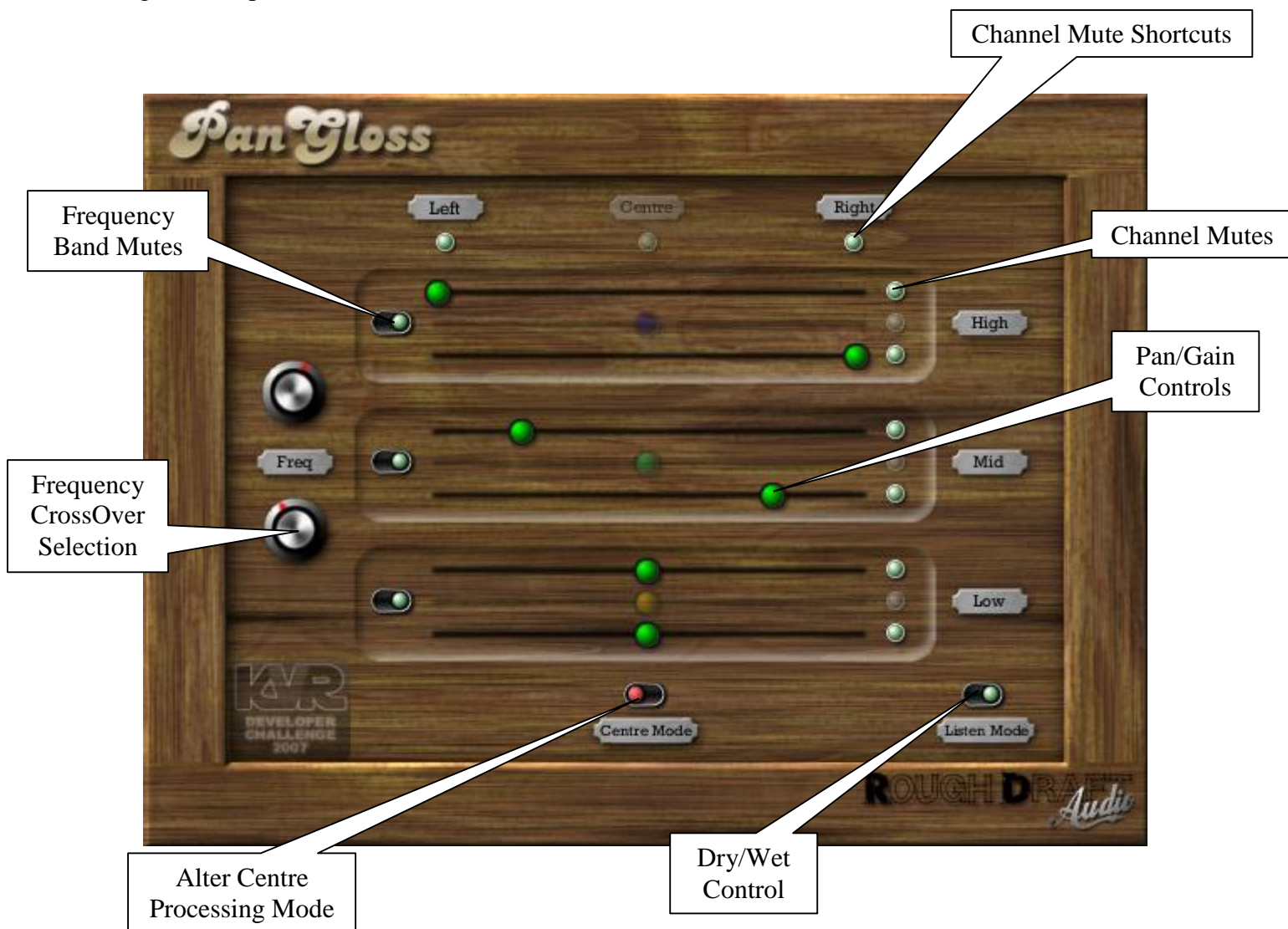**RoughDraftAudio presents**

PanGloss

A VST Plugin developed for the 2007 KVR Developer Challenge

RoughDraftAudio *PanGloss* is a multiband panner, which splits the incoming stereo into 6 or 9 individually controllable mono channels, which are then merged back together and output as a single stereo pair.

Usage
Using PanGloss is simplicity itself. ☺

Frequency CrossOver Selection
These controls determine the where your incoming audio will be split.

Frequency Band Mutes
Using these Mutes, it is possible to totally remove the selected band from the output.

Channel Mutes
These Mutes allow you to remove one of the separated channels from the output.

Channel Mute Shortcuts
These are convenient buttons for muting, soloing, and inverting the Channel Mutes.
- just clicking will cause a mute
- shift + clicking will solo
- ctrl + click will invert the selection for a channel
- shift + ctrl + click will reset the mutes.

NB these key combinations can be used with other mute buttons, working within their own groups – try it!

Pan/Gain Controls

These perform the dirty work of the plugin! Click and drag to alter the panning; ctrl+drag to alter the gain, from –∞ to +6dB. Note that for safety, you need to press ctrl *before* clicking to ensure that you control the gain.
In each frequency band, the controls follow the order Left, Centre, Right from top to bottom.

Centre Processing

If this is turned on, your audio is split into 9 channels, giving control over Left, Centre and Right aspects of each frequency band. Sometimes this can be just too much, so it can be turned off giving just 6 channels of Lefts and Rights.

Listen Mode

This allows fast checking of the effect that PanGloss is having on your audio.

Also…

Right clicking on controls will reveal a menu to gain access to the MIDI CC functionality – learn, display or reset the MIDI CC mapping. For the Pan/Gain controls, there is also the opportunity to guarantee resetting the controls to central positions.

Common Questions

Why can't I assign MIDI CCs to the Channel Mute Shortcuts?
Because they are just shortcuts which affect upto 9 other parameters.

How come I can put the lower frequency crossover higher than the upper one (and vice versa) – and why does it sound odd?
This is a feature allowing the phase relationship of the middle band to be inverted against the other bands, which can either lead to a dulling or unearthly brightening of the audio. It's by design, but needs careful treatment!

Will you ever do a version where each of the 9 channels gets a separate output? That would be Fab!
More than likely ☺ But for now you'll just have to enjoy one stereo out!

That's about it really! We hope you enjoy it.
If you make any groovy presets, let us know, and they can be included in any future updates ☺
Should you have any questions about PanGloss, please visit the RoughDraftAudio website at http://www.roughdraftaudio.com, and follow the link to 'Voice'

Credits

DSP, GFX and missed appointments – **Duncan Parsons**

With thanks to…

- Tolga aka **tuz** for organizing another KVR DC
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- The **Betabugs** team for their help and support through thick and thin.
- **Steinberg**, without whom there would have no **VST** spec and **less love**.

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