



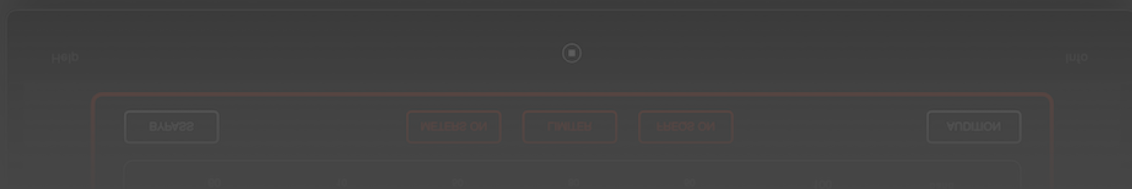
JAX MASTERING SERIES

MBC PRO

Manual

JAX MASTERING SERIES

The JAX Mastering Series are tools, specialized for mastering more complex audio signals. The audio spectrum is divided into 5 individual frequency bands and one instance of a specialized audio processors is attached to each frequency band separately.



JAX MASTERING : MBC PRO

Multiband Compander

This audio effect is a 5 stereo-frequency-band dynamics processor, which features 5 instances of a specialized compander attached to it.

A commander is a combination of an expander and a compressor and it has bidirectional parameter control. So several bands can be compressed, while others can be expanded.

Each frequency band can have its unique set of parameter values.

The separation in adjustable frequency bands allows generally much finer control, how much the audio stream is altered by dynamics and make your mixes more defined. Removing mud, adding pressure and/or air, everything is possible with our multi band compander.

The analog modeled frequency bands are musically scaled and can be adjusted freely and also automated. The MBC Pro is specifically made for such automation tasks.

There is also an optional frequency visualization (FFT) implemented, for better recognition of the entire frequency content. The single companders do have an emulated parametric needle display attached for watching the follower actions in realtime.

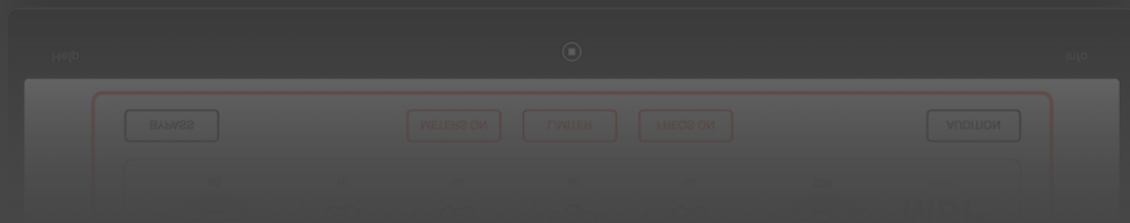
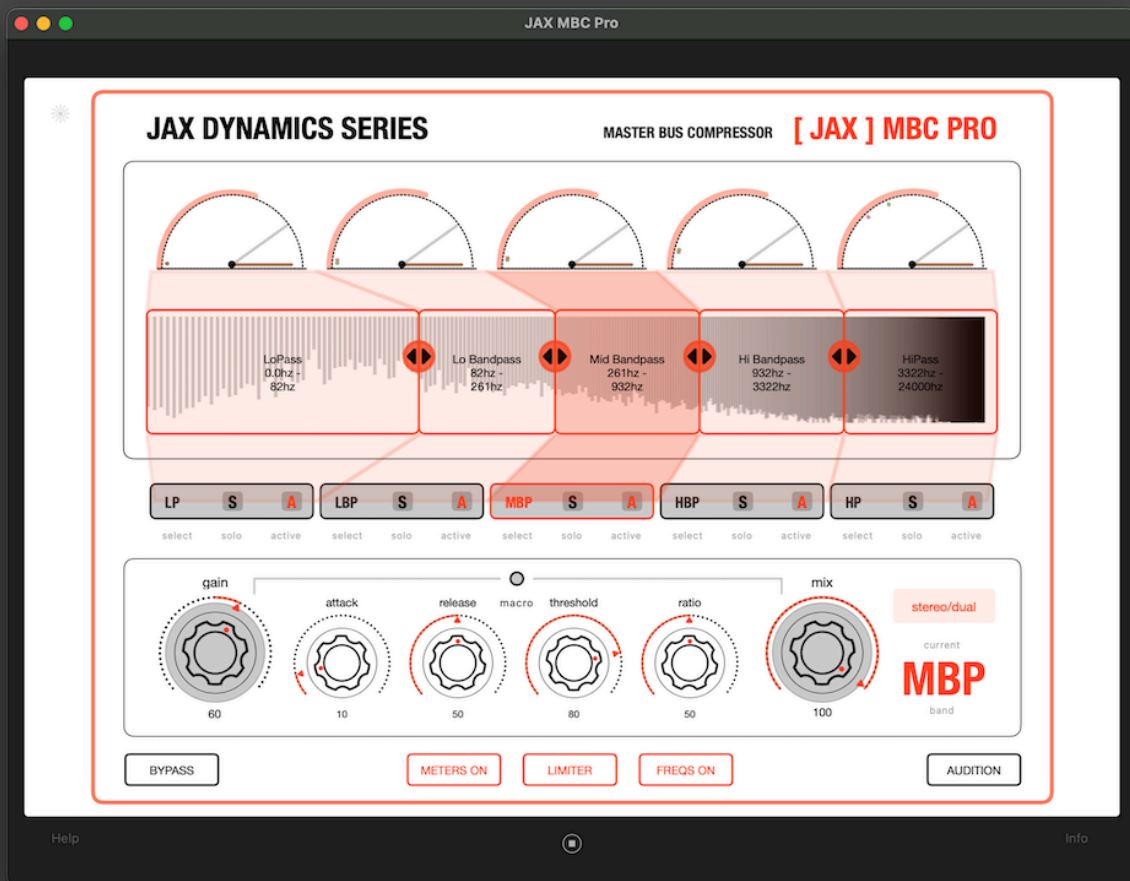
A final limiter is attached too, making the usage very easy without losing entire loudness and definition.

AN IMPORTANT SIDE NOTE :

Our MBC Pro, as the entire series of mastering tools, is intentionally not made as an scientific audio processor with complicated and cryptic controls as you may usually find with many other products, aiming to provide professional control.

We are thinking, If you can't hear what you are doing, those scientific tools even won't help you anything. We prefer easy to use tools, with efficient mechanisms for editing audio fast, easily and idiot-safe behaviors. Lastly the only thing that counts is the final result, the sound you can achieve by just tweaking and listening.

If You are rather the type of professional audio engineer, who wants scientific calculators as dynamics processors, so please look at other products.



MBC Pro Parameters

The following parameters per frequency band (commander parameters) are available:

- kCompanderAttack - how fast the signal follower will snap
- kCompanderRelease - how fast the signal follower will release
- kCompanderThreshold - the effective signal threshold, borrowed from classic compressors/expanders
- kCompanderRatio - classic ratio-alike parameter, multiplier factor for the strength of operation
- kCompanderGain - main action, bidirectional parameter for expansion/compression
- kCompanderMix - parallel compansion, how much of the altered signal is mixed to the initial input.
- kCompanderMode - stereo Mode (stereo independent, stereo linked, mid/side independent, mid/side linked)

The following global parameters are available:

- kBypass - allows bypassing the entire audio processor
- kAudition - you may try to listen to the actual action isolated
- kFinalLimiter - preventing extreme signal boosting and maintaining optimal loudness
- kMetersOffOn - meters do use graphics performance, you can switch that off
- fFreqsOffOn - this parameter is mainly used for soloing the frequency bands

- kContrast - the display contrast can be adjusted with this parameter and is also saved with a preset
- kMainColorR
- kMainColorG
- kMainColorB - the shade of the emphasized color can be adjusted and also saved with a preset.

- kFrequency1
- kFrequency2

- kFrequency3
- kFrequency4 : this are the fractional frequency split values, expresses as normalized values for the 5 frequency bands. This parameter can be adjusted in real-time. The frequency range in Hz will be displayed additionally.
- kCompander1Active
- kCompander2Active
- kCompander3Active
- kCompander4Active
- kCompander5Active : each commander can be switched on or of individually. This is mainly for listening and control.

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