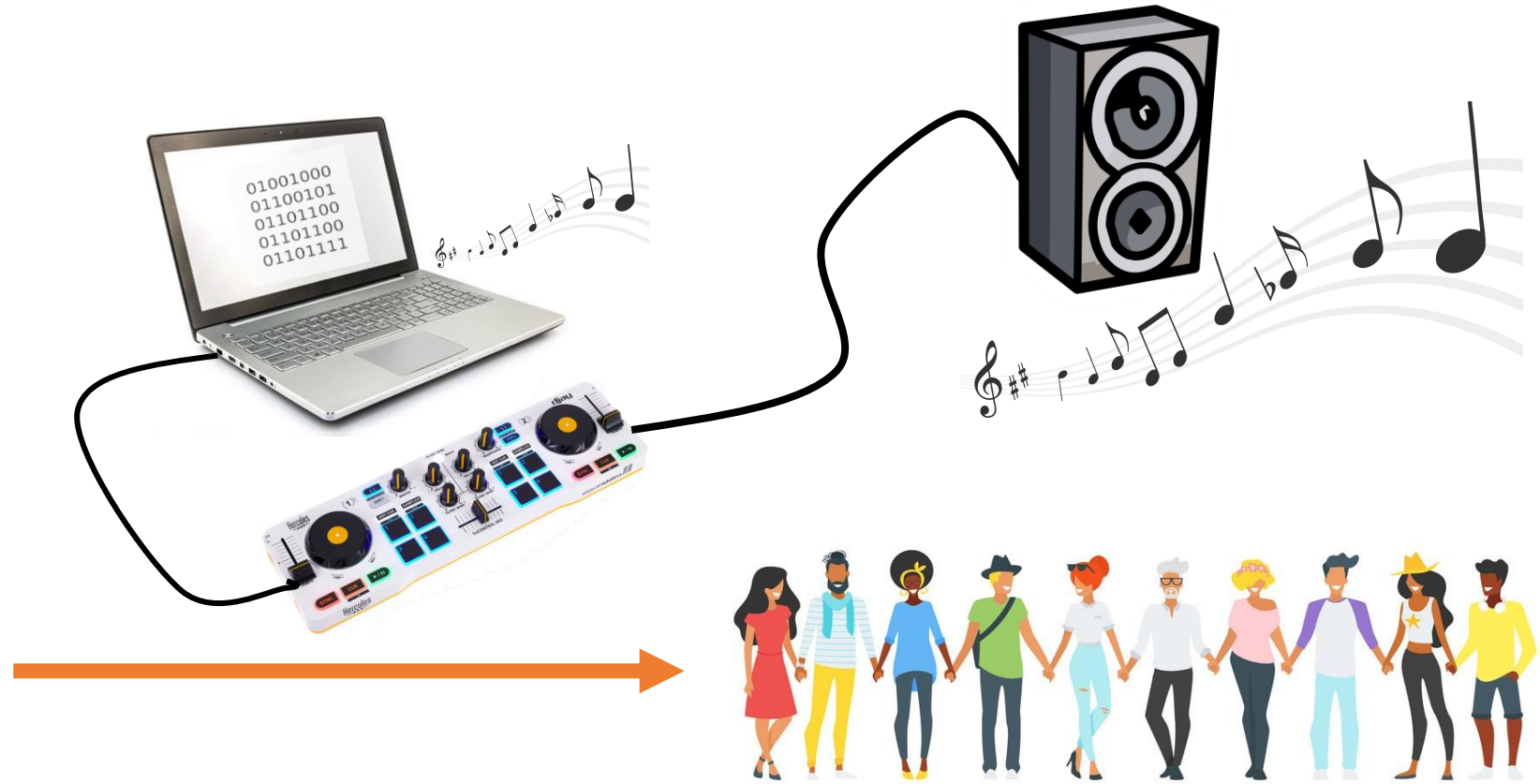


Module 5 DJ Training



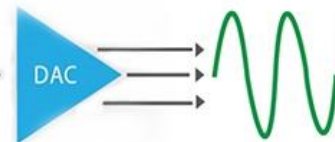
HEART OF THE DANCE

RECAP...



Digital Signal

001111010111



Analog Signal

Gain Stage

From Input



To Output

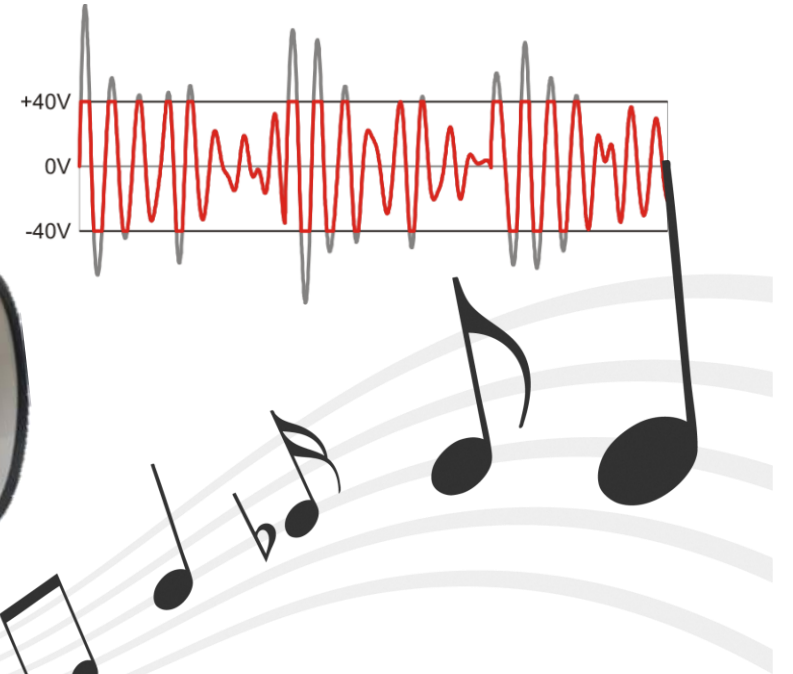
Gain Stage

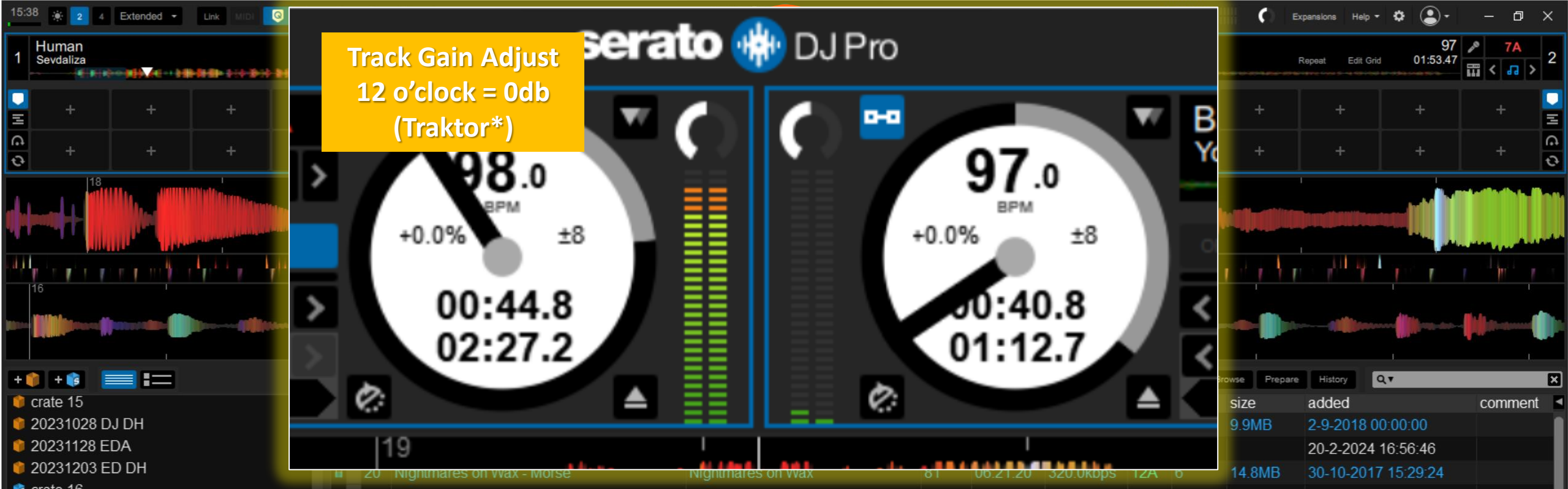


Gain Stages?

Points in your audio chain where you can change the level of volume of your sound.

First Gain Stage?





Where you want
the meters to hit

Headroom

Clipping



serato DJ Pro

Human Sevdaliza 98 BPM 03:12.04

Ballroom D Young Mozart 97.0 BPM 00:40.8

Master

12 o'clock = 0db
Red dot is Clipping (Traktor)

#	song	artist	bpm	length	bitrate	key	plays	size	added	comment
25	Mahk Jchi (Heartbeat Drum Song)	Robbie Robertson	71	04:17.65	320.0kbps	5A	6	9.9MB	2-9-2018 00:00:00	
10	Silky	Alex Figueira	80			8A	9		20-2-2024 16:56:46	
20	Nightmares on Wax - Morse	Nightmares on Wax	81	06:21.20	320.0kbps	12A	6	14.8MB	30-10-2017 15:29:24	

Where you want the meters to hit

Headroom

Clipping



15:38 2 4 Extended Link MIDI REC FX

1 Human Sevdaliza

Repeat

+

+

+

+

18

16

crate 15

#	
25	20231028 DJ DH
10	20231128 EDA
20	20231203 ED DH

serato DJPro

DJ Preferences Audio Library + Display Mixer FX MIDI Expansion Packs

CONTROL PREFERENCES

- Playback Keys Use Shift
- Lock Playing Deck
- Sort Cues and Loops Ch
- Enable Hot Cues
- Track End Warning
- Disable Needle Search During Playback
- Show Beat Jump Controls
- Replace Primary Hardware Pad Mode with Stems

Quantize Value **1 Beat**

ON SONG LOAD

- Play from Start
- Play from First Cue Point
- Instant Doubles
- Turn off FX
- Analyze Stems [Find out more](#)

VIRTUAL DECK SPEED

- 33 RPM
- 45 RPM

RECORDING

Bit Depth 16 Bit 24 Bit

File Format AIFF WAV

SYNC MODE

- Sync Off
- Simple Sync
First sync press matches BPM and transients or beatgrids
- Smart Sync
First sync press sets Master deck

SYNC PREFERENCES

- Snap to Beatgrid
- Maintain Sync on Track Load

Use Auto Gain **92 dB**

Expansions Help

Repeat Edit Grid 97 01:53.47 7A 2

+

+

+

+

18

16

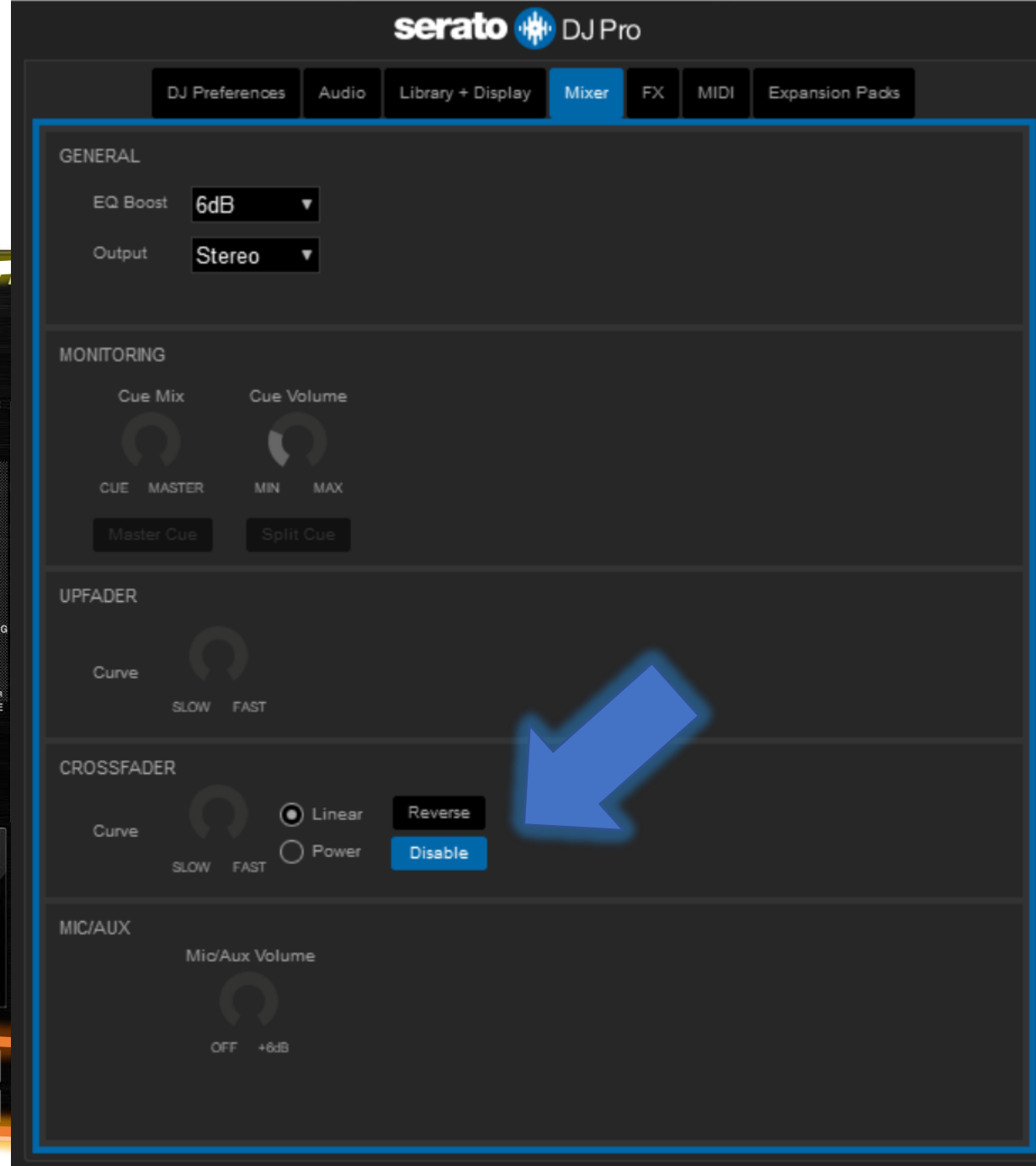
Files Browse Prepare History

plays	size	added	comment
6	9.9MB	2-9-2018 00:00:00	
9		20-2-2024 16:56:46	
6	14.8MB	30-10-2017 15:29:24	

Gain Stages

1. Each gain stage has a maximum value
2. If you go over the max it **clips**. Clipping leads to distortion and can damage the speakers.
3. The distance between your signal and the max is called **headroom**







Pioneer DJ

serato



INST. DOUBLES
LOAD
BPM
DECK1 DECK3 PHONO/ LINE

INST. DOUBLES
LOAD
ARTIST
DECK2 DECK4 PHONO/ LINE

TRIM
MIN HI MAX

TRIM
MIN HI MAX

MASTER LEVEL
-∞ 0 ∞

MASTER LEVEL
-∞ 0 ∞

BOOTH MONITOR
-∞ 0 ∞

BOOTH MONITOR
-∞ 0 ∞

HEADPHONES MIXING
-∞ 0 ∞

HEADPHONES MIXING
-∞ 0 ∞

SAMPLER VOLUME
CUE MASTER
-∞ 0 ∞

SAMPLER VOLUME
CUE MASTER
-∞ 0 ∞

FILTER
LPF HPF

FILTER
LPF HPF

LEVEL
CH 1 MASTER CH 2

LEVEL
CH 1 MASTER CH 2

CH FADER START

CH FADER START

PERFORMANCE DJ CONTROLLER

DDJ-SF10

PERFORMANCE DJ CONTROLLER

DDJ-SF10





LET'S GAIN STAGE



1. Start with the gains turned all the way down. Now power everything on.
2. **Input Trim / Gain:** Play a track at a loud point and set the input gain on each channel so the volume is at 0dB, which is usually the top green LED on your channel output meters (see image below). Louder peaks like bass drums and snares will hit the yellow LEDs on your channel meter. Make sure your channel meters do not hit the red LEDs.
3. Set the **channel output faders** all the way to the top
4. Set the **master output gain** also to 0dB (top green LED). Again, make sure the peaks hit the yellow and not the red LEDs on the master output meters.

LET'S GAIN STAGE



1. Start with the gains turned all the way down. Now power everything on.
2. **Input Trim / Gain:** Play a track at a loud point and set the input gain on each channel so the volume is at 0dB, which is usually the top green LED on your channel output meters (see image below). Louder peaks like bass drums and snares will hit the yellow LEDs on your channel meter. Make sure your channel meters do not hit the red LEDs.
3. Set the **channel output faders** all the way to the top
4. Set the **master output gain** also to 0dB (top green LED). Again, make sure the peaks hit the yellow and not the red LEDs on the master output meters.
5. **If you have a mixer repeat steps above. Then to the speakers...**
6. **Set the speaker gain to 0dB.** Some PA speakers have LED meters, if not slowly turn up the volume gain until the 'clip/limit light' turns on, then slowly turn the gain down until the clip light no longer turns on.

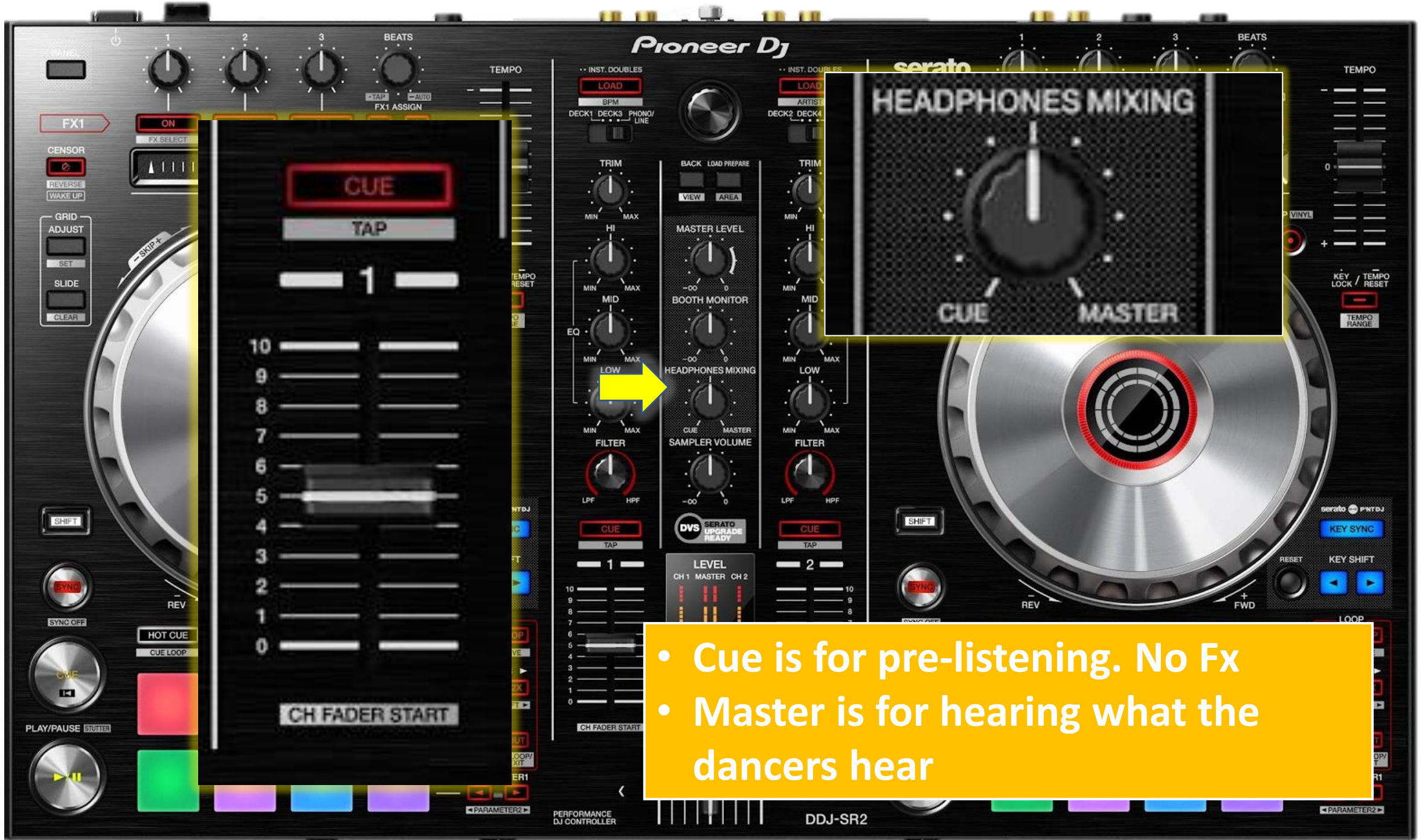
Gain Stage



DJ headphones

And Prelistening





- Cue is for pre-listening. No Fx
- Master is for hearing what the dancers hear





Tech-savvy
Creator

Musician
/ Artist

Conscious
DJ

Facilitator
of Change
(Shaman, Doula)