

PitchCure

User Guide

Version 1.0.0

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Figure 1. PitchCure main interface (overview).

Overview

PitchCure is a premium, real-time vocal pitch correction and enhancement plugin designed to deliver everything from invisible, natural tuning to hard-snapped robotic vocal effects. PitchCure combines robust pitch detection with variance-tracking humanization, smooth portamento-style transitions, and a mastering-grade tone section.

Whether you need to gently nudge a singer into key, track live vocals with low-latency monitoring, or force a vocal to follow complex MIDI progressions, PitchCure provides a fast, intuitive workflow built for modern vocal production.

System Requirements

Operating System

OS	Requirement
macOS	macOS 11 or higher
Windows	Windows 10 or higher

Plugin Formats & Host

Item	Specification
Formats	VST3, Audio Unit (AU), and AAX
Host	Any compatible DAW that supports VST3, AU, or AAX

Installation

macOS

- Extract the downloaded package.
- Run the included macOS .pkg installer and follow the on-screen instructions. The installer will automatically place the VST3, AU, and AAX files in their correct system directories.
- Restart your DAW so it can scan the new plugin.
- Load PitchCure on a vocal track or vocal bus.

Windows

- Extract the downloaded folder.
- Run PitchCure_Installer_Win.exe.
- The setup wizard will give you the option to install the VST3 format, the AAX format, or both. Follow the prompts to complete the installation.
- Restart your DAW so it can scan the new plugin.
- Load PitchCure on a vocal track.

Note: PitchCure comes pre-unlocked and does not require a license key file or iLok activation.

Quick Start

1. Load PitchCure directly onto your main vocal recording.
2. Select the singer's Voice Range (e.g., Alto, Tenor) in the main display to optimize the pitch detection algorithm.
3. Click Auto Detect to find the key of the song, or manually select the Key/Scale.
4. Set Speed to determine how fast the vocal is pulled to the correct note.
5. Adjust Humanize to protect the singer's natural vibrato and expression.
6. Use A/B to compare two settings and Bypass to compare the tuned signal against the raw vocal.

Interface Overview

Top Bar

The top bar provides fast control over preset browsing and comparison. Use the left/right arrows to step through presets. The save icon stores your current preset. A/B lets you compare two internal states, and Bypass cleanly disables the effect.

Tuning Display & Voice Range



Figure 2. Tuning display with Voice Range selector.

The main display provides visual feedback of the currently detected note and tuning reference. At the bottom of the display is the Voice Range selector (Bass, Tenor, Alto, Soprano). Setting this correctly is crucial: it restricts the pitch detector's search range, preventing sub-octave glitches and improving tracking accuracy.

Key / Scale & Edit Notes

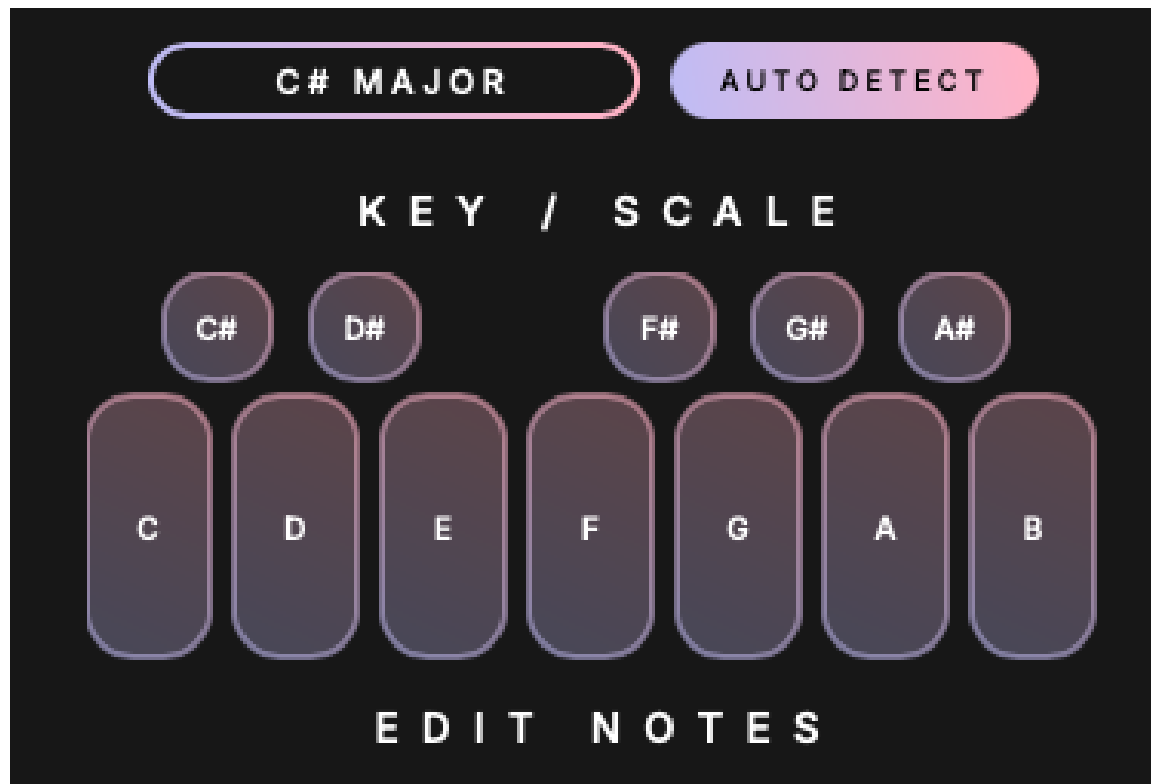


Figure 3. Key/Scale selection and Edit Notes matrix.

- Auto Detect analyzes the incoming audio and suggests a key/scale.
- Key/Scale selection locks PitchCure to a specific key (e.g., C# Major).
- Edit Notes allows custom scales: deactivate notes you want PitchCure to ignore.

Main Controls



Figure 4. Main control knobs.

Speed (Natural ↔ Hard): Controls how quickly PitchCure pulls the vocal to the target note. Slower settings sound more invisible; faster settings create the iconic hard-tune stair-step effect.

Humanize (Tight ↔ Loose): Protects natural vibrato and expression by reducing over-correction on sustained notes.

Transition (Snap ↔ Glide): Controls portamento between notes. Snap forces instant note changes; Glide creates smooth sweeps between legato notes.

Color (Dark ↔ Bright): A mastering-grade tilt EQ. Turn toward Dark for warmth; toward Bright for air and presence.

Mode & MIDI Target

Mode (Real Time ↔ HQ)

- Real Time: optimized, low-latency operation suitable for tracking.
- HQ (High Quality): increases internal buffering for smoother splicing; ideal for mixing and offline bounces.

MIDI Target (Off ↔ On)

When enabled, MIDI Target overrides the Key/Scale matrix and forces the vocal to snap exclusively to notes you play on a MIDI keyboard or draw into a MIDI clip.

Practical Use Cases

Goal	Suggested Settings	What to Listen For
Invisible Tuning	Speed: 30% Humanize: 80% Transition: 60%	In-pitch and confident, with natural vibrato intact.
Hard Tune Effect	Speed: 100% Humanize: 0% Transition: 0%	Instant robotic stair-stepping between notes.
Live Tracking	Mode: Real Time Speed: 50% Transition: 20%	Low-latency monitoring without obvious artifacts.
MIDI	MIDI Target: ON Route MIDI to PitchCure	Vocal jumps to the chord or melody played via MIDI.

Tips

- MIDI routing rule: your DAW must be configured to send MIDI data to the audio track hosting PitchCure (for example, route a MIDI track to the vocal track in Ableton; in Logic, use a MIDI-controlled effect workflow).
- Color knob is CPU-smart: when Color is exactly centered, the EQ circuit can be bypassed to save CPU.
- Use the right range: if pitch detection feels unstable on a low male vocal, ensure the Voice Range isn't accidentally set to Soprano.