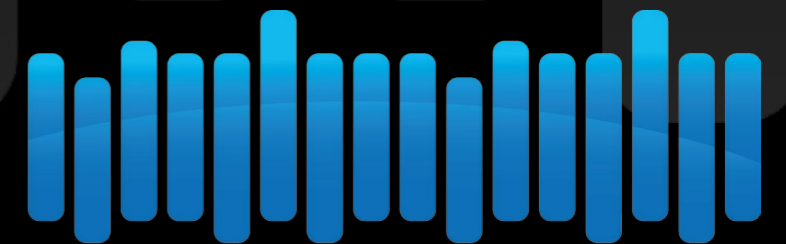# QUICK START

## Install and Authorize your New Plugin:

- Double-click the .mpkg (Mac) or .exe (Win)

- Follow the installation instructions

- Open the plugin in your DAW of choice and click on the interface to activate.

- If your computer is connected to the internet, click the "I'm Online" button and enter your Plugin Alliance credentials on the following page.

- For offline activation instructions and additional information, please refer to the Activation Manual included in the installation folder of this plugin.

- You will also find the online version of the manual by visiting:

### www.plugin-alliance.com

## System Requirements and supported Platforms

For latest System requirements & Supported Platforms, please visit the product page at www.plugin-alliance.com to see the product specification on each product's respective page.

PLUGIN ALLIANCE

# BRAINWORX - bx_opto and bx_opto Stomp
## Colorful Optical Compressor Model
## Beastly Dynamics Processing, Oozing with Character



**Thank you for using the brainworx bx_opto compressors**

Most optical compressors are appreciated for the character introduced by anomalies in the light dependent circuitry of the sidechain. They allow users the ability to adjust the effect of this character by introducing a separate resistance circuit that gives some control over the compression envelope.

Brainworx decided to take a different approach to adjusting this compression envelope when modeling the bx_opto. The coefficient of the LDR was influenced by those of very real compressors, but there is no separate envelope circuit. Rather, the coefficient is directly manipulated by the 'Speed' parameter of the plugin. This introduces a whole different approach to sonic character that is impossible to replicate with a 'real-world' optical compressor.



The bx_opto has a 'Peak Reduction' parameter that increases sidechain gain, while providing a makeup gain parameter to compensate. It also has a 'Speed' knob that affects mostly the release behavior of the compression; clockwise motion speeds up transient response. The bx_opto also includes a fully sweepable sidechain filter with four different settings and the option to solo. The meter shows accurate gain reduction performed by the compressor.

The bx_opto Stomp uses the same compression algorithm, but simply has fewer control features than the bx_opto, which are grouped together into certain parameters. For example, the bx_opto Stomp incorporates auto-makeup gain into 'Peak Reduction' by calling it a 'Density' parameter. For this reason the Stomp incorporates an output trim to prevent clipping. Both versions have a 'Speed' parameter that controls the release time of the compressor (while the attack time stays relatively fast).

Developed under license by Brainworx GmbH Germany for Plugin Alliance LLC USA.

PLUGIN ALLIANCE

brainworx
music & media gmbh

# BRAINWORX - bx_opto and bx_opto Stomp
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## The Controls of the brainworx bx_opto

**(1) Peak Reduction;** continuous 1 - 100
Controls sidechain gain, threshold for compression

**(2) Speed;** continuous 0 – 100
Envelope for compression; mostly affects the release time as the attack time is determined by the physical constant at which the (Light Dependent Resistor) regains its dark resistance

**(3) Sidechain filter type;** Discreet four-step LP / HP / BP wide / BP narrow
Sets filter type for sidechain filter

**(4) Sidechain Select;** Discreet three-step On / Off / Solo
Activates and deactivates the sidechain filter and provides a way to solo filtered frequency

**(5) Sidechain Frequency;** Continuous 20 Hz – 20 kHz
Selects frequency to be filtered into sidechain

**(6) Mix;** Continous 0% - 100%
Blends compressed signal with dry signal

**(7) Output;** Continous 0 dB – 24 dB
Adds makeup gain to compressed signal

**(8) Gain Reduction Meter**
An accurate representation of the amount of Gain Reduction in dB

## The Controls of the brainworx bx_opto Stomp

*Note: the bx_opto Stomp is a slimmed-down version of the bx_opto, providing the same charismatic compression as the full version, with fewer control features and a guitar pedal feel.

**(1) Density;** 0 – 100
Controls sidechain gain, threshold, combined with makeup gain to compensate for gain reduction from compression

**(2) Speed;** continuous 0 – 100
Envelope for compression; mostly affects the release time as the attack time is determined by the physical constant at which the LDR regains its dark resistance

**(3) Level Trim;** Continous -12 dB – 0 dB
Compensates for overdriven gain from Density stage

**(4) Gain Reduction Meter**
Indicates gain reduction being applied

**(5) Stomp Switch**
Pedal-style on/off button, for that guitar rig feel.

# BRAINWORX - bx_opto and bx_opto Stomp
## Colorful Optical Compressor Model
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## (9) Plugin Settings Toolbar

**BYPASS**
Bypasses processing done by the bx_opto

**UNDO/REDO (Arrows)**
Up to 32 steps of parameter history

**A / B / C / D**
Select banks of paramter settings

**COPY / PASTE / RESET**
Copy and Paste between setting banks, reset paramters of selected bank

**ABOUT**
Information about the development of the plugin

## (10) Plugin Alliance Toolbar

**"KEY" ICON**
Opens the plugin Activation Dialog

**"WRENCH" ICON**
Shows information regarding the plugin version, software specifications, and user account.

**"?" ICON**
Opens a dialog through which one can access the plugin's help documentation, online product page, or any available updates.

**"$" ICON (When Applicable)**
If you've purchased your brainworx bx_opto using the Plugin Alliance Installment Payments option, the "$" icon, links to your account so you can make a payment on your Lease-License

For More Information
Please Visit:
Brainworx Music Website
Plugin Alliance Website: plugin-alliance.com