP-L210 for a guitar arpeggio or cutting, outstandingly realistic sound of effect can be achieved.

Front panel



Rear panel



Features

1. 2-channel compressor/expander

Use the switch to select either the compressor or upward expander function.

Because the compressor has a soft-knee characteristic, the basic sound character of the source signal is maintained. This means you can achieve natural sound even when you deeply compress the source signal. The amount of gain reduction is monitored via a 7-segment indicator for each channel.

The upward expander function includes controls for threshold, ratio, attack time and release time parameters.

By using the expander, you can expand the dynamic range when duplicating from an analog tape.

2. Harmonics function with high quality sound

Each channel has a harmonics function that can add the high frequency signals lost in the compression process.

Best results are achieved using the harmonics function when compressing a guitar, electric bass, vocal or drums.

3. External key input/output

By using the KEY IN/OUT for each channel, you can create various dynamics effects.

Not only can you create a ducking sound by using the unit alone, but you can also create a particular compression effect that strongly reacts to a specific frequency range by routing the audio signal via an external equalizer.

4. Stereo link function

You can couple Channel 1 and Channel 2 using the LINK switch on the front panel.

The control knobs for each channel remain independent even when the channels are linked, so you can, for example, easily achieve a ducking effect by adjusting the knobs for each channel to different settings.

5. Peak limiter function

A peak limiter switch is provided for each channel on the rear panel. The peak limiter activates at +10dB above the compressor threshold level.

This prevents fast attack time signals from passing through the compressor and subsequently being clipped when recorded on digital equipment such as a MD recorder.

6. Output level control

Each channel has an output level control for fine adjustment of the output levels after compression has altered the average level.

Graphic Equalizer

SRP-E210/E110

The Sony SRP-E210/E110 Graphic Equalizer is designed for use in a wide range of audio system in MI and PA applications. 31 bands of precise equalization are provided in this compact cabinet with high sound quality. SRP-E210/E110 is 2U and 1U sizes each.

SRP-E210 Front panel



Rear panel



SRP-E110 Front panel



Rear panel



Features

1. Equalizes in 31 bands between 20Hz and 20kHz.
2. Provides excellent sound quality with a low harmonic distortion (less than 0.02%) and a good S/N ratio of 100dB. Fixed Q (4.3) equalization provides smooth sonic transition between adjacent equalization bands.
3. Input Gain Trim (+10dB).
4. Output indicator
5. Low cut filter (35Hz) to protect speaker systems from low frequency signals.
6. Balanced input and output level selectable to -10dBu or +4dBu. Unbalanced input and output level -10dBu.
7. mountable in 19-inch EIA standard rack.

Specifications

SRP-L210

Input

	INPUT1	INPUT2	KEY INPUT
Type	XLR-3-31	Phone jack(Balanced)	Phone jack(Unbalanced)
Impedance	80 k Ω	80 k Ω	10 k Ω
Reference level	+4dBu	+4dBu	-3dBu
Max. level	+24dBu	+24dBu	+17dBu

Output

	OUTPUT1	OUTPUT2	KEY OUTPUT
Type	XLR-3-32	Phone jack(Balanced)	Phone jack(Unbalanced)
Impedance	240 k Ω	240 k Ω	120 k Ω
Reference level	+4dBu	+4dBu	-3dBu
Max. level	+24dBu	+24dBu	+17dBu
Load Impedance	More than 10k Ω	More than 10k Ω	

SRP-E210/E110

Equalizer : 31 bands, 1/3 octave step(20–20kHz)
Frequency response : 20–20kHz +0.2/–0.8dB(EQ flat, LCF off)
Total harmonic distortion : less than 0.02% (EQ flat, at 20–20kHz, reference input)
Dynamic range : More than 116dB

Input

	Balanced	Unbalanced
Type	XLR-3-31	Phone jack
Impedance	10 k Ω	10 k Ω
Reference	+4dBu/-10dBu	-10dBu
Max. level	+20dBu/+6dBu	+6dBu
Adjustable range	\pm 10dB (for the reference input)	

Output

	Balanced	Unbalanced
Type	XLR-3-32	Phone jack
Impedance	100 Ω	470 Ω
Reference level	+4dBu/-10dBu	-10dBu
Max. level	+20dBu/+6dBu	+6dBu
Load Impedance	More than 600 Ω	More than 10 Ω

Frequency response : 20–20kHz +0.5/–1dB
Total harmonic distortion : less than 0.05%
(Reference input level, 1 kHz)
S/N ratio : More than 98dB(Effect off)
More than 94dB(Effect off)
Cross talk : less than -100dB
Threshold : -40dBu – +20dBu
Ratio : 1:1 – ∞ :1
Attack time : 0.1 – 200msec
Release time : 50msec – 4sec
Output time : -20dB – +20dB
Gate threshold : - ∞ – 10dBu
Gain reduction meter : 1/2/3/5/10/20/30dB
Mass : 2.8kg (6 lb 3 oz)
Dimension : 482(W) x 44(H) x 175(D) mm
[19 x 1 3/4 x 7 inch]
Power requirements : AC230V, 120V 50/60Hz

Additional functions

Output indicator : Lights up at +10dB
(Against reference input)
Low cut filter : fc=35Hz, -12dB/oct

General

E210

Mass: 4.5kg(9 lb 15 oz)
Dimension : 482(W) x 88(H) x 175(D)mm
[19 x 3 1/2 x 7 inch]
Power consumption : 24W
Power requirements : AC230V, 120V 50/60Hz

E110

Mass: 3kg(6 lb 11 oz)
Dimension : 482(W) x 44(H) x 175(D)mm
[19 x 1 3/4 x 7 inch]
Power consumption : 10W
Power requirements : AC230V, 120V 50/60Hz

©1999 Sony Corporation. All rights reserved.
Reproduction in whole or in part without written permission is prohibited.
Features and specifications are subject to change without notice.
All non-metric mass and measures are approximate.
Sony is a registered trademark of Sony Corporation.
All other trademarks are property of their respective owners.

Distributed by