

ECHELON AUDIO

VOICES

Scale-Aware Vocal Harmony Engine — User Manual



The VOICES interface. Hover any knob, button or toggle in the plugin for a quick tip; this manual covers every control in full.

VOICES turns one lead vocal into a four-voice harmony stack that always stays in key. Pick your Key and Scale (or let Follow SCOUT set them from the session), choose a scale-aware interval per voice — or drive voices from MIDI — then blend with the Lead / Harmonies faders. Humanize redraws timing, pitch drift and formant per voice so the stack reads as four singers, and The Stage shows every voice's pitch line live.

Global & Header Controls

Control	What it does
Preset · by key	Preset browser, grouped by key — pick a stack voiced for your song's key. General presets and your saved presets are listed below the key groups.
◀ / ▶	Load the previous / next preset.
Save	Save the current voice stack as a user preset — type a name and press Enter.
The Stage	Scrolling pitch-vs-time display (C3 ... C6). Scale lanes glow for in-key notes; the lead and each of the four voices draw their own coloured trace.
Input / Output meters	Lead vocal input level, and output level after the harmony mix.
Voice meters	Each voice card shows its own output level, after its Level, humanise offset and mute/solo gate.
? (Help)	About VOICES and a guide to the controls.

Controls

Key, Scale & Range (header)

The musical brain. Harmonies are generated inside the selected key and scale, and voiced for your singer's register.

Control	Range	What it does
Vocal Range	Soprano / Alto / Tenor / Bass	Your singer's register — harmony voicings fold octaves to sit naturally inside it.
Key	C ... B (chromatic)	Root note of the song — harmonies are generated inside this key.
Scale	13 scales: Chromatic, Major, Natural / Harmonic / Melodic Minor, Dorian, Phrygian, Lydian, Mixolydian, Locrian, Major / Minor Pentatonic, Blues	Scale the harmonies obey — intervals adjust per scale degree so every voice stays diatonic.
Follow SCOUT	On / Off	Auto-set Key & Scale from SCOUT's live key detection on the session (via EchelonLink). On by default.

Voice Panels (Voice 1 – Voice 4)

Four independent harmony voices, each with its own card, accent colour and output meter. Voices 1 and 2 are on by default; 3 and 4 are off.

Control	Range	What it does
On / Off	On / Off	Turn the harmony voice on or off — disabled voices are silent and skip processing.
S (Solo)	On / Off	Hear this voice alone against the lead — every other harmony voice is muted while any solo is lit.
Source	Scale Degree / MIDI Note / MIDI Poly	Where this voice gets its note. Scale Degree uses the interval chips; MIDI Note sings the held note; MIDI Poly takes the 1st/2nd/3rd/4th held note, low to high.
Interval	Unison, 3rd/5th/6th/Octave Up, 3rd/4th/5th/6th/Octave Down	The scale-aware interval this voice sings. Each chip shows a live signed semitone readout for the current key, scale and lead note.
Level	-60 ... 0 dB	How loud this voice sits under the lead — pull harmonies down for support, up for a featured stack.
Pan	-1 ... +1 (L ... R)	Place this voice in the stereo field — drag the dot, double-click to center. Defaults alternate left/right per voice.
Formant	-6 ... +6 st	Shifts this voice's formant in semitones — up sounds younger/brighter, down sounds bigger/darker, without changing pitch.

Master Strip

The blend and behaviour of the whole stack.

Control	Range	What it does
Lead	-60 ... +6 dB	Level of your original lead vocal in the mix — drop it to hear the stack alone.
Harmonies	-60 ... +6 dB	Overall level of all harmony voices against the lead — the main blend control.
Width	0 ... 100	Widens the harmony stack around the centered lead — 0 keeps everything mono-safe.
Humanize	0 ... 100	Adds pitch drift, onset smear and formant variation per voice — turn up until the stack stops sounding like a robot.
Glide	1 ... 200 ms	How fast harmonies chase the lead's pitch — fast is tight and synthy, slow sounds like singers settling into the note.
Fold Range	On / Off	Octave-folds harmonies into the selected Vocal Range. Off by default: on a low lead it can invert the interval (a 3rd down becomes a 6th above).

Control	Range	What it does
Bypass	On / Off	Pass the lead vocal through untouched.

Tips

- Start from a preset in your song's key — the browser groups them by key so the stack is already voiced correctly.
- Leave Follow SCOUT on with SCOUT on the session and Key/Scale set themselves.
- Use S (solo) on one voice while choosing its interval — the chips show exactly how many semitones each option lands from the lead.
- Push Humanize up until the stack stops sounding like copies of one singer; it redraws timing, formant and level per voice.
- Switch a voice's Source to MIDI Note or MIDI Poly and play the harmony from your keyboard for full control.
- Keep Fold Range off on low leads — folding can invert intervals so a 3rd down re-appears above the lead.