MixPre-II
NoiseAssist Plugins

USER GUIDE

SOUND DEVICES

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WEEE Statement

If you wish to discard a Sound Devices product in Europe, contact Sound Devices UK Service Center: +44 (0)1494 511711 for further information.

Warning! This device can drive headphones to potentially dangerous levels. Do not listen at high volume levels for long periods.

Read and fully understand this manual before operation.

NoiseAssist Plugin User Guide | 06/18/20

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This table provides the revision history and cross-reference links to "what's new" in this guide.

DATE	
06/20	v7.00 Initial release

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NoiseAssist Overview

Use NoiseAssist to reduce background noise such as traffic, generators, HVAC noise, and more while preserving dialogue clarity.

NoiseAssist plugin is available as a 1- or 2-instance plugin. An instance can be applied to a channel or mix track (L or R). NoiseAssist can be used at sample rates 48.048 kHz and less, and at 24 or 32-bit float bit depth.

NOISEASSIST MENU

Access the NoiseAssist menu by navigating to Menu > System > NoiseAssist. NoiseAssist can only be accessed if the NoiseAssist plugin is installed and Advanced Mode or Custom Mode with Channel set to Advanced is selected. In Custom Mode with Record set to Advanced, NoiseAssist is only available on the L or R mix track.
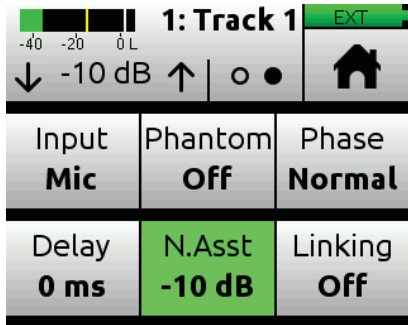
Select which channel or mix track to apply NoiseAssist to. For the 1-instance NoiseAssist plugin, it can only be applied to a single channel or mix track. For the 2-instance NoiseAssist plugin, it can be applied to two channels, both mix tracks, or a single channel and single mix track.
Activate NoiseAssist by selecting NoiseAssist On.

ADJUSTING A CHANNEL'S NOISEASSIST

Go to page two of the channel screen of the channel selected for NoiseAssist and adjust the N.Asst value. NoiseAssist values range from 0 dB to -20 dB with 0 dB representing no noise attenuation and -20 dB being the maximum amount of noise attenuation.

ADJUSTING A MIX TRACK'S (L OR R) NOISEASSIST

Go to page three of the Record menu and adjust the Left or Right N.Asst value. NoiseAssist values range from 0 dB to -20 dB with 0 dB representing no noise attenuation and -20 dB being the maximum amount of noise attenuation.

A channel or mix track enabled for NoiseAssist will show a diamond in its home screen meter. The diamond moves based on the amount of NoiseAssist averaged across all the frequency bands that have signal in them. The lower the diamond on the meter scale, the more the background noise is being attenuated. The diamond moves towards the top of the scale as the audio signal changes (for example, when a mic picks up dialogue) - this indicates that the NoiseAssist algorithm is learning and adapting to the signal in real-time.

To effectively use NoiseAssist, start with the default setting of -6 dB and dial in more or less depending on your environment. An ideal setting will reduce the background noise without coloring the sound.

Tip: In a multiple-microphone setup, use a combination of MixAssist and NoiseAssist (applied to L or R) to further suppress noise.
Tip: NoiseAssist can be applied during playback when Remix is On.

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Two Level Segregated Fit memory allocator, version 3.1. Written by Matthew Conte
http://tlsf.baisoku.org Based on the original documentation by Miguel Masmano:
http://www.gii.upv.es/tlsf/main/docs
This implementation was written to the specification of the document, therefore no GPL restrictions
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This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. FCC Part 15.19 (a) (3)

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equip- ment.

FCC Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

—Reorient or relocate the receiving antenna.
—Increase the separation between the equipment and receiver.
—Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
—Consult the dealer or an experienced radio/TV technician for help.

FCC & ISED User Statement

This device complies with FCC and ISED RF Exposure SAR limits exposure limits for general population / uncontrolled exposure.

Cet appareil est conforme à la norme FCC et USED RF Exposure SAR limite les limites d'exposition pour la population générale / l'exposition incontrôlée.

This Device complies with Industry Canada License-exempt RSS standard(s). Operation is subject to the following two conditions: 1) this device may not cause interference, and 2) this device must accept any interference, including interference that may cause undesired operation of the device.

Cet appareil est conforme avec Industrie Canada, exempts de licence standard RSS (s). Son fonctionnement est soumis aux deux conditions suivantes: 1) ce dispositif ne peut pas causer d'interférences, et 2) ce dispositif doit accepter toute interférence, y compris les interférences qui peuvent causer un mauvais fonctionnement de l'appareil.