

SYNTH PLUS-60 (HS-60) 6-voice polyphonic synthesizer



MIDI
MUSIC
EXPERIMENT
DIGITAL
INTERFACE

If you'd like a synthesizer but know next to nothing about connections, set-up, and so on, the Synth Plus 60 is just what you've been looking for. Featuring two built-in speakers, each with 8 watts of power, the Synth Plus 60 allows the user to enjoy synthesizer sounds just by turning on the power switch.

The Synth Plus 60 is a 61-key, 6-voice polyphonic, programmable synthesizer, featuring ultra-stable DCOs. The waveform and range of the DCOs can be selected at the touch of a button. The PWM, Sub-Oscillator level, Noise level, and LFO Modulation are adjusted using sliding controls. The VCF and HPF allow the tone color to be precisely adjusted. The VCA features a sliding level control and ENV/Gate select switch. Chorus circuitry is provided to broaden the sound—especially effective when reproducing organ and string sounds. A Portamento function achieves polyphonic portamento. And a Key Transpose function lets you transpose to any key so that compositions written in a hard-to-play key can be played in your most comfortable key.

Up to 128 patches can be stored in the Synth Plus 60 memory—more than enough for any purpose, from private lessons to recordings and performances. There are two bank groups, A and B, each group storing 8 banks and each bank storing 8 patches.

All LFO, DCO, HPF, VCF, VCA, ENV, and Chorus settings can be memorized.

Any stored patch can also be modified as desired. A Tape Interface allows all program data to be stored on a cassette tape. And the program data in groups A and B can be saved and loaded independently. It can be combined or rearranged as desired.

A Memory Protect switch prevents accidental erasure of program data.

The Synth Plus 60 is also MIDI compatible. MIDI In, Out, and Thru jacks are provided and the MIDI channel can be freely assigned. A 3-position MIDI Function switch determines which information is to be transmitted over MIDI. In the first position, only key and hold information can be sent and received. In the second position, key, hold, bend, modulation, and program change information can be sent and received. In the third position, an exclusive message can be sent and received as well as all second position information except program change data (The exclusive message, which carries the information for the patch parameters and the program change information, can only be sent in the third position). For even greater enjoyment, you can connect the Synth Plus 60 to a MIDI system formed by MIDI devices including Roland's MKS series MIDI sound modules, the MSQ-100 MIDI sequencer, and a computer.

Two built-in speakers, each with 8 watts of power, faithfully reproduce the wide frequency range and complex waveforms produced by the Synth Plus 60. When the Chorus effect is engaged, the speakers produce distinctive "stereo chorus" sounds. The loudness of the speakers can also be controlled by an optional EV-5 expression pedal.

SPECIFICATIONS

- Keyboard: 61 keys (5 octaves, C-scale)
- DCO: Waveforms (TL, \wedge). Range (16/8/4), PWM, PWM Mode (LFO/Manual), LFO Modulation, Sub-Oscillator Level, Noise Level
- HPF: Cutoff Frequency (0/1/2/3)
- VCF: Cutoff Frequency, Resonance, Key Follow (0 to 100%), ENV Modulation, ENV Polarity (\wedge , \vee).

LFO Modulation- VCA: Control Signal (\wedge , \vee). Decay Time (1.5ms to 12s), Sustain Level (0 to 100%), Release Time (1.5ms to 12s)
- LFO: Rate (0.1 to 30Hz), Delay (0 to 3s)
- Left-Hand Controls:

- Portamento Time, Portamento On/Off, Volume Bender, Bender Sensitivity (DCO, VCF), LFO Trigger Sensitivity (DCO)
- Buttons: Chorus (On/Off), Key Transpose, Assign Mode (Poly-1, Poly-2), MIDI Channel (1 to 16), Patch Number (1 to 8), Bank Number (1 to 8), Group Select (A, B), Manual, Write, Save, Verify, Load
- Indicators: 7-segment LED x 2
- Speakers: 10cm (8W) x 2
- Rear Panel
- Jacks: Output (Mono, Stereo), Headphones, Expression Pedal (EV-5), Pedal Hold (DP-2), Patch Shift (DP-2), Sawe, Load, MIDI (In, Out, Thru)
- Switches: MIDI Function (In/Off), Memory Protect (On/Off/On), Output Level Select (H/M/L), Power
- Control: Tune (\pm 50 cents)
- Dimensions: 962(W) x 130(H) x 311(D) mm (39.1" x 5.1" x 13.4")
- Weight: 15.0 kg (33.0 lb)
- Accessory: Music rest

EV-5 expression pedal



An indispensable device for use with the Synth Plus 60, the EV-5 allows you to add swell expression to music—especially effective for organ and string sounds.

The variable volume range can be freely adjusted using the Minimum Volume control. Made of rugged molded ABS resin, the EV-5 weighs just 400 grams.

SPECIFICATIONS

- Controls: Main Volume (Pedal), Minimum Volume
- Dimensions: 86(W) x 54(H) x 200(D) mm (3.4" x 2.1" x 7.9")
- Weight: 400g (0.9 lb.)

REAR PANEL

