PM-202 Quick Start Guide

Overview

The PM-202 is a versatile sound generator with a rich set of controls for LFO modulation, waveform mixing, filtering, envelope shaping, and delay effects. This guide provides a quick explanation of the key sections and their controls to help you start crafting your sounds.

LFO Section

- **Rate**: Adjusts the speed of the LFO (0.2 - 10 Hz).
- **Shape**: Selects the LFO waveform:
  - **TRI**: Triangle wave.
  - **SQR**: Square wave.

VCO Section

- **Width (PWM)**: Adjusts pulse width for square waves (0.5 - 0.8).
- **PW Mode**: Selects pulse width modulation mode:
  - **LFO**: Modulation linked to LFO.
  - **MAN**: Static manual adjustment.

Source Mixer

- **Square**: Adjusts the level of the square wave (0.00 - 0.5).
- **Saw**: Adjusts the level of the saw wave (0.00 - 0.5).
- **Sub**: Adjusts the level of the sub-oscillator (0.00 - 0.5).
- **Noise**: Adjusts the level of white noise (0.00 - 0.5).
- **SubOct**: Selects the sub-oscillator's pitch:
  - **-1**: One octave below.
  - **-2**: Two octaves below.
  - **-2P**: Two octaves below with pulse modulation.

Modulator Section

- **Timbre**: Morphs between different waveforms.

- **Freq**: Modulation frequency (0.5 - 2 Hz).
- **Amount**: Adjusts modulation depth (0.00 - 1).
- **Shape**: Selects modulation waveform (TRI, SAW, SQR).
- **Type**: Chooses modulation type:
  - **FM**: Frequency modulation.
  - **AM**: Amplitude modulation.
- **Route**: Modulation routing:
  - **Pass**: The modulation signal is passed through to the audio output, allowing the modulator's effect to be audible as part of the overall sound.
  - **Mute**: The modulation signal is used internally for shaping but does not pass to the output, effectively silencing the modulator's direct contribution to the final audio.

VCF Section

- **Cutoff (Freq)**: Sets the filter cutoff frequency (10 - 10,000 Hz).
- **Res**: Adjusts filter resonance (0.00 - 0.99).
- **Env**: Envelope depth for filter modulation (0.001 - 1).
- **LFO**: Filter modulation depth from the LFO (0.01 - 1).

Envelope Section

- **Attack**: Time to reach maximum level (0.0001 - 3 sec).
- **Decay**: Time to fall to sustain level (0.01 - 3 sec).
- **Sustain**: Sustained level (0.0 - 1).
- **Release**: Time to fall back to zero after note release (0.001 - 5 sec).

Delay Section

- **Time**: Delay time (0 - 7 steps based on tempo).
- **Feedback**: Amount of signal fed back into the delay (0.001 - 0.7).
- **Mix**: Wet/dry mix for delay signal (0.0 - 1).

Sequencer

- **Mode**: Selects the parameter to be sequenced (OFF, FILTER, SQUARE, SAW, MOD).
- **Multiply**: Changes the playback speed multiplier (e.g., 1x, 2x).

Additional Controls

- **Retrig**: Resets the sequencer on note retrigger.
- **Jumble**: Randomizes parameters for new sound settings.
- **Presets**: Load factory presets.