

XF Comp

Intelligent starting settings for audio compression

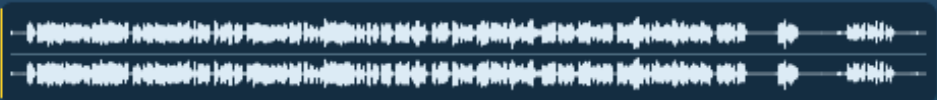
USER MANUAL - VERSION 1.0

XF Comp

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Load Audio

TP VOCAL.wav



∞

PLAY

SYNC

Voice

Analyze

Recommended Settings

Threshold	Ratio	Attack	Release	Knee
-12.8 dBFS	4:1	15 ms	80 ms	Hard

Why?
High dynamic range detected (16.6 dB crest factor). A threshold of -12.8 dBFS is recommended to control the loudest vocal peaks.

Tip
Preserve vocal expression.

Signal Metrics

by Sintelab

Free VST3 Plugin for Windows

by Sintelab

<https://www.sintelab.com/xf-comp/>

What is XF Comp + Installation

XF Comp is an intelligent compression assistant that analyzes an audio file and suggests starting values for Threshold, Ratio, Attack, Release and Knee. It also explains why those values were suggested and provides a practical tip.

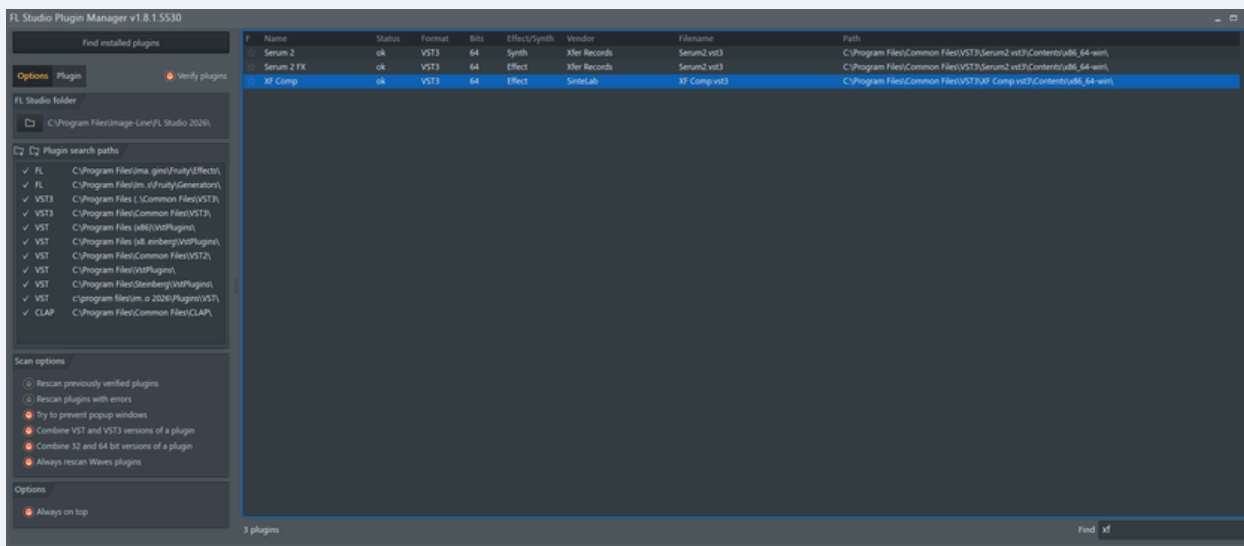
Its recommendations are designed to control peaks and dynamics transparently while preserving the natural character of the audio as much as possible.

XF Comp is used as a VST3 effect (FX/insert) on a track or mixer channel in your DAW.

INSTALLATION

1. Unzip the XF Comp v1.0.zip file.
2. Copy the complete XF Comp.vst3 folder.
3. Paste it into C:\Program Files\Common Files\VST3
4. Open your DAW and rescan plugins if needed.

Windows 64-bit · VST3 compatible DAW

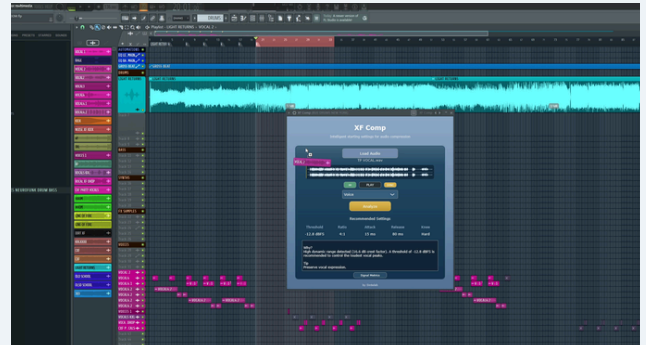
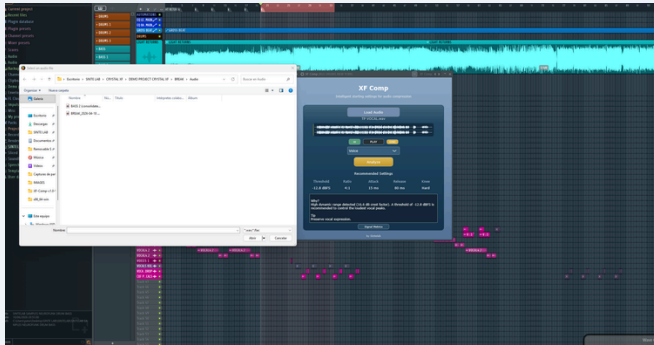


Find installed plugins FL Studio

Load Audio and Select Source

LOAD AUDIO

Click Load Audio to choose a WAV or FLAC file, or drag the file directly onto XF Comp.



SELECT THE SOURCE

Choose Voice, Drums, Bass or Synth before analysis. The source selection adapts the recommendations to the signal type.



Analyze and Recommended Settings

With the file loaded and the source selected, click Analyze. XF Comp calculates five parameters and displays a Why? explanation and a Tip.

The screenshot shows the XF Comp web application interface. At the top, the title "XF Comp" is displayed in large white letters, with the subtitle "Intelligent starting settings for audio compression" below it. The main area has a dark blue background. At the top of this area is a "Load Audio" button. Below it, the filename "LA_UKB2_134_Razor_Edge_Vocal_Phrase_4187760.wav" is shown. A waveform visualization of the audio is displayed. Below the waveform are three buttons: a green "∞" button, a dark grey "STOP" button, and a yellow "SYNC" button. Below these is a dropdown menu currently set to "Voice". A large yellow "Analyze" button is centered below the dropdown. Underneath the "Analyze" button is a section titled "Recommended Settings" which contains a table of five parameters: Threshold (-11.0 dBFS), Ratio (4:1), Attack (30 ms), Release (60 ms), and Knee (Hard). Below the table is a box containing a "Why?" section explaining the high dynamic range detected and a "Tip" to preserve vocal expression. At the bottom of the interface is a "Signal Metrics" button and the text "by Sintelab".

XF Comp
Intelligent starting settings for audio compression

Load Audio

LA_UKB2_134_Razor_Edge_Vocal_Phrase_4187760.wav

∞ STOP SYNC

Voice

Analyze

Recommended Settings

Threshold	Ratio	Attack	Release	Knee
-11.0 dBFS	4:1	30 ms	60 ms	Hard

Why?
High dynamic range detected (16.1 dB crest factor). A threshold of -11.0 dBFS is recommended to control the loudest vocal peaks.

Tip
Preserve vocal expression.

Signal Metrics

by Sintelab

WHAT EACH PARAMETER MEANS

Threshold — the level above which the compressor starts applying gain reduction.

Ratio — determines how much the signal is compressed once it exceeds the threshold. For example, with a 4:1 ratio, for every 4 dB the signal goes above the threshold, only about 1 dB appears above the threshold at the output.

Attack — the time it takes for the compressor to apply gain reduction after the signal exceeds the threshold.

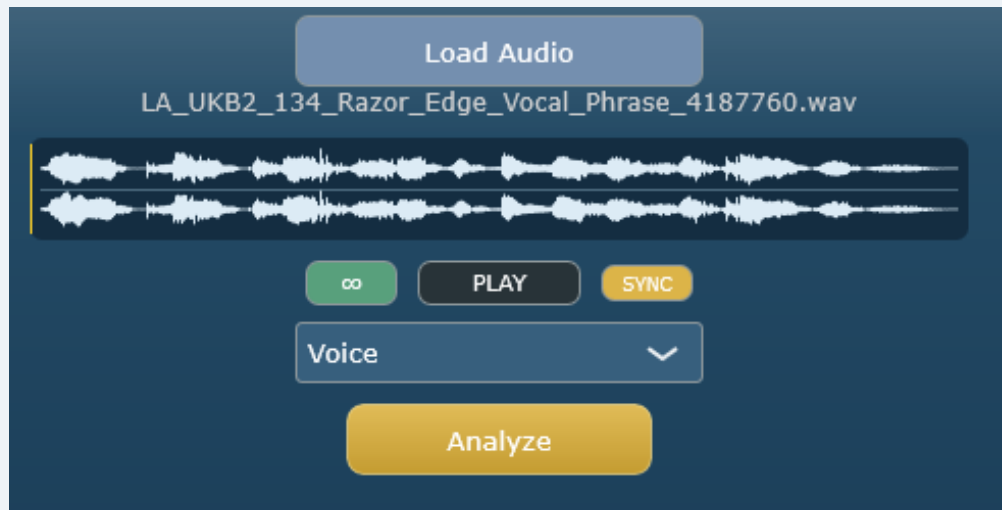
Release — the time it takes for the compressor to recover gain and stop compressing after the signal falls below the threshold.

Knee — determines whether the compression starts more gradually or more abruptly around the threshold.

Playback, Loop, Sync and Signal Metrics

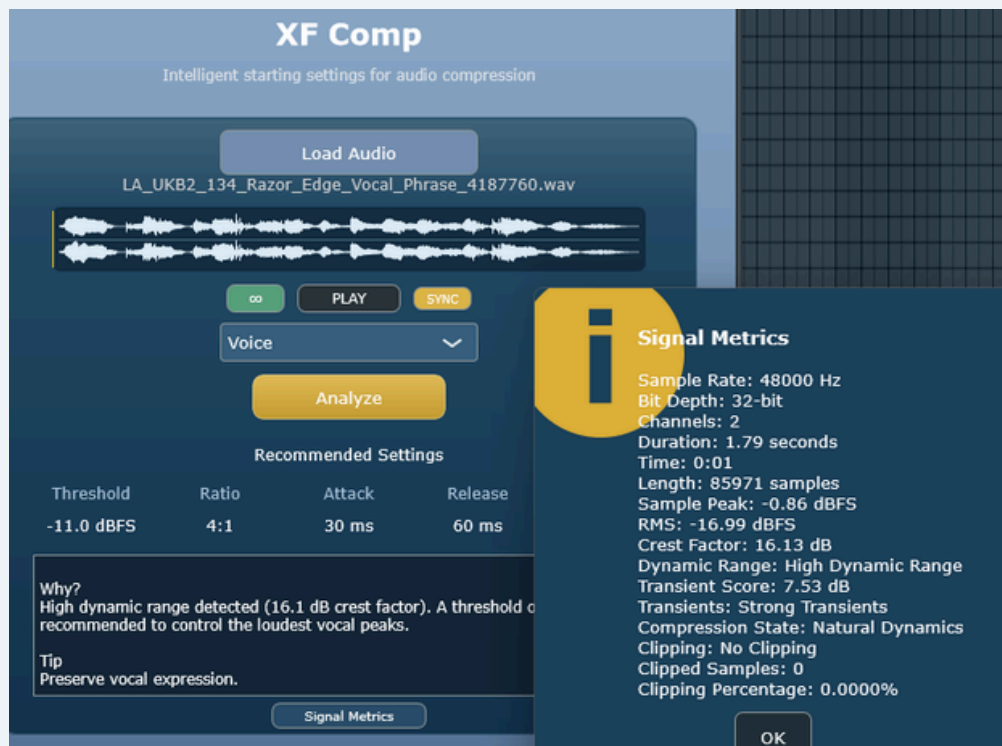
PLAY / STOP + LOOP + SYNC

PLAY previews the loaded file. STOP ends playback. When Loop (∞) is enabled, the file continuously restarts from the beginning when it reaches the end. With SYNC enabled, XF Comp follows the DAW transport.



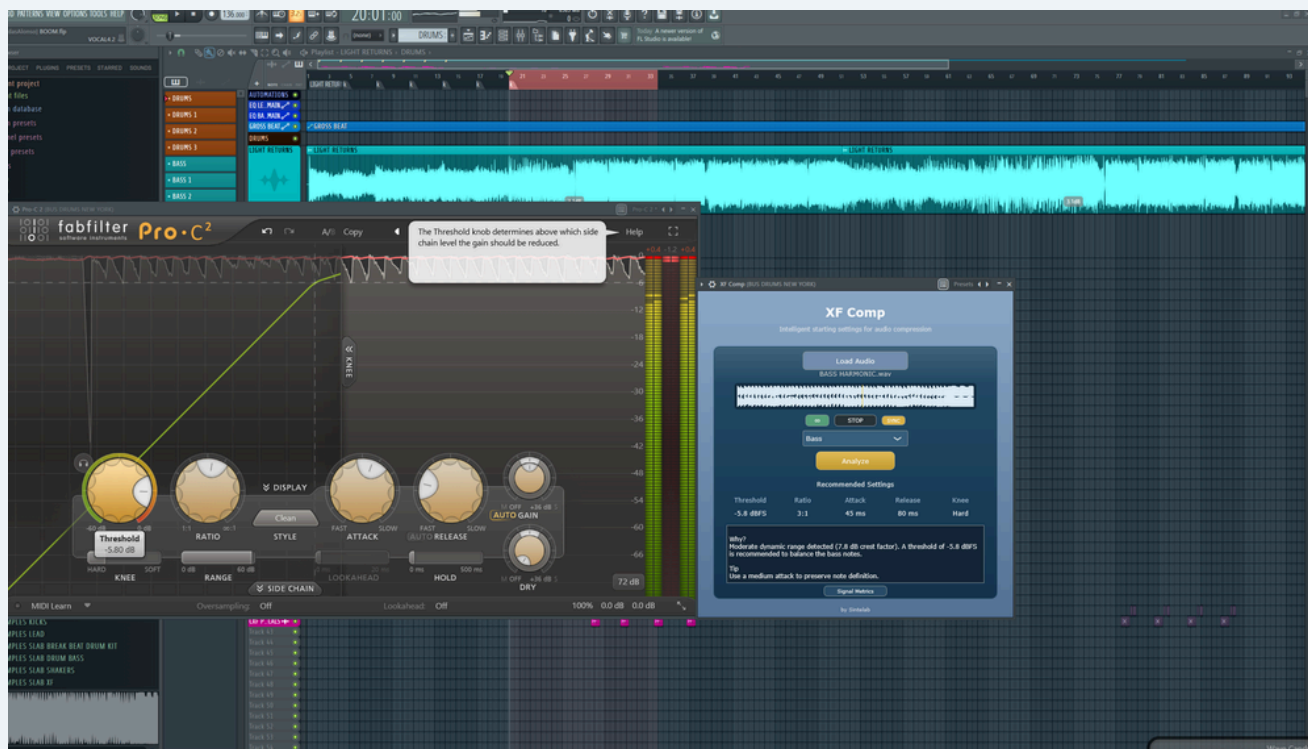
SIGNAL METRICS

Signal Metrics shows technical information such as Sample Peak, Bit Depth, RMS, Crest Factor, Dynamic Range, Transient Score, Compression State and Clipping.



Applying the Settings

XF Comp does not compress audio directly. Use the recommended values as a starting point in your preferred compressor and make the final adjustment while listening in the context of the mix.



XF Comp v1.0

Free VST3 · Windows64-bit · bySintelab

<https://www.sintelab.com/xf-comp/>