

1. INPUT LEVEL CONTROL [±20dB, 1dB steps]

Adjusts the input level of the module and internal saturation circuits. Set around OdB for nominal settings or push higher for more harmonic saturation.

2. HI LEVEL CONTROL [±10dB, 0.5dB steps]

Adjusts up to 10dB of boost/cut for the high shelf filter at the frequency set using the HI FREQUENCY CONTROL [7]. This control progressively increases the amount of harmonic saturation added to the signal above the selected frequency in boost and cut positions.

3. MID LEVEL CONTROL [±10dB, 0.5dB steps]

Adjusts up to 10dB of boost/cut for the mid peaking filter at the frequency set using the MID FREQUENCY CONTROL [9]. This control progressively increases the amount of harmonic saturation added to the signal within the selected frequency in boost and cut positions.

4. LO LEVEL CONTROL [±10dB, 0.5dB steps]

Adjusts up to 10dB of boost/cut for the low shelf filter at the frequency set using the lo FREQUENCY CONTROL [10]. This control progressively increases the amount of harmonic saturation added to the signal above the selected frequency in boost and cut positions.

5. OUTPUT LEVEL CONTROL [±20dB, 1dB steps]

$\mathsf{C}\mathsf{\Lambda}\mathsf{R}\mathsf{N}\mathsf{\Lambda}\mathsf{B}\mathsf{Y}$ SIG () HI · MID -OUTPUT

6. SIGNAL INDICATOR [RGB LED]

Displays the output level of the module post **OUTPUT LEVEL CONTROL** [5]. LED lights GREEN from -12dBu and RED [CLIP] at +24dBu.

7. HI FREQUENCY CONTROL* [5kHz - 25kHz]

Adjusts the corner frequency of the high frequency shelf filter and sets the start frequency where the harmonic saturation is filtered into the dry signal.

8. BAND SATURATION INDICATOR [RGB LED]

Indicates how hard the saturation stages are being driven and how much harmonic saturation is being added to the dry signal for each Harmonic EQ™ band. LEDs start illuminating at ~3% THD measured at the output.

9. MID FREQUENCY CONTROL* [200Hz - 6.2kHz]

Adjusts the mid-point frequency of the mid peaking filter and sets the start frequency where the harmonic saturation is filtered into the dry signal.

10. LO FREQUENCY CONTROL* [20Hz - 420Hz]

Adjusts the corner frequency of the low frequency shelf filter and sets the start frequency where the harmonic saturation is filtered into the dry signal.

11. OPTOSYNC SWITCH [**△** OFF - ∠ ON]

Switches OPTOSYNC On or Off. When the switch is ON, the module slaves it's hardware controls to the module to it's left. When ON, the IN LED changes to VIOLET to identify the module is syncing and pulses when controls are adjusted on the master module.

12. IN SWITCH [**△** OFF - ∠ ON]

Switches the module in and out of the entire circuit. LED will illuminate BLUE when the unit is switched IN. LED will illuminate VIOLET when module is IN and slaved via OPTOSYNC.

Adjusts the output level of the module post processing. Set in accordance to the INPUT LEVEL CONTROL [1] to maintain unity through the module.





13. DIP SWITCH

[Default: all down/OFF]

- 1. Sync Mode: UP=TRS, Down=OPTOSYNC
- 2. Sync Trim Controls: UP=OFF, Down=ON
- 3. Sync IN/OUT Switch: UP=OFF, Down=ON
- 4. Bypass Mode: UP=Post-Input Control, DOWN=All
- 5. Band LEDs: UP=OFF, Down=ON
- 6. Start-Up Auto Calibration: UP=ON, Down=OFF

^{*} The Frequency control on the Carnaby 500 switches multiple circuit elements simultaneously. The Carnaby 500 incorporates a degree of "zero-cross detection" to mitigate momentary switching noises that can arise, but this is dependent on receiving input program material (music, instruments etc) and correct gain staging. With no input signal present (or even with a simple waveform such as a pure sine tone), these artefacts can appear pronounced, especially when sweeping through the various filter frequencies at high boost/cut. However, when listening to the unit in real-world conditions, with a complex input signal, any switching noise (if present) is barely audible.