
Roland S-50 / S-330 / S-550

This section describes the use of the Roland S-50, S-330 and S-550 samplers with SampleVision. There are separate drivers for the three samplers, but their operation with SampleVision is nearly identical. The differences in operation will be pointed out where necessary.

Understanding of the following terms is vital to using the S-50, S-330, or S-550 driver:

Wave Data

The recorded (sampled) sound is stored in the samplers memory as numeric data.

Wave Bank

An area of memory in the sampler where wave data is stored. The S-50 and S-330 have two Wave Banks, and the S-550 has four. Each Wave Bank can store up to 221184 samples which is 14.4 seconds of sound at 15Khz sampling rate or 7.2 seconds at 30Khz sampling rate.

Segment

Each Wave Bank is divided into 18 equal parts called segments. A segment contains 12288 samples which is 0.4 seconds of sound at 15Khz sampling rate or 0.8 seconds at 30Khz sampling rate.

Tone

A group of parameters which determine how a particular segment or segments of Wave Data will be played back by the sampler. A tone's wave data can be shared by other tones which are called sub tones. A sub tone can play exactly the same wave data as its original tone, or play a completely different area within the segment range of the original tone. The S-50 and S-330 have 32 Tone locations, while the S-550 has 64 tone locations.

The following tone parameters are of particular interest when using SampleVision:

- **Tone Name** - The name assigned to the tone.

- **Source Tone** - If the tone is a sub tone this shows the original tone whose wave data this tone uses.
- **Original/Sub Tone** - This shows whether the tone is an original or sub tone.
- **Sampling Frequency** - The sample rate that the wave data will be played back by the sampler.
- **Wave Bank** - Shows which bank contains the wave data that this tone plays.
- **Wave Segment Top** - Indicates the first segment that contains wave data the tone uses for playback.
- **Wave Segment Length** - The count of segments which contain wave data that the tone uses.
- **Start Point** - The distance in samples from the beginning of the segment indicated by Wave Segment Top to where the actual playback will begin.
- **End Point** - The distance in samples from the beginning of the segment indicated by Wave Segment Top to where the actual playback will end. The End Point is also used for the Loop End point.
- **Loop Point** - The distance in samples from the beginning of the segment indicated by Wave Segment Top to the where Loop Start point is.
- **Loop Mode** - The type of looping that is to be used.

Please consult the S-50, S-330, or S-550 owner's manual for more information on these terms.

To get the sample data for a tone from the sampler, take the following steps:

- Make sure the MIDI parameter Midi Exclusive is set to ON.
- Make sure the correct sampler driver is active in SampleVision.

**Receiving
samples
from the
S-50, S-330,
or S-550**

- Select **Get from Sampler** from the **Sample** pulldown menu or press the **F7** function key on the PC keyboard.
- The **Tone selector** will appear on the screen containing a list of possible tone positions and the current contents of those positions.

The notation on each line indicates the tone number, tone name, and the segment status of the tone. If it is an original tone the bank number and segment time for the tone is indicated. If it is a sub tone the original tone associated with it is indicated by the **SUB XX** notation.

If the S-550 driver is being used the tone number will have a small arrow as the third character. If the arrow points down, the wave data is stored in the lower two memory banks. If the arrow points up, the wave data is stored in the upper two memory banks. Roland refers to the lower and upper banks as Roman numerals **I** and **II** respectively.

- Using the scroll bar, locate the tone that you wish to receive and click on that position.
- Click on **OK** or press the PC's **Enter** key.

**Sending
samples to
the S-50,
S-330, or
S-550**

To send a sample to the sampler, perform the following steps:

- Make sure the MIDI parameter **Midi Exclusive** is set to **ON**.
- Make sure the correct sampler driver is active in **SampleVision**.
- Select **Send to Sampler** from the **Sample** pulldown menu or press the **F8** function key on the PC keyboard.
- The **tone selector** will appear on the screen containing a list of possible tone positions and the current contents of those positions. This list uses the same notation as the **tone selector** that appears when receiving sample data.

**Setting loops
with the
S-50, S-330,
or S-550**

- Using the scroll bar, locate the position that you wish to send the sample to and click on that position.
- Click on OK or press the PC's Enter key.

The loop settings for a given sample can be set three different ways:

- The current loop settings for a sample will be sent along with the sample when you send the whole sample to the sampler.
- If the loop is turned on, the loop start and end will be updated in the sampler when you double click on a loop marker in the sample edit mode of SampleVision.
- The desired loop type, loop start, and loop end will be updated automatically when changed in the loop editor mode of SampleVision.