

DQ65 v1.0

DYNAMIC PARAMETRIC EQUALIZER



INTRODUCTION

Standard parametric equalizers have three parameters - central frequency, Q factor and gain amount. After you set them filter works statically independent of incoming signal. Dynamic equalizers work differently. Some (or all) of their parameters change over time, usually related to amplitude or spectrum of dry signal. DQ65 alters only the gain amount dynamically and it does that with two parameters: one gain for high amplitude, other for low. Frequency and Q factor don't change - they operate the same as in standard EQ. This plugin can be used anywhere you find it purposeful, but it's designed primarily for individual track equalization, especially for instruments with wide and varying dynamic range.

- 5 peak minimum-phase stereo filters;
- Two gain controls per filter, for high and low amplitudes;
- Scalable envelope follower that determines high/low blending;
- Low and high-cut filters with two slopes (1st/2nd order for LCF, 2nd/3rd for HCF filter);
- Band-pass monitoring for each peak filter;
- 32-bit internal precision with zero latency and low CPU consumption;

FUNCTIONS

Most of the controls work the same as in other J1000 equalizers - orange control central frequency, blue ones Q factor and purple frequency of cut filters. The main difference is how gain controls work. Incoming (dry) signal gets measured after the cut filters and that level determines the blending ratio between high and low gain controls (red and pink knob). Ratio is shown on the big display. If it's all the way down only low gain works, if it's all the way up only high gain works, but most of the time it will be somewhere in between those two extremes. Use scale knob to adjust it so that it fills the display symmetrically from top to bottom. Some sounds just have flat dynamic range, either "on" or "off", and they can't be processed effectively this way. Other ones, like pads, atmospheres, long-evolving solos, can benefit a lot using this technique. Monitoring button (MON) enables output band-pass filter that activates while you adjust frequency knobs, to preview just that part of spectrum. CTRL+mouse is for precise knob adjustment and double-click resets them to default.