

JOEMEER Distribution

New product release schedule 1999

JOEMEER

COMPRESSION

March 1999 - Stereo Compressor 'C2'

\$399.99

The STEREO COMPRESSOR that's instantly on everybody's 'must have' list!

Ted Fletcher says:

"I set out to design a stereo compressor that is easy to use, but will give the sort of results that have made the name famous; all Joemeek equipment is fully balanced nowadays, so that was a must. The newly developed Joemeek Sum and Difference compression system is such an advance on the conventional L/R stereo compressor that I decided to incorporate it into the C2 from the word go, the stereo image stability and the accuracy of the left and right gains is a very real improvement over all other types of stereo compressor. While I was experimenting with the way the bigger Joemeek compressors work with different compression ratios, I developed a new design idea which makes the compression ratio vary with just the input gain control. The results are so good that you can get full control and the widest range of compression effects without a separate ratio control; even as far as making it into a limiter! In common with all the other Joemeek compressors, the compression varies with frequency and tonal content; it's got the Joemeek sound.



The VC3 mounting all-metal case is based on tried and tested design. Already with its smart new metering and outstanding performance, the C2 looks like becoming not only a design milestone, but also the compressor that everybody has to have!"

The Joemeek C2 is a new idea in professional outboard equipment: It's the very latest and best in design and manufacture, and can be produced at less than professional prices because of the enormous pre-production demand.

- 1) ttt - transparent to transients. The classic Joemeek sound, impossible to replicate in a plug-in.
- 2) MS Sum and difference system; perfect stereo imaging and balance.
- 3) LO-COST - a true Joemeek stereo compressor at a fraction of the cost.
- 4) NEW Auto-Variable slope optical compression/limiting; easier to use.
- 5) Accurate compression and input level metering at the same time as gain reduction.

TECHNICAL SPECIFICATION

INPUTS : Standard jack precision balanced 40Kohm load impedance. max input +28dB

OUTPUTS : Standard jack precision balanced 60 ohm source impedance. max output +28dB

SYSTEM GAIN : 26dB maximum. variable stereo input and output.

SYSTEM NOISE : -90dB. signal to noise ratio; 118dB

SYSTEM LINEARITY : flat (-1dB) 8Hz to 30KHz. harmonic distortion better than 0.01% except under compression at low frequency.

COMPRESSION : Photo-resistor compression with shaped compression ratio starting at 1.8:1 and varying to 10:1 (limit) Compression acting within 'sum and difference' mode eliminating image shift. Attack time variable from 1mS up to 20mS. Release time variable 250mS to 5Secs.

METERING : Compression metering 5 LEDs. Main signal metering 9 LEDs.

COMPRESSION BY-PASS : switch introduces audio path gain adjustment and instant muting of the compression sidechain so that true comparisons can be monitored.

SYSTEM DESCRIPTION.

Stereo audio balanced signals are received by the dual 'superb' input stages which provide ideal input conditions and minimise common mode interference.

The input gain stages form a matrix which produces a 'sum and difference' pair of signals (MS stands for 'middle and side'; the 'sum' signal carries the main or 'middle' information while the 'difference' signal is the 'side' or stereo positioning information) which are then compressed separately, but using the same sidechain. Compression metering is driven directly from this sidechain giving a reading of dB compression. Audio level metering is driven direct from the 'sum' signal after compression giving an accurate state of the total stereo level within the system in dBs.

The compression attack time is continuously variable, as is the release time. Both the attack and release characteristics are non-linear and follow established curves which give the Joemeek compressor a unique sound.

Compression by-pass is done by disabling both the sidechain and the optical cells, while at the same time reducing the system gain to compensate for compression. This gives a similar effect to a true 'hard wire' by-pass; but with the advantage of keeping any gain make-ups. After compression the Sum and difference signals are reconverted back into conventional left and right with a second matrix which incorporates the output gain control. After the output gain stage, the left/right signals are fed to a pair of symmetrical balanced output stages which give optimum drive conditions to balanced lines. The use of the 'sum and difference' compression method eliminates any error in left/right level during compression as well as correcting for any electrical gain error in either the input or the output gain controls.

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