Compression and Expansion Made Simple

C300

DUAL STEREO GATE | COMPRESSOR

C300 is an easy to use dual engine dynamics processor that gives you superior compression/limiting and gate/expansion. It features flexible control of the signal path, 16 gate/expander and 16 compressor/limiter audio-optimized presets with intelligent TC multi-band and full-band technology, innovative new style compression, state-of-the-art TC quality, and an extremely intuitive and straightforward user interface.

Optimized presets

The C300 gives you source-based presets that are tailor-made for various types of sources. Depending on the preset you select you have access to intelligent TC full-band- or multi-band technology.

New style compression - an innovative approach to compression

Based on the thoughts behind parallel compression you get a completely new approach to working with compression. Now you can take a compressed signal and mix it with a dry signal and enhance all details in the music, just by turning the mix knob.

Flexible control of the signal path

The C300 comes with a flexible routing feature that gives you all combinations of parallel and serial link modes. Stereo serial mode allows you to process a composite signal on both engines simultaneously, virtually giving you an extra device.

The sound of TC

The C300 gives you highly advanced TC algorithms that will process your sound with extreme precision, ultimate audio quality and outstanding performance. State-of-the-art audio converters are built in, ensuring your passage from analog to digital and back, is in the very best quality.

Simple, intuitive and straightforward

The entire user interface has been laid out to be simple, intuitive and straightforward. All non-essential knobs and tweaking possibilities have been cut away, and replaced with innovative combinations and expansions of parameter indicators and knobs.

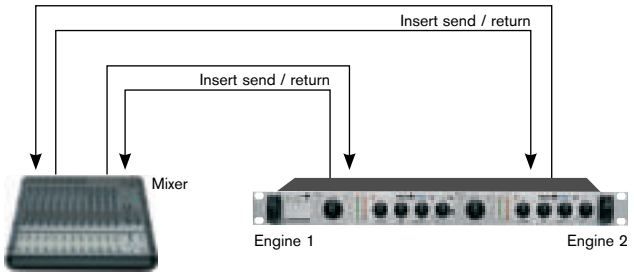
t.c. electronic®
ULTIMATE SOUND MACHINES

Main features

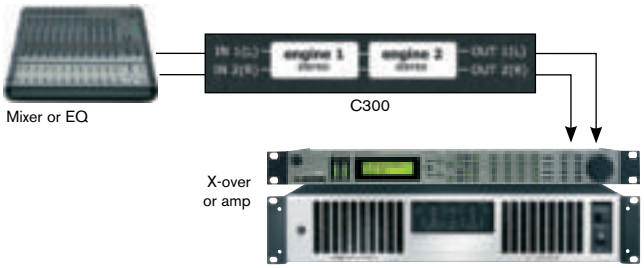
Dual engine compressor/limiter gate/expander ▸ 16 compressor/limiter presets and 16 gate/expander presets optimized for selectable audio sources ▸ Intelligent TC multi-band and full-band technology ▸ Detail enhancement via new style compression ▸ Flexible routing gives you all standard combinations of link modes + a stereo serial mode that virtually gives you an extra device ▸ No nonsense user interface ▸ Comprehensive metering ▸ Optimized key filters in gate mode ▸ High quality knobs

Setup Examples

Insert Applications



Flexible Routing



C300

DUAL STEREO GATE | COMPRESSOR

Routing modes

INPUTS
1/4" phone jack
bal. / unbal.

OUTPUTS
1/4" phone jack
bal. / unbal.

Digital I/O
S/PDIF
RCA phono

MIDI I/O

Power input. The internal switchmode power supply accepts from 100 to 240 VAC

Technical specifications:

Digital Input and Output		Environment	
Connector:	RCA Phono (S/PDIF)	Operating Temperature:	32° F to 122° F (0° C to 50° C)
Formats:	S/PDIF (24 bit), EIAJ CP-340, IEC 958	Storage Temperature:	-22° F to 167° F (-30° C to 70° C)
Sample Rates:	48 kHz. (44.1 kHz only @ Digital Input)	Humidity:	Max. 90 % non-condensing
Processing Delay:	0.08 ms @ 48 kHz	Control Interface	
Frequency Response DIO:	DC to 23.9 kHz ± 0.01 dB @ 48 kHz	MIDI:	In/Out: 5 Pin DIN
Analog Inputs		General	
Connectors:	1/4" phone jack balanced/unbalanced.	Finish:	Anodized aluminum front.
Impedance, Bal / Unbal:	20 kOhm / 11 kOhm		Plated and coated steel chassis
Max. Input Level @ 0 dBFS:	+21 dBu	Meter:	2 x 6 LED's in each channel
A to D Conversion:	24 bit, 128 x oversampling bitstream	Dimensions:	19" x 1.75" x 4.2"
A to D Delay:	0.9 ms @ 48 kHz		(483 x 44 x 105.6 mm)
Dynamic Range:	Typ < -110 dB, 22 Hz to 22 kHz	Weight:	3.3 lb. (1.5 kg)
THD:	Typ < -102 dB (0.0008 %) @ 1 kHz, -1 dBFS	Mains Voltage:	100 to 240 VAC, 50 to 60 Hz
Frequency Response:	+0/-0.1 dB, 20 Hz to 20 kHz		(auto-select)
Crosstalk:	Typ < -115 dB, 20 Hz to 20 kHz	Power Consumption:	<15 W
Analog Outputs		Warranty parts and Labor:	1 year
Connectors:	1/4" phone jack bal. / unbal.		
	Ground sensing design.		
Impedance :	35 Ohm		
Max. Output Level:	+21 dBu		
D to A Conversion:	24 bit, 128 x oversampling bitstream		
D to A Delay:	0.58 ms @ 48 kHz		
Dynamic Range:	typ < -110 dB typ, 22 Hz to 22 kHz		
THD:	typ < -94 dB (0.002 %) @ 1 kHz, +21 dBu		
Frequency Response:	+0/-0.1 dB, 20 Hz to 20 kHz		
Crosstalk:	typ < -100 dB, 20 Hz to 20 kHz		

Note: Due to continuous development and standardization all specifications are subject to change without notice

April / 06 Prod. No: 6130900011

t.c. electronic
ULTIMATE SOUND MACHINES

TC ELECTRONIC A/S DENMARK ▸ ✆+45 8742 7000 ▸ [FAX] +45 8742 7010
TC ELECTRONIC INC USA ▸ ✆(818) 665 4900 ▸ [FAX] (818) 665 4901 ▸ INFO@TCELECTRONIC.COM
WWW.TCELECTRONIC.COM