

# Rane Sixty-One Mixer for Serato DJ



The Sixty-One is a plug-and-play package supporting two-deck digital vinyl simulation, software effects and all the record and playback channels you need.

The Sixty-One Mixer supports both analog and Digital Vinyl Simulation (DVS) playback. The Sixty-One's USB connects to computers running Serato DJ, Scratch Live, or third-party audio programs with ASIO and Core Audio support.

A typical setup includes operation with two Serato DVS channels, SP-6 sample player on an independent USB Aux playback channel and Software effects enabled on the USB digital insert in the FlexFx loop. This setup also allows recording Deck 1 post-fader, Deck 2 post-fader and the Main mix.

If you are looking for the same bullet-proof construction, pristine audio quality and integrated 20-channel sound card, but would like added hardware effects, a second USB port to share with another DJ and their laptop, dedicated controls for Library, Loops, Cues and the SP-6 sampler, see the Rane Sixty-Two Mixer.



- The USB 2.0 port supports 6 stereo record and 4 stereo playback channels.
- Great-sounding 32-bit floating-point audio processing sampled at 48 kHz.
- Deck controls include a Gain trim, 3-band full-cut isolator tone controls, Left/Right Pan, and a sweepable High/Low-pass Filter.
- Mic/line input is on a XLR/TRS jack with a trim, two-band EQ, and FlexFx assign.
- External analog insert provided for an analog effects processor.
- USB Insert for the software FX in Serato DJ.
- USB Aux Input for SP-6 sample playback with its own Headphone Cue and FlexFx.
- Magnetic crossfader and channel faders with top panel reverse and contour controls.
- All controls are MIDI-mappable.
- Unit size: 13.3" x 10" x 4" (33.8 cm x 25.4 cm x 10.2 cm).



serato DJ

RANE SIXTY-ONE

The Sixty-One includes Serato DJ with 2 Serato Control Vinyl and 2 Serato Control CDs.

# Sixty-One Mixer Controls

This switchable Mic or Line level input has 2-band full-cut tone controls. The Mic can route to FlexFX or record to a USB output.

Two Program buses:

- Select USB channel for playback.
- Four Phono / Line Inputs.
- Left / Right Pan.
- 3-band full-cut tone controls.
- Sweepable Low / High-pass filter.

Level control for each Output:

- Main Output on 1/4" TRS
- Session Output on RCA

FlexFX are stackable:

- External Insert engages the external analog Effects Loop.
- $\leftrightarrow$  Insert engages software effects through USB, can be Serato FX or any VST / AU effects.

$\leftrightarrow$  Aux Input is from the USB playback stereo pair 5-6, usually from the Serato SP-6 sample player. You can apply FlexFX to samples.

The FlexFx Loop can create a sub-mix with any combination of the two Program buses, Mic, and  $\leftrightarrow$  Aux feed, and then add external software and hardware effects. This submix may be recorded via the USB Send, or output by the analog FlexFx Loop Send.

The Crossfader and channel faders are no-noise, no-bleed, no-contact magnetic faders.



Session Input may connect two mixers together, or as a general purpose auxiliary input.

True Split Cue for any Deck or FlexFX submix with effects heard at the front panel 1/4" and 3.5mm headphone jacks.

Mute joysticks temporarily cut the signal in any direction, also known as "transform" switches.

Channel Swap switches the left or right fader between Deck 1 and Deck 2. Contour controls adjust faders and crossfader for a smooth transition or a fast cut. Faders can be individually reversed.

## MIDI Control

MIDI mapping is done for you as the Sixty-One is plug-and-play with Serato DJ and Scratch Live. Advanced users can custom map most mixer controls to many other third-party audio programs. The MIDI control assignments are in the Sixty-One Manual.

# Sixty-One Effects

## FlexFx

The FlexFx Bus in the Sixty-One works differently than other basic effect insert solutions. The FlexFx Bus is more like an auxiliary bus that can have multiple signals assigned to it. Those combined signals can have external analog effects and external USB effects applied in any combination. This architecture is very flexible and not at all like simply inserting an effect in a signal path and turning it on.

The order of processing in the FlexFx Bus is:

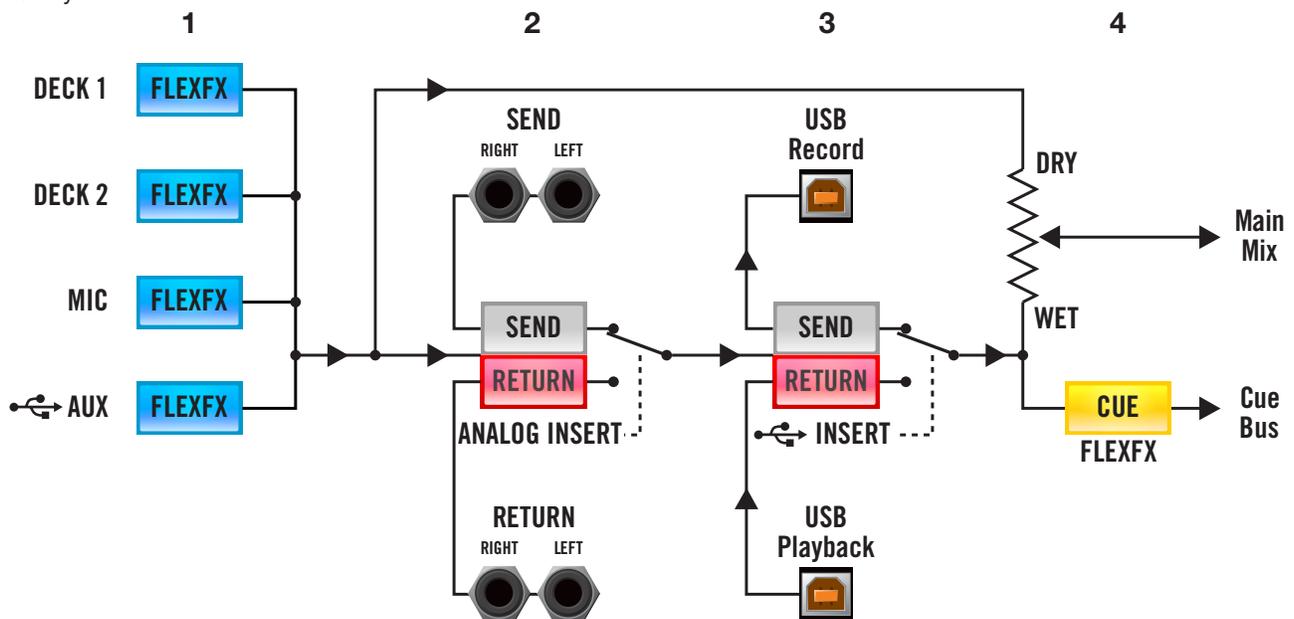
1. FlexFx assign for each Deck 1, Deck 2, USB AUX and MIC.
2. External Analog Insert
3. USB Insert
4. Cue
5. Wet / Dry

## External Audio Effects

Your favorite stereo effects unit, connected to the FlexFX Loop Send and Return, can be inserted independently or in combination with other effects.

## USB Effects

Serato DJ includes FX powered by industry leaders iZotope, enabling you to manipulate your songs and add another dimension to your mix. Additional iZotope FX Expansion packs can be purchased to grow your arsenal of FX. Enable and control the FX in Serato DJ or Scratch Live and apply to the mix by activating the FlexFX  Insert.



## USB Port Can stream 20 channels of low-latency audio.

USB Playback	Stereo Pair	Serato DJ Description	Mixer Use
1	1-2	Left Virtual Deck Output	Select as Deck 1 or Deck 2 Source
2	3-4	Right Virtual Deck Output	Select as Deck 1 or Deck 2 Source
3	5-6	SP-6 Output Option	USB AUX Source
4	7-8	DJ Effects Return to the Mixer	FlexFx  Insert Return
<b>USB Record</b>			
1	1-2	Record Source Deck 1	Deck 1 Post Fader and Post Crossfader Output
2	3-4	Record Source Deck 2	Deck 2 Post Fader and Post Crossfader Output
3	5-6	Record or DVS Control for Left Deck	Selects PH/CD-1 or PH/CD-2 in Control Panel
4	7-8	Record or DVS Control for Right Deck	Selects PH/CD-3 or PH/CD-4 in Control Panel
5	9-10	DJ Effects Send from the Mixer	FlexFx  Insert Send
6	11-12	Record the Main Mix or Mic	Select Main Mix or Mic in the Control Panel

# Sixty-One Specifications

All specifications typical unless otherwise stated	
Analog Inputs	4 Stereo unbalanced RCA jacks
.....Phono or Line level input	Rear panel switches for each input
.....Phono Response	RIAA $\pm 1$ dB, Gain: 31 dB at 1 kHz
.....Max Phono Input	126 mV
.....Max Line Input	4 Vrms
ADCs	24-bit, 48 kHz; Dynamic range 101 dB A-weighted
DACs	24-bit, 48 kHz; Dynamic range 107 dB A-weighted
Digital Signal Processing	48 kHz, 32-bit floating point
USB Audio	Six Stereo Record, Four Stereo Playback
.....	48 kHz, 32-bit floating point
FlexFX Return	Stereo unbalanced 1/4" TS (tip-sleeve) phone jack
FlexFX Send	Stereo unbalanced 1/4" TS phone jack
Mic Input	Balanced 1/4" TRS & XLR combination jack
.....Tone Controls	2-band, High and Low
.....Mic-Line level switch	Choose Line to connect wireless receiver
Line Outputs: Frequency Response	20 Hz to 20 kHz $\pm 0.25$ dB, Line in to Line out
.....THD+N	<0.01% re 0 dBFS, 20 to 20 kHz, 20 kHz BW
.....Unbalanced jacks (RCA & FlexFX)	Maximum 4 Vrms
.....Balanced jacks (Main 1/4")	Maximum 8 Vrms
Universal Power Supply	100 to 240 VAC, 50 Hz to 60 Hz, 15 W max
USB Power	Mixer is self-powered
Unit: Conformity	CE, FCC, cCSAus
.....Size	13.3" x 10" x 4" (33.8 x 25.4 x 10.2 cm)
.....Weight	8 lb (3.7 kg)
Shipping Size	7.75" H x 15" W x 19.25" D (19.7 x 38.1 x 49 cm)
.....Weight	12 lb (5.5 kg)

## ASIO & Core Audio Drivers

These included drivers allow the Sixty-One to act as a 8-in 12-out USB external sound card for use with multiple third-party software clients supporting Core Audio (Mac) or ASIO (Windows). The Sixty-One controls are MIDI-mappable with supporting software.

## Serato DJ

Rane is pleased to announce that the Sixty-One which previously included Serato Scratch Live software is now fully supported by Serato DJ software. DJs currently using Serato Scratch Live have the option to migrate to the new and improved Serato DJ free of charge. If you're familiar with Scratch Live, the transition to Serato DJ is easy and intuitive.

## Computer Requirements

Before purchasing a Mac or PC, please check [serato.com](http://serato.com) for best results with the latest version of Serato DJ.

## Serato Control

Mix files from your computer hard drive using Serato Control Vinyl, Serato Control CD or approved USB Controllers. The Serato Control Vinyl and Control CDs each contain the Serato NoiseMap™ Control Tone, a unique control signal which allows Serato DJ or Scratch Live to track the motion of the record, simulating the same movement with digital audio.

## Included in the Box

- Sixty-One Mixer
- USB cable
- Printed color manuals
- 2 Serato Control Vinyl Records
- 2 Serato Control CDs
- Serato DJ software install disc
- IEC C13 line cord



## [serato.com](http://serato.com)

Features are being added and improved, and the latest version of Serato DJ or Scratch Live is a free download. The Forum at [serato.com](http://serato.com) is the best place for technical support and performance tips from thousands of other DJs.

## [whitelabel.net](http://whitelabel.net)

The Serato Whitelabel Delivery Network is a unique system that allows record labels to digitally deliver promotional releases directly to Serato DJs. To download Whitelabel audio files and sign up for updates on the latest promotional releases, visit [whitelabel.net](http://whitelabel.net).

## [dj.rane.com](http://dj.rane.com)

Visit the Rane DJ website for the most up-to-date information on all Rane hardware, manuals, accessories, support, community, newsletter and the blog.

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