T-Tool

Description:

The T-Tool plugin is a channel controller designed to provide a wide range of real-time audio processing tools. This plugin combines filters, level and pan controls, as well as output format options and special effects such as DC removal. It is an authorized modification based on the original Tukan Studios plugins, with a graphical interface redesigned by Edu Serra in the visual style of ReArtist Pro.

Key features include:

- High-pass (HPF) and low-pass (LPF) filters.

- Level and pan controls for left and right channels.

- Phase and mute options for each channel.

- Balance between channels.

- Mono, stereo, ST-MS, and MS-ST output formats.

- DC removal.

- Stereo width control.

Parameters:

1. **HPF (High-Pass Filter)** :

   - Range: 0 to 95.5 Hz

   - Affects: Filters out the lowest frequencies, allowing only frequencies above the set value to pass through.

2. **LPF (Low-Pass Filter)** :

   - Range: 0 to 100 kHz

   - Affects: Filters out the highest frequencies, allowing only frequencies below the set value to pass.

3. **L Trim (Left Trim)** :

   - Range: 0 to 2

   - Affects: Adjusts the level of the left channel.

4. **L Pan (Left Bread)** :

   - Range: 0 to 1

   - Affects: Controls the position of the left channel in the stereo field.

5. **R Trim :**

   - Range: 0 to 2

   - Affects: Adjusts the level of the right channel.

6. **R Pan (Right Bread)** :

   - Range: 0 to 1

   - Affects: Controls the position of the right channel in the stereo field.

7. **L Phase :**

   - Options: Normal, Flip

   - Affects: Inverts the phase of the left channel strip if "Flip" is selected.

8. **R Phase :**

   - Options: Normal, Flip

   - Affects: Inverts the phase of the right channel strip if "Flip" is selected.

9. **Balance** :

   - Range: 0 to 1

   - Affects: Adjusts the balance between the left and right channels.

10. **Output** :

- Range: -24 to 24 dB

- Affects: Adjusts the overall output level.

11. **Output Format** :

- Options: Mono, Stereo, ST-MS, MS-ST

- Affects: Changes the output format of the audio.

12. **L Mute (Left Mute)** :

- Options: On, Mute

- Affects: Mute the left channel strip if "Mute" is selected.

13. **R Mute :**

- Options: On, Mute

- Affects: Mute the right channel if "Mute" is selected.

14. **Mute :**

- Options: On, Mute

- Affects: Mute both channels if "Mute" is selected.

15. **MS Processing** :

- Range: 0 to 100

- Affects: Controls Mid-Side processing.

16. **DC Remove** :

- Options: Off, On

- Affects: Removes static low-frequency content that could displace the waveform.

17. **Bypass** :

- Options: On, Bypass

- Affects: Bypasses all plugin effects if "Bypass" is selected.

On the Menu:

The plugin menu offers several additional options:

- **Processing** : Allows you to enable or disable the processing of the plugin during playback, recording, or when it is stopped.

- **Groups** : Options for grouping instances of the plugin for joint control.

- **Scaling** : Allows you to automatically adjust the size of the GUI.

Usage Tips:

1. **Recording** : Use HPF to remove low-frequency noise and LPF to avoid aliasing. Adjust input levels with L Trim and R Trim to avoid distortion.

2. **Mixing** : Experiment with different output formats (Mono, Stereo, ST-MS, MS-ST) to get the desired balance. Use L Pan and R Pan to position elements in the stereo field.

3. **Mastering** : Adjust the overall balance with the Balance control and use Output to adjust the final level. MS processing can be useful for adjusting the stereo width.

Acknowledgments

This plugin is based on technology and libraries created by Tukan Studios. Special thanks are due to John Matthews, whose exceptional work served as the basis for the plugin series. On this basis, Edu Serra has redesigned the graphical interface in the visual style of ReArtist Pro.

Summary:

The T-Tool is an excellent tool for any digital audio producer in Reaper DAW. Its feature set allows for precise control over the fundamentals of audio processing, from filtering to balancing to output settings. The ability to handle different output formats and special effects such as DC removal make it a versatile and powerful option to improve the quality of your productions.