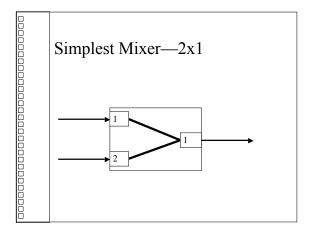


Definition

- v Combines 2 or more inputs into 1 or more outputs
- v Separate volume control of each input
- v Separate volume control of each output



Mixer Types-Recording

- Tracks often pass straight through during recording
- v 1 Mic goes to 1 output
- v Often called "tracking" consoles

Mixer Types-Mixdown Vany tracks, usually 2 outputs Van be mode on recording console Vautomation commonly used and is getting cheaper

Mixer Types-Live

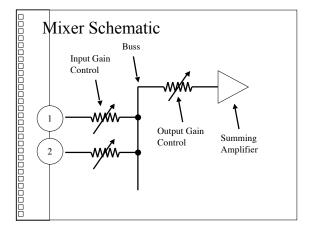
- v Many inputs, fewer outputs
- v Audio routed into "groups"
- v Groups routed to mains

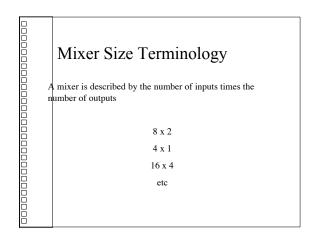
Mixer Types--Monitor

- v Many outputs, many inputs
- v Many modern consoles can do both

Physical/Electronic Relationship

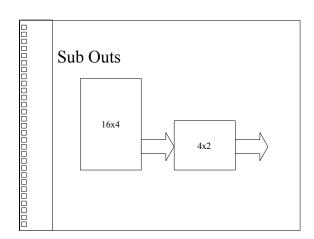
- v In an analog mixer, channel strip models signal flow
- In a digital mixer, all audio is processed digitally and the control surface is just control (no audio)

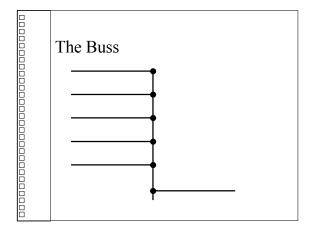




Compound Mixers

Many mixer consist of multiple mixers arranged in series



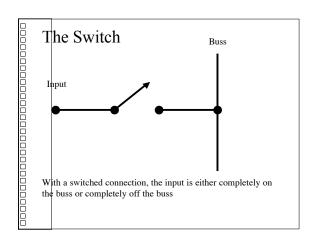


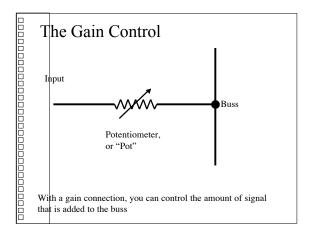
The Buss Explained

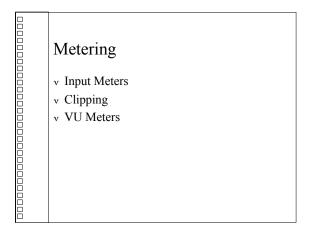
- Each Output has its own buss
- Each Input is allowed access to each buss
- In some cases, there are specific inputs with limited buss access

Two ways of assigning to the
Buss

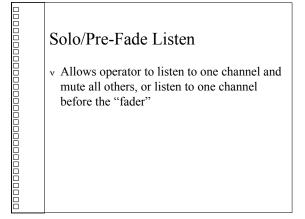
v The Switch
v The Gain Control

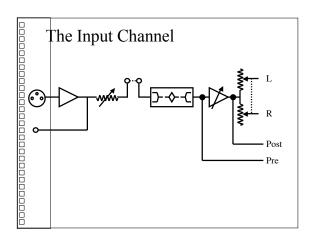


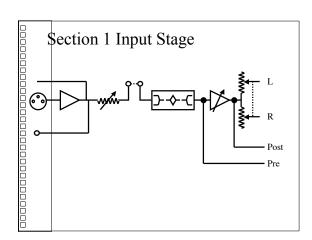


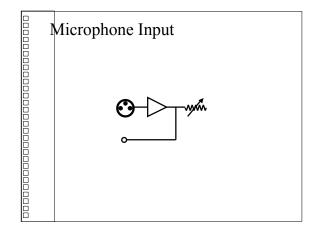


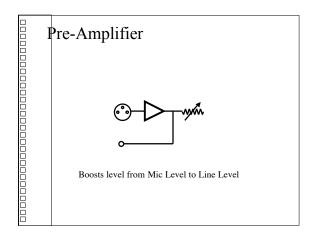
Mute v Leaves all settings intact, but "mutes" sound

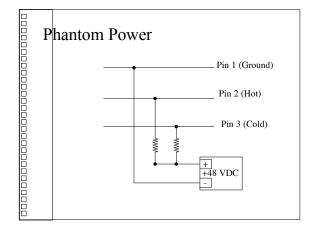


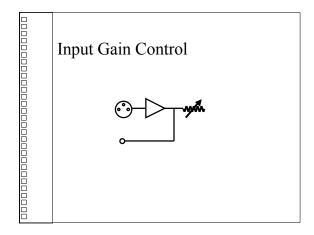


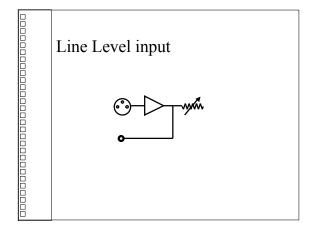


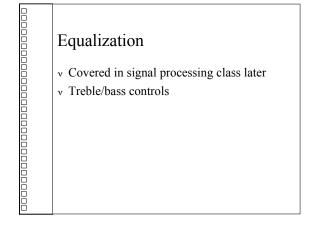




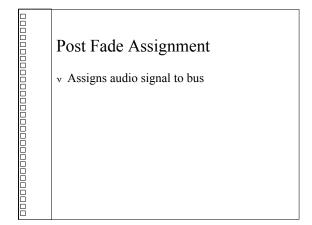








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Pan Control

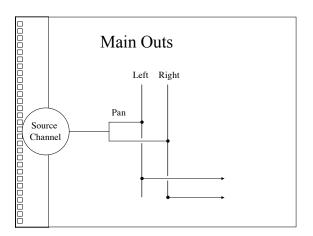
Like "Panorama", allows sounds to be placed left/right in stereo field

Types of Outputs

- v Main
- v Sub Mixes
- v Auxiliary Mixes
- v Direct Outs
- v Matrix

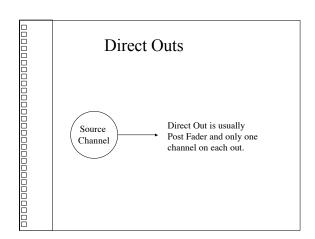
Remember, an Out is an Out is an Out

- v Do not get mislead by nomenclature.
- $_{\nu}\,$ Determine the appropriate out by the signal path and required gain stages.

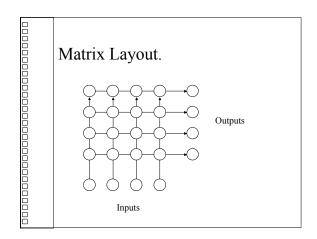


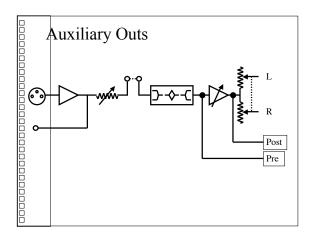
Main Outs

- $_{\nu}\,$ Fed from a buss
- v Switched



Matrix Outs v Types of outputs that have an array of individual controls. v Maximum control, but requires more adjustments, harder operate.





Aux Out—Used to feed: v Monitors v Effects (reverb, etc) v Backstage monitoring v Broadcast Mixes v Etc.

Aux Outs Pre/Post Fade

- $_{
 m V}$ Pre-Fade—Before the fader, aux level set no matter where the faders are
- Post-Fade—After the fader, aux level set dependent on level set by faders