Innovative Audio Products
<<< designed for users >>>

WARRANTY VOID IF UNIT IS OPENED
AudioTouch warrants this unit to be free of defects in construction for a period of two years from receipt by the original end user. This warranty shall not apply to damage resulting from misuse.
Do not try to repair this unit. There are no user serviceable components inside. Only technicians agreed by AudioTouch are authorized to repair this unit.

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c-buss / Advanced Stereo Compressor

USER MANUAL

INTRODUCTION:
You do not want to choose between the flexibility of the digital world and the warmth, definition and dynamic of analog technology: the AudioTouch concept allows you to have the best of both worlds.
AudioTouch offers a digitally controlled true analog audio device with an innovative design and a very high-level handcrafted construction.
With incredible setting combinations, the possibility to save settings in several memories and the control by 'plugin', the c-buss is the first of a new generation of audio gear.
The c-buss unit is intended for use in stereo/buss compression treatment: drums, brass… etc

MAIN FEATURES:
- Optimal audio path with carefully selected components for the best sound quality
- Balanced transformer-like IN & OUT circuits with very high CMRR
- Vintage Mode with Feedback Mode compression and audio transformers
- Exclusive setting: 'Isosonic' Dyness based on human hearing perception ("equal-loudness contours")
- Mix setting wet/dry
- Hard Bypass (bypass when power off)
- External Balanced L/R Sidechain Inputs
- Extended functions: 'Auto' mode on release and 'Limit' mode on Ratio
- 21 user memories
- Fully controllable with a plugin software integrated in a sequencer (DAW)

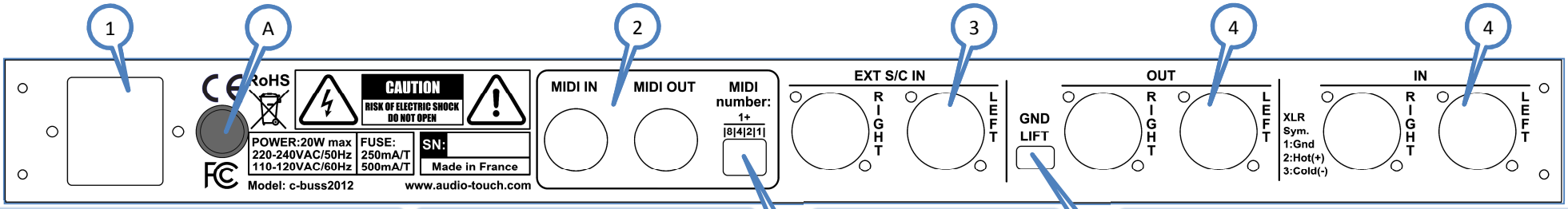
SAFETY INSTRUCTIONS:
POWER SOURCES: The c-buss should only be connected to a power supply of the type indicated on the rear panel. Before connecting the unit, check the Mains Voltage selected and verify if it is correct for your country.
The Mains Voltage of unit is either 110-120V or 220-240V and can be configured with the selector on rear panel (only when the power is off).

FUSE: Before applying power to the unit, make sure the appropriate fuse is installed. Slow-blow type, 500mA for 110V operation and 250mA for 220V operation. If necessary, test and replace the fuse with the same type and rating.

GROUNDING: This unit must be earthed ! It is provided with a 3-prong safety power cable. The grounding pin is connected to the metal parts of the housing and should not be disconnected for any reason.

SERVICING: There is no maintenance required by the user. All servicing should be referred to qualified service personnel.

CAUTION: Never remove the cover. There are no user serviceable parts inside.



1. POWER ON

Main Voltage setting should be selected at 115 or 230V/AC with selector (A). If correct for your country, you can connect the power cord included and push on the power switch in Front panel.

2. MIDI CONNECTIONS

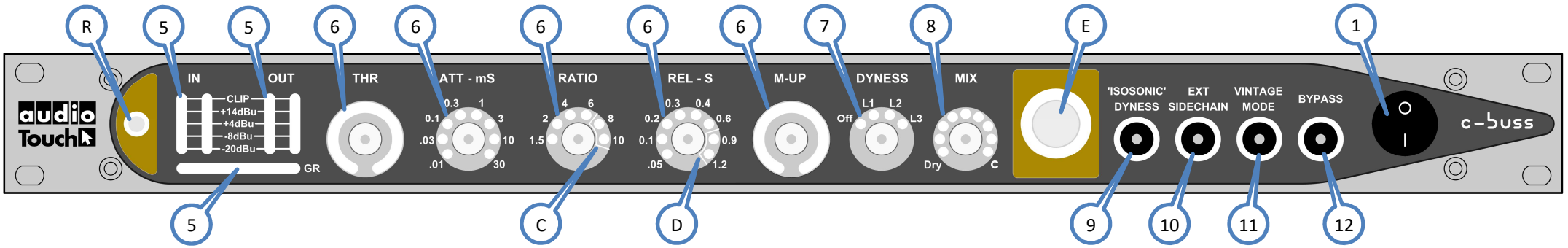
For plugin Remote, standard MIDI cables can be used in order to chain several devices, each with an unique 'MIDI number' (B).

3. SIDECHAIN CONNECTIONS

XLR electronically balanced Inputs are active only if EXT SIDECHAIN (10) is engaged.

4. AUDIO CONNECTIONS

XLR Inputs and Outputs are electronically balanced with differential signal between pins 2 & 3. Pin 1 is normally connected to Ground except for Outputs if GND LIFT (G) is engaged.



USER INTERFACE (AN@TOUCH) ©

The 'Patent pending' intuitive user interface an@touch allows explicit display of all parameters and their modification, storage and recall.
It consists of a rotary luminous encoder (E) used to changing the parameters for each function selected by associated key (6 to 8).

5. METERS

In order to check signal integrity, each L/R Input/Output has his own VU-meter. The GR meter shows the amount of gain reduction in 2dB steps, up to 20 dB.

6. Classic Compressor CONTROLS

THR [Threshold]: This sets the level above which signals will be compressed.
ATT [Attack]: allows to adjust the time it takes the compressor to react to the input signal.
RATIO: Sets the compression slope, how the output signal will change in relation to the input signal when above the threshold.
Special Mode 'limit' (C) provides a limiter effect.
REL [Release]: allows adjustment of the compressor's unity gain return time after going into compression.
Mode 'auto' (D) is a special setting 'program-dependent' for release time.
M-UP [Make-up gain]: output gain adjustment after processing.

Special modes are activated by pressing and holding Encoder (E).

7. DYNESS SETTING (INTERNAL SIDECHAIN)

The Low Shelving Filter avoids triggering the sidechain with low frequencies. With the 'ISOSONIC' DYNESS function engaged (9), the mid-freq pre-emphasis allows to soften some aggressive sounds. In the 2 cases, there are 3 levels of adjustment possible: L1, L2 and L3.

PLUGIN REMOTE

C-buss is fully controllable with a software (plugin) integrated in a host sequencer. When the device is synchronized with the software, the REMOTE (R) indicator turns blue. It is red if there's a problem.

8. MIX SETTING

Allows a true mix between compressed signal and dry signal. When Input level and compressed Output level are the same, Outputs are constant-level regardless the MIX setting.

INTERNAL MEMORIES

There are 21 memories available to the user. Pushing and holding Encoder (E) provides access to memory functions. Memories are represented by function keys (6-8) in 3 'banks' represented by the illuminated keys 9-11. Then press a flashing button to recall the associated memory. To write to a memory, select the desired location with (E) and then push and hold (E).

9. 'ISOSONIC' DYNESS

Based on the 'isosonic' human hearing perception, the accentuation of mediums on the detection circuit (sidechain) enables new possibilities.

10. EXT SIDECHAIN

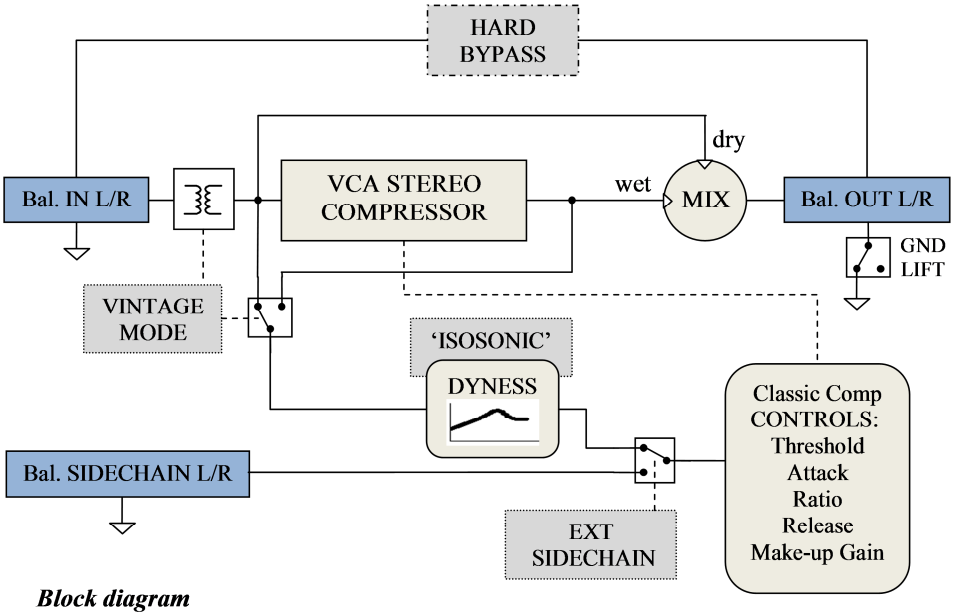
Allows XLR external connections (3) for Stereo sidechain detection. If only one channel is connected, operation is Mono.

11. VINTAGE MODE

It is a special mode with 'old' Feedback type compression, and transformers added in the audio path instead of capacitors.

12. HARD BYPASS

True Bypass means that Output XLRs are directly connected to the Input XLRs. When the unit is off, Bypass is active.

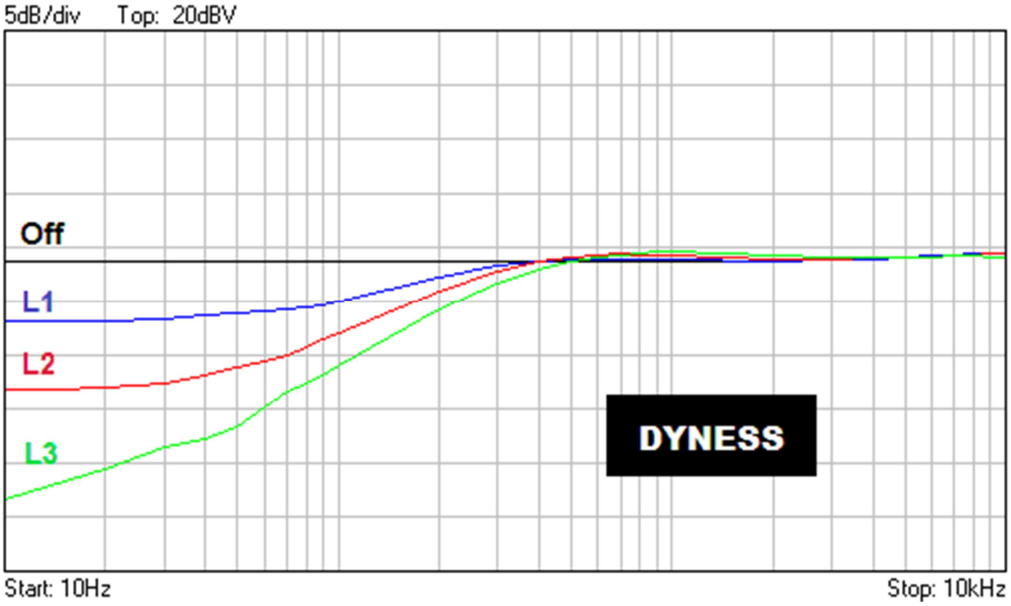


Block diagram

TECHNICAL SPECIFICATIONS

- Jensen/That Balanced IN & OUT
- High CMRR Input: > 85 dB
- Freq. response(-3dB): 10Hz - 90kHz
- Max. Input Level: + 21 dBu
- Max. Output Level: + 21dBu / 600Ω
- Power consumption: max 20 Watts
- Dimensions: 19”-1U- 220mm depth

DYNESS GRAPH:



‘ISOSONIC’ DYNESS GRAPH: