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Roland
WE DESIGN THE FUTURE

JUPITER-6

6-VOICE POLYPHONIC SYNTHESIZER



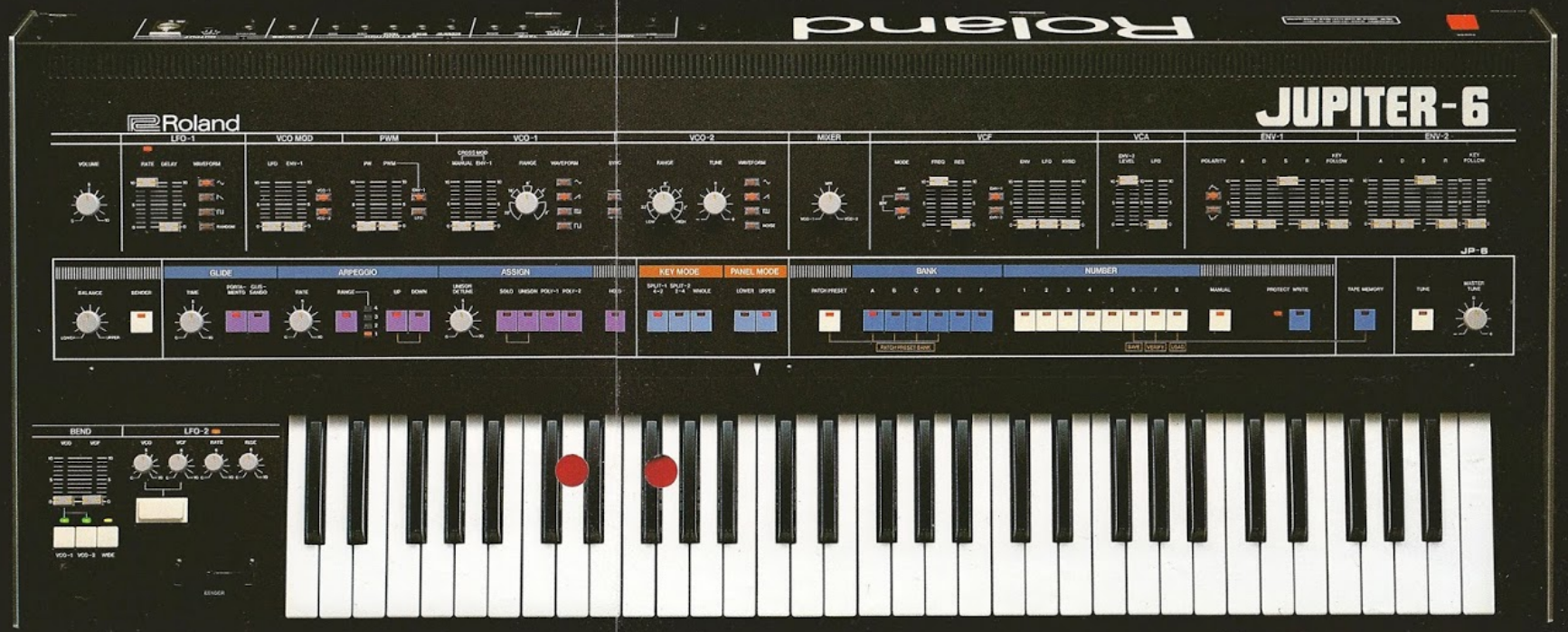
Electronic Musical Instruments

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JUPITER-6

6-VOICE POLYPHONIC SYNTHESIZER





The JUPITER-6 is a 61-key, 6 voice, 12-VCO polyphonic synthesizer that offers an exceptionally wide variety of rich sounds, therefore greatly expands the performance capabilities.

- The JP-6 includes a memory capacity to retain up to 48 different synthesizer patches.
- Any program in the memory can be temporarily edited during live performance.
- You can write a Patch Memory and various effect modes into any of the 32 Patch Preset memories, for quick use during live performances.
- A battery back-up system retains the memory even when the JP-6 is switched off.
- The DETUNE function allows a powerful ensemble effect in SOLO UNISON or UNISON modes.
- Quick tuning of all 12 VCOs is possible with the automatic tuning function.
- Various attractive effects are obtained by changing the Key Mode (WHOLE, SPLIT-1 & SPLIT-2) and Key Assign (POLY-1, POLY-2, UNISON, SOLO and SOLO-UNISON).
- Many different arpeggio effects are available through the Arpeggio MODE and RANGE controls.
- The tape interface enables you to transfer the 48 Patch Programs and 32 Patch Preset memories into an ordinary tape recorder for storage and later retrieval.
- Many interesting manual functions are included, such as Cross Modulation, Synchronization, Chromatic range Adjustment, intensity control of the Key Follow effect, Patch Shift function, etc..
- The JP-6 has a MIDI bus interface system that converts CV and GATE signals to digital signals for communication between two connected units.

Performance Control in the Memory Panel Section

The Memory Panel section includes various performance control functions. By using any of 48 pre-programmed Patch Memories, or your own synthesized patches, and various effects such as Arpeggio, Glissand, etc., a wide variety of performance programs are retrievable later in live performance. Also, Patch Memories and various effects modes may be stored in any of 32 Patch Preset Memories, for quick use during live performance.
The JP-6 can be played as two polyphonic synthesizers, by splitting the Keyboard into Lower and Upper sections where two different tone colors and mode settings can be assigned.

Manual Control Section

With this section, you can synthesize tone colors and store them in the memory, or edit previously written Patch Memories. To synthesize with the Manual Control Section, turn the Manual button on. If you wish to edit a Patch Memory, call it by pressing the Bank and Patch Number buttons, then edit it by using the controls in the Manual Control Section.

VCO-1:
The RANGE Control varies the VCO-1 pitch in half steps as the rotary switch is swept through its range.
WAVEFORM:
This is to select the output waveform of the VCO-1. Different waveforms can be mixed by pressing the switches at the same time.
VCO-2:
The RANGE control varies the VCO-2 pitch in half steps as the rotary switch is swept through its range. When this knob is set to LOW, the VCO-2 will produce only low frequency signals of approx. 1.5Hz – 50Hz. If set to HIGH, the range will become higher than 2'-1/2'.
SYNC:
This is used when synchronizing the VCO-1 and VCO-2. It's possible to synchronize the pitch of the VCO-1 to that of the VCO-2, or the VCO-2 pitch to that of the VCO-1.

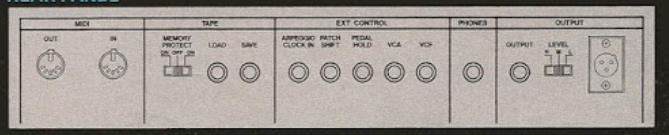
VCO Modulation

LFO:
This knob controls the amount of the LFO output signal modulating the VCO.
ENV:
This knob sets the amount of the ENV-1 output signal controlling the VCO.
VCO MOD SELECTOR:
With these two switches, you can choose to apply the LFO modulation or the ENV modulation to either the VCO-1 or the VCO-2 or both.

PWM

PW:
This sets the width of the pulse wave.
PWM:
This sets the intensity of the pulse width modulation by the LFO or ENV-1. By changing the pulse width, a wide variety of tone colors are obtained.
PWM SELECTOR:
By pressing one of these switches, you can select either LFO or ENV-1 pulse width modulation.

REAR PANEL



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SPECIFICATIONS

Keyboard: 61 keys, 5 octaves, C scale

VCO Modulation: LFO (10 oct.)
ENV-1 (5 oct.)
VCO-1 (ON/OFF)
VCO-2 (ON/OFF)

PWM: PW (50% to 100%)
PWM (LFO ±48% from PW level, ENV-1 same as above)

VCO-1: Range (32' – 2' in chromatic)
Waveform (∿, ◿, ⊓, ⊓)
Cross Mod (ENV-1, MANUAL)

VCO-2: Range (32' – 2' in chromatic) – special range (High 2' – 0.5', Low 1.5Hz – 50Hz)
Waveform (∿, ◿, ⊓, noise)
Tune (±50 cent)

SYNC: VCO-1 to VCO-2 ON/OFF
VCO-2 to VCO-1 ON/OFF

MIXER: VCO-1 mix VCO-2

VCF: Mode (LPF 24dB/oct. BPF 12dB/oct. HPF 24dB/oct.)
Frequency (5Hz – 30kHz)
Resonance (Peak gain 15dB)
ENV (10 oct., ENV-1 or ENV-2 select)
LFO (10 oct.), KYBD Follow (0% to 120%)

VCA: Dynamic Range 60dB
ENV-2 level
LFO

ENV-1: Attack Time (0 – 18 sec)
Decay Time (0 – 20 sec)
Release Time (0 – 20 sec)
Sustain Level (0 – 100%)
Key Follow (0 – 120%)
Polarity (⌒, ⌣)

ENV-2: Attack Time (0 – 18 sec)
Decay Time (0 – 20 sec)
Release Time (0 – 20 sec)
Sustain Level (0 – 100%)
Key Follow (0 – 120%)

LFO: Rate (0.04Hz – 100Hz)
Delay Time (0 – 2 sec)
Waveform (⌒, ⌣, ⊓, Random)
Random Special High Frequency (400Hz)

GLIDE: Portamento or Glissando Time (0 – 1.6 s/oct.)

ARPEGGIO: Rate (1 – 25Hz)
Range (1 – 4 oct.)
Mode (up, down, up & down, down & up)

ASSIGN: Solo
Solo Unison
Unison detune ±50 cent
POLY-1
POLY-2

HOLD: (Upper, Lower)

KEY MODE: Split 4-2
Split 2-4
Whole

PANEL MODE: (Upper or Lower)

Memory Section: Bank (A – F 6 bank)
Number (1 – 8, 6 x 8 . . . 48 memory)
Patch Preset (4 bank x 8 . . . 32 preset)
Manual
Write

TAPE MEMORY: Load, Verify, Save . . .

MASTER TUNE: ±50 cent
Compu Tune Time (0.3 sec)

BENDER: Bender Lever
VCO-1 (ON/OFF)
VCO-2 (ON/OFF)
Bend Wide (3 oct. fixed)
VCO sens (1 oct. variable)
VCF sens (5 oct. veriable)

LFO-2: ON/OFF Button
VCO sens (±100 cent)
VCF sens (±4 oct.)
Rate (1 – 10Hz)
Rise Time (50 ms – 1 sec)

OUTPUT: Volume (Master Volume)
Balance (Lower – Upper)
Cannon (imp/600Ω)
Level Attenuator (0dB, –15dB, –30dB)
Phones

EXT CONTROL: Arpeggio Clock In
Patch Shift
Pedal Hold
VCA Control (0 to –20dB)
VCF Control (–6 to +2 oct.)

Others: Memory Protect Switch (ON-OFF-ON)
Load input
Save output
Midi (5 PIN DIN: Output, Input)

Dimensions: 1063(W) x 120(H) x 434(D) mm (41.9" x 4.72" x 17.1")

Weight: 16 kg (35.2 lbs.)

Options: KS-20 stand (KSA-20: Adapter to allow use of KS-20 with Jupiter-6), FV-200 foot volume DP-2 pedal switch, TB-6 aluminum case

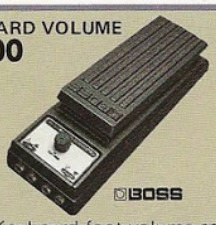
OPTIONS

CARRYING CASE
TB-6A



Aluminum Case

KEYBOARD VOLUME
FV-200



Stereo Keyboard foot volume control with extended volume variation range.

STEREO HEADPHONES
RH-10



Ideal for monitoring.

PEDAL SWITCH
DP-2



Used for combo synthesizers and pianos.

ROLAND POLYPHONIC SYNTHESIZER SERIES

JUPITER-8 8-VOICE POLYPHONIC SYNTHESIZER



JX-3P PROGRAMMABLE/PRESET/POLYPHONIC/SYNTHESIZER



PG-200 PROGRAMMER (For JX-3P)



JUNO-60 6-VOICE PROGRAMMABLE POLYPHONIC SYNTHESIZER

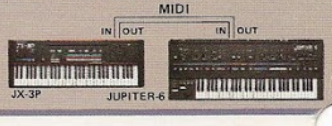


JUNO-6 6-VOICE POLYPHONIC SYNTHESIZER



MIDI
(MUSICAL INSTRUMENT DIGITAL INTERFACE)

Today's modern digital technology has made it possible to automatically control and synchronize a remarkable variety of electronic musical instruments. A personal computer can even be incorporated in such systems which usually require no special knowledge or operational techniques. The only problem is that individual makers have in many cases employed mutually incompatible connections and this greatly reduces the performer's potential. A new universal BUS system called MIDI (Musical Instrument Digital Interface) solves this problem. It accepts all connections from instruments and devices of a standard signal. Now any standard musical instrument or computer can be connected using DIN cords for both input and output. Thus, MIDI expands the potential of performers and brings unprecedented convenience to the realm of electronic music. The Roland's JX-3P and JUPITER-6 are equipped with the MIDI BUS terminal.



*Specifications and appearance subject to change without notice.

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