RANE SIXTY-ONE MIXER FOR SERATO SCRATCH LIVE

DATA SHEET

Turntablism is alive and more creative than ever. Rane and Serato are proud to be supporting partners in that creativity with the introduction of the Rane Sixty-One and Sixty-Two Mixers for Serato Scratch Live. For more than a decade, artists have chosen innovative Rane instruments to advance their art and three generations of TTM series mixers have been the top pick for many of the world's best performers. These mixers more tightly integrate performers, music, software, and hardware. The artist adds the passion, imagination and skills.

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 mixer is bundled with Serato Scratch Live and includes ASIO and Core Audio drivers to use other audio programs.

A typical setup includes operation with two Scratch Live 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 PGM-1 post-fader, PGM-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, consider the Rane Sixty-Two Mixer. Details are at rane.com.

- Bundled with Serato Scratch Live along with ASIO and Core Audio Drivers.
- The USB 2.0 port supports six stereo record and four stereo playback channels.
- 32-bit floating point audio processing sampled at 48 kHz.
- PGM controls include:
  - Gain trim, 3-band full-cut EQ, Left/Right Pan, HP/LP Filter with adjustable resonance.
  - FlexFx assign, Headphone Cue assign, Q-peak meter.
  - Magnetic fader with contour and reverse controls.
- Mic/line switchable input on XLR/TRS jack with gain trim, two-band EQ, and FlexFx assign.
- External analog insert for analog effects processor
- USB Insert for software effects such as DJ-FX in Serato Scratch Live.
- USB Aux Input for SP-6 sample playback with Headphone Cue and FlexFx assign.
- Magnetic crossfader and channel faders with reverse and contour controls.

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.
• ⟿ Insert engages software effects through USB. These can be DJ-FX from Serato or VST / AU effects.

⟿Aux Input is from the USB playback stereo pair 5-6, usually from the 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 ⟿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 PGM bus 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 PGM 1 and PGM 2. Contour controls adjust faders and crossfader for a smooth transistion 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 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.

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.
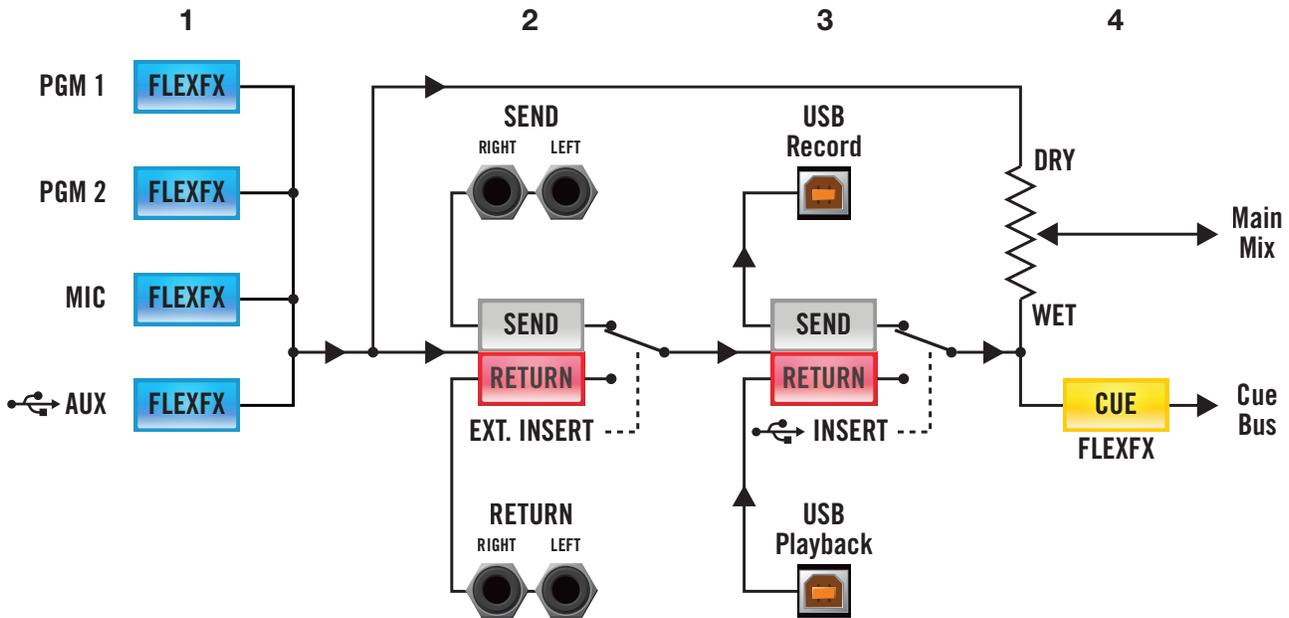
The order of processing in the FlexFx Bus is:
1. FlexFx assign for each PGM1, PGM2, USB AUX and MIC.
2. Ext. Analog Insert
3. USB Insert
4. Cue
5. Wet / Dry

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

The DJ-FX plugin included with Scratch Live gives you control of two more FX units, each with three chained effects slots per unit. Enable and control DJ-FX in Scratch Live and apply by using the FlexFX ⟷ Insert.

USB PORT

The USB port can stream 20 channels of low-latency audio.

USB PLAYBACK	STEREO PAIR	SCRATCH LIVE DESCRIPTION	MIXER USE
1	1-2	Left Virtual Deck Output	Select as PGM-1 or PGM-2 Source
2	3-4	Right Virtual Deck Output	Select as PGM-1 or PGM-2 Source
3	5-6	SP-6 Output Option	USB AUX Source
4	7-8	DJ Effects Return to the Mixer	FlexFX ⟷ Insert Return
USB RECORD			
1	1-2	Record Source PGM-1	PGM-1 Post Fader and Post Crossfader Output
2	3-4	Record Source PGM-2	PGM-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 ±1 dB, Gain: 30 dB at 1 kHz
…...Max Phono Input	150 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 ¼″ TS (tip-sleeve) phone jack
FlexFX Send	Stereo unbalanced ¼″ TS phone jack
Mic Input	Balanced ¼″ 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 ±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 Size	13.3″ x 10″ x 4″ (33.8 cm x 25.4 cm x 10.2 cm)
......Weight	8 lb (3.7 kg)
Shipping Size	7.75″ H x 15″ W x 19.25″ D (19.7 cm x 38.1 cm x 49 cm)
......Weight	12 lb (5.5 kg)

INCLUDED IN THE BOX

- Sixty-One Mixer
- 1 USB cable
- Printed color manual
- Quick Start / Keyboard Shortcuts page
- 2 Serato Control Vinyl Records
- 2 Serato Control CDs
- Scratch Live software install disc
- IEC C5 line cord.

SERATO.COM

New features are always being added and improved, and the latest version of Scratch Live is a free download. The Forum at serato. com is the best place for technical support and performance tips from thousands of other DJs.

WHITELABEL.NET

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

RANE.COM

Visit the Rane website for the most up-to-date information on all Rane hardware, manuals, accessories, RaneNotes, and the Rane Pro Audio Reference. USA customers may purchase accessories from the online store.

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 SCRATCH LIVE

The features and functionality of your mixer will improve with each new release of Scratch Live software — and all Scratch Live updates are free! See details in the Scratch Live Data Sheet or at serato.com.

COMPUTER REQUIREMENTS

Before purchasing a Mac or PC, please check serato.com for best results with the latest version of Scratch Live.

SERATO CONTROL

Mix and scratch files from your computer hard drive using Serato Control Vinyl, Serato Control CD or Approved USB Controllers.

Serato Control Vinyl and Control CD

The Serato Control Vinyl and Control CDs each contain the Noise Map Control Tone, a unique control signal which allows Scratch Live to track the motion of the record, simulating the same movement with digital audio.

Official Serato Accessories (optional)

Serato has certified a select range of controllers with USB connectivity to Scratch Live. This means that Scratch Live can send track information from the software to the supported hardware on-board displays. You can also use the platters, buttons and sliders instantly, as supported hardware has pre-mapped controls for a no-fuss setup. Check serato.com for the latest Serato Approved USB Controllers.