



CEIL
BIGCEIL
CELESTIAL MIX
CELESTIAL MASTERBUS
CELESTIAL MASTERING

CEIL

The Ceil plugin is a brand new, incredible piece of dreamware for your studio based on a heavily modified British channel strip that we sampled at the end of 2017 during one of our official workshops - held at a studio near the lake of Como. Below we will describe in detail the Ceil plugin controls.





Block schematic of the entire processing flow in **CEIL**

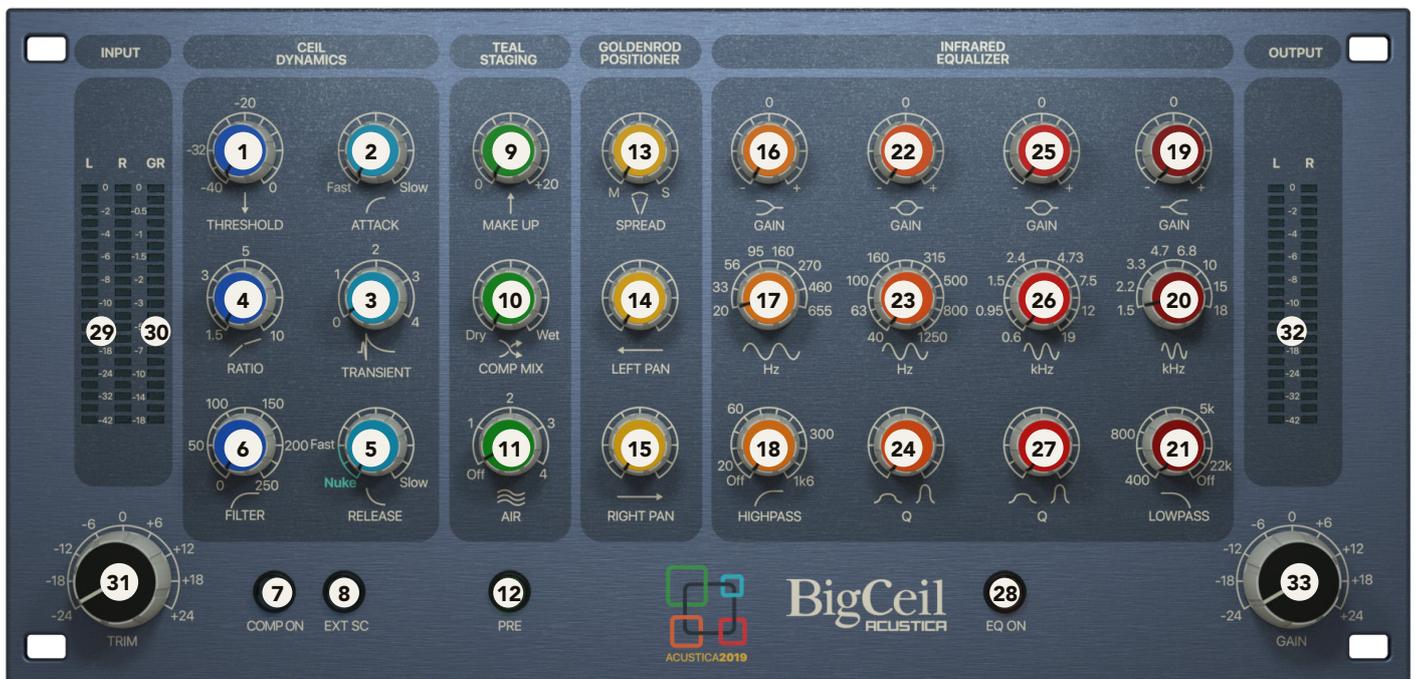
- 1- Threshold:** This knob sets the level at which the compressor begins to operate. Range: from -40dBu to 0dBu.
- 2- Attack:** This knob sets the compressor's attack time (Values from fast to slow).
- 3- Transient:** alters the shape of the attack envelope. This allows fine-tuning of the attack behavior in order to adapt it to any audio source. Position 2 gives the original attack time of the modeled compressor. Position 1 gives the fastest setting. Going from 1 down to 0, a look-ahead function is enabled. The range/amount of look-ahead goes from 0 to 4 milliseconds. Values above 2 will slow down the attack time.
- 4- Ratio:** This knob sets the compression ratio. Available values range from 1.5:1 to 10:1
- 5- Release:** This knob sets the compressor's release time (Values: from Nuke*,fast to slow – *Nuke: this parameter was sampled from another unit, a famous American FET compressor introduced in 1968 to further improve the versatility of the compressor. The interaction of NUKE with the attack is never the same , like on a real analog device and it allows for extremely creative results, ranging from soft compression to complete sound mangling).
- 6- Filter:** this knob allows the management of the IRR sidechain filter included in this compressor; working in External sidechain mode so it doesn't affect the direct audio signal. The frequency range (Hz) : 0 (bypass); 50 to 250.
- 7- Comp On:** Press it to activate the compressor.
- 8- Ext SC:** this button engages the external side-chain of the compressor. (AU format doesn't support this feature).
- 9- Make-up:** This is a classic compressor make-up gain control. It allows for the compressed signal to be boosted so that it is level matched to the uncompressed signal. This allows for an easier comparison between the two signals for a better judgment on the compressor's action. It is designed to boost the compressed signal from 0dB to +20dB.
- 10- Comp Mix:** controls the mix proportion between the original (dry) and 'effected' (wet) signals. In other words, it determines the balance between the compressed and uncompressed signal. Range: DRY(0%) to WET(100%).
- 11- Pre:** Press this to activate the preamp.
- 12- Spread:** this knob controls the balance between full MID (M) and full SIDE (S) signal.
- 13- Pan:** this knob controls the left/right signal level therefore the stereo image.
- 14- Highpass (filter):** Sets a roll-off frequency from 20Hz to 1k6Hz
- 15- Lowpass (filter):** Sets a roll-off frequency from 400Hz to 22kHz.
- 16- Flt On:** Press this to activate the Hi and Lo pass filters.
- 17- Gain:** Low Frequency shelf boost and cut; ± 18 dB of adjustable gain.
- 18- Low band (Hz):** this is a Low Shelf EQ. Values (Hz): 20-33-56-95-160-270-460-655
- 19- Gain:** High Frequency shelf boost and cut; ± 18 dB of adjustable gain.
- 20- High band (kHz):** this is a High Shelf EQ. Values (kHz): 1.5-2.2-3.3-4.7-6.8-10-15-18
- 21- EQ On:** Press it to activate the Equalizer.
- 22- Input (L-R)meters:** they display the input levels entering Ceil. Range IN (L-R): -42dB to +0dB. They are volume unit (VU) led meters (300 ms average) that measures the stereo input level.
- 23- Gain reduction meter:** the Gain Reduction meter measures the gain reduction level applied by the compressor. The meter indicates '0' in the absence of an input signal or any gain reduction. If the signal exceeds the compression threshold or limit level, the amount of gain reduction is displayed.
- 24- (Input) Trim:** this function allows for a "one knob" internal gain staging control by automatically linking input and output gain stages with an inverse law. The control sets the input level from -24dB to +24dB, and it is used to adjust the internal operational level of the plugin. Note that this is different from a standard input gain control due to the linked output gain stage, which always ensures that whatever gain change is introduced at Ceil's input, the output level is automatically compensated so that there's no perceived level change.
- 25- Output (L-R) meters:** they display the output levels exiting Ceil. Range OUT (L-R): -42dB to +0dB. They are volume unit (VU) led meters (300 ms average) that measures the stereo output level.
- 26- (Output) Gain:** is the output gain control ranging from -24dB to +24dB.

BIG CEIL

Below we will describe in detail the BigCeil plugin controls. Unless expressly indicated each control will be available in both channelstrip versions (CEIL and BIGCEIL).



- 1- Threshold:** This knob sets the level at which the compressor begins to operate. Range: from -40dBu to 0dBu.
- 2- Attack:** This knob sets the compressor's attack time (Values from fast to slow).
- 3- Transient:** alters the shape of the attack envelope. This allows fine-tuning of the attack behavior in order to adapt it to any audio source. Position 2 gives the original attack time of the modeled compressor. Position 1 gives the fastest setting. Going from 1 down to 0, a look-ahead function is enabled. The range/amount of look-ahead goes from 0 to 4 milliseconds. Values above 2 will slow down the attack time.
- 4- Ratio:** This knob sets the compression ratio. Available values range from 1.5:1 to 10:1
- 5- Release:** This knob sets the compressor's release time (Values: from Nuke*,fast to slow – *Nuke: this parameter was sampled from another unit, a famous American FET compressor introduced in 1968 to further improve the versatility of the compressor. The interaction of NUKE with the attack is never the same, like on a real analog device and it allows for extremely creative results, ranging from soft compression to complete sound mangling).
- 6- Filter:** this knob allows the management of the IRR sidechain filter included in this compressor; working in External sidechain mode so it doesn't affect the direct audio signal. The frequency range (Hz) : 0 (bypass); 50 to 250.
- 7- Comp On:** Press it to activate the compressor.
- 8- Ext SC:** this button engages the external side-chain of the compressor. (AU format doesn't support this feature).
- 9- Make-up:** This is a classic compressor make-up gain control. It allows for the compressed signal to be boosted so that it is level matched to the uncompressed signal. This allows for an easier comparison between the two signals for a better judgment on the compressor's action. It is designed to boost the compressed signal from 0dB to +20dB.
- 10- Comp Mix:** controls the mix proportion between the original (dry) and 'effected' (wet) signals. In other words, it determines the balance between the compressed and uncompressed signal. Range: DRY(0%) to WET(100%).
- 11- Air:** this stepped knob emulates the 'air' of a transformer input. The main idea behind this new control is to accentuate the inherent HF resonance of the transformer input, creating a sort of 'brighter' sound, this emulation should give you the illusion of a "natural space" around the sound, an "airy" effect — hence the name. NOTE: First step of this knob bypasses the control.



Block schematic of the entire processing flow in **BIGCEIL**

12- Pre: Press this to activate the preamp.

13- Spread: this knob controls the balance between full MID (M) and full SIDE (S) signal.

14/15- Pan (L-R): lets you pan each channel (LEFT-RIGHT) independently, you also could use this on a normal stereo track to reduce the stereo separation. So you can add space in a mix through panning the instruments center, left and right in the stereo field.

The Equaliser section features two separate parametric bands plus shelving low and high frequencies, high- and low-pass filters.

16- Gain: Low Frequency shelf boost and cut; ± 18 dB of adjustable gain.

17- Low band (Hz): this is a Low Shelf EQ. Values (Hz): 20-33-56-95-160-270-460-655

18- Highpass (filter): Sets a roll-off frequency from 20Hz to 1k6Hz

19- Gain: High Frequency shelf boost and cut; ± 18 dB of adjustable gain.

20- High band (kHz): this is a High Shelf EQ. Values (kHz): 1.5-2.2-3.3-4.7-6.8-10-15-18

21- Lowpass (filter): Sets a roll-off frequency from 400Hz to 22kHz.

Big Ceil is also characterized by Low-mid & Hi-mid parametric bands, each with continuously variable boost/cut with 16 different frequencies, and fully variable Q.

22- Gain: Low-mid Frequency shelf boost and cut; ± 18 dB of adjustable gain. (these bands/controls are not included in the CEIL strip).

23- Low-mid frequencies: Values (Hz) 40-50-63-80-100-125-160-200-250-315-400-500-630-800-1000-1250.

24- Q: Fully variable Q (bandwidth), Peak mode;

25- Gain: High-mid Frequency shelf boost and cut; ± 18 dB of adjustable gain. (these band/controls are not included in the CEIL strip).

26- High-mid frequencies: Values (kHz) 0.6-0.75-0.95-1.2-1.5-1.88-2.4-3-3.75-4.73-6-7.5-9.45-12-15-19.

27- Q: Fully variable Q (bandwidth), Peak mode;

28- EQ On: Press it to activate the Equalizer.

29- Input (L-R)meters: they display the input levels entering Ceil. Range IN (L-R): -42dB to +0dB.

They are volume unit (VU) led meters (300 ms average) that measures the stereo input level.

30- Gain reduction meter: the Gain Reduction meter measures the gain reduction level applied by the compressor. The meter indicates '0' in the absence of an input signal or any gain reduction. If the signal exceeds the compression threshold or limit level, the amount of gain reduction is displayed.

31- (Input) Trim: this function allows for a "one knob" internal gain staging control by automatically linking input and output gain stages with an inverse law. The control sets the input level from -24dB to +24dB, and it is used to adjust the internal operational level of the plugin. Note that this is different from a standard input gain control due to the linked output gain stage, which always ensures that whatever gain change is introduced at Ceil's input, the output level is automatically compensated so that there's no perceived level change.

32- Output (L-R) meters: they display the output levels exiting Ceil. Range OUT (L-R): -42dB to +0dB.

They are volume unit (VU) led meters (300 ms average) that measures the stereo output level.

33- (Output) Gain: is the output gain control ranging from -24dB to +24dB.

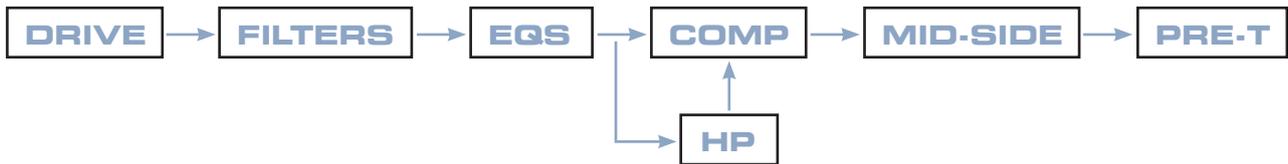
CELESTIAL

The BigCeil suite now includes the Celestial bundle: a three-plugin suite for sound manglers who want to add some creative texturizing and psychoacoustic action to their tracks. Based on a modern hardware machine built in the UK and used by both mixing and mastering engineers, Celestial provides an additional layer of analog goodness to single tracks as well as full mixes. Experiment with the 'Texture' or the 'Dimension' controls to see what we mean

CELESTIAL MIX



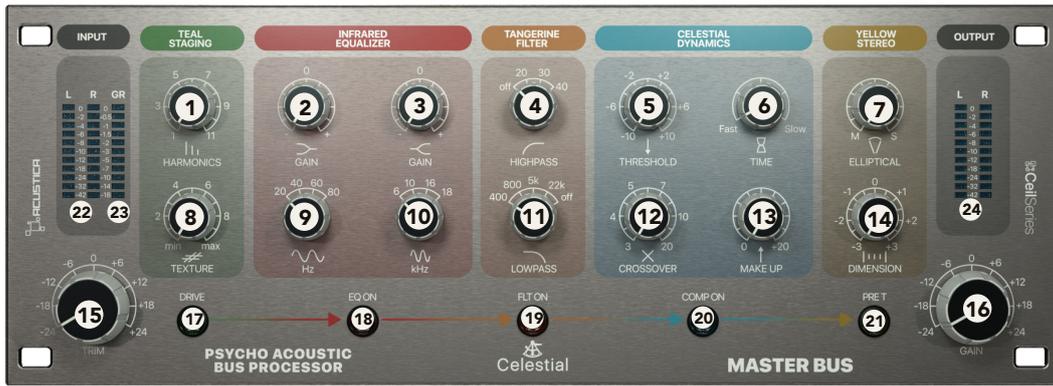
Texture mix processor - Suggested use: single track mixing/bus mixing.



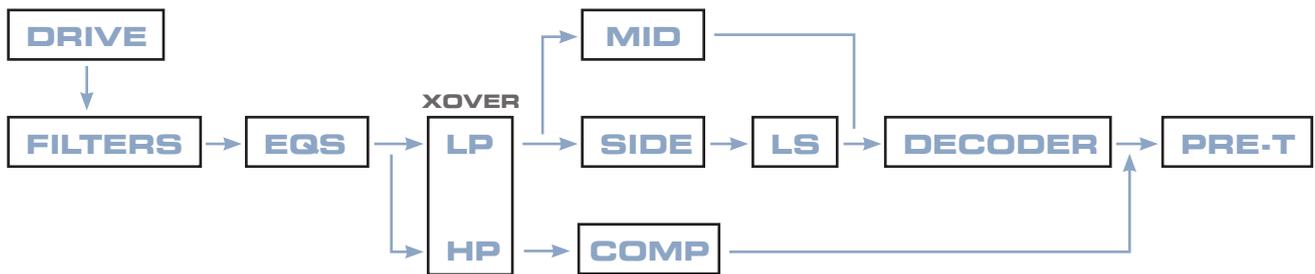
Block schematic of the entire processing flow in **CELESTIAL MIX**

- 1- **Harmonics:** harmonic gain control; (drive-teal staging section).
- 2- **Low gain:** Low Frequency shelf boost and cut; ± 10 dB of adjustable gain; (infrared equalizer section).
- 3- **High gain:** High Frequency shelf boost and cut; ± 10 dB of adjustable gain ; (infrared equalizer section).
- 4- **Highpass:** frequency high pass filter; Frequency range (Hz) : 20 to 40, Off (the first knob step bypasses the HP filter)(tangerine filter section).
- 5- **Threshold:** It sets the threshold of the compressor, ranging from -10 dB to +10 dB (celestial dynamics section, comp).
- 6- **Time:** Coupled attack and release times (from Fast to Slow); fixed ratio 2:1 (celestial dynamics section, comp).
- 7- **Spread:** Amount of spread (mid-side) (yellow stereo section, mid-side processing), this knob controls the balance between full MID (M) and full SIDE (S) signal.
- 8- **Texture:** Global boost of the harmonic content and linear material; (drive-teal staging section).
- 9- **Low Frequency(Hz):** this is a Low Shelf EQ. Values: 30Hz, 50Hz, 70Hz or 90Hz (infrared equalizer section).
- 10- **High Frequency (kHz):** this is a High Shelf EQ. Values: 9kHz, 12kHz, 16kHz and 20kHz (infrared equalizer section).
- 11- **Lowpass:** Low Pass Filter; Frequency range (Hz) : 22k to 400, Off (the first knob step bypasses the LP filter) (tangerine filter section).
- 12- **SC filter:** HP filter for sidechain signal (celestial dynamics section, comp).
- 13- **Make Up:** post comp make up gain (celestial dynamics section, comp). It sets the output gain compensation, in order to match the level of the compressed signal with the original. Make-up gain range: from 0 dB to +20 dB.
- 14- **Pan:** panner (yellow stereo section, mid side processing); This knob controls the left/right signal level therefore the stereo image.
- 15- **Trim:** It controls the harmonic content of the drive section and the preamp with the transformer (preamp T, preamp with output transformer). The control sets the input level from -24dB to +24dB, and it is used to adjust the internal operational level of the plugin. Note that this is different from a standard input gain control due to the linked output gain stage, which always ensures that whatever gain change is introduced at Celestial's input, the output level is automatically compensated so that there's no perceived level change.
- 16- **Gain:** Output gain (global control), this knob provides ± 24 dB gain at the output stage of the plugin.
- 17- **Drive button:** Activates the drive-teal staging section. The input trim does not affect this section.
- 18- **EQ On button:** Activates the infrared equalizer section of the EQ - Low shelf/High shelf
- 19- **FLT On button:** Activates the tangerine filter LP/HP section.
- 20- **Comp On button:** Compress!!!
- 21- **Pre T button:** press this to activate the 'custom-designed' transformer circuit emulation which is able to add harmonic content in the low-end and a favourable top-end phase-shift to the sound and it also adds a mild 'weight' thanks to the underdamping of the sampled transformer.
- 22- **Input (L-R) meters:** they display the input levels entering Celestial. Range IN (L-R): -42dB to +0dB. They are volume unit (VU) led meters (300 ms average) that measures the stereo input level.
- 23- **Gain reduction meter:** The Gain Reduction meter measure the gain reduction level applied by the compressor. The meter indicates '0' in the absence of an input signal or any gain reduction. If the signal exceeds the compression threshold or limit level, the amount of gain reduction is displayed.
- 24- **Output (L-R) meters:** They display the output levels. Range IN (L-R): -42dB to +0dB. They are volume unit (VU) led meters (300 ms average) that measures the stereo input level.

CELESTIAL MASTERBUS



Psychoacoustic bus processor - Suggested use: bus mixing/mastering, psychoacoustic effect



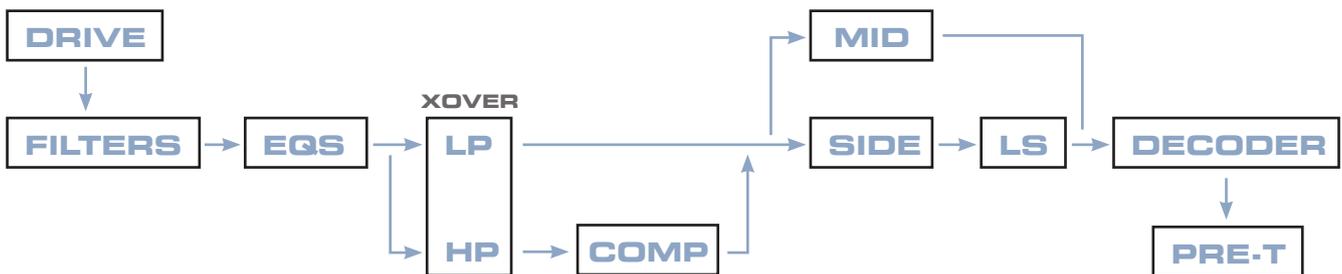
Block schematic of the entire processing flow in **CELESTIAL MASTER BUS**

- 1- **Harmonics**: harmonic gain control; (drive-teal staging section).
- 2- **Low gain**: Low Frequency shelf boost and cut; ± 10 dB of adjustable gain; (infrared equalizer section).
- 3- **High gain**: High Frequency shelf boost and cut; ± 10 dB of adjustable gain ; (infrared equalizer section).
- 4- **Highpass**: frequency high pass filter; Frequency range (Hz) : 20 to 40, Off (the first knob step bypasses the HP filter)(tangerine filter section).
- 5- **Threshold**: It sets the threshold of the compressor, ranging from -10 dB to +10 dB (celestial dynamics section, comp).
- 6- **Time**: Coupled attack and release times (from Fast to Slow); fixed ratio 2:1 (celestial dynamics section, comp).
- 7- **Elliptic**: Amount of spread (mid-side) applied to the output signal of the low pass crossover (yellow stereo section, mid-side processing). The LP output of the crossover section is always active regardless of the compression, which acts only on the HP signal.
- 8- **Texture**: Global boost of the harmonic content and linear material; (drive-teal staging section).
- 9- **Low Frequency(Hz)**: this is a Low Shelf EQ. Values: 30Hz, 50Hz, 70Hz or 90Hz (infrared equalizer section).
- 10- **High Frequency (kHz)**: this is a High Shelf EQ. Values: 9kHz, 12kHz, 16kHz and 20kHz (infrared equalizer section).
- 11- **Lowpass**: Low Pass Filter; Frequency range (Hz) : 22k to 400, Off (the first knob step bypasses the LP filter) (tangerine filter section).
- 12- **Xover**: crossover point (celestial dynamics section, comp E yellow stereo section). The low frequencies are not compressed. The compression happens only on the highs..
- 13- **Make Up**: post comp make up gain (celestial dynamics section, comp). It sets the output gain compensation, in order to match the level of the compressed signal with the original. Make-up gain range: from 0 dB to +20 dB.
- 14- **Dimension**: Low shelf with fixed frequency $-+3$ dB on the Side, coming out from the low pass section of the xover filter (yellow stereo section, mid side processing).
- 15- **Trim**: It controls the harmonic content of the drive section and the preamp with the transformer (preamp T, preamp with output transformer). The control sets the input level from -24dB to +24dB, and it is used to adjust the internal operational level of the plugin. Note that this is different from a standard input gain control due to the linked output gain stage, which always ensures that whatever gain change is introduced at Celestial's input, the output level is automatically compensated so that there's no perceived level change.
- 16- **Gain**: Output gain (global control), this knob provides ± 24 dB gain at the output stage of the plugin.
- 17- **Drive button**: Activates the drive-teal staging section. The input trim does not affect this section.
- 18- **EQ On button**: Activates the infrared equalizer section of the EQ - Low shelf/High shelf
- 19- **FLT On button**: Activate the tangerine filter LP/HP section.
- 20- **Comp On button**: Compress!!!
- 21- **Pre T button**: press this to activate the 'custom-designed' transformer circuit emulation which is able to add harmonic content in the low-end and a favourable top-end phase-shift to the sound and it also adds a mild 'weight' thanks to the underdamping of the sampled transformer.
- 22- **Input (L-R) meters**: they display the input levels entering Celestial. Range IN (L-R): -42dB to +0dB. They are volume unit (VU) led meters (300 ms average) that measures the stereo input level.
- 23- **Gain reduction meter**: The Gain Reduction meter measure the gain reduction level applied by the compressor. The meter indicates '0' in the absence of an input signal or any gain reduction. If the signal exceeds the compression threshold or limit level, the amount of gain reduction is displayed.
- 24- **Output (L-R) meters**: They display the output levels. Range IN (L-R): -42dB to +0dB. They are volume unit (VU) led meters (300 ms average) that measures the stereo input level.

CELESTIAL MASTERING



Psychoacoustic bus processor - Suggested use: bus mixing/mastering, psychoacoustic effect



Block schematic of the entire processing flow in **CELESTIAL MASTERING**

- 1- **Harmonics:** harmonic gain control; (drive-teal staging section).
- 2- **Low gain:** Low Frequency shelf boost and cut; ± 10 dB of adjustable gain; (infrared equalizer section).
- 3- **High gain:** High Frequency shelf boost and cut; ± 10 dB of adjustable gain ; (infrared equalizer section).
- 4- **Highpass:** frequency high pass filter; Frequency range (Hz) : 20 to 40, Off (the first knob step bypasses the HP filter)(tangerine filter section).
- 5- **Threshold:** It sets the threshold of the compressor, ranging from -10 dB to +10 dB (celestial dynamics section, comp).
- 6- **Time:** Coupled attack and release times (from Fast to Slow); fixed ratio 2:1 (celestial dynamics section, comp).
- 7- **Elliptic:** Amount of spread (mid-side) applied to the stereo signal.
- 8- **Texture:** Global boost of the harmonic content and linear material; (drive-teal staging section).
- 9- **Low Frequency(Hz):** this is a Low Shelf EQ. Values: 30Hz, 50Hz, 70Hz or 90Hz (infrared equalizer section).
- 10- **High Frequency (kHz):** this is a High Shelf EQ. Values: 9kHz, 12kHz, 16kHz and 20kHz (infrared equalizer section).
- 11- **Lowpass:** Low Pass Filter; Frequency range (Hz) : 22k to 400, Off (the first knob step bypasses the LP filter) (tangerine filter section).
- 12- **Xover:** crossover point (celestial dynamics section, comp E yellow stereo section). The low frequencies are not compressed. The compression happens only on the highs..
- 13- **Make Up:** post comp make up gain (celestial dynamics section, comp). It sets the output gain compensation, in order to match the level of the compressed signal with the original. Make-up gain range: from 0 dB to +20 dB.
- 14- **Dimension:** Low shelf with fixed frequency -+3dB on the Side. In this plugin version, the Low Shelf is applied after the sum of the LP and HP filters in the crossover section.
- 15- **Trim:** It controls the harmonic content of the drive section and the preamp with the transformer (preamp T, preamp with output transformer). The control sets the input level from -24dB to +24dB, and it is used to adjust the internal operational level of the plugin. Note that this is different from a standard input gain control due to the linked output gain stage, which always ensures that whatever gain change is introduced at Celestial's input, the output level is automatically compensated so that there's no perceived level change.
- 16- **Gain:** Output gain (global control), this knob provides ± 24 dB gain at the output stage of the plugin.
- 17- **Drive button:** Activates the drive-teal staging section. The input trim does not affect this section.
- 18- **EQ On button:** Activates the infrared equalizer section of the EQ - Low shelf/High shelf
- 19- **FLT On button:** Activate the tangerine filter LP/HP section.
- 20- **Comp On button:** Compress!!!
- 21- **Pre T button:** press this to activate the 'custom-designed' transformer circuit emulation which is able to add harmonic content in the low-end and a favourable top-end phase-shift to the sound and it also adds a mild 'weight' thanks to the underdamping of the sampled transformer.
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- 23- **Gain reduction meter:** The Gain Reduction meter measure the gain reduction level applied by the compressor. The meter indicates '0' in the absence of an input signal or any gain reduction. If the signal exceeds the compression threshold or limit level, the amount of gain reduction is displayed.
- 24- **Output (L-R) meters:** They display the output levels. Range IN (L-R): -42dB to +0dB. They are volume unit (VU) led meters (300 ms average) that measures the stereo input level.

