



RECENTER MANUAL

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1. PREFACE

WHAT IS RECENTER AND WHAT MAKES IT SPECIAL?

Fix poorly aimed stereo recordings!

Have you ever worked with stereo material that was not centered correctly? Pointing a stereo microphone a hundred percent accurately onto a sound source gets harder the further away the source is. RECENTER continuously analyzes the directionality of a stereo or M/S signal and rotates it to a given target angle in real-time - without narrowing the stereo width.

RECENTER is a stereo processor that rotates an incoming stereo signal to the center or a given angle without altering the stereo width. Having the incoming signal centered, you can narrow or widen the stereo image within RECENTER. For a better low frequency control you can mono the original signal below a set frequency. A multi-band option is available for processing more complicated signals.

Easily correct any stereo recording where the microphone angle was off, dynamically center a vocal artist that moved on stage during the performance or center and reposition whooshes, drive-bys and other directional effects. No more need for time-consuming corrective pan automation!

From the necessary quick fix to detailed stereo adjustment - RECENTER is at your service.

1.1 Minimum System Requirements

WINDOWS: Windows 8 (64-bit), 8 GB RAM, Intel® Core[™] i5 (relatively recent), OpenGL 2.1 capable GPU MAC: macOS 10.13 (64-bit), 8 GB RAM, Apple Silicon or Intel® Core[™] i5 (relatively recent), OpenGL 2.1 capable GPU

1.2 Installation

After downloading and opening the installer of RECENTER please follow the on-screen instructions to install the application.

THE MANUAL WILL BE COPIED HERE: WINDOWS: C:\Program Files\BOOM Interactive\Recenter MAC: /Applications/BOOM Interactive/Recenter

1.3 iLok Registration

During the first start of RECENTER after installation, the iLok registration window pops up. RECENTER is licensed using the PACE Licensing Platform. You need to have an iLok account to use it, however setting up an iLok account is free. You will find all necessary information on how to setup your account on www.ilok.com. You can either directly authorize your computer (machine authorization) or use a 2nd or higher generation iLok hardware dongle. A second or third generation iLok (iLok2 or iLok3) is a product of PACE that can be purchased at www.ilok.com or from any participating music retailer.

Next: please download the iLok License Manager at www.ilok.com.

After your purchase, you automatically receive an order confirmation from us containing the download link for the installer plus a 30 digits long iLok activation code (e.g. 1234-1234-1234-1234-1234-1234-1234-12).

HOW TO ACTIVATE THE LICENSE

- Open the iLok License Manager application.
- Either select the menu: Licenses -> Redeem Activation Code or click on the small Redeem Activation Code Icon on the upper right of the application.
- You should then copy paste the entire code you received from us into the entry form. Select your iLok as the activation location to immediately activate the license on this iLok and confirm the location.

Now you are ready to go!

REC	E	N	T	Έ	R
		N	ΛA	NU	AL

Upon the first launch of the application, you will be asked to register RECENTER with your iLok account. A free iLok account can be created under www.ilok.com

Watch a step-by-step video tutorial about how to activate your iLok license:

WATCH TUTORIAL

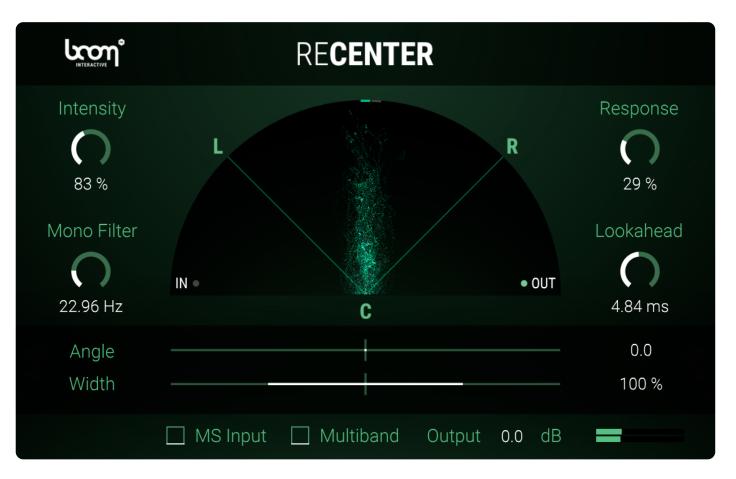
The product doesn't show up in your DAW? Not activating the software when first launching the DAW can lead to DAWs putting the plug-in into a "failed to scan" blocklist or blacklist.

In such cases it is usually sufficient to:

- check the DAW's blacklist/blocklist
- remove the plugin from that list
- activate it in the iLok License Manager
- cause a plug-in rescan or restart your DAW

2. QUICK START

Create a stereo track and, within it, place a sound which needs to be centered. Add RECENTER as insert effect to said track. Depending on the type of source sound, your audio may now already sound perfectly centered while retaining its initial stereo feel thanks to RECENTER's automatic real-time processing. The stereo monitor in the middle will give you a good idea of where your signal is placed within the stereo image. If it needs further adjustment, the surrounding controls offer additional tweaking options, which will be explained in more detail here.



3. GUI OVERVIEW

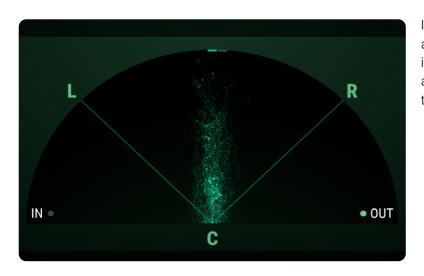
3.1 Header & Logo

RE**CENTER**

Clicking on either logo will open a little "About" window, showing the plug-in version and the people involved in the development.

3.2 Stereo Monitor

The Stereo Monitor displays your signal's current placement within the stereo spectrum, giving you instant visual feedback of what can be heard.



In this example, the processed sound (OUT) is displayed as active, while the source signal (IN) is greyed out and in the background. That way, you can quickly make accurate comparisons between the original sound and the result.

RECENTER

3.2.1 IN / OUT Toggles

Choose which signal you'd like to view primarily:

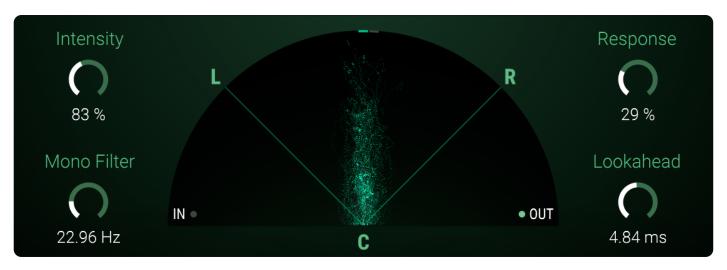


IN: View the unaltered, original signal. RECENTER often mirrors the sound's movement in high detail visually, making it easier for you to identify the issue.



OUT (Default): Displays the processed end result, including angle and width adjustments. Tailor the output signal exactly to your need with this visual aid.

3.3 UPPER CONTROLS



3.3.1 Intensity

Specifies the amount of correction. At 100% the plug-in will work at full capacity to center the stereo signal. Go above 100% to overcompensate and force the correct alignment where necessary.

3.3.2 Response

Determines the speed at which the plug-in corrects the signal. Lower values cause less artifacts, whereas higher values respond faster, as the Stereo Monitor will also show.

3.3.3 Mono Filter

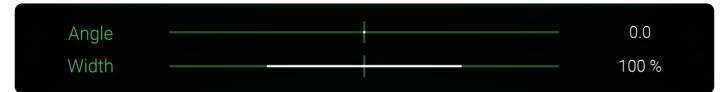
If needed, the Mono Filter reduces all audio to mono below a certain threshold, which can be adjusted with this control. Turning it all the way down disables the filter.

3.3.4 Lookahead

Controls how far ahead the incoming signal is analyzed. Values above 0ms introduce latency but usually yield more robust results.

3.4 ANGLE & WIDTH

These two sliders let you make final adjustments to the already centered signal.



3.4.1 Angle

Rotates the signal to an angle you specify. This is 0° by default (center).

3.4.2 Width

Expands or reduces the final stereo width.

0%: Mono 100%: Original stereo width 200%: Highly widened stereo

By using negative values, you can invert the stereo image.

3.5 BOTTOM PANEL

MS Input Multiband Output 0.0 dB

3.5.1 MS Input

If you are working with a Mid-Side recording, activate this checkbox to enable automatic MS decoding. The signal will be converted to LR before after processing.

3.5.2 Multiband

Toggles multiband processing. While slightly increasing the plug-in's CPU load, it can yield better results, especially when the signal features different directionality in different frequency ranges. Multiband mode operates with four frequency bands:

1: 0Hz - 150Hz

2: 150Hz - 1,200Hz

3: 1200Hz - 5,500Hz

4: 5500Hz - 20,000Hz

3.5.3 Output

Adjusts the final output volume of your signal.

4. TIPS AND TRICKS

4.1 Perceived vs. technical center

The technical center (as seen in the Stereo Monitor) may sometimes differ from the perceived center (what you hear). In that case, lower the Stereo Width and use the Angle parameter to pinpoint and move the signal to the perceived center.

You can also try modifying Intensity to over-/undercompensate for the detected source direction.

4.2 Headphones vs. speakers

Most applications require the signal to sound correct on both headphones and speakers. If possible, cross-check the result frequently on both systems, as factors like perceived center and stereo width usually vary depending on your monitoring device.

4.3 Mono Filter

Using the Mono Filter helps to get punchier and more defined low frequency responses.

4.4 Multiband

While Multiband mode utilizes more processing power, it is not always the best choice. Use your ears and best judgement to determine which option fits your input signal best.

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