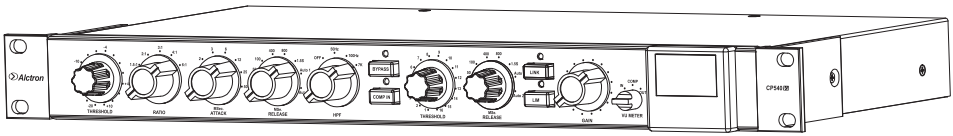
Alctron 爱克创



CP540V2 信号压缩与限制器
SIGNAL COMPRESSOR AND LIMITER

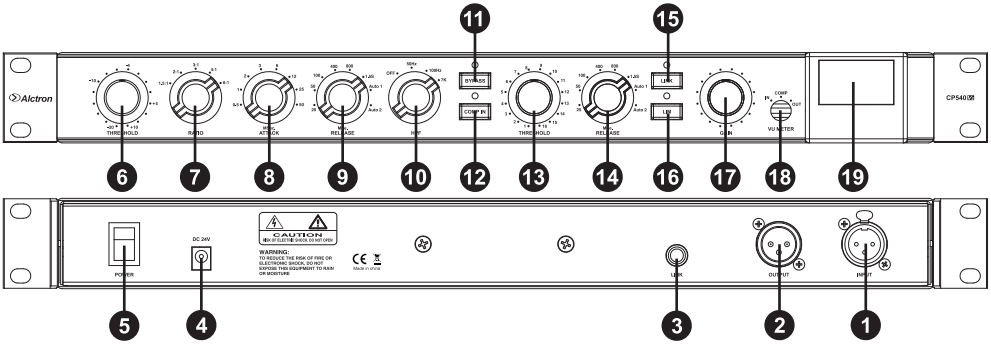
用户手册

Owner's Manual

GENERAL INTRODUCTION

CP540V2 is a one channel signal compressor and limiter. Both the compression and limiter electronics circuits are completely independent and can be used separately or together via the illuminated buttons that corresponds to each side. It is not only compression input signal but also limit the output level. When its output level reaches a specific number, its limited circuit will keep the same output level. Compression combines with limited function solve the distortion in a way. Its diversity knob in front panel enhances performance speed.

INTRODUCTION OF EACH BUTTON



1.INPUT: balanced 3-pin XLR input connector, connects to microphone amplifier or other devices with line output connector.

2.OUTPUT: balanced 3-pin XLR output connector, connects to console, audio interface or other devices with line input connector.

3.LINK: 6.35mm connector, via 6.35mm cable to connector LINK and another CP540V2's LINK connector to realize stereo output. This connector can only connect to another CP540V2.

4.DC24V: power supply connector, designed to connect the provided DC 24V power supply.

5.POWER: the power switch is used to power the unit on and off.

6.THRESHOLD: adjusts the knob when the signal begins its compression. It covers range from -20dB to +10dB. According to actual input level adjusts knob position and then revisits again once you are surer of the amount of compression.(com pressor)

7.RATIO: it selects the ratio between input and output levels for audio signals that have gone above the level set by the compression threshold. It has five selections from 1.5:1 to 1:6. (compressor)

8.ATTACK: this eight level knob switch control is used to adjust the attack time of the compressor, how fast it will react to a signal that exceeds the threshold level. It has eight selections, they are 0.5ms，1 ms，2 ms，3 ms，6 ms，12 ms，25 ms，50 ms.(compressor)

9.RELEASE: this control sets how fast the compression circuit returns the input signal to its original level. It has eight settings, the first four are the static setting from 25ms to 1.5s and the balanced two are automatic settings, Auto1 and Auto2 respectively. The static functions follow a fixed time release during compression. The automatic functions derive the attack and release time from the input signal's change where composite control is needed. (compressor)

10.HPF: high pass filter, it indicates let high frequency pas and cut some low frequency. When there has signal input from LINK, HPF controls LINK connector. It compresses signal only for high frequency. (compressor)

11.BYPASS: press this button, all knobs and buttons has no effect on device.

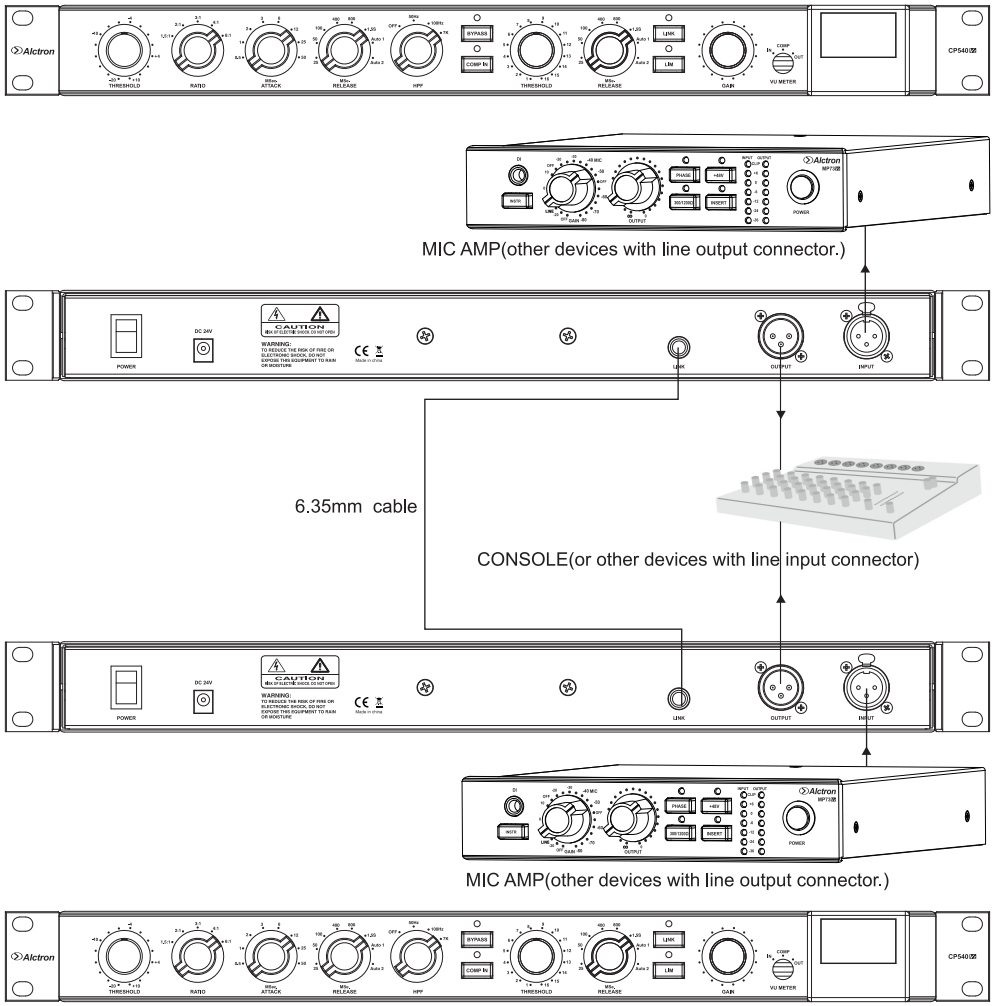
12.COMPIN: this button controls compressor circuit, you must press this button and all the compressor knobs have effect on device. Without press this button, it has no effect on device. (compressor)

13.THRESHOLD: adjusts the knob when the signal begins its compression. It has 16 selections from 1dB to 16dB. Limiter functions are considered with more care and refinement as the recording device would be more sensitivity to max levels to avoid sound distortion. Therefore, knowing where your recording or broadcasting device actually clips is a good information to know.(limiter)

14. RELEASE: this control sets how fast the compression circuit returns the input signal to its original level. It has eight settings, the first four are the static setting from 25ms to 1.5s and the balanced two are automatic settings, Auto1 and Auto2 respectively. The static functions follow a fixed time release during compression. The automatic functions derive the attack and release time from the input signal's change where composite control is needed.(limiter)
15. LINK: press this button, LINK connector in rear panel can have signal input then realize stereo compression.
16. LIM: this button controls limiter circuit. Only press this button, limiter has effect on device.(limiter)
17. GAIN: gain adjustable knob used to control the whole circuit output gain level.
18. VU METER: three level adjustable knob, when the knob position to IN position, its nearby VU meter displays input level; when the knob position to COMP position, its nearby VU meter displays compression level; when the knob position to OUT position, its nearby VU meter displays output level;
19. VU meter, according to VU METER position to display relative in, out or compression level.

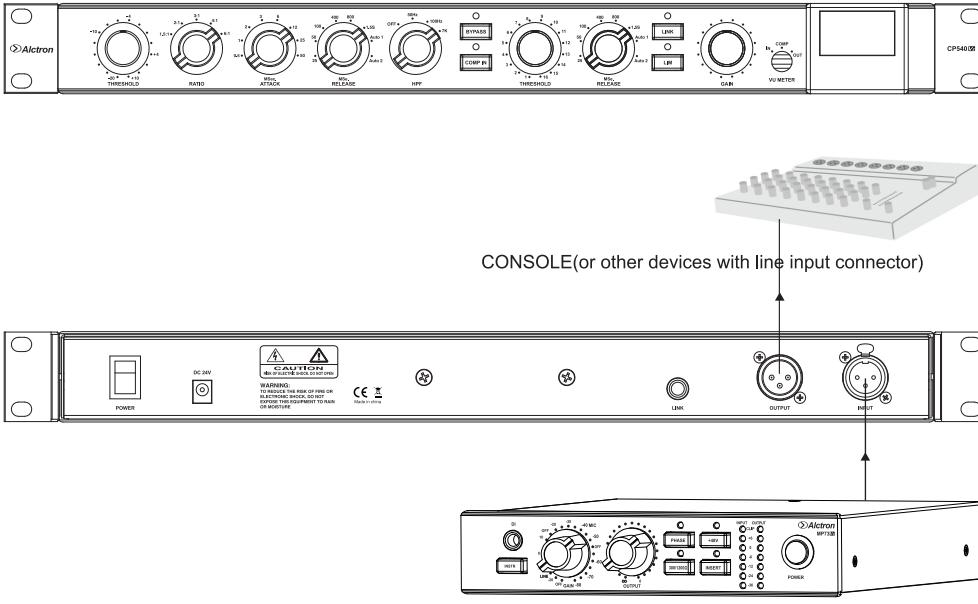
CONNECTION

Stereo connection



Press both LINK button on two CP540V2, via 6.35mm cable to connector LINK and another CP540V2's LINK connector to realize stereo output.

Mono connection



SPECIFICATIONS

- Frequency response: 20hz-20khz
- Noise: <-80dBu
- Max output level: 20dBu
- Distortion: <0.5%@1khz, +4dBu

Compressor

- Compressor threshold: -20dBu to +10dBu
- Ratio: 1.5:1 to 6:1 with 5 position switch
- Attack: 0.5ms to 50ms with 8 position switch
- Release: 25ms, 50 ms, 100 ms, 400 ms, 800 ms, 1.5s, auto1 and auto2

Limiter

- Limited threshold: 1dB to +16dB
- Release: 25ms, 50 ms, 100 ms, 400 ms, 800 ms, 1.5s, auto1 and auto2
- Input impedance: 50kohm balanced
- Output impedance: 200ohm balanced

SERVICE

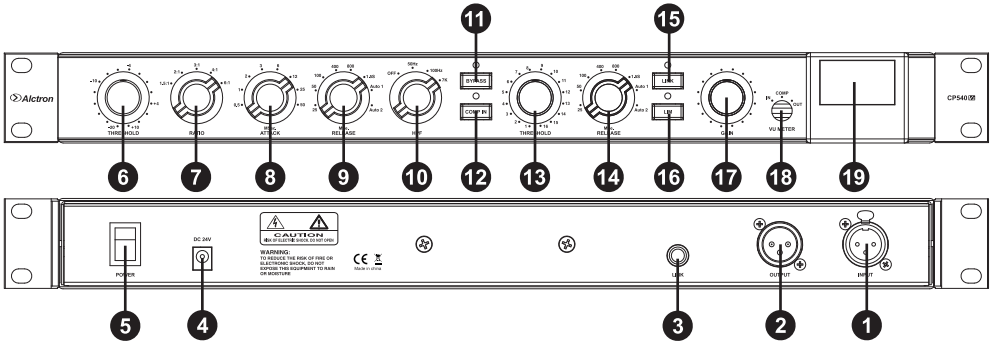
If your Product needs servicing, follow these instructions.

1. Ensure the problem is not related to operation error or external system devices.
2. Keep this owner's manual. We don't need it to repair the unit.
3. Pack the unit in its original packaging including end card and box. This is very important. If you have lost the packaging, please make sure you have packed the unit properly. ALCTRON is not responsible for any damage that occurs due to non-factory packing.
4. Ship to the ALCTRON tech support center or the local return authorization.

产品简介

CP540V2是一款单通道的信号压缩与限制器。压缩部分和限制部分的电子线路是完全分离的，通过调节相对应的开关按钮可以同时使用压缩与限制功能也可以分开使用这两个功能。在压缩输入信号的同时也能限制输出电平的大小，当输出电平达到一定数值的时候，能够保持输出电平恒定。压缩与限制功能的结合在一定程度上解决了声音的失真的问题。面板上多样化的功能性旋钮能够更好地帮助设备高速运行。

各个按钮的功能介绍



1. INPUT：平衡3针卡农输入接口，连接话筒放大器或者其他带有线性输出接口的设备。
2. OUTPUT：平衡3针卡农输出接口，连接调音台，声卡或者其他带有线性输入接口的设备。
3. LINK：6.35mm接口，当您有立体声需求的时候，用6.35mm线通过此接口来连接另外一台CP540V2的6.35mm LINK接口，可以实现立体声输出。此接口只能连接CP540V2。
4. DC24V：电源接口，提供DC 24V的电源。
5. POWER：电源开关，打开/关闭设备。
6. THRESHOLD：阈值，当您需要压缩信号的时候，调节这个旋钮既可。它的调节范围从-20dB到+10dB。根据您的实际输入电平大小，调整旋钮位置；如果您想要压缩更多的信号，可再次根据实际情况调整。（压缩部分）
7. RATIO：压缩比，RATIO与THRESHOLD是相配合工作的，用于设置压缩器开始工作时输入信号和输出信号的比值。五档调整范围，从轻柔的1.5:1到听感上已经带有限制器效果的6:1。（压缩部分）
8. ATTACK：启动时间，用于调整从输入电平达到门限值到压缩器的启动时间，把党八档可调，分别为0.5ms，1 ms，2 ms，3 ms，6 ms，12 ms，25 ms，50 ms。（压缩部分）
9. RELEASE：释放时间，用于调整输入电平信号到压缩线路的时间。八档可调，前面六档是固定值调整，从25ms到1.5s，剩下的两档是自动调整，Auto1和Auto2，两者是独立的。在压缩的时候，25ms到1.5s6个档位是按照固定时间来执行的，而Auto1和Auto2时间是根据ATTACK和RELEASE输入电平的变化时间执行的。（压缩部分）
10. HPF：高通滤波器，顾名思义能让高频通过的同时衰减一部分低频。当LINK接口有输入信号的时候，HPF控制LINK接口的高通滤波信号。 “只对高频进行压缩” （压缩部分）
11. BYPASS：按下这个按钮，面板上所有的开关旋钮不起作用。
12. COMPIN：此开关控制压缩线路部分，必须按下此开关，压缩线路部分的开关按钮才能起作用，反之不起作用。（压缩部分）
13. THRESHOLD：阈值，当您需要压缩信号的时候，调节这个旋钮既可。16档可调范围，调节范围从1dB到16dB。限压器部分的线路相比于压缩器要求会更加的严格一些，因为录音设备对最大电平更加的敏感，避免信号的失真。所以前期最好能提供准确的输入设备的峰值。（限制部分）
14. RELEASE：释放时间，用于调整输入电平信号到压缩线路的时间。八档可调，前面六档是固定值调整，从25ms到1.5s，剩下的两档是自动调整，Auto1和Auto2，两者是独立的。在压缩的时候，25ms到1.5s 6个档位是按照固定时间来执行的，而Auto1和Auto2时间是根据ATTACK和RELEASE输入电平的变化时间执行的。（限制部分）

15. LINK：按下此开关，后面板上的LINK接口能有输入信号，从而实现立体声压缩。

16. LIM：控制限制器部分，按下此开关，限制器部分的旋钮才能起作用。（限制部分）

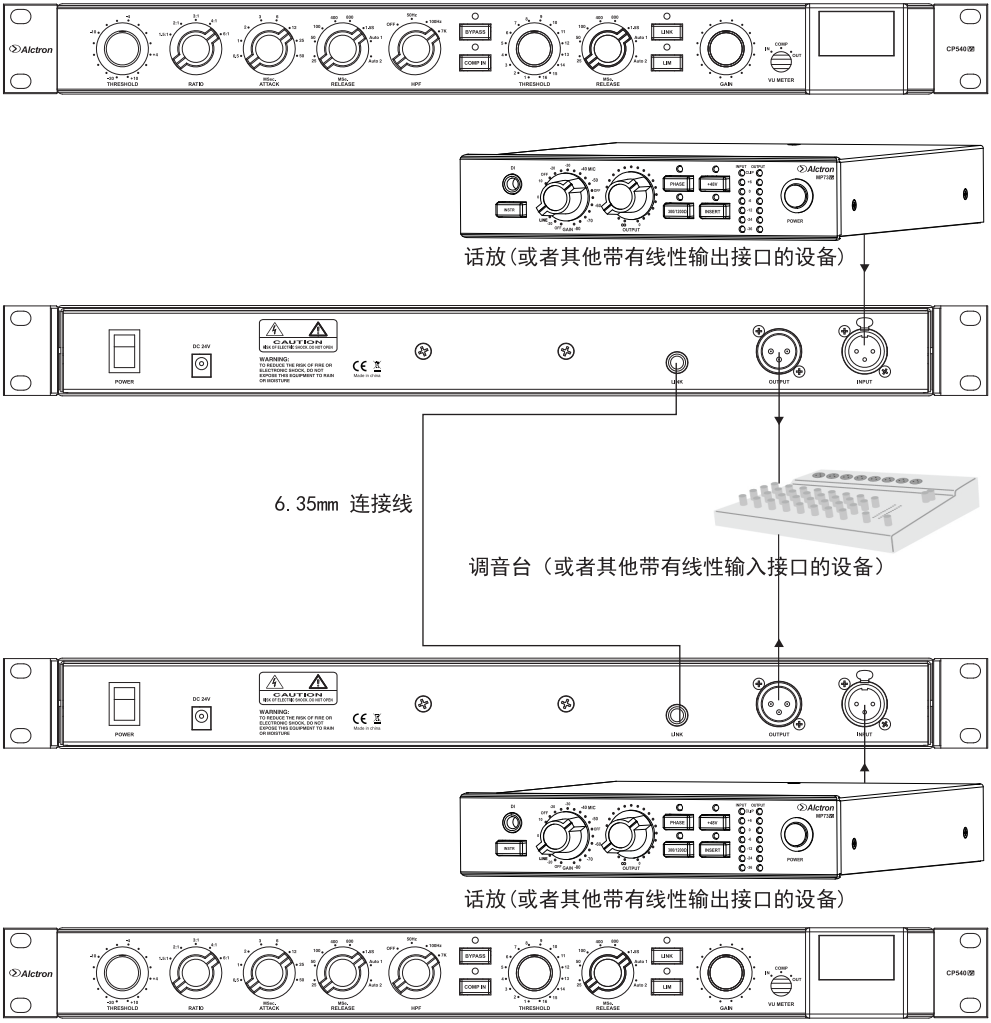
17. GAIN：增益调节开关，控制整个电子线路的输出增益大小。

18. VU METER：三档旋钮，当旋钮位于IN的位置时，旁边的VU标显示的是输入电平大小；当旋钮位于COMP的位置时，旁边的VU标显示的是压缩量；当旋钮位于OUT的位置时，旁边的VU标显示的是输出电平大小。

19. VU表,根据VU METER的位置，显示输入，输出或者压缩量。

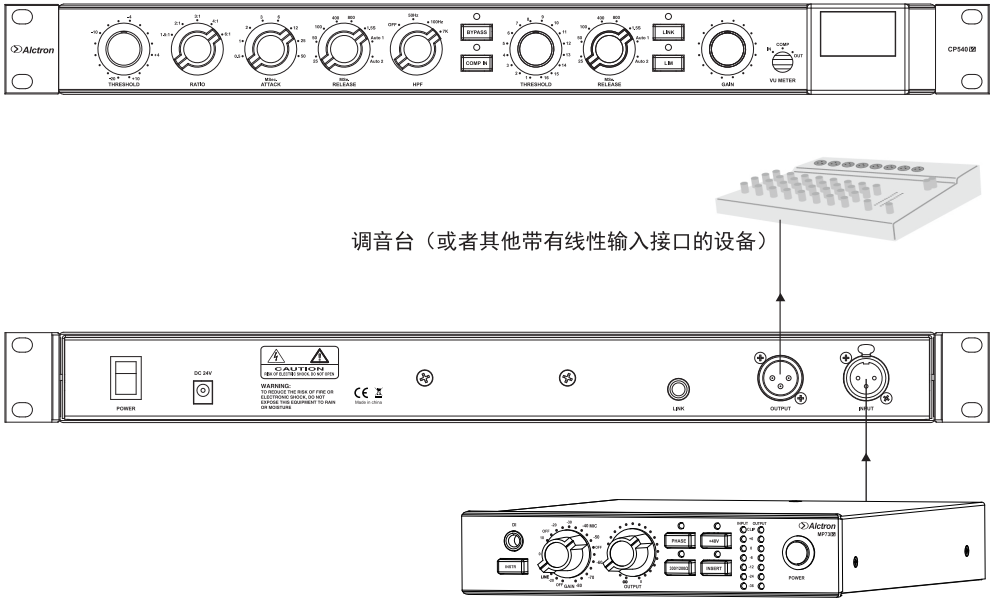
产品连接图

立体声连接



同时按下两台CP540V2上的LINK键，用6.35mm线通过此接口来连接另外一台CP540V2的6.35mm LINK接口，可以实现立体声输出。

单声道连接



参　数

* 频响：　　20hz-20khz
* 噪音：　　<-80dBu
* 最大输出电平：20dBu
* 失真度：　　<0.5%@1khz, +4dBu

压缩器
* Threshold:　-20dBu到+10dBu
* Ratio:　　1.5:1 到6:1　5档可调开关
* Attack:　　0.5ms到50ms　 8档可调开关
* Relaese:　　25ms, 50 ms, 100 ms, 400 ms, 800 ms, 1.5s, auto1和auto2

限制器
* Threshold:　1dB到 16dB
* Relaese:　　25ms, 50 ms, 100 ms, 400 ms, 800 ms, 1.5s, auto1 and auto2
* 输入阻抗：　50kohm 平衡
* 输出阻抗：　200ohm 平衡

保　修

如果您的产品需要维修，请按照以下说明操作:

1.请确保不是因为操作不当或外部设备所造成。

2. 请保存好我们的说明书，返修的时候不必把说明书寄回给我们。

3. 返修的时候请用产品原来的包装箱来包装，这是非常重要的。如果你已丢失原包装，请确保您正确包装和保护好本产品。爱克创是不负责由于非原厂包装造成任何损害。

4. 运送到爱克创技术支持中心或当地的授权经销商。

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