Definitions

Pianovelle features many new and innovative breakthroughs in technology. Terms used to describe this technology are found on the following pages along with some definitions of the features and functions of Pianovelle digital pianos.

Operating System

The Operating System (OS) is the set of software commands that operates your instrument. These commands determine how features and functions work when you press any given button.

Single Touch Play

This control is found on both the PS1500 and the PS/GPS2500. It is used to activate everything needed to start the automatic accompaniment features. All you need to do after selecting this control, is to pick your musical style and begin to play a song.

Grand Piano Button

The Grand Piano Button will give you a Grand Piano sound across the entire keyboard. It functions as a sort of 'return to home' button since the PS1500 and PS/GPS2500 are capable of providing split and layered sounds on the keyboard.

Play All Songs

This control allows you to play the entire contents of any compatible 3 1/2" song disk with just one press of a button. The songs are played in alphabetical order (as they appear in the disk directory). There is a Play All Songs button on both the PS15000 and PS/GPS2500. Just sit back, relax and enjoy the music!

Serial Port
Both the PS1500 and the PS/GPS2500 are equipped with a computer serial port for direct communication with a Macintosh™ or MS-DOS™/ Windows™ based personal computer without using a MIDI interface. You must install the correct driver software on your computer to take advantage of this feature.

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Flash ROM Memory

This type of memory is used to store the Operating System on the Pianovelle PS Series instruments. Flash ROM Memory is unique since it can be updated by disk, yet it does not require a battery to hold the information when the instrument is turned off. Flash ROM allows your PS Series instrument to be updated with new features and operational advantages when many other instruments become outdated.

Sample RAM Memory

This type memory is used to store new instrument sounds (samples) that can be loaded into a PS/GPS2500 by 3 1/2" disks. These new sounds are not just variations of existing sounds - they are totally new samples that can be used to expand the capabilities of your instrument. Many different sample formats can be recognized by the PS/GPS2500 including wave files (.wav) found on your home computer. You can purchase optional computer SIMM memory modules for your instrument along with special battery-backed DRAM sample memory.

Hard Disk Drive

The Pianovelle PS/GPS2500 can be fitted with an optional IDE (PC Standard) hard disk drive. The hard disk drive will allow you to store large amounts of information (songs, styles, presets and samples) inside your instrument. The hard disk can store the equivalent of many hundreds of 3 1/2" floppy disks and load the information into your instrument very quickly. The hard disk drive is ideal for creating a 'library' that you can have at your fingertips whenever you need it.

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Song Disk Formats

The Pianovelle PS/GPS2500 is able to load and play songs saved in many different 3 1/2" song disk formats. Of course, you can load and play songs created and saved in the PS/GPS2500 song format that can contain lyrics, chords and melody score. These songs are defined as **SONGS** on the instrument and must be loaded as such. The PS/GPS2500 can also load and play songs stored on 3 1/2" disks as Standard MIDI Files, Tune 1000™, Piano Soft™, Piano Soft Plus™, Disk Orchestra Collection™, PianoDisc™ Symphony PDS128, PianoDisc™ Solo Acoustic, QRS Pianomation™ MIDI disks and many other song disk formats. These songs are defined as **MIDI FILES***** and must be loaded as such. When using the Play All Songs function (instead of loading the songs) you simply insert a compatible song disk and press the button to enjoy the music. The PS1500 can play songs created and saved in the PS1500 song format along with Standard MIDI Files and Tune 1000™ song disks with lyrics.

General MIDI (GM)

The entire PS Series of digital pianos are compatible with the General MIDI industry standard. This standard requires that the instrument provide at least 128 specified acoustic instrument, percussion and contemporary sounds in the proper specified locations. Compliance with the standard insures that Standard MIDI Files will choose and play the correct sounds intended for use by the composer of the song. The PS/GPS2500 has more than 600 sounds and the PS1500 has over 500 sounds, providing variety far beyond the required standard.

Digital Signal Processing Effects (DSP)

All Pianovelle digital pianos have many DSP Effects available for your selection and use. DSP Effects are sound processing effects like reverberation, tremolo and chorus. These effects, when added to your presets, give your sounds a professional studio quality that simulates room acoustics.

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Polyphony

Polyphony is a term that refers to the number of notes played that can generate sound at any one point in time on a digital piano. If the damper pedal is held down, all notes played after the pedal is engaged are counted against the maximum polyphony of the instrument. If two sounds are layered, the polyphony is always cut in half. The Pianovelle RP2 and GRP3 feature industry leading 128-note polyphony. The Pianovelle RP1, RPS and PS/GPS2500 feature 64-note polyphony. The Pianovelle PS1500 has 32-note polyphony available.

Microscope Editing

The Pianovelle PS/GPS2500 sequencer provides microscope editing, a feature normally found only on computer sequencing programs. Microscope editing allows the user to view and edit (change) individual events that occur during a song. This means that a single incorrect note, for example, can be corrected without having to go through the difficulty of recording the track again or using a 'punch in, punch out' feature.

A/V Board (Audio/Video Board)

This optional board for the PS/GPS2500 allows projection of all display information on an external television or video projection device in 256 color quality. The information displayed includes chords, melody and lyrics-making this option an ideal choice for group karaoke sing-alongs or congregational singing. With the optional A/V board, you can also add the internal DSP effects (like reverb) to a microphone or other device inserted in the inputs found on the rear of the instrument.

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Physical Models

A physical model is a complex numeric representation of an acoustic phenomena and is used to generate sound. Models differ from sampling in that samples are only a recording of an acoustic sound. Models can provide very complex nuances in the sound that are impossible to effectively record with the sampling process. All RP Series instruments compliment the sampling process with two different physical models - Damper Physical Model and Natural String Resonance.

Damper Physical Model (DPM)

DPM creates the interaction you hear between an acoustic piano's damper pedal, soundboard and strings. Both harmonic sound generation and a natural reverberant effect can be heard on any RP Series instrument when using the damper pedal.

Natural String Resonance (NSR)

NSR creates the string vibration that occurs when keys are pressed and selected dampers remain lifted as addional notes are played. These harmonics are faithfully generated whenever you use the RP Series Concert Grand Preset.

Intelligent Music Search (I.M.S.)

This feature is found on Pianovelle RP2 and GRP3 instruments and allows the user to play the first few melody notes of one of the built-in 283 classical music selections to recall it for playback.