Roland

α JUNO

POLYPHONIC SYNTHESIZER

αJUNO-1/αJUNO-2

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ELECTRONIC MUSICAL INSTRUMENTS

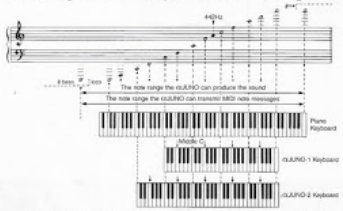
An Easy-to-Operate Synthesizer with Excellent Sound Quality

αJUNO-1 vs. αJUNO-2

Two αJUNO models are available: the αJUNO-1 and the αJUNO-2. There are only three major differences between them. Choose the one which best suits your playing style and taste.

The first difference is the keyboard. The αJUNO-1 has 49 keys while the αJUNO-2 has 61 keys. The 49-key keyboard may at first seem small, but it covers the most frequently used note range and makes the αJUNO-1 extremely compact, easy to carry, and easy to set up. Using Key and Octave Transpose functions, both models can produce the sound of an 8-octave note range. The MIDI note messages for the note range can be transmitted and received.

The note range the αJUNO can produce and transmit through MIDI



The second difference is the dynamics sensitivity. The keyboard of the αJUNO-2 is velocity and pressure sensitive, allowing the player to control some sound elements using the playing force applied to the keyboard. The keyboard of the αJUNO-1 is neither velocity nor pressure sensitive, although, the player can control these sound elements using the EV-5 Expression Pedal. Both models can receive the MIDI velocity and pressure messages, however. All preset patches are pre-programmed so that these MIDI messages can faithfully control the sound.

The third difference is the external memory medium. Both the αJUNO-1 and αJUNO-2 provide 64 preset patches and can store 64 programmable patches. In addition, programmable patches can also be externally stored. In the case of the αJUNO-1, patch data can be stored on cassette tapes through a Tape Interface. The αJUNO-2, on the other hand, uses an M-64C Memory Cartridge to store 64 programmable patches.

Revolutionary Sounds Made Possible by Advanced LSI Technology

The DCO of the αJUNO incorporates a newly developed LSI which can produce 14 different basic waveforms. This allows the creation of stunningly realistic sounds far beyond the scope of ordinary synthesizers in both variety and quality.

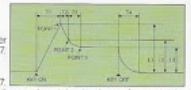
14 basic waveforms of the αJUNO

	PULSE	SAW	SUB
0	OFF	OFF	
1			
2			
3			
4			
5			

The αJUNO offers an extremely high S/N ratio to keep the sound clean at all times. This applies to all sounds, from the "JUNO" synthesizer's distinctive sustaining sounds such as organ or brass to the sounds with complicated harmonics series, or special effects sounds, whether it be lead work or chord accompaniment.

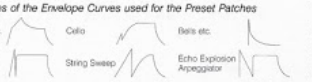
8-Parameter Envelope Generator

The envelope generator is one of the most essential components for sound synthesis. The αJUNO features a new 8-parameter envelope generator. It can create much more complicated envelope curves than can a conventional ADSR envelope generator. It thus enables the αJUNO to produce much more expressive and impressive sounds.



- **T1 (ENV Time 1):** Sets the time required for the envelope to reach to point 1 after the key is pressed. The parameter value is variable from 0 to 127.
- **L1 (ENV Level 1):** Sets the level of point 1. The parameter value is variable from 0 to 127.
- **T2 (ENV Time 2):** Sets the time the envelope takes to change from point 1 to point 2. The parameter value is variable from 0 to 127.
- **L2 (ENV Level 2):** Sets the level of point 2. The parameter value is variable from 0 to 127.
- **T3 (ENV Time 3):** Sets the time the envelope takes to change from point 2 to point 3. The parameter value is variable from 0 to 127.
- **L3 (ENV Level 3):** Sets the level of point 3. The parameter value is variable from 0 to 127.
- **T4 (ENV Time 4):** Sets the time the envelope completely dies away after the key is released. The parameter value is variable from 0 to 127.
- **ENV KYBD (ENV Keyboard Follower):** This parameter allows the time the envelope completes its curve to be changed depending on the note played. The parameter value is variable from 0 to 15. The higher the value, the shorter the envelope of the higher notes and the longer the envelope of the lower notes.

Examples of the Envelope Curves used for the Preset Patches



Easy-to-See Display

The αJUNO features an illuminated LCD which allows the player to easily read the indications even on a dark stage.

Handy α-Dial

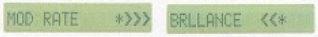
An ordinary synthesizer, the JUNO-106 for instance, has numerous controls on its front panel for sound synthesis. The αJUNO on the other hand, has a single "α-Dial" which alone controls all the functions necessary for sound synthesis as well as other functions. This makes the αJUNO alluringly simple in both appearance and operation.

In addition, a completely new "Tone Modify" function dramatically facilitates sound editing. In fact, even a player who knows almost nothing about a synthesizer can easily tailor the sound.

Innovative Tone Modify Function

The Tone Modify function enables the player to easily explore the vast potential of the αJUNO.

Four "Tone Modify" parameters are available: Brilliance, Envelope Time, Modulation Rate, and Modulation Depth. Operation is so simple. Recall a parameter by pressing a button, then rotate the α-Dial to change the parameter value. The display then shows arrows to indicate whether the parameter value is increasing or decreasing.



For instance, recall Piano 1 from the preset patches, press the Brilliance button, and rotate the α-Dial clockwise. The sound will become brighter, like a harpsichord. Then press the Envelope Time button and rotate the α-Dial counterclockwise. The sound will become banjo-like.

Even though these changes can be achieved by editing the patch parameters, several patch parameters must be properly adjusted. This is no easy task, especially for novice players. The Tone Modify function, on the other hand, simultaneously adjusts several patch parameters for the brilliance, envelope time, modulation rate, or modulation depth, making the αJUNO even easier to operate.

The Tone Modify function also allows the α-Dial to be used as a left-hand control just like you would use a bender.

Easy Sound Synthesis

The αJUNO also features an Edit function for temporarily modifying the preset patches and creating new patches. As many as 36 kinds of patch parameters are provided. Unlike ordinary synthesizers which use numerous sliders, switches, and knobs to adjust the patch parameters, all the parameters of the αJUNO can be recalled and adjusted by using only the α-Dial.

By combining the Edit and Tone Modify functions, you can easily and quickly modify the preset patches or create new patches. First select a preset patch, then modify the patch with the Tone Modify function. Finally, refine the modification by recalling and adjusting the patch parameters with the α-Dial.



The display then shows the parameter name and both the pre- and post-adjusted parameter values. You can see at a glance how the patch has been modified and by which parameter. In this way, even novice players can learn how to create sounds on the αJUNO —a much easier and more practical way to master sound synthesis than by reading books or using other training methods.

Chord Memory Function

As with Roland's AXIS-1 MIDI keyboard controller, the αJUNO features a Chord Memory function. The function allows a chord pattern to be memorized by the αJUNO and then performed by pressing a single key. Complicated chords, even chords that are physically impossible to play by hand, can be easily performed.

The Chord Memory function can also be used to produce extremely broad, thick sounds with a complex harmonics series.

Two Transpose Functions

The αJUNO has two kinds of Transpose functions. One is the Octave Down function. It allows the note range to be instantly transposed one octave below by pressing the Octave Transpose button.

The other is a convenient Key Transpose function. It allows the note range to be chromatically transposed within the upper and lower octave range. You can play compositions written in hard-to-play keys in the key that's most comfortable for you.

Perfect Left-Hand Controls

Pitch bending, modulation, and portamento are indispensable when playing the αJUNO.

The bender lever on the αJUNO can control both pitch bending and modulation. The pitch bending can be applied to all preset and programmable patches. You can pre-program the bend range individually for each patch within one octave in half-note steps.

When controlling the modulation, the bender lever can sense the pressure applied to it. The harder you press the lever, the deeper the modulation. Pressure sensitivity is also programmable.

The portamento effect can be activated at the touch of a button. The portamento time can be set at one of 128 steps. By combining the portamento and the Chord Memory function, you can easily produce an extremely thick polyphonic portamento effect.

Foot-Controllable Functions

Three jacks are provided on the rear panel of both the αJUNO-1 and αJUNO-2 so you can control the αJUNO with your feet. The αJUNO-1 has Pedal Hold, Pedal Switch, and Foot Control jacks. The αJUNO-2 has Pedal Hold, Pedal Switch and Expression Pedal jacks.

The Pedal Hold jack is used to connect an optional DP-2 foot switch to turn the hold function on and off. The Expression Pedal jack is used to connect an optional EV-5 to control the volume.

You can select which functions are to be controlled for the Foot Control and the Pedal Switch jacks. The Foot Control jack is used to connect the DP-2 foot switch to shift the patch number from 1 to 8, to turn the portamento on and off, or to turn the Chord Memory function on and off. The Pedal Switch jack is used to connect the EV-5 expression pedal to control the volume, the pressure sensitivity, or the velocity sensitivity.

Extensive MIDI Implementation

Offering extensive MIDI implementation (see the table below), the durable αJUNO can function accurately in any MIDI set-up.

You can set whether the MIDI messages for the below functions are to be transmitted and received or not. You can select the function you wish to set by pressing the MIDI button, then turn the function on or off by rotating the α-Dial. You can temporarily set the MIDI functions or let the αJUNO store the settings in memory.

MIDI FUNCTION	INDICATION OF THE DISPLAY	DESCRIPTION
1. MIDI Channel	1 to 16	Sets the MIDI channel on which the αJUNO transmits and receives the MIDI messages.
2. MIDI Omni	ON/OFF	When turned on, the αJUNO received all MIDI messages on all MIDI channels.
3. MIDI Local Control	ON/OFF	When turned off, the synthesizer and keyboard sections of the αJUNO are separated.
4. MIDI After Touch	ON/OFF	After touch (pressure) messages.
5. MIDI Bender	ON/OFF	Bender messages.
6. MIDI Exclusive	ON/OFF	Exclusive (patch parameter) messages.
7. MIDI Hold	ON/OFF	Hold messages.
8. MIDI Modulation	ON/OFF	Modulation messages.
9. MIDI Program Change	ON/OFF	Program change (patch selection) messages.
10. MIDI Volume	ON/OFF	Volume messages.
11. MIDI Portamento	ON/OFF	Portamento messages.

(ON: transmitted and received. OFF: neither transmitted nor received)

For All Serious Musicians

Thanks to these superb features, the αJUNO allows you to express yourself freely, creating your very own original sounds. But the first thing you have to do before playing the αJUNO is to choose either the αJUNO-1 or αJUNO-2.

You may choose the αJUNO-1 as your instrument, as a MIDI sound module for your MIDI setup, or as an optional synthesizer for your keyboard set-up. Or you may choose the αJUNO-2 for use in your live performances or as a MIDI keyboard controller for Roland's MPU Music System. In any case the αJUNO will surely meet all your requirements.





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User-Friendly Sound Synthesis

Easy operation, professional-quality versatility, and sophisticated sound synthesis have made Roland's JUNO series of synthesizers extremely popular.

By further improving these "JUNO" features and combining them with a variety of new features, Roland's new αJUNO satisfies musicians of all caliber, from the novice to the professional.

The numerous synthesizer parameters packed within this sleek package are adjusted by a single easy-to-use α-Dial. This allows the musician to easily, quickly, and freely create his own original sounds.



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SPECIFICATIONS

	αJUNO-2	αJUNO-1
Keyboard	61 Keys, 5 Octaves (C to C), Velocity and Pressure Sensitive	49 Keys, 4 Octaves (C to C)
Memory	64 Preset Patches, 64 Programmable Patches (64 external programmable patches per M-64C RAM cartridge)	64 Preset Patches, 64 Programmable Patches
Group Select Buttons	Preset, Memory, Cartridge	Preset, Memory
Buttons	Bank (1 to 8), Number (1 to 8), Tune/Function, MIDI, Key Transpose, Data Transfer, Parameter Select, Value, Name Write, Tone Modify Mode (Modulation Rate, Modulation Depth, Brilliance, Envelope Time)	
Controls	α-Dial, Volume knob, Octave Transpose buttons (Normal, Down), Portamento button, Chord Memory button, Pitch Bender/Modulation lever	
Display	16-digit, illuminated LCD	
LEDs	Key Transpose, Octave Transpose (Normal, Down), Portamento, Chord Memory	
Rear Panel	Output jacks (Mono, Stereo), Headphone jack, Hold Pedal jack, Pedal Switch jack, Expression Pedal jack, Memory Protect switch, MIDI connectors (In, Out, Thru), Memory Cartridge slot, Power switch	Output jacks (Mono, Stereo), Headphone jack, Hold Pedal jack, Pedal Switch jack, Foot Control jack, Save jack, Load jack, Memory Protect switch, MIDI connectors (In, Out, Thru), Power switch
Dimensions (w/o music rest)	972(W) × 246(D) × 85(H) mm (38-1/4″ × 9-11/16″ × 3-3/8″)	802(W) × 240(D) × 79(H) mm (31-9/16″ × 9-7/16″ × 3-1/8″)
Weight (w/o music rest)	7.5 kg (16 lb. 9 oz.)	5.4 kg (11 lb. 14 oz.)
Accessories	Music Rest, Connection Cable	

*Specifications and appearance subject to change without notice.

αJONO-2 REAR PANEL



αJUNO-1 REAR PANEL



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OPTIONS

KEYBOARD STAND
KS-6



A light, easy-to-assemble keyboard stand for the αJUNO.

CARRYING CASES
AB-3 (for αJUNO-1)
AB-4 (for αJUNO-2)
Made of ABS resin using special air-molding method, these light, rugged, water-proof carrying cases have a double-wall construction.

FOOT CONTROLLERS
EV-5 EXPRESSION PEDAL
DP-2 PEDAL SWITCH

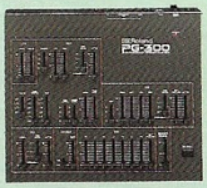


MEMORY CARTRIDGE
M-64C



For patch data storage of the αJUNO-2.

PROGRAMMER
PG-300



Printed in Japan RAM-474 '86 Jan. E-4 AVS

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