

~Sebatron~

Made in Australia

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SMAC - Stereo Musical Audio Compressor



SMAC is a Stereo Musical Audio Compressor (or two channel mono) that uses optical gain reduction cells (two per channel or dual-servo) to perform quality transparent audio compression, peak limiting, and automatic audio leveling control. Due to the dual-servo optical based design, the dynamic behavioural characteristics of SMAC lie somewhere between the classic Optical type compressors and the later VCA type compressors. Depth, image, and sonics are all preserved while the dynamics and transients of the signal can be contoured and manipulated to suit any tracking, mixing, and/or mastering requirements.

Compression can be fine tuned to be anything from 'smooth and subtle' to 'drastic and squashed'. SMAC has the ability to quickly and flawlessly handle any compression application. Processing activity and amount are totally variable and the Class A make-up gain stage is transparent providing ample gain to offset heavy amounts of level reduction. This gives SMAC a multitude of creative possibilities.

Compression ratio amount can be completely adjusted right up to infinity with greater than infinity ratios attainable through a unique switch setting called 'pump'.

Extensive compression envelope flexibility is also provided via the standard variable attack and release dials, as well as an incorporated envelope time factor control toggle switch called, 'norm/tight/swim'. Each of these innovative settings has a whole range of applications, from dealing with fast transients (such as drums or percussion), to dealing with slower signals (such as vocals or bass).

To facilitate stereo mix processing, two modes of stereo channel linking are provided: 'dual-mono with channel one master' and 'stereo link'. These two modes are ideal for any stereo mix buss or sub-group compression requirements where stereo spatial width needs to be harnessed and maintained. With the 'Channel 1 master' setting the two channels are driven by one set of dials thus eliminating any excessive time in setting up the two channels to operate accurately matched for Stereo.

SMAC also features two large analog VU style meters which can be individually used to monitor output level or accurately display any gain reduction that is taking place during compression.

Utilizing solid state topology, the SMAC audio path is completely Class A and discrete. For maximum headroom, all active components run on a +60V rail. This gives SMAC a wide open sound that is tight and accurate from deep bottom end to steller highs. Like all Sebatron products currently available, there are no integrated circuits (or chips) in the design.

Whether operating in high end professional recording studios, home recording setups, or live music venues and productions, SMAC is designed to be the perfect quality stereo compressor.