

YAMAHA

Clavinova P-500



Absolute Control

It's what you've always dreamed of having. Complete, absolute control. Now, with the Clavinova P-500, that dream is a reality.

The P-500 is an exceptionally advanced keyboard instrument, featuring both authentic instrument sounds and extensive MIDI control.

With its realistic piano and other keyboard Voices, the P-500 is ideal for performances where you need a variety of piano sounds. It also functions as a state-of-the-art, comprehensive MIDI controller — perfect for demanding live and studio applications where multiple MIDI instruments and devices must be controlled easily and quickly. And, to top it all off, the P-500 features an elegant and stylish real-wood mahogany top board, making the appearance every bit as outstanding as the sound and sophisticated MIDI functions.

Stunning Sound and Playability

The P-500 features a selection of eleven Voices with a maximum simultaneous output of 32-note polyphony. All Voices were created using state-of-the-art sampling equipment and techniques, then processed using Yamaha's original AWM sound generation technology. Among these eleven voices are four different authentic acoustic piano sounds. Whether you need something warm and mellow, for classical or jazz solo piano, or something bright and powerful, for cutting through in a loud rock band — the P-500 has just the piano sound for you. There are also six different popular electronic keyboard sounds, as well as a luscious sounding "Clavinova Tone" Voice.

And, to complement these amazingly realistic Voices, the P-500 also features a full 88-key Action Effect keyboard that provides extremely natural touch response — just like an acoustic piano. Plus, there's an included Pedal Unit that not only provides Soft, Sostenuto and Sustain switching, but also gives you expressive, continuous control over certain functions.

Flexible Voice Control

The P-500 gives you enormous control over the sound of the Voices. To start with, there are three keyboard modes — Single, Dual and Split — which allow you to play a single Voice, two Voices in a layer, or two Voices on separate parts of the keyboard. Other Voice controls let you change the tuning, sound envelopes, Vibrato, Pan and equalization, giving you powerful tools for changing the very character of the Voices themselves.

Digital Signal Processing

The internal Voices of the P-500 can be further enhanced by the advanced signal processors: Effect, Modulation and Reverb. These three contain a full array of professional quality effects — including Chorus, Phaser, Flanger, auto panning, Enhancer, Compressor, Detune, Wah, Soundboard simulation, and a comprehensive set of Reverb effects. The Effect section of processors even lets you simultaneously use two different effect types on two separate Voices. Moreover, Effect, Modulation and Reverb can all be used together for true multi-effect operation.

Realtime Sound Control

In addition to the programmable Voice controls mentioned above, the P-500 features a wide variety of realtime controls for changing the sound as you play.

With the Quick Edit function, you can use the convenient PS 1/PS 2 panel switches and CS 1/CS 2 continuous sliders to instantly adjust and alter main Volume, Effect, Modulation, and Reverb settings. The P-500 also has EQUALIZER sliders on the top panel for adjusting the timbre of the overall sound, in five separate frequency bands.

Unprecedented MIDI Control

As stunning as the sound is, what makes the P-500 truly a remarkable instrument are its extensive MIDI functions. From the simplest MIDI setup to a full-blown, multi-instrument MIDI system, the P-500 has the power and flexibility to serve as a sophisticated MIDI control center.

The P-500 works its MIDI magic over four separate Paths, letting you control four separate MIDI instruments (or sets of instruments, if you wish). For example, with four tone generators connected to the P-500, each on its own Path, you can instantly call up different programs on each tone generator and set them to play at different volumes, pitches and pan positions. With the Split mode, you can even play different programs from opposite sections of the keyboard. Key Scale and Velocity Curve functions provide even finer control, letting you set up "soft" splits and complex velocity crossfades.

But the control doesn't stop there. The P-500 has eleven separate realtime MIDI controllers — the PS 1/PS 2 panel switches, the CS 1/CS 2 continuous sliders, two control Wheels, four Foot Controller inputs, and After Touch. Each of these can be assigned to control one of an exceptionally wide variety of Voice and MIDI functions. And each controller has different response curves, letting you tailor them for specific effects and applications.

In addition to the four main Paths, the P-500 also has two Extra MIDI Paths which give you convenient program change and volume control over MIDI effect devices and signal processors.

Logical Voice/Performance/Chain System

The structure of the P-500 is organized into Voices, Performances and Chains. Many of the parameters mentioned above can be stored to memory as part of a Voice, and there is space for eleven Voices. A Performance comprises all Voice and MIDI settings, allowing you to completely change the sound and your entire MIDI setup with the press of a button. Up to thirty-two such Performances can be stored. What's more, you can arrange these thirty-two Performances into one of sixteen Chains, and have each Performance called up in the proper order, simply by pressing a panel button or Foot Switch — a great convenience when using the P-500 onstage.

Other Functions

The P-500 also includes a wealth of other convenient and advanced functions. Among these are: the Help function, which lets you call up context-sensitive help messages relevant to the current operation; View, which allows you to quickly and easily check the settings of important functions; and a MIDI PANIC button, which immediately remedies common MIDI data transmission/response problems. The P-500 also features comprehensive bulk data storage operations, for backing up and loading your valuable data.



Side Panel (Left) and Connectors



Specifications

Keyboard	88-key (A-1 to C7), velocity sensitive, with assignable After Touch		
Tone Generator	AWM; 32-note maximum polyphony		
Voices	Voice A/B: PIANO 1 – 4, E.PIANO (ELECTRIC PIANO) 1 – 5, CLAVI, CLTONE (CLAVINOVA TONE)		
Play Modes	Single, Dual, Split		
Performances	1 – 32		
Chains	1 – 16		
Panel Equalizer Controls	Five-band graphic equalizer (LOW, LO-MID, MID, HI-MID, HIGH)		
Edit	Edit Functions :	Edit, Store	
	Quick Edit:	OFF, EFFECT, MODULATION, REVERB, VOLUME	
	Effect section:	Enhancer (Power, Sharp, Tight), Compressor, Detune, Touch Chorus, Phaser, Pan, Wah (LFO, Touch, Delay), Soundboard	
	Modulation section:	Chorus (Pure, Detune, Bright, Wide, Pan), Phaser (Light, Deep), Pan (,); Flanger	
	Reverb section:	Reverb (Large Hall, Plate, Church, Small Hall, Large Room, Small Room, Early Reflection), Echo (, ,), Special Reverb (Concert, Clean, DX-Plate, ER + Hall, Salon, Mid- Room)	
Utility	Edit Parameters:	Wave/Name, EG (Envelope Generator), Vibrato, Pan, Graphic Equalizer; Volume, Expression; Voice Tune, Piano Tune, Microtune; Transpose; Pitch Bend Range; Voice/MIDI Key Scale, Velocity Curve; Voice/MIDI Keyboard Mode (Single/Dual/Split), Performance Name; Foot Controllers 1 – 4; After Touch, Wheel, Continuous Slider, Panel Switch (Voice/MIDI control assign); Program Change Transmit, Program Change Receive, Voice/MIDI Bank Transmit; Transmit Channel, Receive Channel, Local, MIDI Merge; Extra MIDI Setup; Chain; Master Tune, Bulk Receive, Performance Change Transmit/Receive Channel, Device Number, Effect Bypass	
	Utility Parameters:	Copy, Swap, Recall/Revert, Send Bulk, MIDI Monitor, Troubleshoot, Initialize	
	View	[F1]: Transmit Channel [F2]: Receive Channel [F3]: Volume [F4]: Bank/Program Change A (Voice/MIDI/Extra MIDI A) [F5]: Bank/Program Change B (Voice/MIDI/Extra MIDI B) [F6]: Signal Path [F7]: Effect [F8]: PC (Program Change) Sender	
	Help	Context-sensitive Help messages	
	Controls	POWER; MASTER VOLUME; WHEEL 1, 2; PS 1, 2; CS 1, 2; Function buttons [F1] – [F8]; DATA ENTRY; +/- buttons; PAGE , ; LCD CONTRAST; Damper (Sustain)/Soft/Sostenuto Pedals, MIDI PANIC	
		Indicators	LCD display: 40-character x 2-row, backlit LED display: red two-digit numeric Button lamps: EDIT button (green); 1-16, 17-32 buttons (red); PRESET VOICE button (red); Voice/Performance Select buttons (red/green)
		Input Jacks	FOOT CONTROLLER jacks (1/SUSTAIN, 2, 3, 4)
		Output Jacks	LINE OUT jacks (L/MONO, R; unbalanced, 1/4" phone); LINE OUT jacks (L, R; balanced, XLR); PHONES jack
		MIDI Terminals	MIDI IN, MIDI OUT, MIDI THRU
		Electrical Characteristics	Power Consumption: 25 W Output Impedance: Phone: (600Ω), XLR: (150Ω)
		Dimensions (W x D x H)	1447 x 548 x 773 mm (57" x 21-5/8" x 30-1/2")
		Weight	55 kg (121 lbs.)
		Included Accessories	Keyboard Stand, Pedal Unit, Attachment for Extra Keyboard
		Optional Accessories	Yamaha FC4, FC5 Foot Switches; Yamaha FC7 Foot Controller

Included Attachment for Extra Keyboard



Optional KA-45 Keyboard Amplifier



The Yamaha KA-45 (shown here) and KA-75 Keyboard Amplifiers are an ideal match for the dynamic sound of the P-500. Both are high-power, high-quality amplifier/speaker systems that provide extraordinary clear and natural sound reproduction, for various live performance applications.

For details please contact:

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