Oenkenstein Audio

# ROADS MK II
# Stage Piano


# Operation Manual

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# Content

# 1. Introduction

Roads MK II Stage Piano is an emulation of a 73 keys Rhodes MK II Stage Piano. This Rack Extension mimics the sound off the original hardware.

Included are 17 patches.

## 1.1 Description

Roads MK II Stage Piano is build as a Rompler. A Rompler is an electronic music instrument that plays prefabricated sounds based on audio samples. The term Rompler is a portmanteau of the terms ROM and sampler.

This device is aimed for those who want to:

- Wants a good emulation of the classic sound from the original hardware Rhodes MK II Stage Piano.
- Have a small collection of instrument patches ready for use in the studio or on stage.
- Make use of the chorus, flanger, phaser and reverb effects patches. They emulate components in a speaker amplifier.

Main difference between the Roads MK II Stage Piano and the Roads MK I Electric Piano is the sound and the addition of more velocity layers to improve dynamic playing. The back panel comes with a velocity layers mixer and a hammer solo switch.

**Specifications**

- Minimal requirements for the Rack Extension: Duo Core based computer with at least 2 GHz processor, 4 GB of RAM and Reason Studios Reason 10.2 or higher running on Windows or Mac OSX.
- Type of device: Rompler.
- Method of synthesis: Additive 24 bit wavetable synthesis.
- CV (Control Voltage) Out for the Velocity of a keyboard or sequencer.
- CV In for Gate/Note, Boost and Volume.
- Controllers:
    1. Spread.
    2. Warm.
    3. Hammer.
    4. Bass Boost.
- 5 velocity layers mixer controllers.
- Hammer Solo switch.



## 1.2 Front and Back Panels

Roads MK II Stage Piano front panel:


Roads MK II Stage Piano back panel:

# 2. Front of the device


## 2.1 Front panel overview

- **Patch Browser**.
- **Logo**.
- **Device name**.
- **MIDI Note indicator**.
- **Panel** with:
    - Spread.
    - Warm.
    - Hammer.
    - Bass Boost.
    - Volume.

# 3. Front panel


The front panel has 5 controllers. An On / Off switch and 4 knobs.

**Section 1: Spread**


Roads MK II Stage Piano has stereo audio output. Spread is added to the Roads MK II Stage Piano to provide a stereo panning based on the key played. Notes F0 to Ais2 are panned to the left channel. Notes B2 to F6 are panned to the right channel.

- **Spread** (Spread On Off): Determines whether Spread is added to the signal chain (Scale: On / Off. Default: Off).

**Section 2: Warm**


Warm applies a filter on the mid and high frequencies for a more warm sound.

- . **Warm**: Determines the amount of the filter is added (Scale: 0 / 100. Default: 0).

**Section 3: Hammer**


Hammer adds the acoustic recorded hammering on the keys to the audio signal. The back panel provides a Solo Hammer switch. Once activated only the sound of the hammering is played.

- **Hammer**: Determines the amount of key hammer on is added (Scale: -∞ dB / +12,0 dB. Default: -∞ dB).

### Section 4: Bass Boost


The Bass Boost in Roads MK II Stage Piano applies an equalizer on the low frequencies for a more warm and full sound on the bass.

- **Bass Boost**: Determines the amount of equalizer boost (Scale: 0 / 100. Default: 50).

### Section 5: Volume


- **Volume**: Determines the master volume (Scale: -∞ dB / +12,0 dB. Default: 0,0 dB).

# 4. Back of the device


## 4.1 Back panel overview

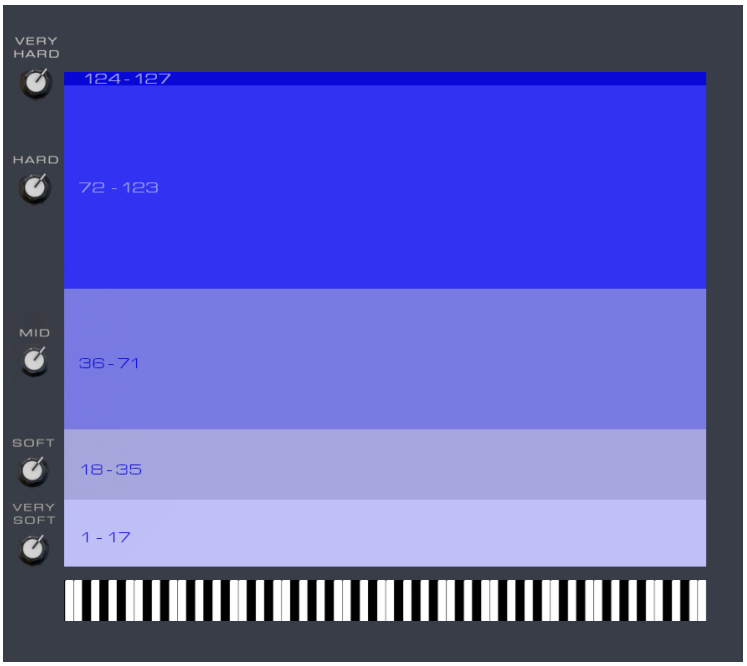
- **Logo**.
- **Device name**.
- **MIDI Note indicator**.
- **Manufacturer information**
- **Power plug and power switch**.
- **Panel** with:
    - Velocity Layers mixer.
    - Audio Out.
    - CV Out Velocity.
    - Hammer Solo
    - CV In Gate / Note
    - CV In Bass Boost.
    - CV In Volume.

# 5. Back panel


The back panel has 7 sections. Velocity layers (1), Audio Out (2), CV Out Velocity (3), Hammer Solo (4), CV In Gate / Note (5), CV In Boost (6) and CV in Volume (7)..

**Section 1: Velocity Layers mixer**


Velocity layers are groups of samples played based on velocity. There are 5 layers: Very soft, Soft, Middle, Hard and Very hard. The volume of a layer can be changed with the mixer.




- **Very soft**: Determines whether the amount of volume of the very soft velocity layer (Scale: -∞ / +12,0 dB. Default: -0,1 dB). The very soft velocity layer is triggered when the velocity range is between 1 and 17.
- **Soft**: Determines whether the amount of volume of the soft velocity layer (Scale: -∞ / +12,0 dB. Default: -0,1 dB). The soft velocity layer is triggered when the velocity range is between 18 and 35.
- **MIddle**: Determines whether the amount of volume of the middle velocity layer (Scale: -∞ / +12,0 dB. Default: -0,1 dB). The middle velocity layer is triggered when the velocity range is between 36 and 71.
- **Hard**: Determines whether the amount of volume of the hard velocity layer (Scale: -∞ / +12,0 dB. Default: -0,1 dB). The hard velocity layer is triggered when the velocity range is between 72 and 123.

- **Very Hard**: Determines whether the amount of volume of the very hard velocity layer (Scale: -∞ / +12,0 dB. Default: -0,1 dB). The very hard velocity layer is triggered when the velocity range is between 124 and 127.

**Section 2: Audio Out**


- **Left Right** (Left / Mono and Right Out): Master audio output.

**Section 3: CV Out**


Velocity CV output sends unipolar CV (Control Voltage) to other devices in the rack.

- **CV Out Velocity** (Velocity CV Output): Velocity CV output.

**Section 4: Hammer Solo**


Hammer adds the acoustic recorded hammering on the keys of the Roads MK II Stage Piano to the audio signal. Once activated only the sound of the hammering on the keyboard is played.

- **Hammer Solo Switch**: Determines whether hammering is played solo (Scale: On / Off. Default: Off).

**Section 5: CV In Gate / Note**


CV input receives unipolar CV (Control Voltage) from other devices in the rack.

- **CV In Gate Note** (Gate CV Input and Note CV Input): CV Gate and Note input.

**Section 6: CV In Boost**


- **CV In Boost** (Boost CV Input): CV Bass Boost input.

**Section 7: CV In Volume**


- **Volume** (Volume CV Input): CV Volume input. Connect an LFO to the Volume CV Input and change the LFO Rate to mimic vibrato. Load the Roads Mk2 Vibrato Hall.cmb combinator patch as an example.

# 6. Patch list

Lists all the patches included in the Roads MK II Stage Piano Rack Extension. There are 17 patches.

**Folder structure:**
Root (17 patches)

**Root folder**:

- Roads Mk2 Arpy.cmb
- Roads Mk2 Chorus.cmb
- Roads Mk2 Init Reason12.cmb
- Roads Mk2 Little Hammer.repatch
- Roads Mk2 On Stage.cmb
- Roads Mk2 On the Road.cmb
- Roads Mk2 Paint.cmb
- Roads Mk2 Phaser & Chorus.cmb
- Roads Mk2 Phaser.cmb
- Roads Mk2 Pressor.cmb
- Roads Mk2 Reason12.cmb
- Roads Mk2 Scaled Velocity.repatch
- Roads Mk2 The Cold Hall.cmb
- Roads Mk2 Vibrato Hall.cmb
- Roads Mk2 Warm Fireplace.repatch
- Roads Mk2.cmb
- Roads Mk2.repatch

# 7. Credits

- Milko Lippe for providing his Rhodes MK II and recording the samples.


- Reasontalk, forum beta test hosting.
- All the beta testers.

# 8. Appendixes

**Browsing patches**
Changing .repatch files in the Patch Browser while notes are sustained may cause a sudden jump in volume and will play the sound from the current patch with the settings of the new patch. The sudden jump disappears when the instrument is included in a Combinator.

## 9. MIDI Implementation Chart

In the table below, first the MIDI CC Number is mentioned and is followed by the name of the function in Roads MK II Stage Piano:

12 = Spread_On_Off
13 = Warm
14 = Hammer
15 = Bass_Boost
16 = Volume

## 10. Device Remote information

| Scope Oenkenstein Audio nl.oenkenstein.ROADSMK2 | | | | |
|---|---|---|---|---|
| **Remotable** | **Min** | **Max** | **Input type** | **Output type** |
| Spread On Off | 0 | 1 | Toggle | ValueOutput |
| Warm | 0 | 4194304 | Value | ValueOutput |
| Hammer | 0 | 4194304 | Value | ValueOutput |
| Bass Boost | 0 | 4194304 | Value | ValueOutput |
| Volume | 0 | 4194304 | Value | ValueOutput |
| Mod Wheel | 0 | 127 | Value | ValueOutput |
| Breath Control | 0 | 127 | Value | ValueOutput |
| Expression | 0 | 127 | Value | ValueOutput |
| Sustain Pedal | 0 | 127 | Value | ValueOutput |
| Aftertouch | 0 | 127 | Value | ValueOutput |
| Pitch Bend | -8192 | 8191 | Value | ValueOutput |
| Device Name | 0 | 0 | - | TextOutput |
| Patch Name | 0 | 0 | - | TextOutput |
| Select Patch Delta | 0 | 0 | Delta | TextOutput |
| Select Previous Patch | 0 | 0 | Trig | TextOutput |
| Select Next Patch | 0 | 0 | Trig | TextOutput |