MC-101 Studio User Manual

Version 1.0

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Introduction

MC-101 Studio is a multi-editor application designed to interact with a Roland MC-101 via MIDI. It offers a streamlined interface for controlling sounds, scenes, clips, and a specialized "scatter" function for sending Note On/Note Off messages for performance and debugging.

Overview of Features

- **Sound Editor:** Adjust up to 25 sound parameters using sliders and toggle controls. Parameters are stored per MIDI channel.
- **Clip Editor:** Sends Program Change messages on fixed MIDI channel 16. Rename clip buttons via double-click; only the last selected clip remains highlighted.
- **Scene Editor:** Provides 128 scene buttons arranged in a grid with 16 columns. Each button can be renamed, and the selected scene is highlighted. All scene data is stored in the project.
- **Scatter Editor:** Offers 16 buttons in a 4×4 grid that send Note On/Note Off messages for MIDI notes 60 to 75. The buttons toggle their state (active/inactive)—

only one may be active at a time—and can be renamed.

- **Project Management:** Save, Save As, Open, and New project options allow you to store or load all editor settings into a single project file (.mc101proj).

Installation and Setup

1. **Compile the Application:** Ensure that the Java Development Kit (JDK) is installed on your system. Use the provided Makefile or compile manually using your preferred method.
2. **Running the Application:** Execute the application (for example, by running `java -jar MC101Studio.jar` from the command line).
3. **MIDI Connection:** Connect your MIDI device (such as a Roland MC-101). The application will attempt to connect to a matching device.

Application Interface

Sound Editor

The Sound Editor features a MIDI channel selector and 25 parameter controls. These controls include sliders for continuous values and toggle buttons for on/off settings. You can adjust parameters to modify sound characteristics such as volume, modulation, and filter settings. Each parameter is stored per MIDI channel.

Clip Editor

The Clip Editor displays a grid of 16 buttons (2 rows × 8 columns). Clicking on a button sends a Program Change message on fixed MIDI channel 16 and highlights the selected button in green. Double-click a button to rename it. The clip names and the last selected clip are saved with your project.

Scene Editor

The Scene Editor provides 128 scene buttons arranged in a grid with 16 columns. Clicking on a scene button sends a Program Change message and highlights the selected scene in green. You can rename a scene button by double-clicking it. All scene button names are stored in the project file.

Scatter Editor

The Scatter Editor contains 16 buttons arranged in a 4×4 grid. Each button sends Note On/Note Off messages for MIDI notes 60 to 75. The toggle behavior is as follows:

- If a button is inactive, clicking it sends a Note On message and highlights it in green.
- If the active button is clicked again, it sends a Note Off message and the highlight is removed.
- If a different button is clicked, the previously active button is deactivated (sending a Note Off), and the new button is activated (sending a Note On).

Double-click a scatter button to rename it. The button names, but not the active state, are saved to the project.

Saving, Loading, and Project Management

The File menu provides the following options:

- **New Project (CMD/CTRL+N):** Resets all editors to their default state and clears any open project file.
- **Save (CMD/CTRL+S):** Saves the current project to the open file without further confirmation, or prompts for a location if none is open.
- **Save As:** Always prompts for a location and, if necessary, confirms before overwriting an existing file.
- **Open Project (CMD/CTRL+O):** Opens a previously saved project, restoring all editor settings (active selections reset).
- **Exit:** Closes the application.

Project settings are stored in a properties file with the extension `.mc101proj`.

Troubleshooting

- **MIDI Device Connection:** If the application cannot connect to your MIDI device, verify all cable connections and device configurations.
- **Lost Clicks:** If button clicks appear unresponsive, try using a moderate click pace and ensure your system isn't overloading the event dispatcher thread.
- **File I/O Issues:** Ensure you have proper permissions to save and open files in your chosen directories. Check the console for error details if problems persist.

Future Enhancements

- Implement more advanced debounce logic for very rapid clicks.

- Expand user customization options for MIDI messages and control mappings.
- Enhance preset management and additional interface tweaks.

Contact and Support

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