

Tiptop Audio – MIXZ

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Tiptop Audio MIXZ – using it for melodic components

The attached manual is for the **Tiptop Audio MIXZ**, a **dual 4-channel analog mixer** with optional **Tiptop Bus Mix** integration. By itself, MIXZ is not a sound source, oscillator, filter, envelope, or sequencer. So it does **not generate melody directly**. Its role in a melodic patch is to **combine, scale, layer, and route melodic signals**: audio, CV, and gates.

That said, it can be extremely useful in building melodic voices and arrangements when paired with oscillators, filters, envelopes, sequencers, and effects.

What the module does

From the manual, MIXZ has three related mixing functions:

- **Mixer A**
 - 4 input channels
 - individual gain control per channel
 - output is **internally routed into Mixer B**
- inserting a cable into **Out A** breaks that internal connection
- **Mixer B**
 - 4 input channels

- master gain control
- sums:
 - its 4 front-panel inputs
 - **Mixer A output** if Out A is unpatched
 - **Tiptop Bus Mix** if enabled
- **Bus Mix**
 - takes signals from Tiptop modules that support Bus Mix via the busboard
 - switched on/off with the BUS MIX toggle
 - internally feeds Mixer B

The manual also notes MIXZ is designed to mix **audio, CV, and gate signals**, which is important for melodic patching.

How MIXZ helps create melodic material

1. Layer multiple oscillators into one melodic voice

A classic melodic use is to combine multiple VCOs into a richer lead, bass, or drone.

Patch idea

- VCO 1 saw → **Mixer A In 1**
- VCO 2 pulse → **Mixer A In 2**
- Sub oscillator or noise texture → **Mixer A In 3**
- Another harmonic source / FM tone → **Mixer A In 4**
- **Mixer A Out** → filter → VCA → effects

Why this is useful

Mixer A has per-channel gain, so you can: - set oscillator balance - bring in detuned layers - create thicker unison leads - blend different waveforms for timbral motion

This is probably the most straightforward way MIXZ supports melody: it helps make a single melodic line sound bigger and more expressive.

2. Use Mixer A as a pre-filter voice combiner, Mixer B as a final melodic submix

Because **Mixer A can feed Mixer B internally**, you can structure a patch in stages.

Example melodic structure

- **Mixer A** = raw oscillator blend for one voice
- Send **Mixer A Out** into a filter/VCA chain
- Filter/VCA output → **Mixer B In 1**
- Second melodic voice → **Mixer B In 2**
- Delay/reverb return or texture layer → **Mixer B In 3**
- Accent/gate-derived click/percussion tone → **Mixer B In 4**
- **Mixer B Out** → output or stereo processor

This lets you build: - a main melody voice - a counterline or drone - a supporting harmonic texture - all in one compact mixer workflow

3. Mix pitch CV sources for transposition and melodic variation

Since the manual explicitly says MIXZ can mix **CV**, one powerful use is **combining control voltages** before they reach an oscillator's 1V/oct or FM input.

Example uses

- sequencer pitch CV + keyboard transpose CV
- sequencer pitch CV + slow offset/automation
- quantized melody + subtle vibrato CV
- envelope + LFO into FM amount control

Important note

MIXZ is a plain mixer, not a precision adder. So: - it is great for **creative CV blending** - it may be less ideal for highly accurate pitch addition over wide ranges

Still, for: - transposition by ear - controlled drift - vibrato depth blending - modulation sums

...it can be very musical.

Example patch

- Main sequencer CV → **Mixer A In 1**
- Manual offset voltage → **Mixer A In 2**
- Slow LFO (very low level) → **Mixer A In 3**
- **Mixer A Out** → oscillator pitch input

This creates a melody that can be: - transposed - gently animated - made less static

4. Blend modulation sources to shape melodic timbre

Melodic interest often comes more from **motion** than from pitch alone. MIXZ can combine several modulation sources before sending them to: - filter cutoff - wavefolder amount - FM index - pulse width - VCA CV

Patch idea

- envelope → **Mixer A In 1**
- slow LFO → **Mixer A In 2**
- random stepped CV → **Mixer A In 3**
- performance controller / pressure / mod wheel CV → **Mixer A In 4**
- **Mixer A Out** → filter cutoff CV input

This gives a melodic line: - attack contour from the envelope - cyclic movement from the LFO - variation from random CV - live expressiveness from the controller

That is one of the most musically powerful uses of MIXZ.

5. Create parallel melodic voices and combine them

Because MIXZ has **two 4-channel mixers**, you can dedicate one section to each role.

Suggested setup

Mixer A

Use for one voice's source blend: - VCO A - VCO B - sub - noise or wavefolder return

Mixer B

Use for final melodic summing: - processed output of Voice 1 - processed output of Voice 2 - drone / pad layer - external effect return

This is especially effective for: - bass + lead - lead + harmony - mono melody + drone - arpeggio + sustained tonal bed

6. Use it to combine gate or trigger patterns into rhythmic melody control

The manual states MIXZ can mix **gate signals** too. That means you can use it experimentally for rhythmic melodic behavior.

Examples

- combine trigger streams to create denser gate patterns
- mix clock divisions into a logic-like rhythmic control
- send mixed gates to envelopes or pinged filters

This is not the same as logic processing, but in practice it can create: - more active plucks - layered accents - pseudo-melodic rhythmic structures

For example: - Trigger pattern A → Mixer input - Sparse accent gate → Mixer input - Mixed output → envelope gate input

Now your melodic voice gets a more complex articulation pattern.

Best ways this module works with other modules for melody

Since the manual's example patch references Tiptop modules like **Z3000**, **Z2040**, and **Z-DSP**, here's how MIXZ fits into a melodic system.

With oscillators

Use MIXZ to: - layer waveforms - blend detuned oscillators - combine primary tone and sub - mix FM sidebands or secondary oscillators

With filters

Use MIXZ to: - feed a filter with richer harmonic material - combine several modulation sources into the filter cutoff - create pre-filter gain balance for tone shaping

With VCAs/envelopes

Use MIXZ to: - create a mixed voice before the VCA - combine envelopes and modulation CV for dynamic articulation

With sequencers/quantizers

Use MIXZ to: - combine melodic CVs - add transpose offsets - blend sequence lanes - create subtle pitch variation

With effects

Use MIXZ to: - combine melody voices before delay/reverb - mix dry and effected layers - group several melodic sources into one spatial processor

Bus Mix: useful, but mostly not for melodic patching

The manual makes clear that **Bus Mix** is primarily intended for Tiptop modules with Bus Mix capability, especially their drum modules and ONE. It routes signals over the busboard into Mixer B without patch cables.

For melodic work, Bus Mix is usually **less central** than the front-panel inputs, unless: - you have Bus Mix-capable melodic sample playback from Tiptop ONE - you want certain supporting sounds permanently available in Mixer B - you want a simple no-cable submix of compatible modules

Important limitations from the manual

- If you have **more than one MIXZ in a row**, only **one Bus Mix switch** should be on at a time
- MIXZ should **not** be used on a row using **Doepfer CV/GATE bus** unless Bus Mix is off
- Bus Mix is **not as low-noise** as the front-panel mixers
- If Bus Mix is unused, keep it **off** to reduce noise

So for melodic patching, my advice is: - use **Mixer A and B** as your primary creative tools - use **Bus Mix** mainly as convenience routing for compatible modules

Practical melodic patch recipes

1. Thick mono bass

- VCO saw → Mixer A In 1
- VCO pulse → Mixer A In 2
- Sub osc → Mixer A In 3
- Mixer A Out → lowpass filter → VCA
- VCA Out → Mixer B In 1
- Delay/reverb return → Mixer B In 2
- Mixer B Out → system output

Result: - one powerful bass voice with controlled harmonic balance

2. Lead plus harmony

- Lead oscillator pair → Mixer A inputs
- Mixer A Out → lead filter/VCA chain
- Harmony voice output → Mixer B In 1
- Lead chain output → Mixer B In 2
- Drone/pad → Mixer B In 3
- Mixer B Out → effects

Result: - a compact melodic submix with layered voices

3. Animated filter melody

- Envelope → Mixer A In 1
- LFO → Mixer A In 2
- Stepped random CV → Mixer A In 3
- Mixer A Out → filter cutoff CV input
- Oscillator audio → Mixer B or separate voice path

Result: - a melody whose tone evolves over time, not just pitch

4. Semi-generative pitch movement

- Sequencer pitch CV → Mixer A In 1
- Slow random offset → Mixer A In 2
- Manual offset source → Mixer A In 3
- Mixer A Out → quantizer or oscillator pitch input

Best practice: - if pitch accuracy matters, send the mixed CV to a **quantizer** before the oscillator

Result: - more organic melodic variation

5. Melodic voice plus percussion support

This follows the spirit of the manual example. - Oscillators mixed on Mixer A for a bass/lead line - Voice goes through filter/VCA - Voice output enters Mixer B - Bus Mix adds compatible Tiptop percussion - Mixer B Out goes to delay/reverb or main output

Result: - a complete musical phrase where melody and groove are mixed together

Strengths of MIXZ in melodic systems

Excellent for

- blending oscillators
- creating submixes of melodic voices
- combining modulation sources
- routing processed and unprocessed melodic signals
- compact performance mixing in small systems

Less ideal for

- precise pitch summing over large ranges
 - stereo mixing
 - voltage-controlled level changes
 - muting/soloing with switches
 - precision utility work better handled by dedicated precision adders/VC mixers
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Musical workflow suggestions

In a small system

MIXZ can be your: - oscillator layer mixer - modulation combiner - final mono melodic submix

In a larger system

Use it as: - dedicated voice builder for bass or lead - drum + melody submixer - effects send return combiner - performance mixer for a specific section of the patch

For live use

You can use the channel gains to: - fade harmonic layers in and out - rebalance melody and harmony - bring in extra oscillator content at transitions - reduce modulation intensity at key moments

Bottom line

The **Tiptop Audio MIXZ** is best understood as a **melodic support and shaping module**, not a melody generator. It helps you create melodic components by:

- **layering oscillators into richer voices**
- **combining modulation sources for expressive movement**
- **submixing multiple melodic chains**
- **mixing CV and gates for more variation**
- **integrating compatible Tiptop Bus Mix sources into a broader musical patch**

If you pair it with oscillators, filters, VCAs, envelopes, and a sequencer, MIXZ becomes a very practical tool for building: - bass voices - leads - drones - harmonized lines - animated timbral melodies

In short: **MIXZ is the glue that helps melodic modules work together musically.**

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