Cambridge Music Technology

Mixing Secrets: Production Tricks to Use with Any DAW

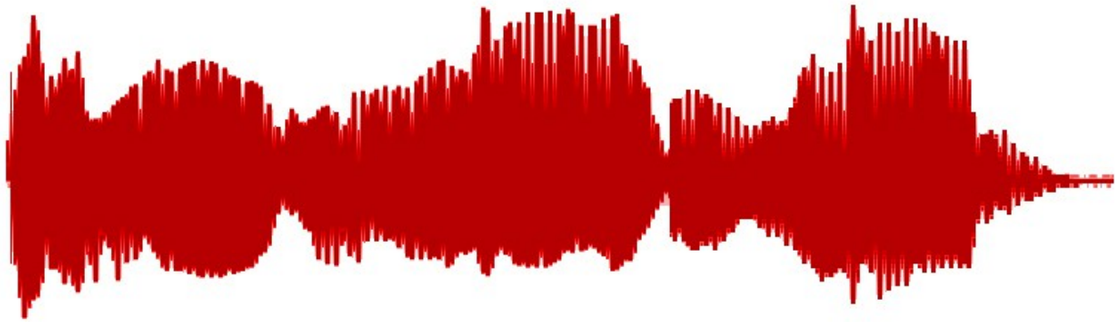
www.cambridge-mt.com

Trumpet microphone

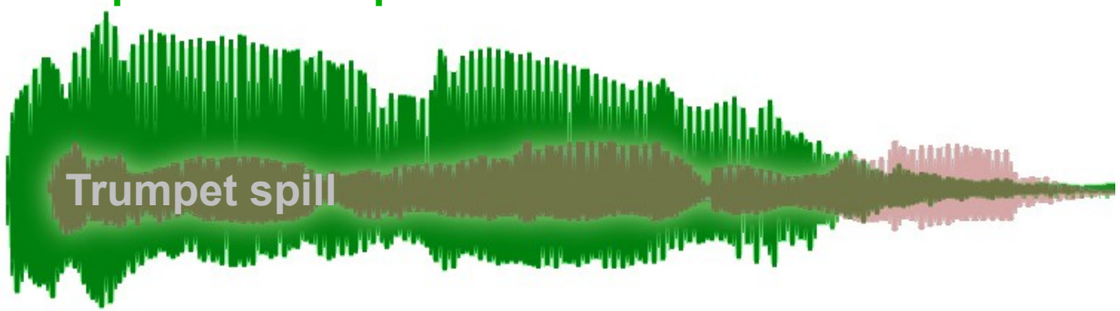
Trumpet microphone

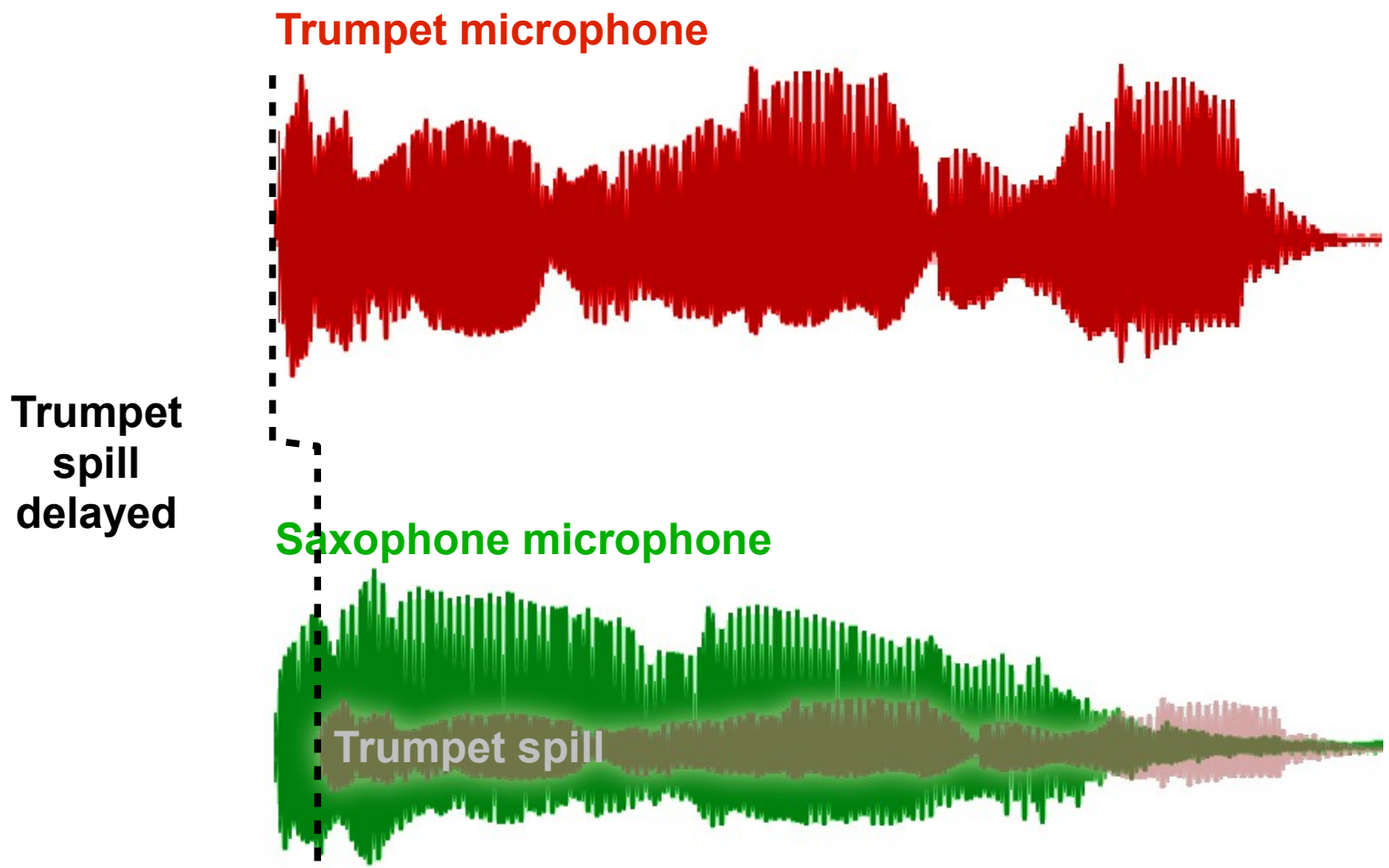
Saxophone microphone

Trumpet microphone

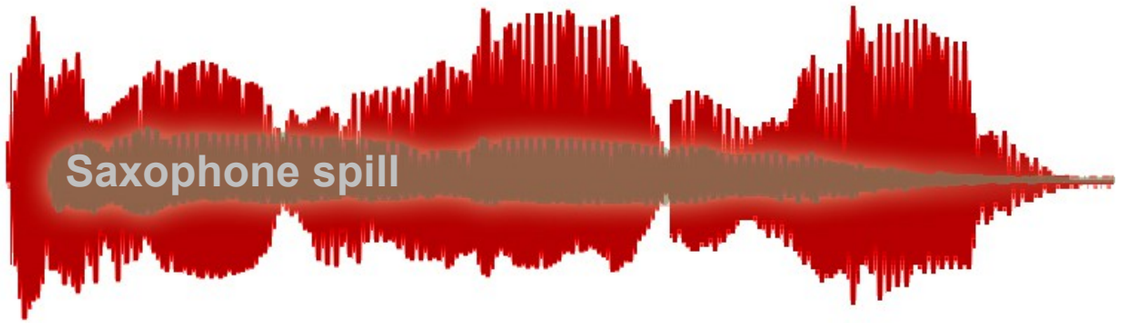


Saxophone microphone

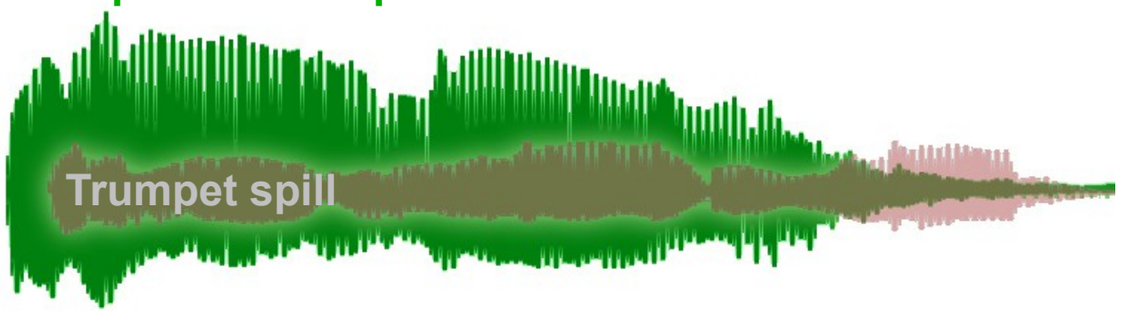



Trumpet microphone
Trumpet spill delayed
Saxophone microphone
Trumpet spill

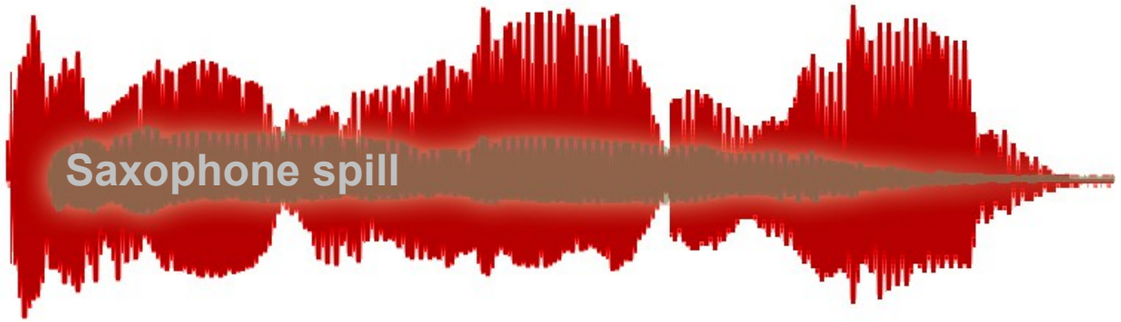
Trumpet microphone



Saxophone microphone

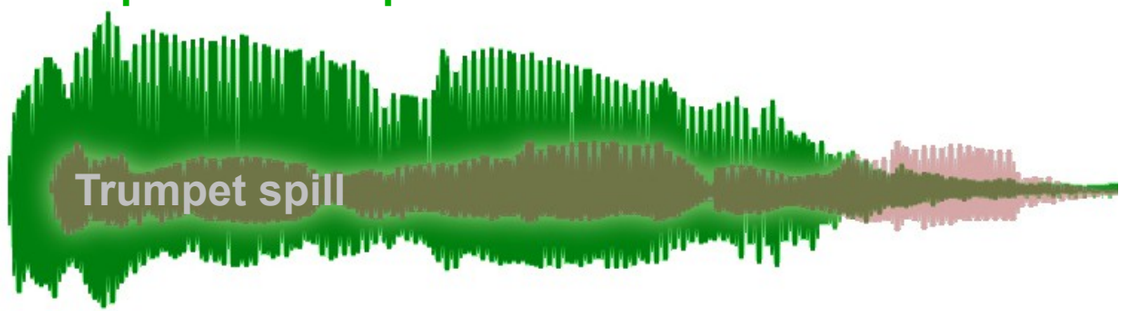


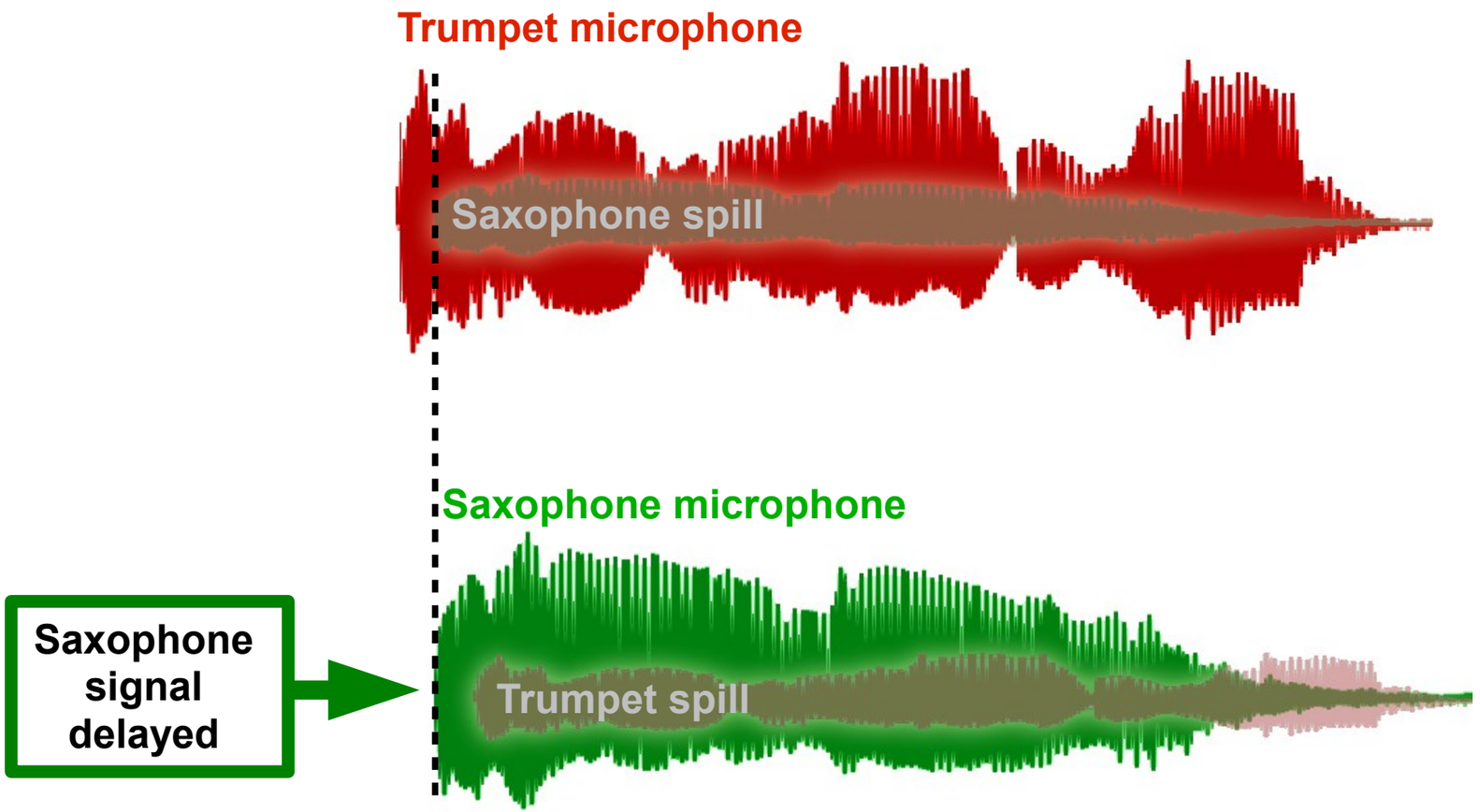
Trumpet microphone

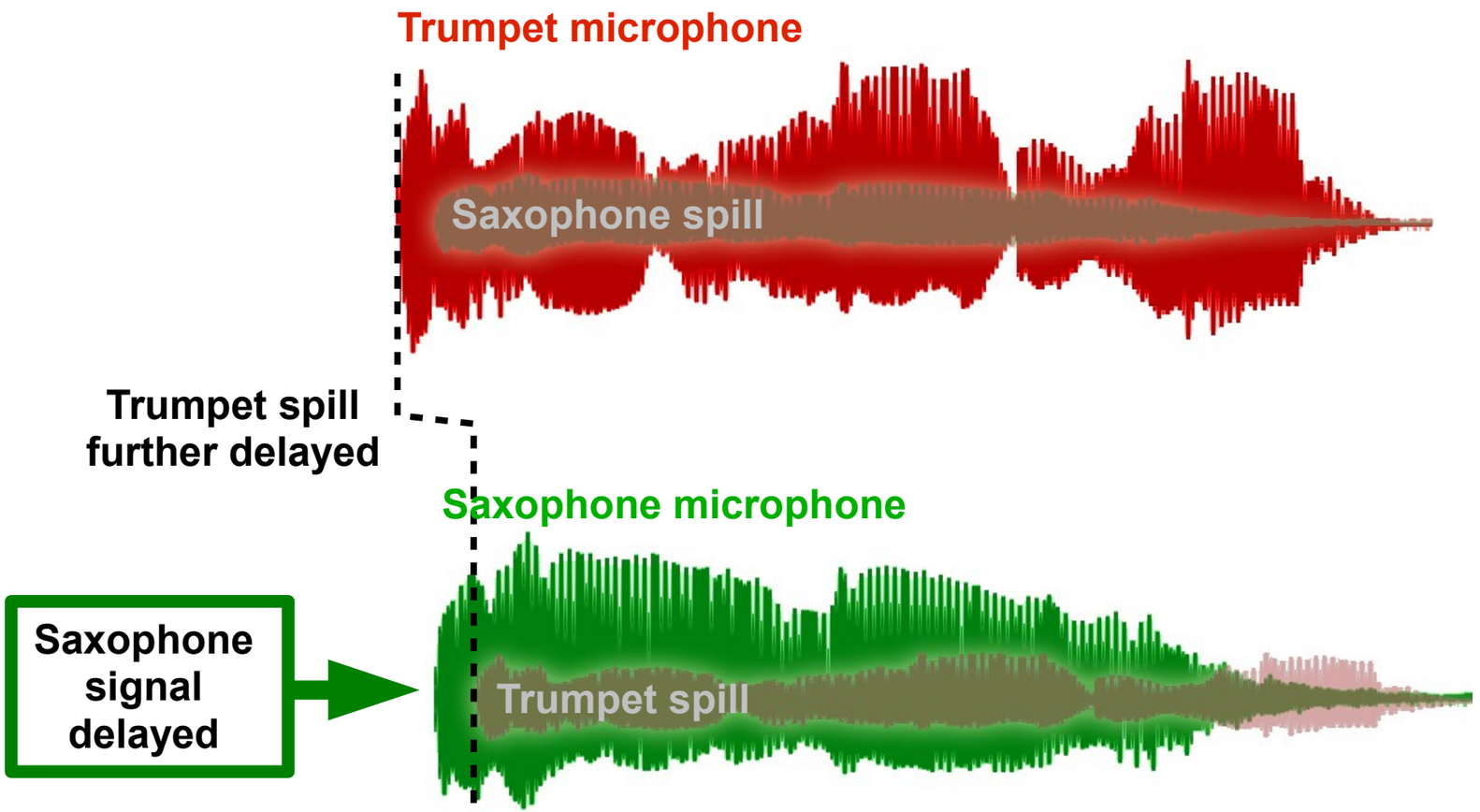


Saxophone microphone

Saxophone signal delayed

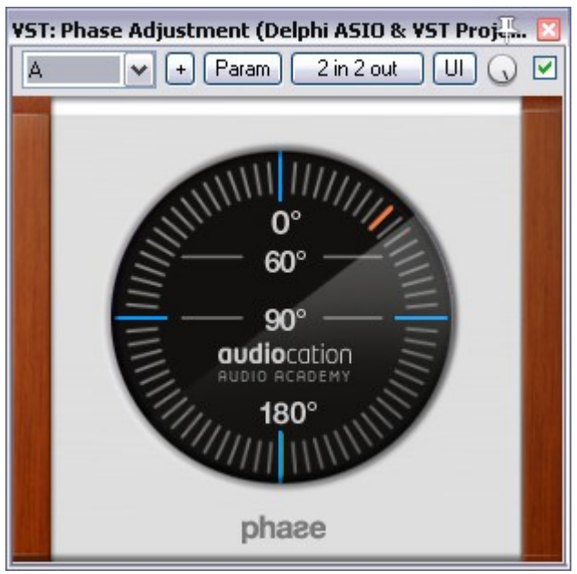



Trumpet microphone
Saxophone spill
Saxophone microphone
Trumpet spill
Saxophone signal delayed

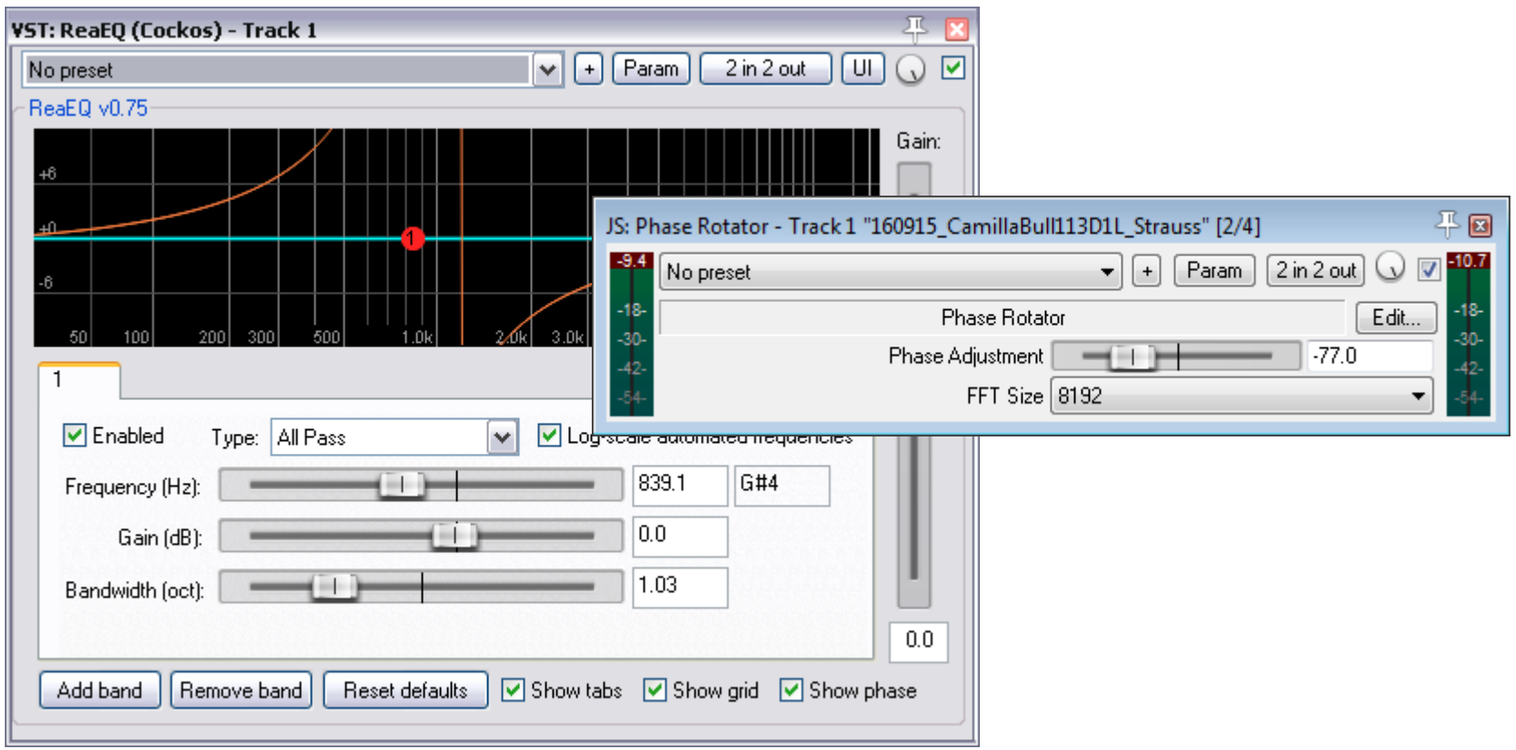

Trumpet microphone
Saxophone spill
Trumpet spill
further delayed
Saxophone microphone
Saxophone
signal
delayed
Trumpet spill

Specialist Phase Manipulators:
PC Freeware (for 32-bit and 64-bit systems)

Audiocation AP1

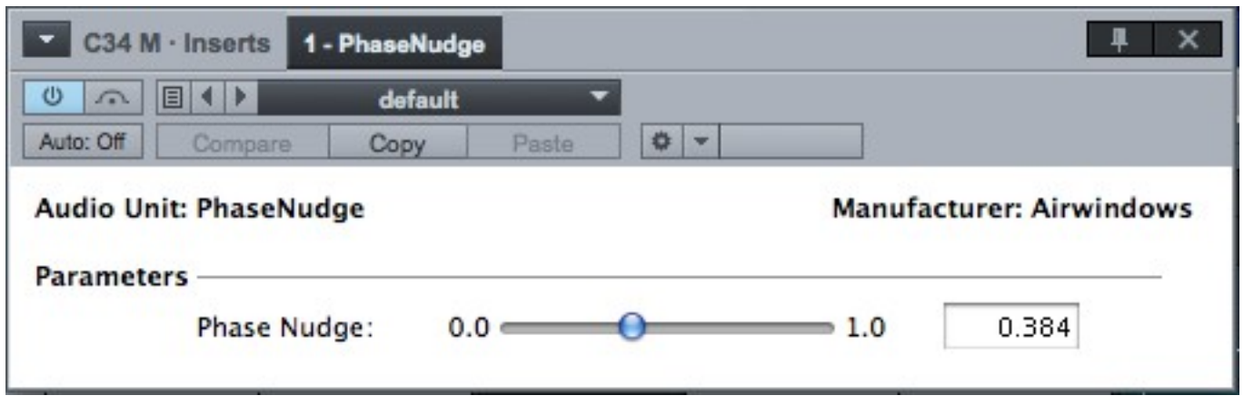


Cockos Reaplugs: ReaEQ & JS Phase Rotator



Specialist Phase Manipulators: Mac Freeware

AirWindows PhaseNudge



32-bit AU

Specialist Phase Manipulators: 64-bit Cross-platform

Voxengo PHA-979

64-bit VST/AU

Real-world monitoring problems in the project studio:

- Phantom image instability

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- Lumpy low-end response

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- Inter-driver comb-filtering

Real-world monitoring problems in the project studio:

- Phantom image instability
- Lumpy low-end response
- Inter-driver comb-filtering
- Most consumers hear less information

Auratone 5C
Super Sound Cube

Single-driver midrange monitor

Some Modern Auratone Substitutes

Auratone 5C
(modern reissue)

Passive: $190 each

Avantone Mixcube

Passive: $140 each
Active: $240 each

Some Modern Auratone Substitutes

Behringer C5A

Active: $100 each

Behringer C50A

Active: $130 each

Fostex 6301B

Active: $180 each

Pyramid Designs Triple P

Passive: $300/pair

Mix Referencing: Common Track-selection Mistakes

- An uncritical selection process

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- Choosing great music, not a great mix

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- Falling for loudness bias

Mix Referencing: Common Track-selection Mistakes

- An uncritical selection process
- Choosing great music, not a great mix
- Falling for loudness bias
- Not using enough monitoring systems

Mix Referencing Technique

- Match loudness

Mix Referencing Technique

- Match loudness
- Instantaneous A/B comparisons

Mix Referencing Technique

- Match loudness
- Instantaneous A/B comparisons
- Use your DAW to focus your ears

Analysis & Metering Software

Brainworx Bx_solo

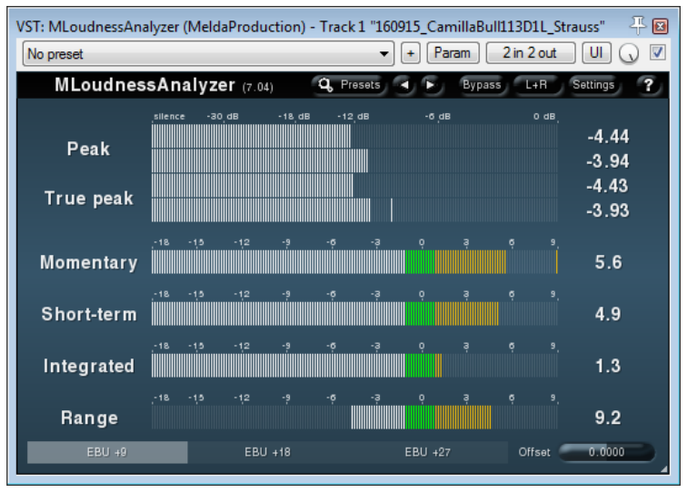
Mix Referencing Technique

- Match loudness
- Instantaneous A/B comparisons
- Use your DAW to focus your ears
- Use visual analysis tools

Analysis & Metering Software

Sonalksis
FreeG

Melda
MLoudnessAnalyzer

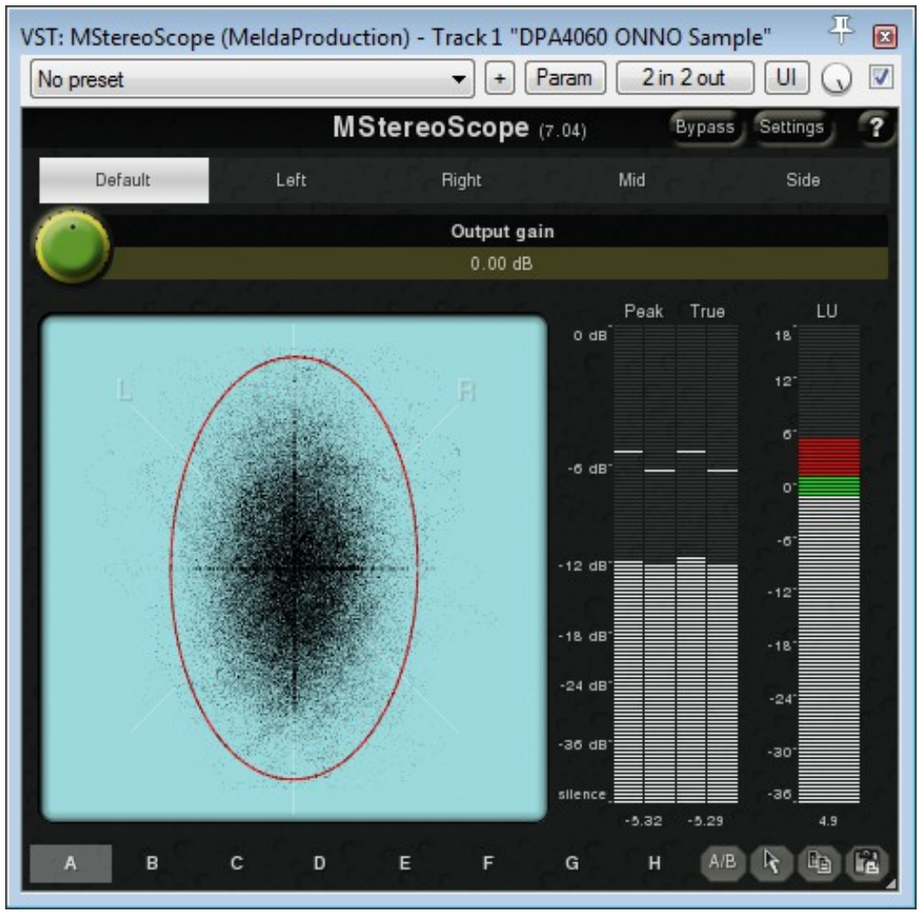


Klangfreund
LUFS Meter

Analysis & Metering Software

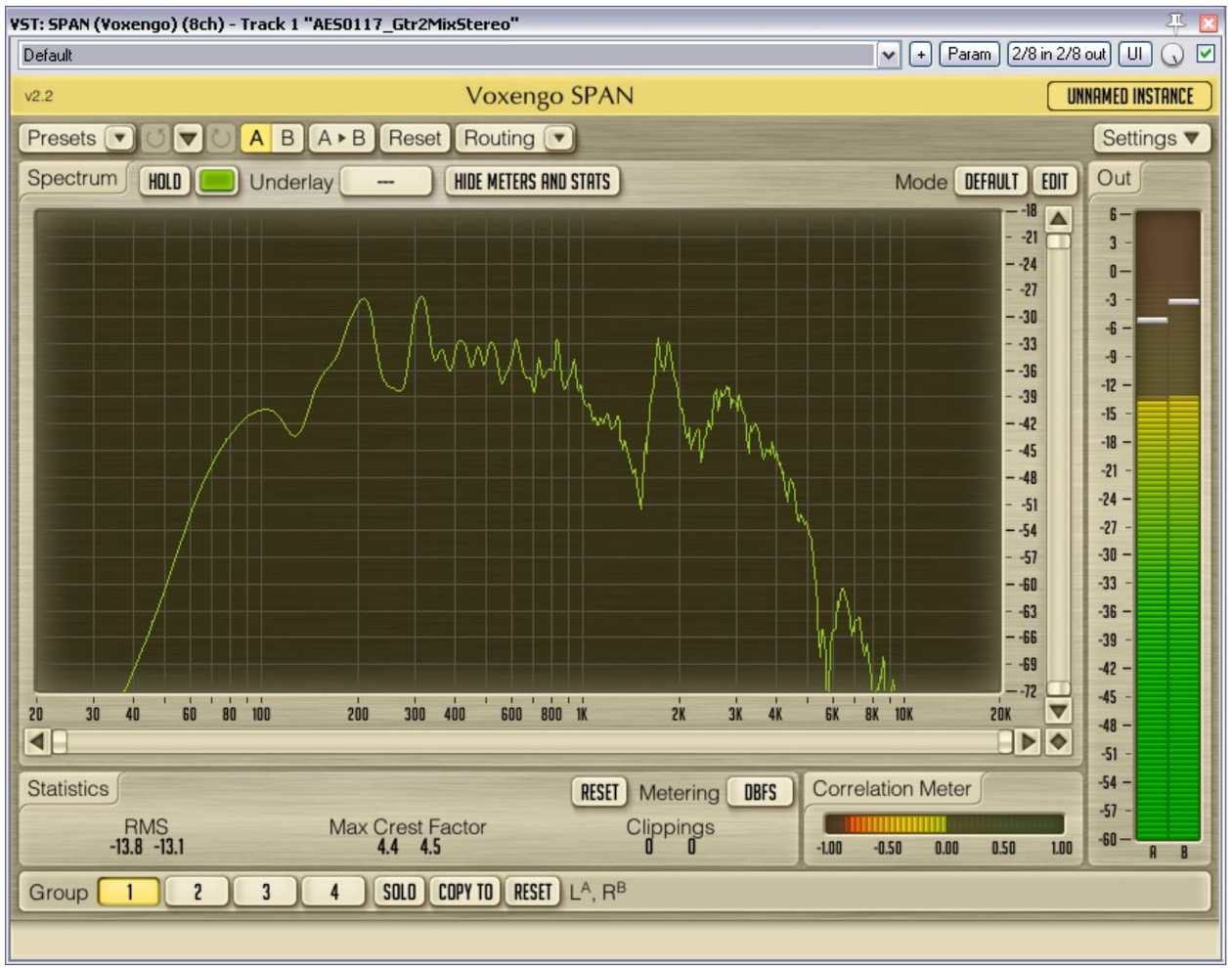
Flux Audio
Stereo Tool

Melda
StereoScope



Analysis & Metering Software

Voxengo SPAN

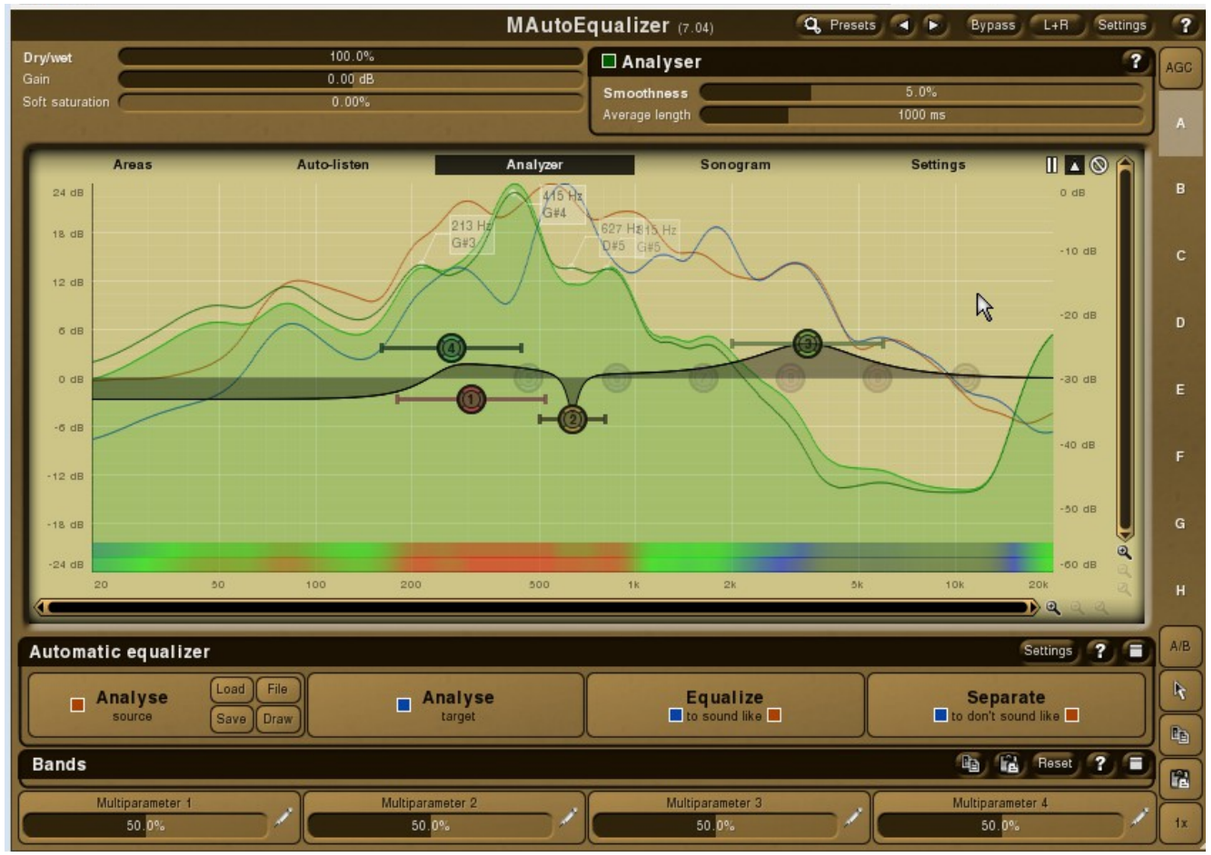


Melda MAnalyzer

Analysis & Metering Software

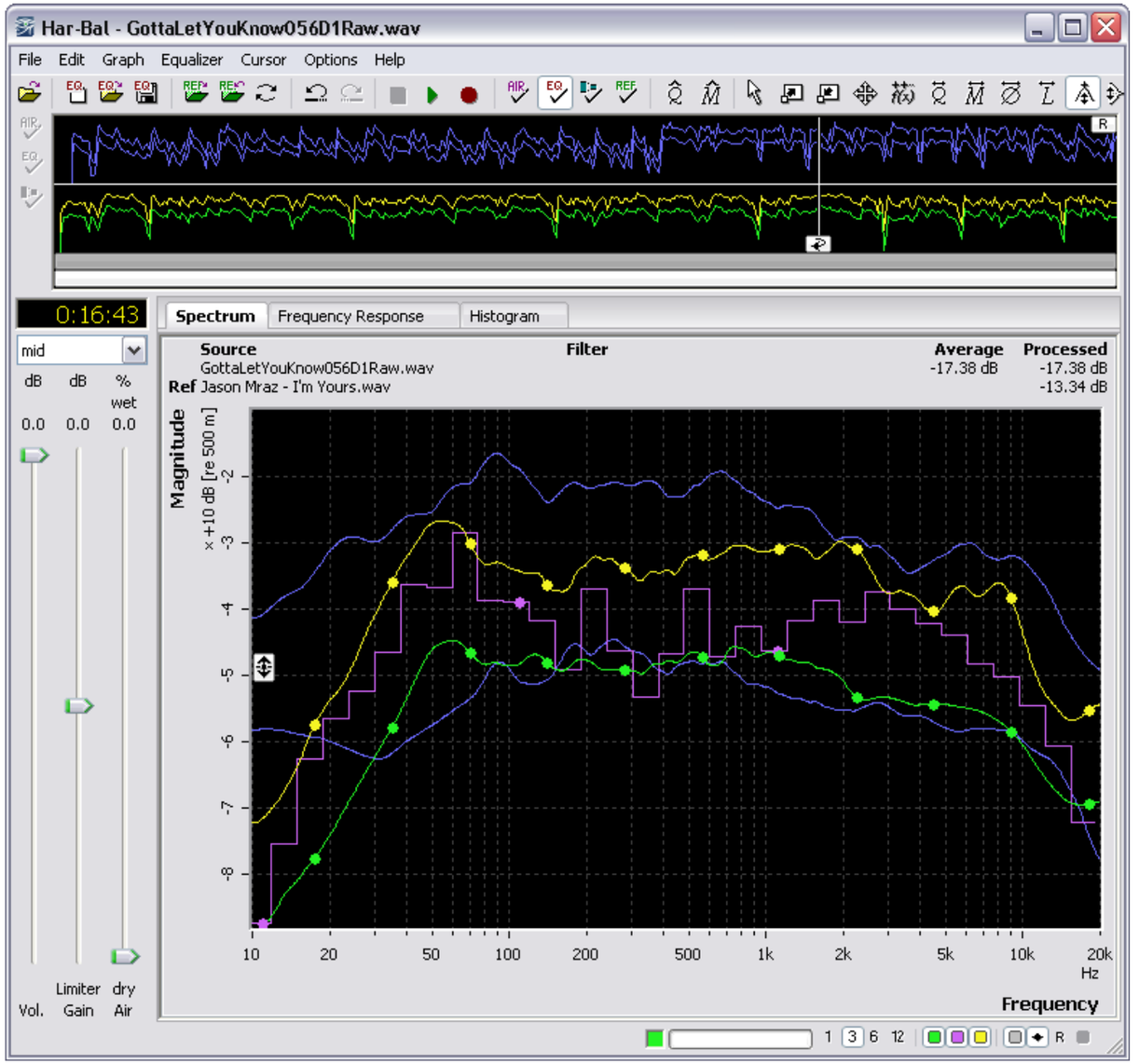
Voxengo Curve EQ

Melda MAutoEqualizer



Analysis & Metering Software

Harbal visual mastering software



Top Mixing Tips For Any DAW

1) Don't settle for defective phase.

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2) Get single-driver midrange monitoring.

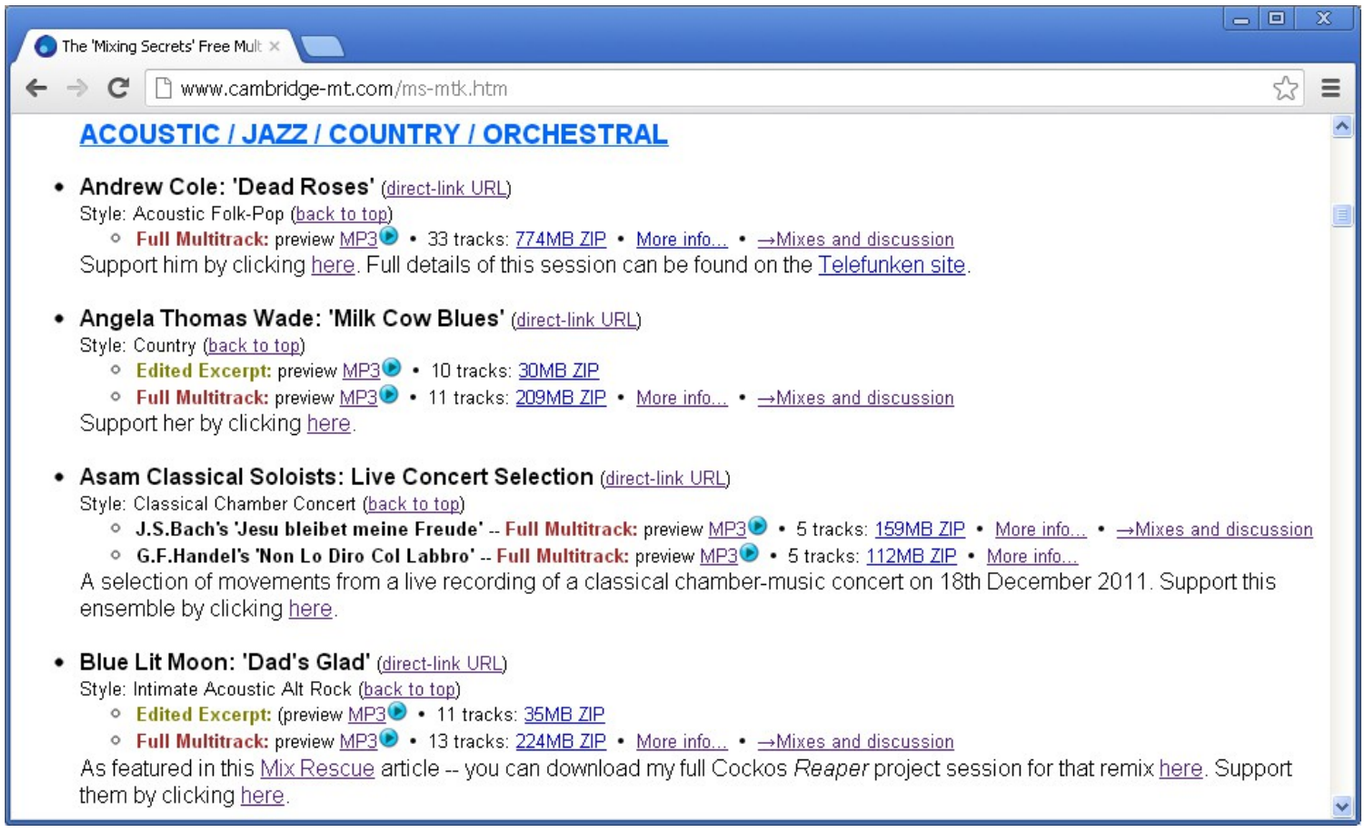
Top Mixing Tips For Any DAW

1) Don't settle for defective phase.

2) Get single-driver midrange monitoring.

3) Be disciplined with your mix referencing.

'Mixing Secrets' Free Multitrack Download Library: www.cambridge-mt.com/ms-mtk.htm



'Mixing Secrets' Seminar Resources Site: www.cambridge-mt.com/aes141-MixingSecrets.htm

- Download my seminar audio examples and slideshow.
- Plus supporting mix videos and lots of related further reading from *Sound On Sound*'s free online article archive.