Double Dry/Wet

Linear Parallel Mixer







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Double Dry/Wet Version 1.0 (manual rev 2) Copyright 2020 Andrew Russell Compatible with Reason 7.1.1 and later

Device Section Overview





Page 3

Channel A and B signal path





Linear vs Constant Power

Select the correct mixing mode to maintain a perceptually consistent sound level when fading between two signals



When two signals are correlated, use a Linear mix

- A Linear mix is a good choice when mixing between the dry version of a signal, and the same signal passed through an effect
- Or between two parallel effects, as in Double Dry/Wet
- The Dry/Wet knobs in Double Dry/Wet *always* perform a Linear mix



When two signals are un-correlated, use a Constant Power mix

• A Constant Power mix is a good choice when performing a cross-fade between two different tracks (see page 10)



The gain controls in Double Dry/Wet are amplitude-based and range from 0% to 200%, with 100% at the centre position.

This is unlike the more familiar decibel (dB) gain controls found elsewhere in audio software.

Measuring gain using amplitude makes sense in conjunction with linear mixing. For example: setting a channel's dry/wet knob to 50% and setting the channel's gain to 200% will pass through both signals at 100% volume (i.e.: the signals will be added together, see page 12).

Note that, while each gain control only goes up to 200% (6 dB), you can achieve up to 400% (12 dB) and even 800% (18 dB) gain by combining gain controls in series (see pages 15 and 16 respectively).

18 dB	800%
12 dB	400%
6 dB	200%
3 dB	141%
1 dB	112%
0 dB	100%
-1 dB	89%
-3 dB	71%
-6 dB	50%
-12 dB	25%
-20 dB	10%
-∞ dB	0%

Recipe: Parallel Dry/Wet



Recipe: Serial Dry/Wet



Recipe: Cross-fader





Recipe: 5x Audio Splitter



Set all controls to 100%

Optional: Set device to Bypass



Recipe: 2x Audio Merger





Recipe: 3x Audio Merger





Recipe: 2 Channel Mixer





Recipe: -∞ to 12 dB Gain Control





Recipe: -∞ to 18 dB Gain Control



OUTPUT

B

DRY

WET

Α

WET

DRY

В

A

()

GAIN

OUT

0

Double Dry/Wet

Andrew Russell is a former computer game developer from Australia, bringing his experience developing high-performance game engines and designing fun, intuitive and delightful user experiences to the world of music software.

Also from Andrew Russell



