

RELOOP® RP8000MK2 PLATTER PLAY MODE

Rev 1.0



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1. INTRODUCTION

Platter Play is a term which refers to performing musically by controlling the turntable platter speed via the performance pads. It allows you to use the turntable as much more of an instrument in the hands of a musician. So the traditional turntable which has historically been used to play and mix music, can now be used to create music like any other musical instrument. Through Platter Play, you are now able to play complete melodies in a wide variety of 22 scales and 34 keys. Any sound that can be played on a turntable, can now be manipulated to the highest degree ever possible on a turntable.

2. OVERVIEW

2.1. DIAGRAM OF FUNCTIONS

2.1.1. PLATTER PLAY TOGGLE

To enter and exit Platter Play mode press Shift+Reset or double-tap Reset-button. You can also exit Platter Play mode by selecting any performance mode on the RP8000mk2.

2.1.2. PAD SECTION

In regular Platter Play mode, pads will be illuminated in either red, green or yellow, according to the currently selected octave range. Pressing any pad will result in the dedicated speed change of the platter, which will in turn, result in the corresponding key change to any sound playing on the turntable.

2.1.3. OCTAVE RANGE SELECTOR

Turning the encoder allows you to cycle through the octaves in your chosen scale, and the corresponding keys within that particular octave.

2.1.4. SCALE SELECTION

The Scale Selection buttons can be used to cycle through and select any of the 22 scales.

2.1.5. The currently selected scale will be displayed in the LED display and will toggle to the corresponding key whenever a pad is pressed and held.

2.1.6. EXTERNAL PLATTER PLAY CONTROL

The turntable platter can also be controlled by connecting a compatible external midi device, such as a midi keyboard.



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3. KEYS AND SCALES

3.1. THEORY

In the world of music, there are 12 different notes that exist which when arranged in sequence, make up an octave. Every piece of music is built on a combination of some or all of these 12 notes:

C, C#, D, D#, E, F, F#, G, G#, A, A#, B

The same notes can be played in higher or lower octaves, for example a C3 is the same note as a C4 but one octave lower, and a C5 is an octave higher, respectively.

The octave shown above is also known as the Chromatic Scale which is all 12 musical notes in an ascending order. There are several other scales comprising of different sets of these notes, for example:

The Major Scale is: C, D, E, F, G, A, B

The Minor Scale is: C, D, D#, F, G, G#, A#

Many pieces of music are written using specific scales and the corresponding notes within them, for example "The Beatles – Let It Be" is written in the Major Pentatonic Scale.

The RP8000mk2 turntable offers the ability to perform using up to 22 different scales. These are:

SCALE NAME	DISPLAY	Notation
CHROMATIC	CHR0	C,C#,D,D#,E,F,F#,G,G#,A,A#,B
MAJOR	MAJ	C,D,E,F,G,A,B
MAJOR HARMONIC	MAH	C,D,E,F,G,G#,B
MAJOR PENTATONIC	PENT	C,D,E,G,A
MINOR	MIN	C,D,D#,F,G,G#,A#
MINOR HARMONIC	MIH	C,D,D#,F,G,G#,B
MINOR PENTATONIC	MIP	C,D#,F,G,A#
BLUES HEXATONIC	bLUE	C,D#,F,F#,G,A#
BLUES HEPTATONIC	bLU7	C,D,D#,F,F#,A,A#
BLUES ENNEATONIC	bLU9	C,D,D#,E,F,F#,G,A,A#,B
WHOLETONE	HOLE	C,D,E,F#,G#,A#
PHRYGIANMODE	PHM	C,C#,D#,F,G,G#,A#
PHRYGIANDOMINANT	PHd	C,C#,E,F,G,G#,A#
DIMINISHED HALFWHOLE	dIH	C,C#,D#,E,F#,G,A,A#
DIMINISHED WHOLEHALF	dIW	C,D,D#,F,F#,G#,A,B
DORIAN	dOrl	C,D,D#,F,G,A,A#
MIXOLODIAN	OLod	C,D,E,F,G,A,A#
MINOR HUNGARIAN	MIH	C,D,D#,F#,G,G#,B
FUSION	FUSE	C,E,F,G,A#
MAQAMHIJAZKAR	HIJA	C,C#,E,F,G,G#,B
MAQAMSHAWQAFZA	AFZA	C,D,E,F,G,A,Bb,B
SCOTTISH PENTATONIC	SPEN	C,D,F,G,A

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3.2.1. WORKFLOW KEYS

Once the RP8000mk2 enters Platter Play mode, the pads no longer control Serato DJ Pro and instead are used to control the platter speed. Each of the 8 pads now correspond to a different musical note value according to the scale selected. So when a sample is playing on the RP8000mk2, the key of this can be manipulated using the pads to create melodies.

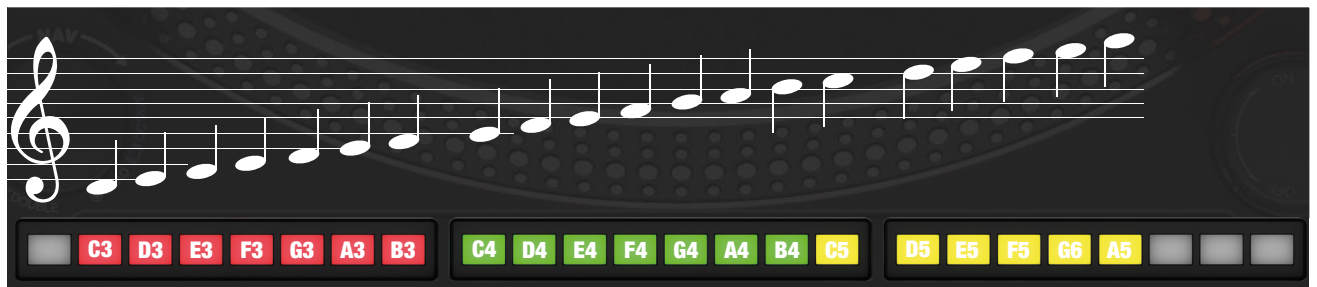
The RP8000mk2 is capable of playing notes in up to 3 different octaves, which are represented by 3 different colours. Green represents the default middle octave (C4), red represents the lower octave (C3), and yellow represents the higher octave (C5). A maximum of 8 notes are shown at any time via the 8 pads so in order to access higher or lower note ranges, the Navigation Encoder can be used to cycle through all available notes within the chosen scale.

Please note that in the higher octave, A5 is the highest note that can be played.

3.2.2. WORKFLOW SCALES

As mentioned, the RP8000mk2 offers up to 22 different scales which are shown in an abbreviated form on the LED display (as detailed in the scale diagram above). These scales can be selected using the pitch range buttons.

As every scale has a different set of notes and therefore shorter or longer octaves, these variations will be reflected by the colours of the pads. For example:



3.2.3. PITCH BEND

Once in Platter Play mode, the function of the 33/45rpm buttons change and no longer serve as RPM buttons. Instead it is now possible to temporarily shift the tone of the sample playing on the RP8000mk2 by pressing the respective Pitch Bend buttons.



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4. CUSTOMIZATION

4.1. CUSTOM KEYS

In addition to the 22 scales available on the RP8000mk2, it is also possible to create up to 10 different custom scales comprising completely of notes of your choice. To create a custom scale, select one of the following scales by cycling through the scale selection.

SCALE NAME	DISPLAY
CUSTOM 1	USR0
CUSTOM 2	USR1
CUSTOM 3	USR2
CUSTOM 4	USR3
CUSTOM 5	USR4
CUSTOM 6	USR5
CUSTOM 7	USR6
CUSTOM 8	USR7
CUSTOM 9	USR8
CUSTOM 10	USR9

To assign any of the available notes (from C3 to A5) to any pad, simply hold the corresponding pad and turn the Navigation Encoder to your desired note. The pad will flash and the note value will be shown in the LED display as you cycle through. Upon release of the pad, the note will become assigned to that specific pad and will stay illuminated in the colour from which octave it belongs to. To delete an assigned note from a pad, hold down on the pad and turn the Navigation Encoder completely anti-clockwise until the pad flashes white, then release.

4.2. The RP8000mk2 also offers advanced Custom Modes which can be accessed by turning the unit off via the rear power switch, then powering the unit back up whilst holding the Shift and Loop buttons. The pads will then illuminate in either red or green indicating which option is active or not. Green represents ON and red represents OFF. The following options are available:

- PAD 1: Turns the extra midi controls on/off
- PAD 2: Turns the startup sequence on/off
- PAD 3: Green indicates that the Reverse button must be pressed and held to be active, and red means the Reverse button can be toggled on and off by pressing it respectively.
- PAD 4: If active, pitch bending can also be executed using the Cue and Loop buttons respectively.
- PAD 5: The 78rpm playing speed can be toggled on and off.

5. EXTERNAL PLATTER PLAY

5.1. It is also possible to control Platter Play by connecting an external midi device to the RP8000mk2. To connect an external midi device to the RP8000mk2, plug the USB device to the TT Link port (USB A type) at the rear of the unit. The midi commands of the external midi device will now be routed into the RP8000mk2. Depending on the deck assignment of each RP8000mk2, specific midi channels are required to be sent from the external midi device. These are as follows:

Deck 1	12
Deck 2	13
Deck 3	14
Deck 4	15



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5.2. The RP8000MK2 can handle up to 35 different speeds which correspond to the following keys:

Notation	MIDI	MIDI 2	Display	MIDI OUT	PITCH +	PITCH -	
A5	9x	51	7F	A5	01-7F	-	G#5
G#5	9x	50	7F	G.5	01-7F	A5	G5
G5	9x	4F	7F	G5	01-7F	G#5	F#5
F#5	9x	4E	7F	F.5	01-7F	G5	F5
F5	9x	4D	7F	F5	01-7F	F#5	E5
E5	9x	4C	7F	E5	01-7F	F5	D#5
D#5	9x	4B	7F	d.5	01-7F	E5	D5
D5	9x	4A	7F	d5	01-7F	D#5	C#5
C#5	9x	49	7F	C.5	01-7F	D5	C5
C5	9x	48	7F	C5	01-7F	C#5	B4
B4	9x	47	7F	b4	01-7F	C5	A#4
A#4	9x	46	7F	A.4	01-7F	B4	A4
A4	9x	45	7F	A4	01-7F	A#4	G#4
G#4	9x	44	7F	G.4	01-7F	A4	G4
G4	9x	43	7F	G4	01-7F	G#4	F#4
F#4	9x	42	7F	F.4	01-7F	G4	F4
F4	9x	41	7F	F4	01-7F	F#4	E4
E4	9x	40	7F	E4	01-7F	F4	D#4
D#4	9x	3F	7F	d.4	01-7F	E4	D4
D4	9x	3E	7F	d4	01-7F	D#4	C#4
C#4	9x	3D	7F	C.4	01-7F	D4	C4
C4	9x	3C	7F	C4	01-7F	C#4	B3
B3	9x	3B	7F	b3	01-7F	C4	A#3
A#3	9x	3A	7F	A.3	01-7F	B3	A3
A3	9x	39	7F	A3	01-7F	A#3	G#3
G#3	9x	38	7F	G.3	01-7F	A3	G3
G3	9x	37	7F	G3	01-7F	G#3	F#3
F#3	9x	36	7F	F.3	01-7F	G3	F3
F3	9x	35	7F	F3	01-7F	F#3	E3
E3	9x	34	7F	E3	01-7F	F3	D#3
D#3	9x	33	7F	d.3	01-7F	E3	D3
D3	9x	32	7F	d3	01-7F	D#3	C#3
C#3	9x	31	7F	C.3	01-7F	D3	C3
C3	9x	30	7F	C3	01-7F	C#3	-
PITCH B. +	9x	06	OFF = 0, ON = 7F	/	OFF = 0, ON = 7F	-	-
PITCH B. -	9x	07	OFF = 0, ON = 7F	/	OFF = 0, ON = 7F	-	-
RESET	9x	0D	OFF = 0, ON = 7F	/	OFF = 0, ON = 7F	-	-
REVERSE	9x	02	OFF = 0, ON = 7F	/	OFF = 0, ON = 7F	-	-

Whilst controlling Platter Play externally, you will still have full access to all Serato DJ pro performance modes.