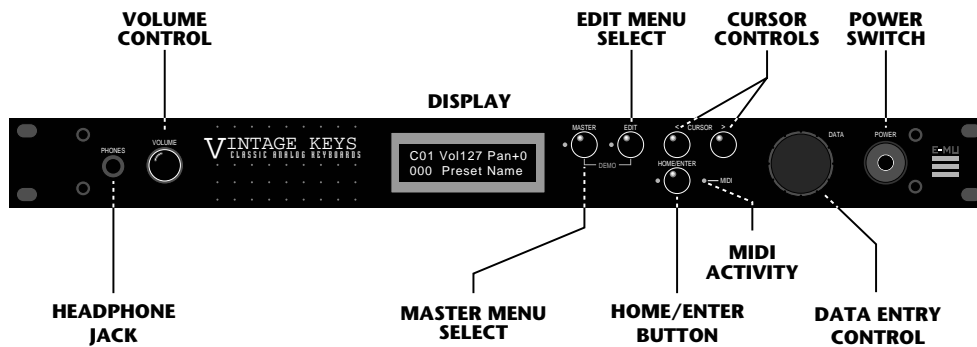


BASIC OPERATION

MAIN CONTROLS



Power Switch

Switches AC power to Vintage Keys On and Off.

MIDI Activity LED

Indicates that MIDI data is being received.

Master Menu Select Button

The Master menu contains parameters that affect the entire machine, not just certain presets. An illuminated LED to the left of the button indicates that you are in the Master menu.

Edit Menu Select Button

The Edit menu is used when you want to change parameters of a preset. An illuminated LED to the left of the button indicates that you are in the Edit menu.

Home/Enter Button

The Home/Enter button is used to initiate a particular operation. The red LED to the left of the enter button flashes to let you know that Vintage Keys is waiting for your response.

Cursor Control

This button moves the cursor to the next parameter on the display. (The cursor is a little flashing line underneath one of the parameters in the display.) Press the cursor control repeatedly until the cursor is underneath the desired parameter. The cursor can also be moved bidirectionally using the data entry control while the cursor select button is being held down (i.e. Press and hold the cursor button and turn the data entry knob).

Data Entry Control

The data entry control is a stepped, variable control which is used to change parameter values. The control increments or decrements the current value one unit with each click. This control incorporates acceleration (values advance faster if the control is turned quickly).

Volume Control

This is the master volume control for all audio outputs. Note: For maximum dynamic range, set this control at full level.

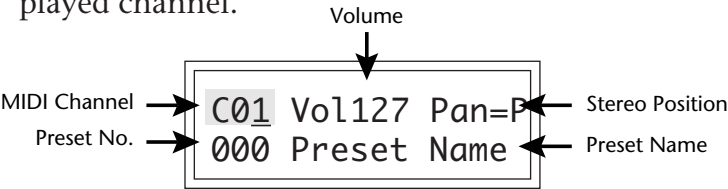
••• If Vintage Keys is not responding properly or plays the wrong preset, make sure that both Vintage Keys and your MIDI controller are set to the same MIDI channel and that the MIDI Volume is turned up.

For more information about MIDI, see MIDI Realtime Controls on page 40.

••• Channel Pan should normally be set to "P" unless realtime control of panning is desired. This will allow the programmed pan setting for each preset to be used.

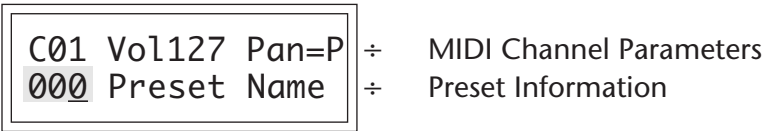
MIDI CHANNEL SELECTION

Press the cursor key repeatedly until the cursor is underneath the channel number. (The cursor is a little flashing line underneath one of the parameters in the display.) Rotate the data entry control to select MIDI channel 01-16. As the channel is changed, the display will change to show the preset, volume and pan associated with the displayed channel.



PRESET SELECTION

Press the cursor key repeatedly until the cursor is underneath the preset number. (The cursor is a little flashing line underneath one of the parameters in the display.) As the data entry control is rotated, the preset number and name will change. The displayed preset will be assigned to the displayed MIDI channel. Preset numbers range from 000 to 511.



CHANNEL VOLUME

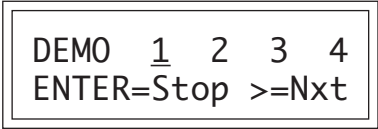
Press the cursor key repeatedly until the cursor is underneath the volume value. Rotate the data entry control to select volume 00-127. (This is the same parameter as MIDI volume control #7, and changes made over MIDI will be shown in the display.)

CHANNEL PAN

Press the cursor key repeatedly until the cursor is underneath the pan value. Rotate the data entry control to select pan values -7 to +7 or "P". When "P" is selected, the pan value specified in the preset is selected. Any other value will override the pan parameter in the preset. (This is the same parameter as MIDI pan control #10, and changes made over MIDI will be shown in the display.)

PLAYING THE DEMO SEQUENCES

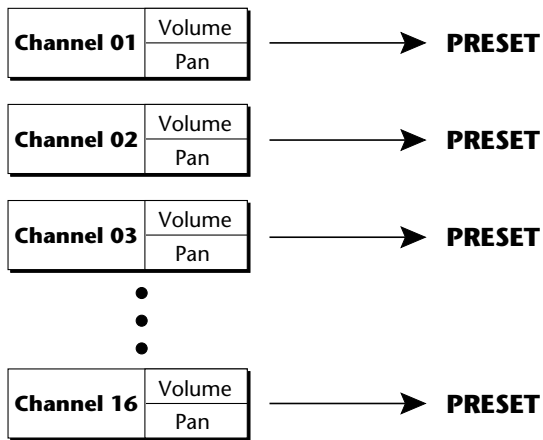
Vintage Keys contains a play-only sequencer in order to give you an idea of what is possible using this amazing machine. Press and hold both the Master button and the Edit button. The sequence will start in a moment. Press the Enter button to stop the sequence. Press either cursor button to change the sequence. Vintage Keys contains 4 sequences (1-4).



MULTI-TIMBRAL OPERATION

Multi-timbral operation means that the Vintage Keys can play more than one sound at the same time. To access multiple presets on different MIDI channels simultaneously, follow these instructions:

- 1. Set the MIDI mode to MULTI-Mode, using the MIDI mode function in the Master menu (page 20).
- 2. Decide which MIDI channels you wish the Vintage Keys to receive, and turn all other channels OFF using the MIDI Enable function in the Master menu (page 21). *Up to 16 channels can be selected simultaneously!*
- 3. Select the desired preset for each of the MIDI channels you wish the Vintage Keys to receive using the MIDI Channel/Preset selection screen (see previous instructions).
- 4. Vintage Keys will now respond multi-timbrally on the MIDI channels you have specified. The volume and pan position parameters can be adjusted over MIDI (for each MIDI channel) or using the Cursor and Data Entry control in the MIDI Channel/Preset selection screen.



Each of the 16 MIDI channels can be assigned to play a specific Vintage Keys preset.

••• Demo Sequences

- 1. Funky Blues & R+B Organ Demo - by Herb Jimmerson
- 2. Synth Rock Orchestra by Gary Hull
- 3. Techno Rave by Sean Wilhelmsen
- 4. Pop/Rock Medley by Will Puckett

ABOUT VINTAGE KEYS

Vintage Keys utilizes digital recordings of real instruments for the basis of its sound. This is similar to a tape recorder except that inside the Vintage Keys, the sounds are permanently recorded on digital memory chips.

To perform this modern miracle, sounds and instrument waveforms are first sampled into the Emulator III, our top of the line, 16 bit stereo digital sampler. After the sounds and waveforms have been truncated, looped and processed, they are “masked” into the Vintage Keys ROM (Read Only Memory) chips.

Conceptually, the sampling process is very simple, as shown in the Basic Sampling System diagram. As a sound wave strikes the diaphragm of a microphone, a corresponding voltage is generated. To sample the sound, the voltage level is repeatedly measured at a very high rate and the voltage measurements are stored in memory. To play the sound back, the numbers are read back out of memory, converted back into voltages, then amplified and fed to a speaker which converts the voltage back into sound waves. Of course, playing back 32 channels at different pitches tends to complicate matters, but this is basically how it works. In Vintage Keys, we have left out the Analog/Digital converter stage since the sounds are already sampled for you.

