

Bass Management

Applicability

This description applies to the Surround and Immersive version of the Bass Management module.

Overview

Bass Management is a module for managing low-frequency content in an immersive monitoring setup. It can route low-frequency components from main channels to a subwoofer path and can also control how LFE content is filtered and reproduced.

Processing Principle

The module applies crossover filters to selected channels and controls how signal components are mixed into or out of the subwoofer path. The grouping parameter determines how channel controls are linked or separated.

Parameters

Bass Management

Preset

Linking

Unlinked

Crossover Filter Enable

L

R

C

LSS

RSS

LRS

RRS

LTF

RTF

LTR

RTR

Crossover Frequency

80 Hz

L

80 Hz

R

80 Hz

C

80 Hz

LSS

80 Hz

RSS

80 Hz

LRS

80 Hz

RRS

80 Hz

LTF

80 Hz

RTF

80 Hz

LTR

80 Hz

RTR

Crossover Slope

24 dB/Oct

L

24 dB/Oct

R

24 dB/Oct

C

24 dB/Oct

LSS

24 dB/Oct

RSS

24 dB/Oct

LRS

24 dB/Oct

RRS

24 dB/Oct

LTF

24 dB/Oct

RTF

24 dB/Oct

LTR

24 dB/Oct

RTR

Mix Channel into Sub

L

R

C

LSS

RSS

LRS

RRS

LTF

RTF

LTR

RTR

Mix Sub/LFE into Channel

L

R

C

LSS

RSS

LRS

RRS

LTF

RTF

LTR

RTR

Sub Mix Attenuation

0 dB

L

0 dB

R

0 dB

C

0 dB

LSS

0 dB

RSS

0 dB

LRS

0 dB

RRS

0 dB

LTF

0 dB

RTF

0 dB

LTR

0 dB

RTR

LFE Gain

0 dB

LFE Lowpass Filter Enable

LFE Lowpass Filter

80 Hz

Parameter	Description
Linking	Controls how channel parameters are linked for common operation.
Crossover Filter Enable	Enables or disables crossover filtering for a channel.
Crossover Frequency	Sets the crossover frequency for a channel.
Crossover Slope	Selects the crossover filter slope for a channel.
Mix Channels into Sub	Controls whether channel content is mixed into the subwoofer path.
Mix Sub/LFE into Channel	Controls whether subwoofer content is mixed back into a main channel path.
Sub Mix Attenuation	Adjusts attenuation for the subwoofer mix contribution.
LFE Gain	Adjusts the LFE channel level in the bass management path.
LFE Low-pass Filter Enable	Enables or disables low-pass filtering for the LFE path.
LFE Low-pass Filter	Sets the LFE low-pass filter behavior.

Related Processors

- Monitoring Controller

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