

Cambridge
Music Technology

**Mixing Secrets:
Production Tricks to Use
with Any DAW**

www.cambridge-mt.com

Trumpet microphone



Trumpet microphone



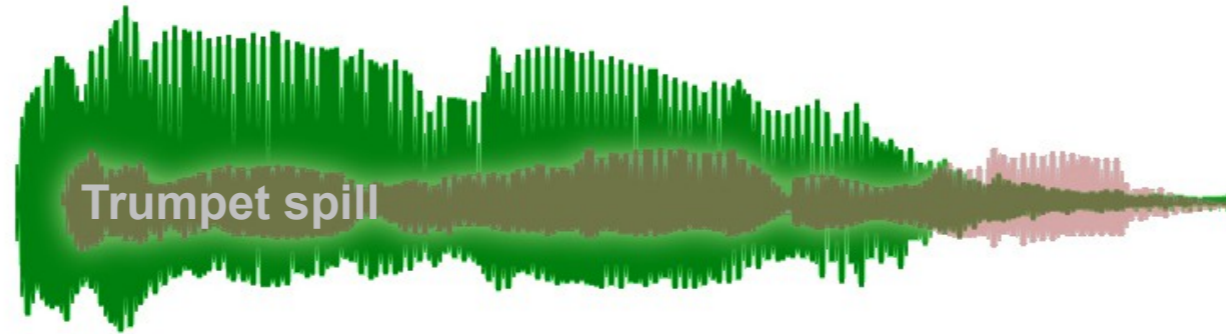
Saxophone microphone



Trumpet microphone



Saxophone microphone



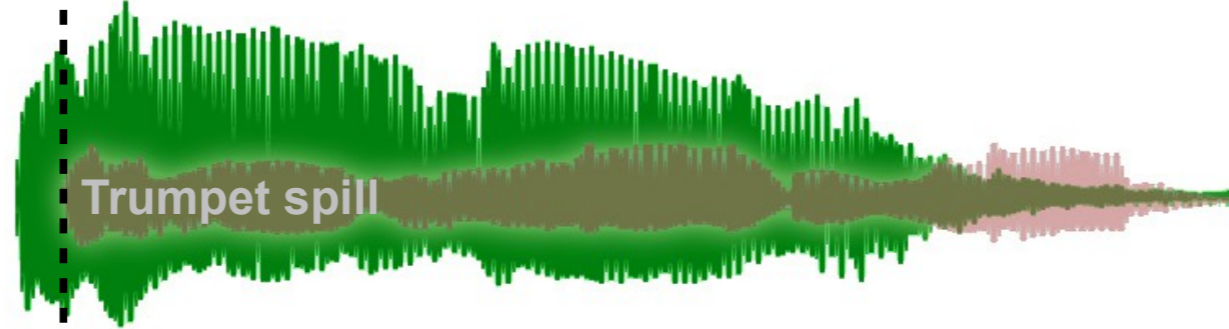
Trumpet spill

Trumpet microphone



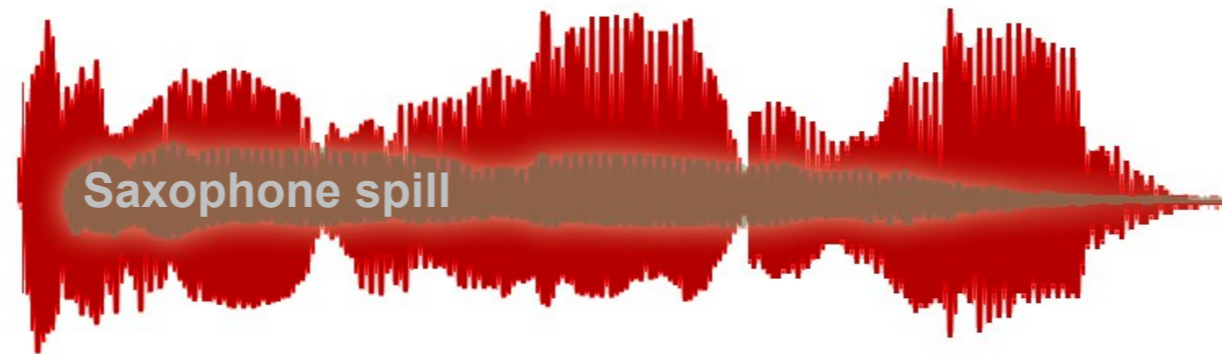
Trumpet
spill
delayed

Saxophone microphone

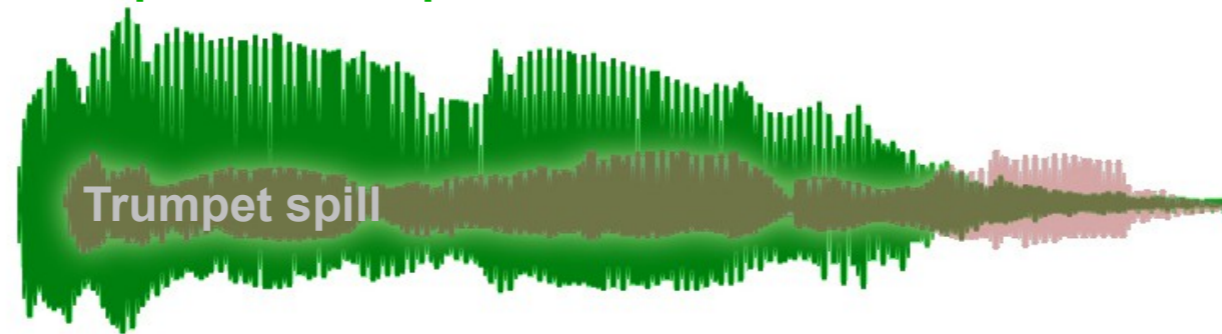


Trumpet spill

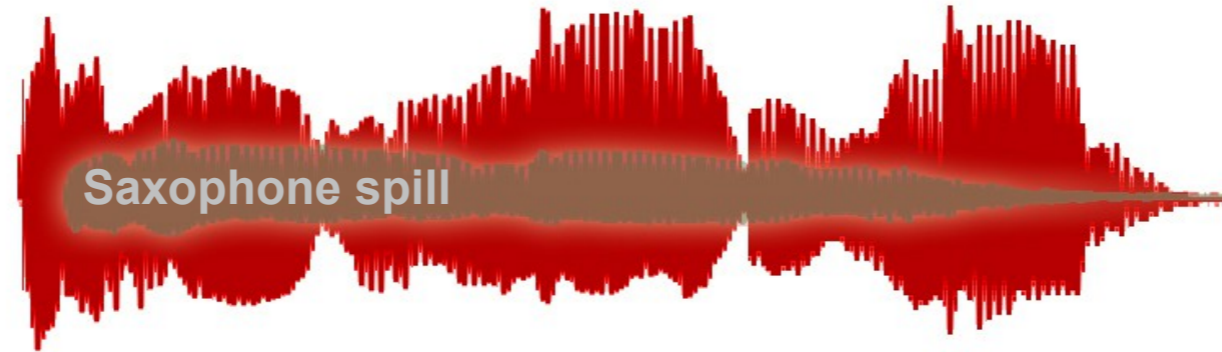
Trumpet microphone



Saxophone microphone

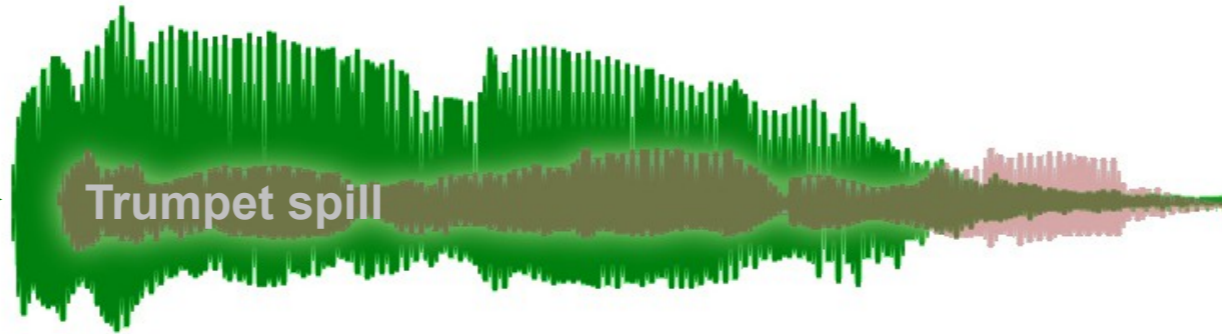


Trumpet microphone

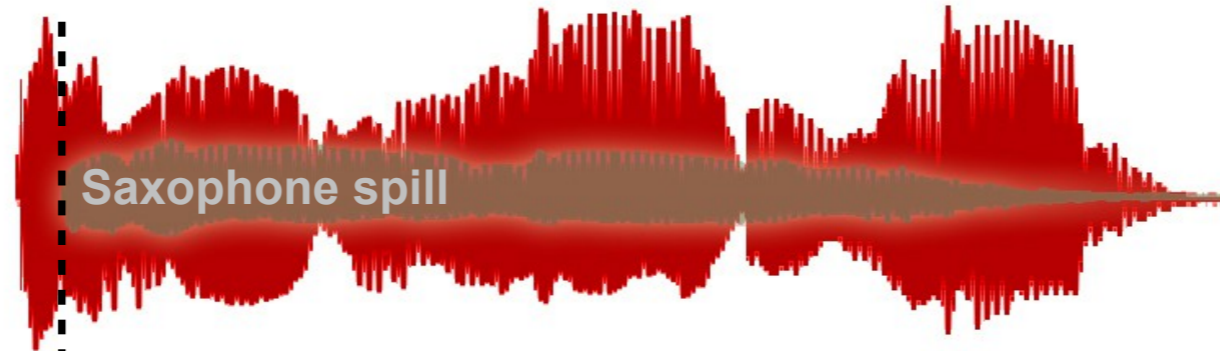


Saxophone microphone

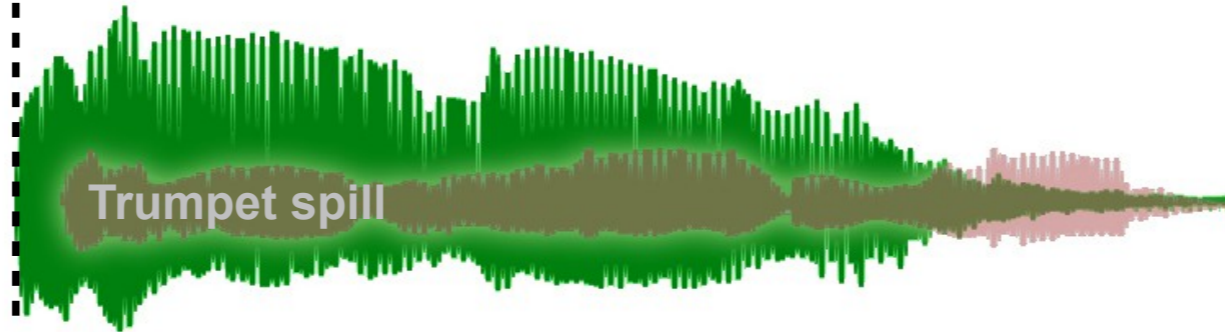
**Saxophone
signal
delayed**



Trumpet microphone



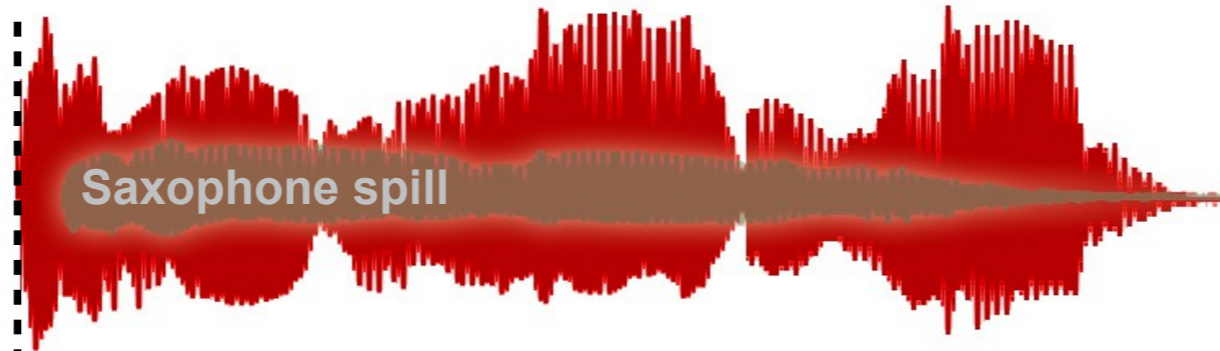
Saxophone microphone



**Saxophone
signal
delayed**

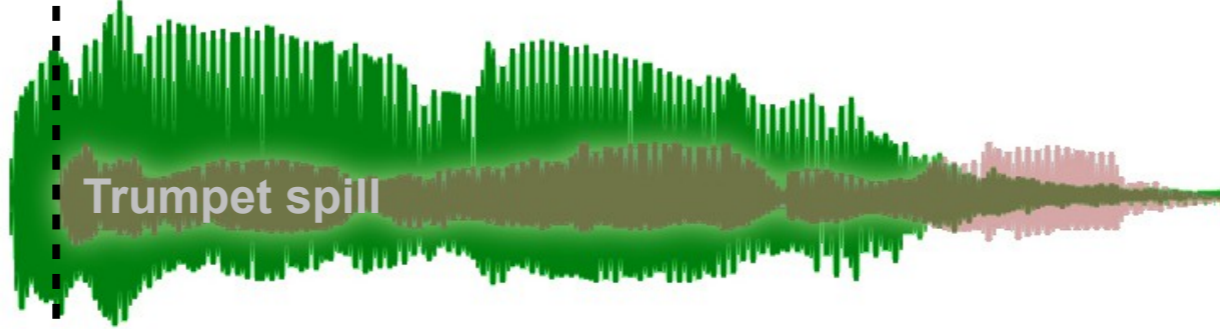


Trumpet microphone

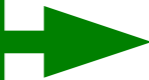


Trumpet spill
further delayed

Saxophone microphone

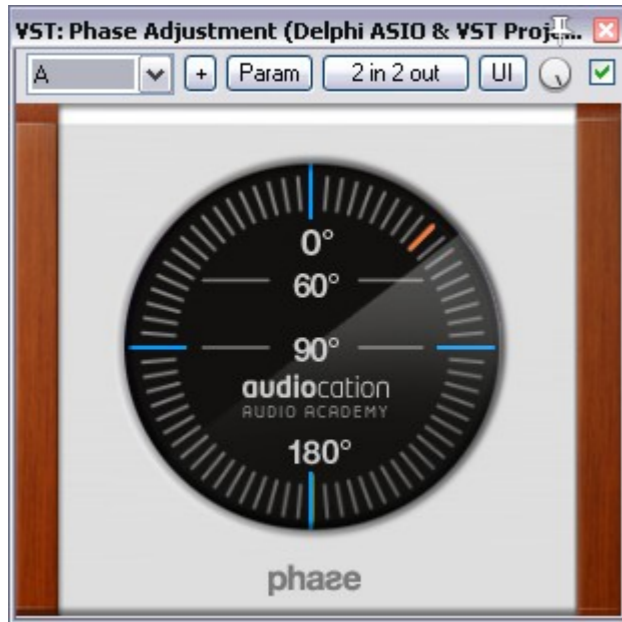


**Saxophone
signal
delayed**

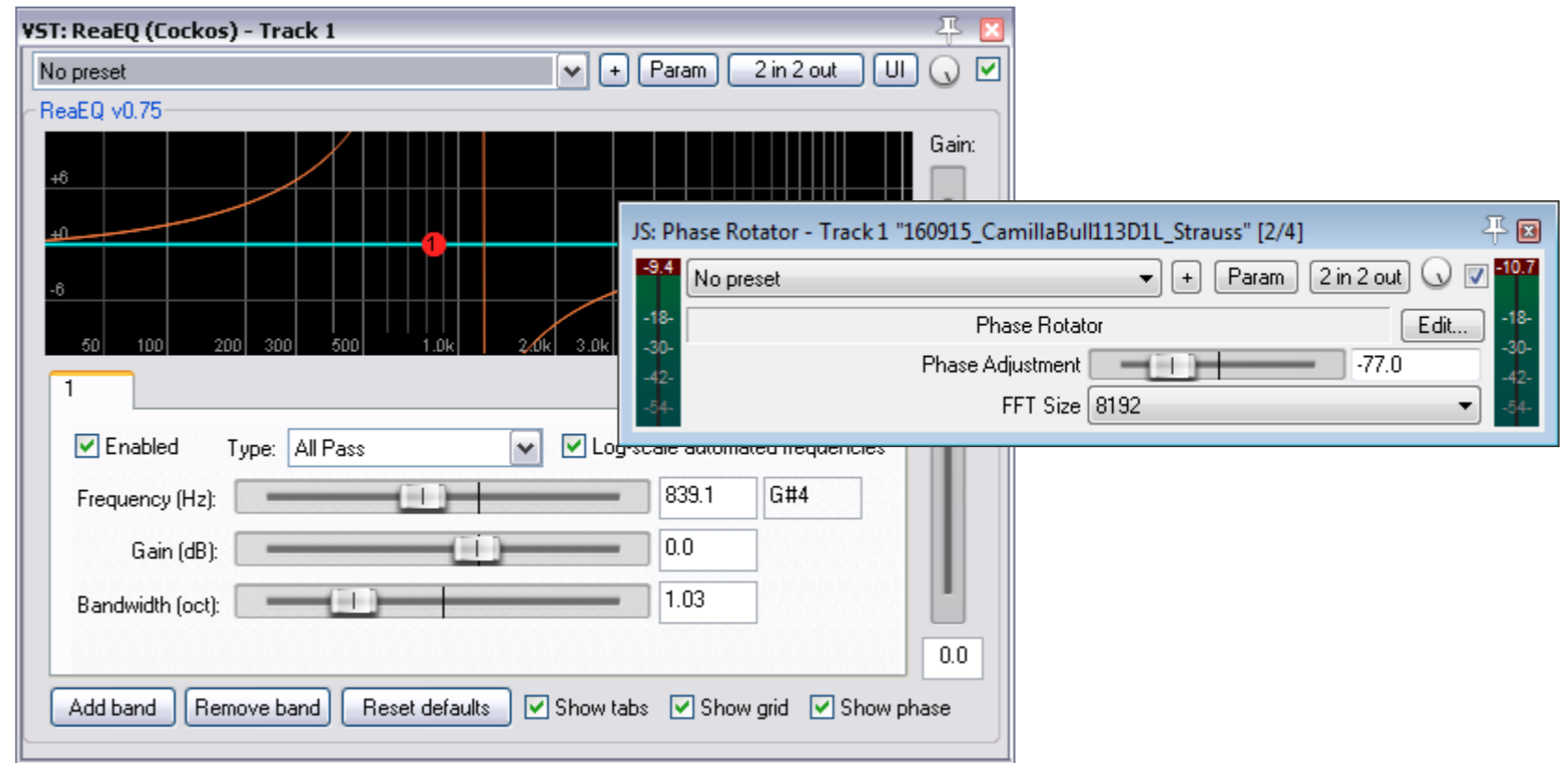


Specialist Phase Manipulators: PC Freeware (for 32-bit and 64-bit systems)

Audiocacion AP1

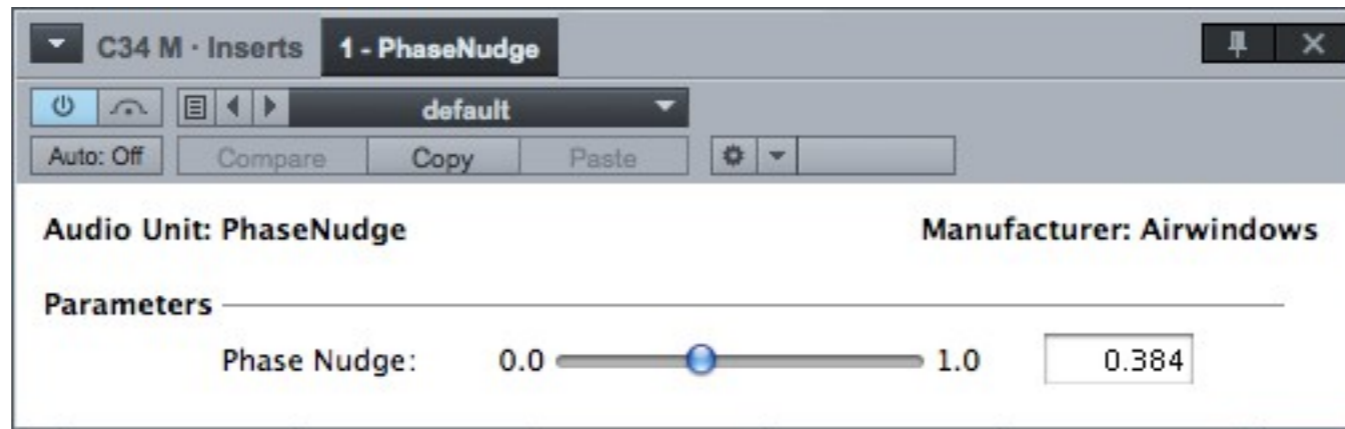


Cockos Reaplug: ReaEQ & JS Phase Rotator



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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- An uncritical selection process
- Choosing great music, not a great mix

Mix Referencing: Common Track-selection Mistakes

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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

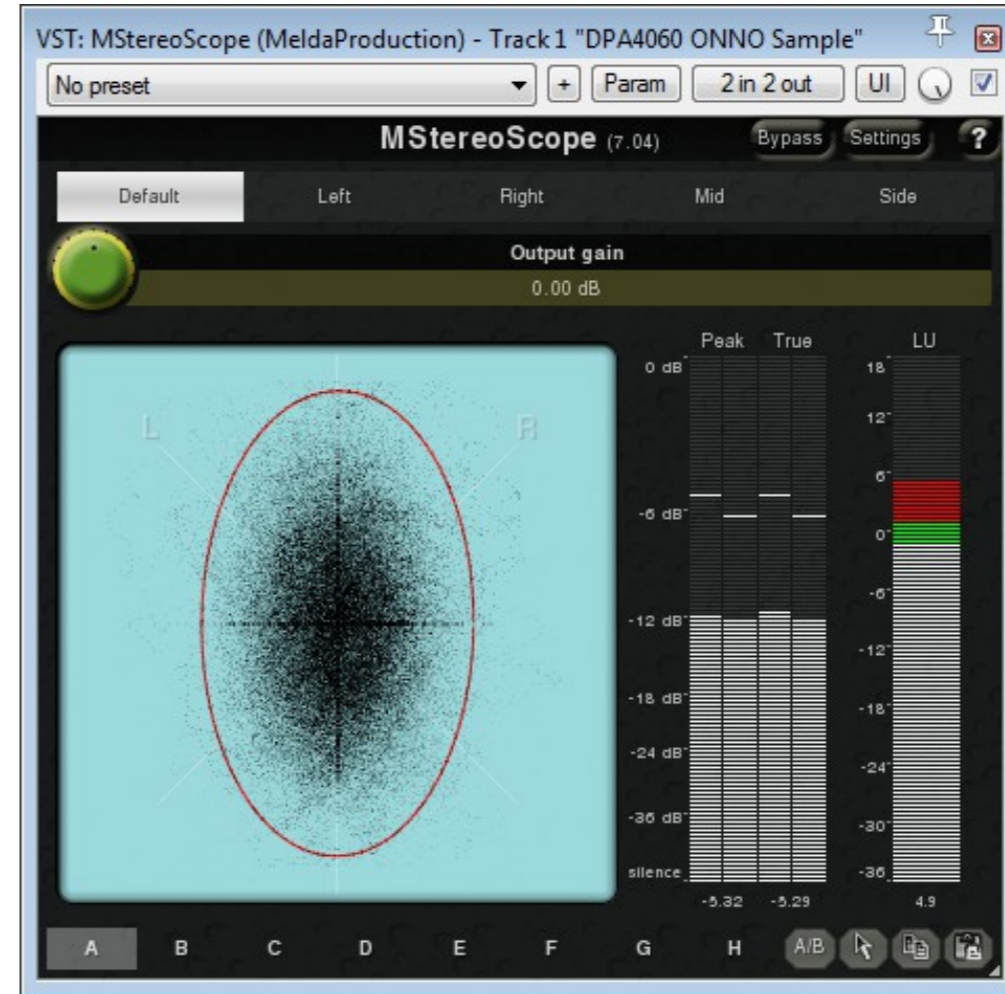


Analysis & Metering Software

Flux Audio
Stereo Tool



Melda
StereoScope

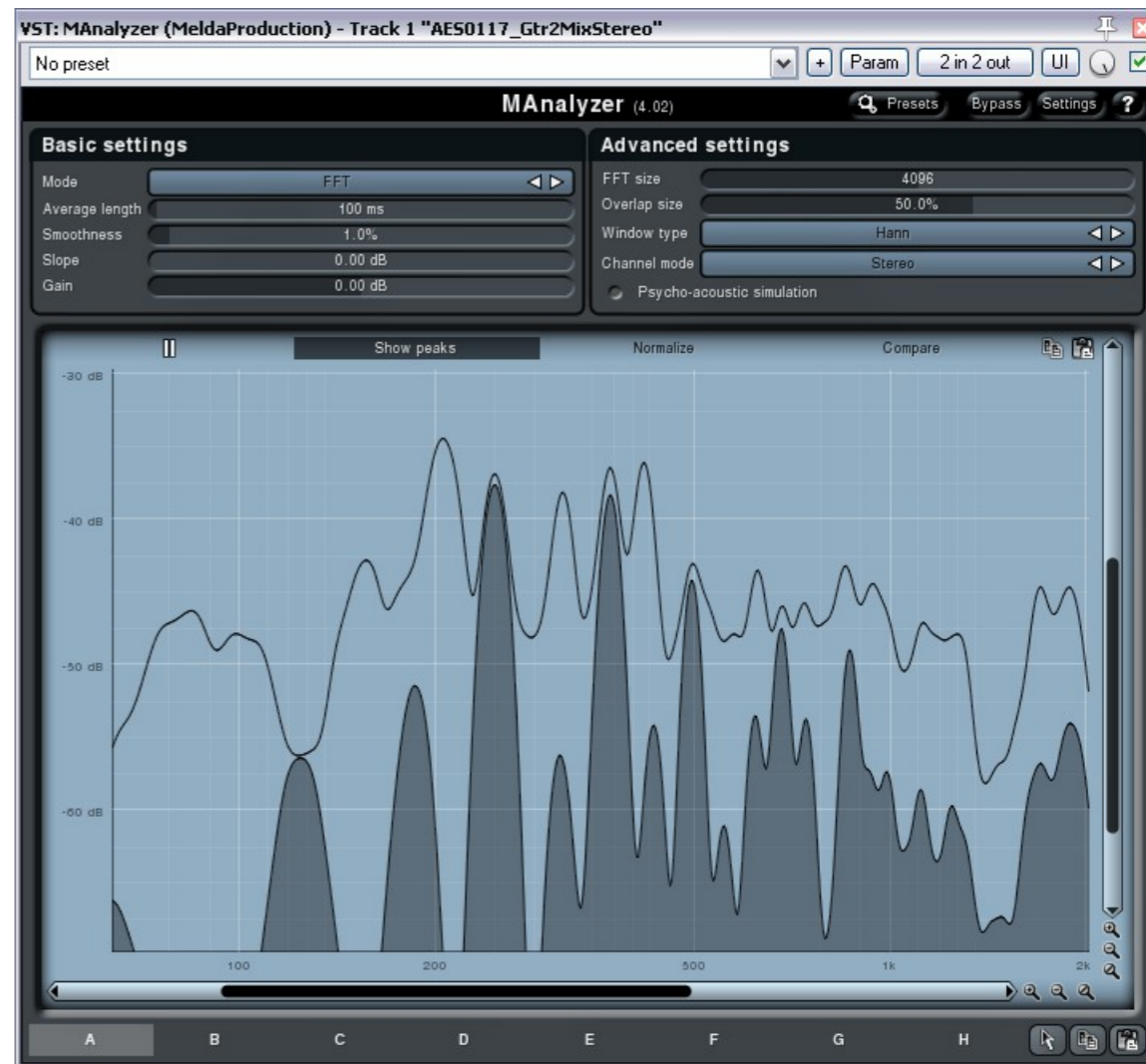


Analysis & Metering Software

Voxengo SPAN



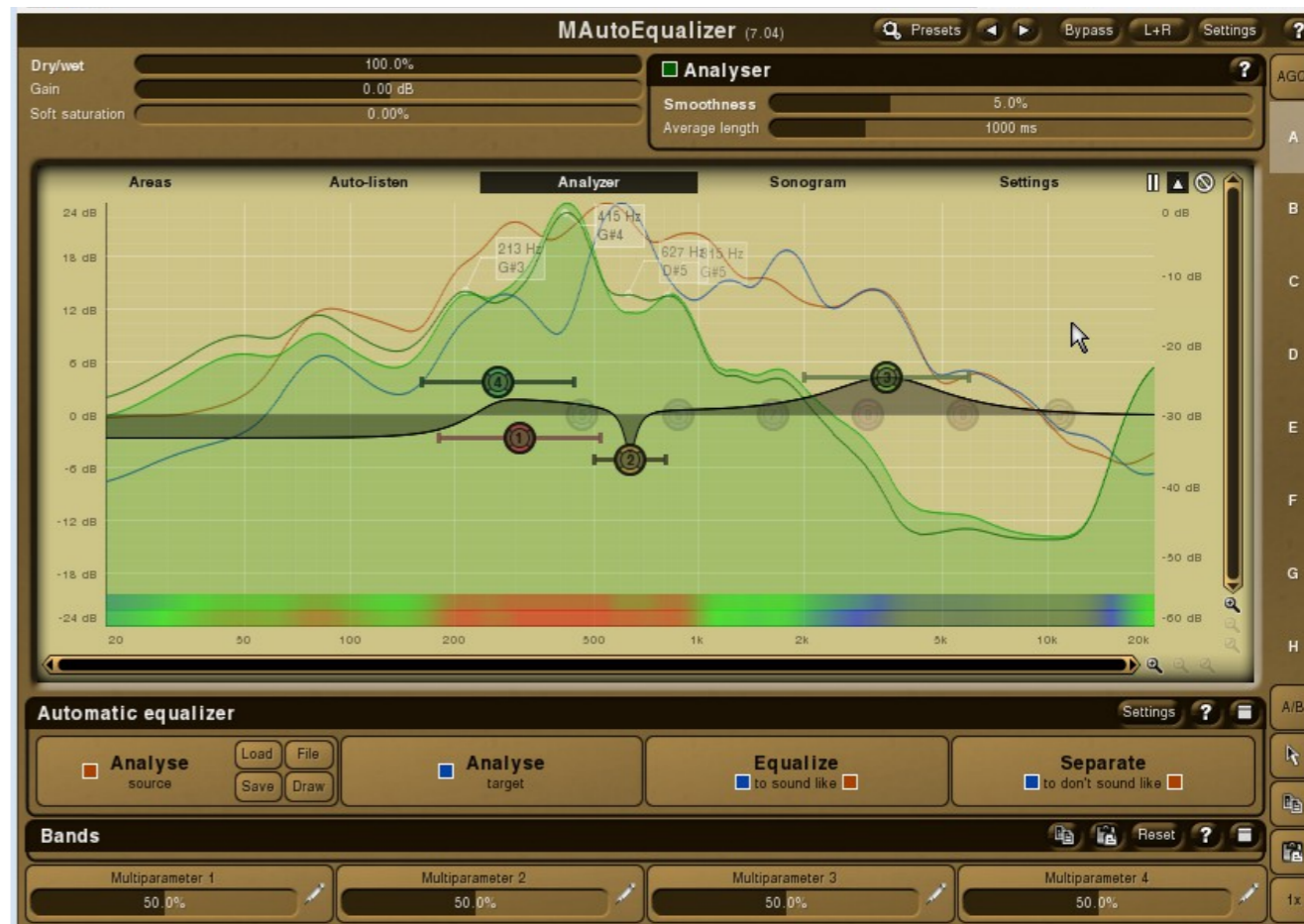
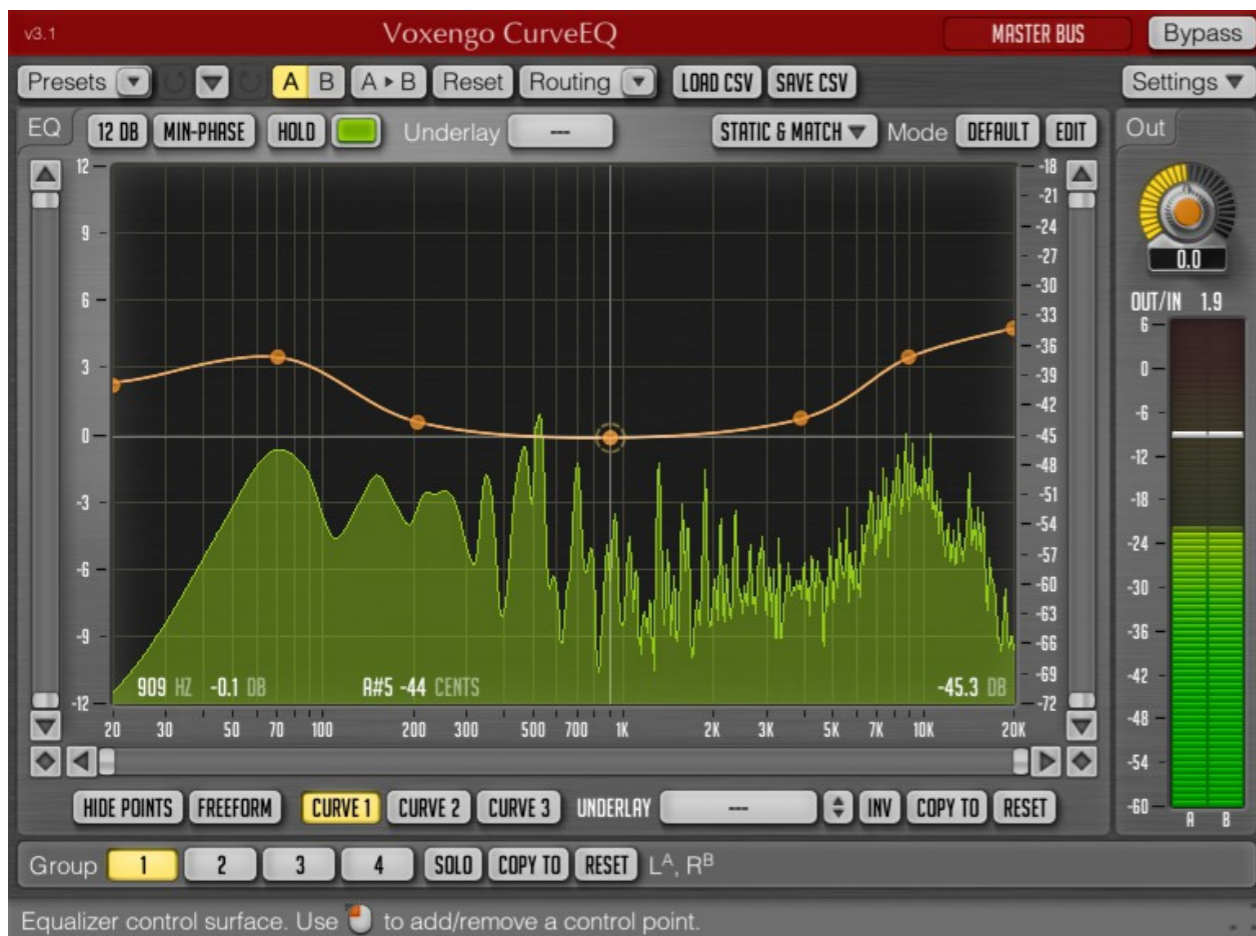
Melda MAnalyzer



Analysis & Metering Software

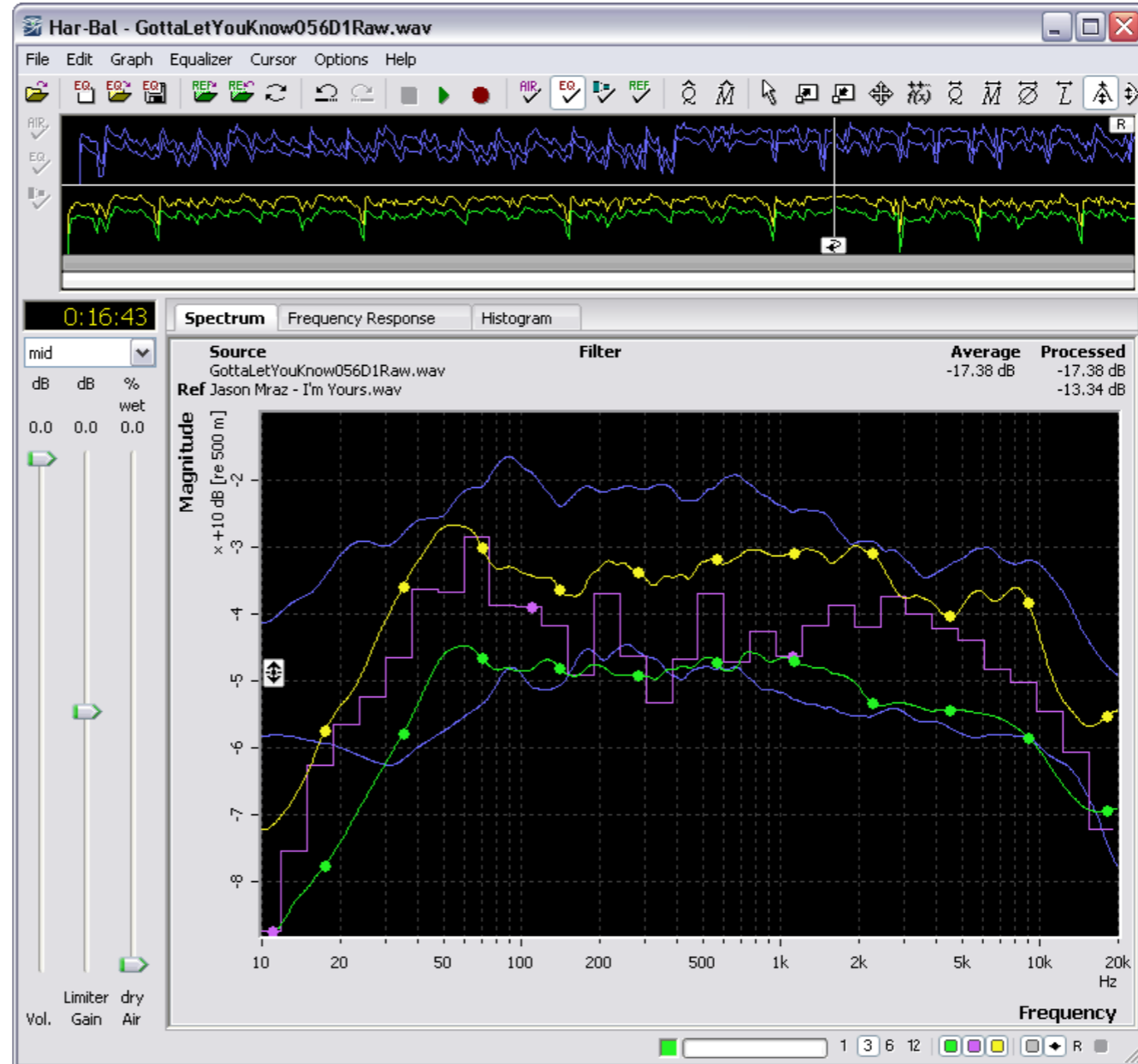
Voxengo Curve EQ

Melda MAutoEqualizer



Analysis & Metering Software

Harbal visual
mastering software



Top Mixing Tips For Any DAW

- 1) Don't settle for defective phase.

Top Mixing Tips For Any DAW

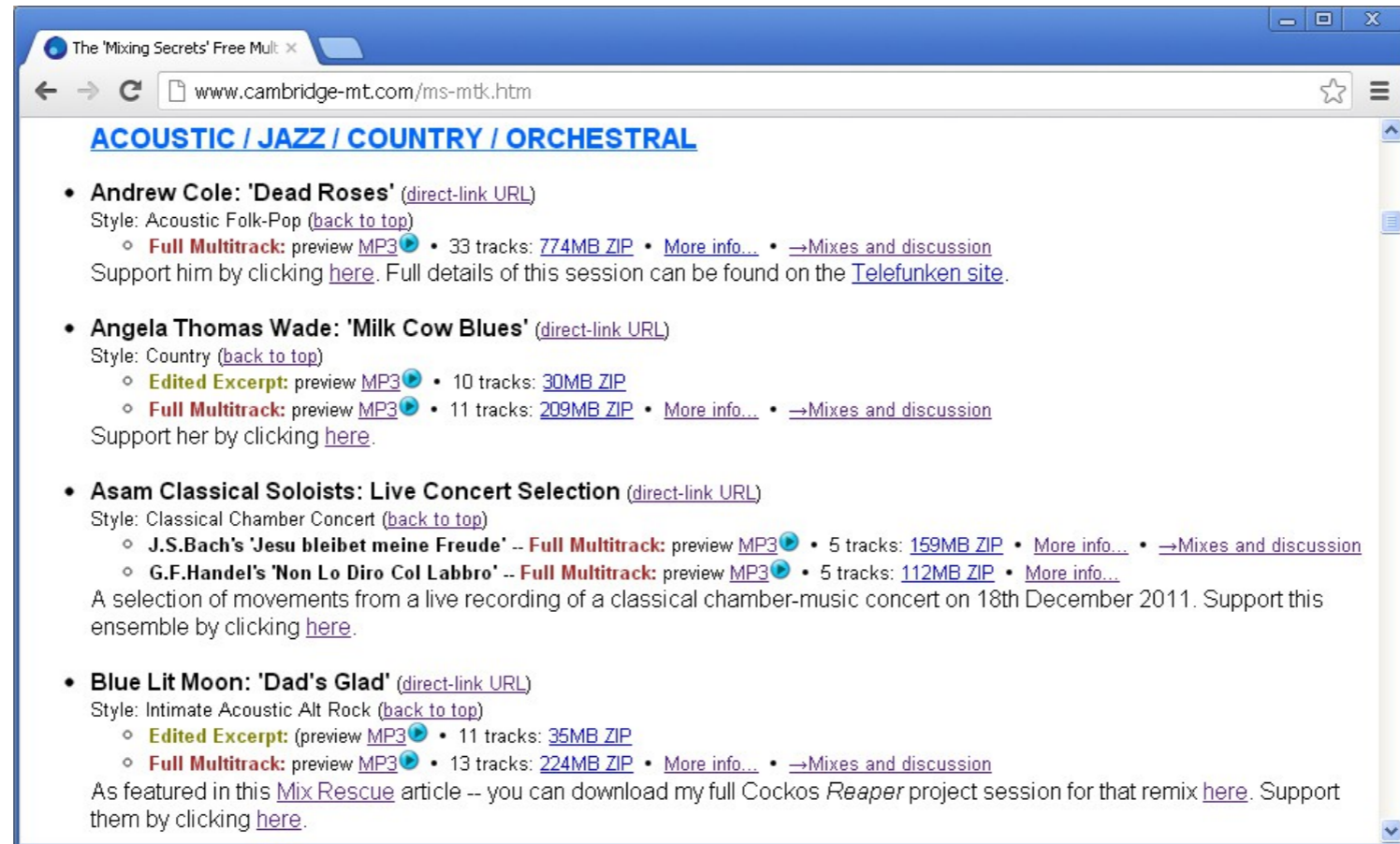
- 1) Don't settle for defective phase.
- 2) Get single-driver midrange monitoring.

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



The screenshot shows a web browser window with the address bar displaying www.cambridge-mt.com/ms-mtk.htm. The page content is categorized under **ACOUSTIC / JAZZ / COUNTRY / ORCHESTRAL** and lists several music projects:

- Andrew Cole: 'Dead Roses'** (direct-link URL)
Style: Acoustic Folk-Pop (back to top)
 - Full Multitrack: preview MP3 • 33 tracks: 774MB ZIP • More info... • →Mixes and discussionSupport him by clicking [here](#). Full details of this session can be found on the [Telefunken site](#).
- Angela Thomas Wade: 'Milk Cow Blues'** (direct-link URL)
Style: Country (back to top)
 - Edited Excerpt: preview MP3 • 10 tracks: 30MB ZIP
 - Full Multitrack: preview MP3 • 11 tracks: 209MB ZIP • More info... • →Mixes and discussionSupport her by clicking [here](#).
- Asam Classical Soloists: Live Concert Selection** (direct-link URL)
Style: Classical Chamber Concert (back to top)
 - J.S.Bach's 'Jesu bleibet meine Freude' -- Full Multitrack: preview MP3 • 5 tracks: 159MB ZIP • More info... • →Mixes and discussion
 - G.F.Handel's 'Non Lo Diro Col Labbro' -- Full Multitrack: preview MP3 • 5 tracks: 112MB ZIP • More info...A selection of movements from a live recording of a classical chamber-music concert on 18th December 2011. Support this ensemble by clicking [here](#).
- Blue Lit Moon: 'Dad's Glad'** (direct-link URL)
Style: Intimate Acoustic Alt Rock (back to top)
 - Edited Excerpt: (preview MP3 • 11 tracks: 35MB ZIP
 - Full Multitrack: preview MP3 • 13 tracks: 224MB ZIP • More info... • →Mixes and discussionAs featured in this [Mix Rescue](#) article -- you can download my full Cockos *Reaper* project session for that remix [here](#). Support them by clicking [here](#).

Google

multitrack library



'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.



The screenshot shows a web browser window with the URL www.cambridge-mt.com/aes141-MixingSecrets.htm. The navigation menu includes Home, Training+Advice, Studio Services, and About CMT. The main heading is "Project Studio Expo 2016 (AES 141st Convention) Supporting Resources For Download!". Below this is a paragraph of text: "This page contains various additional resources to support my Project Studio Expo seminar 'Mixing Secrets: Production Tricks To Use With Any DAW' at the 141st AES convention in Los Angeles in September 2016. This site also hosts a huge range of free [mixing](#) and [recording](#) resources relating to my books, including the ['Mixing Secrets' Free Multitrack Download Library](#) and the ['Recording Secrets' Library Of Microphone Positions](#). To stay up to date with the latest uploads to this site, sign up for my monthly ['Small-studio Secrets News'](#) mail-out -- and if you have any follow-up questions about the seminar or these resources, don't hesitate to [drop me a line!](#)"



The poster for the 141st International AES Convention features the AES logo (Audio Engineering Society) and the text "141ST INTERNATIONAL AES CONVENTION". The location is "Los Angeles Convention Center, Los Angeles, CA". The theme is "Immersed In Audio". The dates are "Convention: Thursday, Sept 29 – Sunday, Oct 2, 2016" and "Exhibits: Thursday, Sept 29 – Saturday, Oct 1, 2016". The background shows a city skyline at sunset.