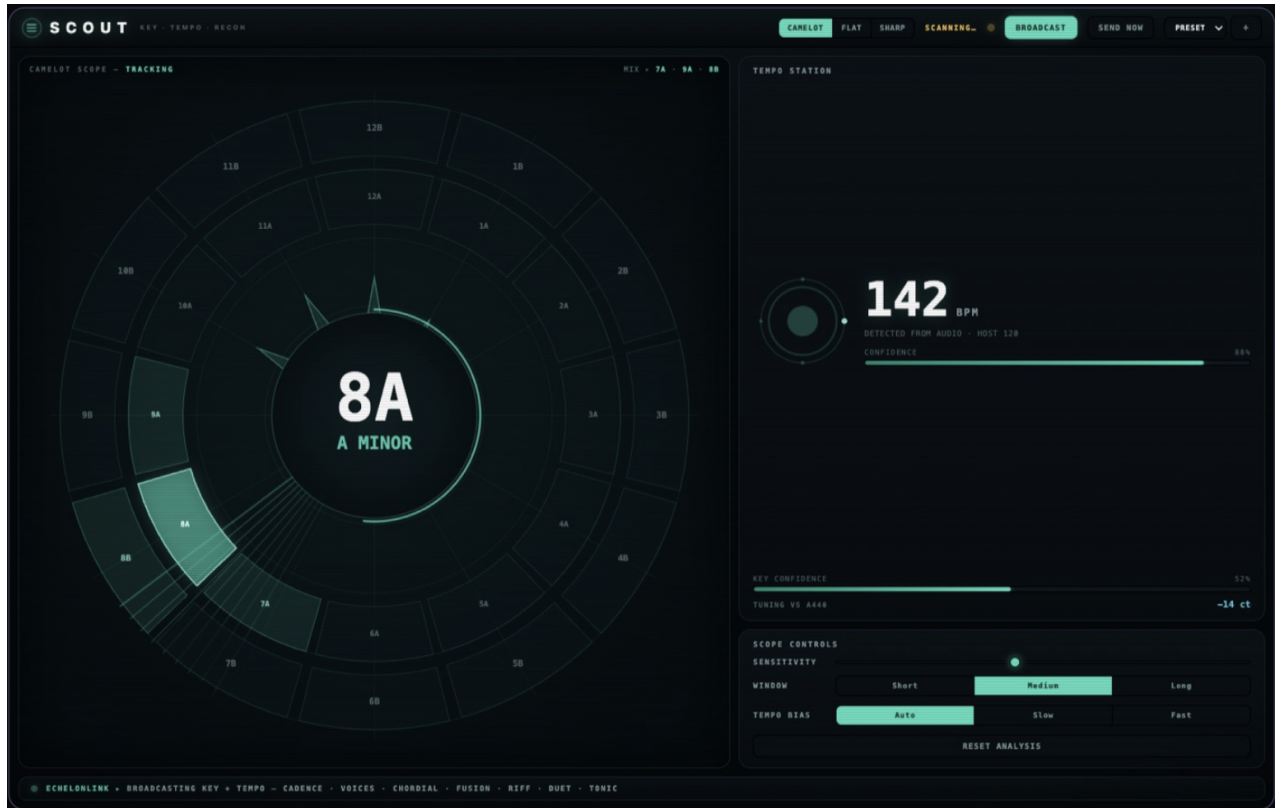


ECHELON AUDIO

SCOUT

Key · Tempo · Recon — User Manual



The SCOUT interface. Hover any control in the plugin for a quick tip; this manual covers every control in full.

SCOUT is key + tempo reconnaissance for your session. Drop it on a track, press play, and the Camelot Scope hunts down the key while the Tempo Station locks the BPM — each with honest confidence readouts and clickable alternatives when the evidence is genuinely ambiguous. With Broadcast on, SCOUT publishes its detection to the whole Echelon fleet over EchelonLink, so CADENCE, VOICES, CHORDIAL, FUSION, RIFF, DUET and TONIC can follow the session's key automatically.

Presets & Global

Control	What it does
Preset	Your saved user presets — SCOUT ships analysis-ready, so presets store your preferred Sensitivity / Window / Bias setup.
+ Save	Save the current SCOUT settings as a user preset; the trash button deletes the selected one.
Bypass	Available as a host-automatable parameter (DAW bypass); SCOUT is analysis-only and never alters the audio.

Controls & Readouts

Scope Controls

How the detector listens.

Control	Range	What it does
Sensitivity	0 ... 1	How much evidence a note or a hit must show before it counts. Low ignores everything but the loudest partials and the hardest onsets — steadiest on noisy, live or reverberant material. High counts quiet detail too — better on sparse, clean or lightly-played sources.
Window	Short / Medium / Long	How much recent audio the detector weighs, for both key and tempo — Short ~15 s, Medium ~30 s, Long ~60 s. Short locks fast; Long rides out drops and breaks, and gives tempo the most evidence to settle its metrical level on.
Tempo Bias	Auto / Prefer Slow / Prefer Fast	Nudges the tempo octave decision — Slow prefers 70 over 140, Fast prefers 140 over 70.
Reset Analysis	momentary	Clear the detector and start listening fresh.

Broadcast & EchelonLink

SCOUT publishes what it hears to the whole Echelon fleet.

Control	Range	What it does
Broadcast	On / Off	Publish detected key + tempo to the fleet continuously over EchelonLink. Auto-broadcast waits until the key is confident and stable (~2 s), then locks.
Send Now	momentary	Push the current detection to the fleet once, right now.

Control	Range	What it does
EchelonLink bar	status	Shows what is being broadcast and who listens: CADENCE, VOICES, CHORDIAL, FUSION, RIFF, DUET, TONIC. Turn on 'Follow SCOUT' in those plugins to lock them to this detection.
Lock status / LED	readout	✓ LOCKED, SCANNING..., or UNDECIDED — PICK A KEY. Solid phosphor when locked, amber pulsing while hunting.

Key Detection

The Camelot Scope and its candidates.

Control	Range	What it does
Camelot Scope	display	The wheel is the map: outer ring = major (B), inner = minor (A). Live pitch-class energy radiates from the middle through the circle of fifths; the sweep hunts until the key locks. Lit neighbours are safe harmonic mixes.
Key System	Camelot / Flat / Sharp	How the detected key is spelled — Camelot wheel code (e.g. 8B), flat names, or sharp names.
Mix hint	readout	The ± 1 Camelot neighbours plus the relative key — the DJ-safe harmonic mixes from the detected key.
Key confidence	0 ... 100%	How strongly the analysis supports the reported key.
Key candidates	clickable chips	The most likely keys and how sure SCOUT is of each — handy when the track sits between a key and its relative minor. Click one to lock it and broadcast it; click again to return to auto.
Undecided key note	readout	A key and its relative minor use the same seven notes. When they tie, SCOUT says so instead of picking one — and holds the broadcast until you choose or the track makes up its mind.
Tuning	cents vs A440	Estimated offset of the track from A440 concert pitch. SCOUT folds its chroma around this offset, so off-tune beats and acapellas still key-detect correctly.

Tempo Station

BPM detection with honest confidence.

Control	Range	What it does
Pulse ring	display	Beats at the detected tempo — if this ring breathes with the track, the lock is right.

Control	Range	What it does
BPM readout	whole BPM ($\approx$ exact below)	The detected tempo; the exact fractional value shows underneath when it differs. The source line says whether it came from the audio or fell back to host tempo.
Metrical level note	readout	SCOUT reports tempo in the range tracks are usually counted in, so a 174 BPM jungle track reads as 87. When the audio supports the $\times 2$ level just as well, it says so here.
Tempo confidence	0 ... 100%	How consistently the last few seconds of analysis agree on this tempo. While the vote window fills (the first ~ 4 s) it reads LISTENING... instead of showing a number that would only mislead.
Tempo candidates	clickable chips	The most likely tempos and how sure SCOUT is of each. An amber chip is another metrical level the same evidence supports — $\times 2$ (double-time), or $\times 3/2$ / $\div 3/2$. Click it to report and broadcast that one instead; click again for auto.

Tips

- Put SCOUT on the master (or the source you want read), press play, and let the vote window fill — confidence readouts stay honest instead of guessing early.
 - If the key sits UNDECIDED between relative major/minor, click the candidate you hear — broadcast is held until you do.
 - Halve/double confusion? Check the metrical-level note and the amber tempo chip, or nudge Tempo Bias.
 - Noisy live recordings: lower Sensitivity and use a Long window. Sparse clean sources: raise Sensitivity, Short window.
 - The lit neighbours on the Camelot wheel are your safe harmonic mixes — ± 1 on the wheel and the relative key.
 - Off-tune material is fine — SCOUT estimates the tuning offset from A440 and folds its analysis around it.
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