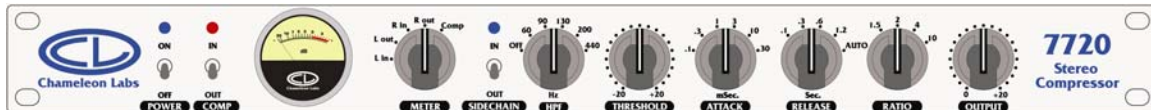


Chameleon Labs

Model 7720

Stereo Compressor Owner's Manual

704 228th Avenue NE, # 826
Sammamish, WA 98074
206-264-7602
www.chameleonlabs.com



Revision C - December, 2007

UNPACKING AND INSPECTION

Carefully unpack your 7720 stereo compressor. Do not discard any packing materials! If anything is missing or damaged, contact your dealer or Chameleon Labs immediately.

Items included with the 7720 are:

- 7720 stereo compressor
- AC power supply module – with removable IEC type plug
- Set of instructions

The 7720 is a stereo compressor of exceptional sonic clarity and rugged construction. When used in accordance with the guidelines in this manual it will give you many years of outstanding performance.

Connections

Connection with AC power module (included):

First, connect the AC power module to an electrical outlet using the IEC power cord (included). A professional power strip is recommended. Connect the AC power module to the power socket located on the rear panel of the compressor.

Connection with CPS-24* AC power supply (optional):

The optional CPS-24, dual, rack mounted power supply can also be used to power two units. Before connecting the CPS-24 supply check that the voltage range selector next to the IEC socket on the rear of the unit is correctly set.

Connection with CPS-1* DC power supply (optional):

The optional CPS-1, dual, rack mounted power supply can also be used to power two units. Before connecting the CPS-1 supply check that the voltage range selector next to the IEC socket on the rear of the unit is correctly set. *The input setting *must* be confirmed before applying power.

The compressor has two input XLRs (female) and two output XLRs (male) as well as a sidechain input XLR (female). These connectors are wired with pin 2 HOT, pin 3 common and pin 1 is ground (shield). Connect the inputs to the main output insert sends of your console or to your workstation outputs. Connect the outputs to the corresponding insert returns or to your workstation inputs.

Mounting

The Model 7720 compressor is designed to be rack mounted. It is 1 RU (1.75 inches) high. Its depth is 10.75 inches, 14 inches including connectors. The unit does not require rack shelves, and it does not require additional space above or below for ventilation.

Front Panel Controls and Indicators

Power:

This switch turns power on and off. Power on is indicated by a blue LED.

Comp:

This switch allows the user to hear the processed signal or the unprocessed signal with the flip of a switch. When the switch is in the upper position the red LED is illuminated, indicating that the unit is in the circuit.

Meter:

The illuminated meter displays either channels gain or the stereo audio signal compression in dB.

Meter switch:

The meter switch allows the meter to indicate either channels input level, either channels output level or the amount of stereo audio signal compression.

Sidechain:

This section modifies the control of the compressor with a mono audio signal introduced through the sidechain XLR input. To use the sidechain circuit, the sidechain switch is put into the upper position. This will illuminate the blue LED giving the user a visual indication that the circuit is active and that the sidechain audio is in control of the compressor, not the left and right audio inputs.

HPF:

The high pass filter (HPF) rotary control allows the sidechain *or* main audio signal to be equalized to minimize lower frequency audio signals' effect on the compression character of the unit. The HPF affects the detection circuit, not the actual audio. The selector has six settings. The first setting does not introduce any filtration into the sidechain circuit. The next five settings are 60 Hz, 90 Hz, 130 Hz, 200 Hz and 440 Hz. These selections allow a wide variety of choices. The high pass filter is designed so that the frequency selected is 3 dB down, with a roll-off of 12 dB per octave.

Threshold:

This rotary pot control is used to adjust the audio level point at which the compressor begins working. The range is from -20 dB to +20 dB.

Attack:

This six position, switched control is used to adjust the attack time of the compressor, or how fast it will react to a signal that exceeds the threshold level. The six settings are 0.1 milliseconds, 0.3 millisecond, 1 millisecond, 3 milliseconds, 10 milliseconds and 30 milliseconds.

Release:

This five position, switched control is used to adjust the release time of the compressor, or how fast it will release a signal that has been processed by the compressor. The five settings are 0.1 second, 0.3 second, 0.6 second, 1.2 seconds and an auto selection that uses internal circuitry to adjust the release time based upon the audio signal.

Ratio:

This four position, switched control is used to adjust the ratio of the dynamic content of the original signal to the compressed signal. For example if the original signal had a peak level of 4 dB and the ratio control was selected to 4:1, the output signal would still maintain the dynamic change as in the original audio signal, but it would only have a peak level increase of 1 dB. The ratio settings are 1.5:1, 2:1, 4:1 and 10:1.

Output:

This rotary pot control is used to adjust the audio level at the output of the compressor. It has up to 20 dB gain, which can be used to raise the level of the compressed audio signal back to nominal levels.

Non Stereo Application

In order to use the Model 7720 as mono compressor, you need only use the left channel inputs and outputs. All functions are as normal.

Maintenance

A spare fuse is included with your optional CPS-24 power supply. It is located in the fuse carrier just above the AC receptacle. To access the fuse, gently pry out the carrier with a flat bladed screwdriver. The fuse is mounted in the clip and the spare is located in a small channel behind the cover. Replace the fuse with the same type as supplied with your stereo compressor.

There are no user serviceable parts inside the 7720 stereo compressor. Contact a qualified maintenance professional if a problem occurs. This product carries a one-year warranty.

TECHNICAL SPECIFICATIONS

Input impedance: 50K Ohms (Balanced)

Output impedance: 200 Ohms (Balanced)

Sensitivity: 20 dBu maximum at 1 KHz

Noise: Less than -80 dBu

Total Harmonic Distortion: <0.5% at 1 KHz, +4dBu

Maximum Output Level: 20 dBu

Frequency Response: 20 Hz – 20 KHz +/- 0.5 dB.

Net Weight: 6.6 pounds

WARRANTY AND LIABILITY

Your Chameleon Labs product is warranted to the original owner for a period of one year. Chameleon Labs guarantees this product to be free from electrical and mechanical defects and will repair or replace defective components, or replace the stereo compressor at Chameleon Lab's option. Should service be required for your Chameleon Labs product, please contact the manufacturer. Service is provided for products beyond the warranty period. Seller warrants that the goods are described in this agreement, but no other express warranty is made in respect to the goods. The entire risk as to the quality and performance of the good is with the buyer. Seller disclaims all warranties either expressed or implied, including any implied warranty of merchantability or fitness for a particular purpose, and seller neither assumes nor authorizes any other person to assume for it any liability in connection with the sale of said goods.

MODEL NUMBER **7720 Stereo Compressor**

SERIAL NUMBER _____

DATE OF PURCHASE _____

PURCHASED FROM _____

Please visit www.Chameleonlabs.com for the latest updates and technical information.