KORG

Pa4X | OS version 2.0

PA4X OPERATING SYSTEM VERSION 2.0

Installation and new features

Installing the new operating system

If new, your instrument might already include the new operating system. To check it, please go to the Media > Utility page, and read the version number in the lower area of the display.

To install the new operating system, please read the 'Pa4X OS Update' instructions supplied with the installation file in our web site (www.korg.com).

Note: Before installing this update, be sure your Pa4X already includes OS v2.0.0 (you can check it in the **Media > Utility** page). If it still includes a previous version (v1.x.x), please download and install v2.0.0 before installing this update. You can find v2.0.0 at our web site.

Note: By loading the new Operating System, you also load all the features added by the previous updates.

New functions of OS Version 2.0

The following functions are added by upgrading to the new version of the operating system.

Where	New functions	Page
User Interface	Some page names have been changed	6
	Parameter and command names changed	6
Split Point	Split Point saved with each Keyboard Set	9
Style Controls	Style to Kbd Set programming	10
Chord Sequencer	Revised Record and Play procedures	12
SongBook	Selected song indicator in a Set List blinking	15
	Direct SongBook	15
	Saving different Styles or Songs	16
Style Record	Added pages to the Style Record mode	17
	New ways of listening to the recorded Style	17
	Empty Chord Variations shown by an asterisk	18
	Checking the available Chord Variations	18
	Style Creator Bot importing Chord Sequences	19
Song Record	Backing Sequence recording the KAOSS effects	20
	Converting MIDI Song's notes to chords	20
Audio In	Accurate microphone input metering	27
Effects	Noise Gate added to some guitar effects	28
KAOSS FX	The KAOSS FX feature has been added	29
Song Preferences	Saving the Song Preferences is now a page menu command	30
MIDI	The USB HOST port can be used to connect other musical instruments to be used as controllers	47
	Fixed Note Off Velocity on received notes	48
Video Out	Video Mode saved in the Global	49
File management	Direct folder selection procedure revised	50
	Renaming the Favorite/User/Direct banks	51
	Importing from older instruments procedure revised	52
Musical Resources	New Styles, Keyboard Sets, Sounds, Drum Kits, Multisamples	56

Functions added by previous OS versions

The following functions are added by upgrading to version 1.2 of the operating system.

Where	New functions	Page
Search	The Search function now also works for Pads, Voice Presets, Samples and Multisamples.	6
Main page	The Style and Keyboard Set areas now show the type of bank.	7
Metronome and Tempo	The maximum Tempo value is now 300 BPM.	11
	The lowest metronome volume value is now 10.	11
Voice Processor	Voice Preset no longer saved with Keyboard Sets and Styles.	8
Tuning	Master Transpose no longer saved with Keyboard Sets and Styles.	8
	There are now 15 SC Presets (Quarter Tone Scale Presets). The presets can be renamed.	43
Fill	The Fill Mode parameter allows for automatically selecting a Variation when pressing a FILL/BREAK button.	9
MP3 recording	MP3 files are now compressed using CBR encoding (instead of VBR).	22
Sampling	User Samples can now be compressed.	25
	Edit Sample button added to the Multisample > Edit page.	26
Assignable sliders	New functions can be assigned to the assignable sliders. Some names have been revised.	31
Assignable switches	New functions can be assigned to the assignable switches. Some names have been revised.	32
Expression pedal	Revised names for some functions assignable to the expression pedal.	37
EC5 multiswitch	New functions can be assigned to the EC5 switches. Some names have been revised.	39
Locks	The Fill Mode lock has been added to the Global > General Controls > Lock page.	30
MIDI	Styles and Keyboard Sets can be selected via MIDI.	47
	Master Transpose values are now sent and received via MIDI.	48
	Quarter Tone Scale settings are now sent and received via MIDI.	48
Data protect	(Pa4X Oriental only) Factory and Favorite Protect option added.	52

The following functions are added by upgrading to version 1.1 of the operating system.

Where	New functions	Page
Sequencer	MIDI Songs can be imported without initializing the current settings.	21
Sound / Drum Kit editing	When editing a Sound or Drum Kit, volume levels are expressed in decibels (dB), with a resolution of 0.1 dB.	23
	A new Dry+Amb menu has been added to all the Sound Edit › DrumKit section pages.	23
	A Level parameter has been added to the Sound › DrumKit › Voice Mixer page.	24
	A new Velocity Switch Levels page has been added to the Drum Kit Edit mode, to help you mix the Drum Kit layers.	24
Effects	The Early Reflections Hi Dens FX can now only be assigned to the MFX A2/3 or B2 effect processors.	28
Locks	The Slider Mode lock has been added to the Global › General Controls › Lock page.	30
Style Element Scale	The Style Element's Scale can now only be a User scale.	44
	The Retune Style / Chord Follow function has been added, to let you automatically or manually retune the Style Element's Scale.	44
Date and Time	Date and time are now assigned to each single musical resource (a single Sound, a single Style…).	50
Other	New shortcuts have been added.	53

User Interface

Page names changed   [2.0]

Some page names have been changed.

Mode	Section	Old name	New name
Style/Song Play	Keyboard/Ensemble	Key/Velocity Range	Range/Velocity
Style/Pad Record	Import/Export	Import › SMF	Import SMF
		Export › SMF	Export SMF
		Import › Groove	Groove
	Record Mode Selection	Create Style from Midi File	Style Creator Bot
Pad Record	Pad Track Controls	Expression	Settings
Sequencer	Song Edit	RX Convert	Utility
SongBook	–	Book Edit 1	Write
		Book Edit 2	Tags
		Book Edit 3	Controls/Lyrics
Global	Mode Preferences	Style	Style 1, Style 2

Parameter and command names changed   [2.0]

Some parameter and command names have been changed, to make them easier to understand.

Searching Pads, Voice Presets, Samples and Multisamples   [1.2]

The SEARCH button now also works for Pads, Voice Presets, Samples and Multisamples.

Main page

Style and Keyboard Set type shown in the Main page [1.2]

The Style and Keyboard Set areas in the Main page show the type of bank containing the resource.
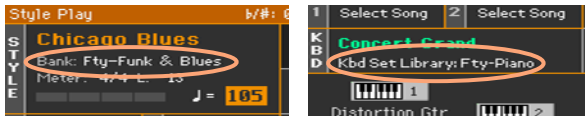
Label	Meaning
Fty	Factory
Usr	Internal User/Favorite
Dir	Direct User/Favorite
Kbd Set Library	Keyboard Set from the Library (Factory/User/Direct)
Style Kbd1…4	Keyboard Set from the selected Style
SBook [song name] Kbd1…4	Keyboard Set from the selected SongBook Entry

Sound Sets

Voice Preset no longer saved with Keyboard Sets and Styles   [1.2]

The selected Voice Preset is no longer saved with the Keyboard Sets and Styles. This means that choosing a different Keyboard Set or Style will no longer change the Voice Preset.

If you want to save the selected Voice Preset together with the Keyboard Sets, Styles or Songs, you can create a new SongBook Entry based on them. Choose the Voice Preset, together with the desired Keyboard Sets, Style or Song, then keep the SONGBOOK button pressed for about one second to create a new SongBook Entry.

Master Transpose no longer saved with Keyboard Sets and Styles   [1.2]

The Master Transpose value (set with the TRANSPOSE buttons on the control panel) is no longer saved with the Keyboard Sets and Styles. This means that choosing a different Keyboard Set or Style will no longer change the Master Transpose.

If you want to save the Master Transpose value together with the Keyboard Sets, Styles or Songs, you can create a new SongBook Entry based on them. Choose them, then keep the SONGBOOK button pressed for about one second to create a new SongBook Entry.

To let the SongBook Entry change the Master Transpose value when selected, be sure the Master Transpose lock is deselected in the Global > General Controls > Lock > Tuning page.

Style Play

Split Point saved with each Keyboard Set [2.0]

The local split point can be memorized into a Keyboard Set. Each Keyboard Set associated to a Style or SongBook Entry can have a different split point (instead of a single one).

Fill Mode [1.2]

The Fill Mode parameters have been added to the Style Play > Style Controls > Drum/Fill page:

The Fill Mode parameters allow for automatically choosing a Variation at the end of each Fill, after having pressed one of the FILL or BREAK buttons. These settings can be saved to the Style Settings or a SongBook Entry, so you can have a different Fill Mode configuration for each Style or SongBook Entry.

Fill Mode	Meaning
Off	The same Variation, playing before selecting a Fill, will be selected again.
V1&V2 ... V3&V4	The specified Variations will be alternatively selected, when one of them is selected. For example, with the V1&V2 option, if Variation 1 is selected, Variation 1 and Variation 2 will be alternatively selected after the end of the Fill.
Var.Up/Var.Down	The next higher/lower numbered Variation is selected, in cycle. After Variation 4, an Up command will select Variation 1. After Variation 1, a Down command will select Variation 4.
Var.Inc/Var.Dec	The next higher/lower numbered Variation is selected. When Variation 4 is reached, an Inc command will select Variation 4 again. When Variation 1 is reached, a Dec command will select Variation 1 again.
To Var.1 ... To Var.4	Fill to Variation (->1, ->2, ->3, ->4) automatically selects one of the four available Style Variations at the end of the fill.

Style to Keyboard Set programming [2.0]

You can program how the Style to Keyboard Set function works.

1 Go to the Global > Mode Preferences > Style 1 page.

As an alternative, keep the SHIFT button pressed and press the STYLE PLAY button to open the Style page.

2 Use the Style to Kbd Set Mode menu to choose the way the function works.

Style to Kbd Set	Meaning
Next Measure	When you choose a Style, the new Keyboard Set will not be automatically selected until the first beat of the next measure is reached.
Immediate	When you choose a Style, the new Keyboard Set will be immediately selected.

3 Press the EXIT button to return to the previous page.

Tempo and Metronome

Maximum Tempo value [1.2]

The maximum Tempo value is now 300 BPM.

Lowest Metronome Volume [1.2]

The lowest metronome volume value is now 10.

Chord Sequencer

## Revised Chord Sequencer Record and Play procedures   [2.0]

Chord Sequencer playback and recording has been improved. It is now much easier using it, and a small symbol next to the name of the Style (**CS**) now shows if a sequence is currently available.

Recording a Chord Sequence while the Accompaniment is playing

(This procedure remains mostly the same as in the previous OS).

You can start recording while the Arranger is playing.

1   Press the START/STOP button to start the automatic accompaniment.

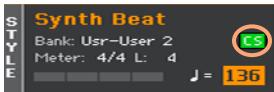2   Press the CHORD SEQUENCER > RECORD (●) buttons to start recording.
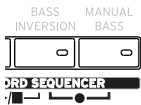
While in record, you will see the red Chord Record icon flashing in the display.

3   At the beginning of the next measure, start recording your Chord Sequence.

4   When the Chord Sequence is done, press the CHORD SEQUENCER > RECORD (●) buttons together again to stop recording.

The red Chord Record icon will disappear from the display.

The **CS** icon will appear next to the name of the Style, to show a Chord Sequence is available.

The Chord Sequence will remain in memory until you record a new Chord Sequence, choose a different Style or SongBook Entry, or turn the instrument off. If the sequence is locked, it will not change when choosing a different Style or SongBook Entry.

Recording a Chord Sequence while the Accompaniment is not playing

1   Press the **CHORD SEQUENCER > RECORD (●)** buttons to enter record-pending mode.
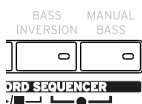
While in this mode, you will see the red Chord Record icon flashing in the display.

2   Play a chord, then start the automatic accompaniment in one of these ways:

■   Press the **START/STOP** button.

■   Press one of the INTRO buttons. With INTRO 1, recording will start at the end of the Intro.

■   If the SYNCHRO START indicator is turned on, the accompaniment will start as soon as you play a chord.

The red Chord Record icon will continue flashing in the display.

3   Record your Chord Sequence.

4   When the Chord Sequence is done, press the **CHORD SEQUENCER > RECORD (●)** buttons together again to stop recording.

The red Chord Record icon will disappear from the display.

The Chord Sequence will remain in memory until you record a new Chord Sequence, choose a different Style or SongBook Entry, or you turn the instrument off. If the sequence is locked, it will not change when choosing a different Style or SongBook Entry.

Starting the Chord Sequence while the Accompaniment is playing

(This procedure remains mostly the same as in the previous OS).

1   While the accompaniment is playing, press the **CHORD SEQUENCER > PLAY/STOP (▶/■)** buttons together to start the Chord Sequence.
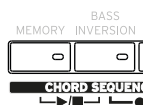
The indicators of the two buttons will start flashing. The Chord Sequence will be played back in loop starting from the next measure.

2   Play your solo part, while the Chord Sequence plays the chords for you.

    During Chord Sequence looping, you can freely select any Fill or Variation, as if you where playing chords with your hands.

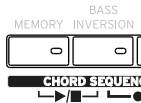3   Press the CHORD SEQUENCER > PLAY/STOP (▶/■) buttons together again to stop the Chord Sequence. The button indicators will stop flashing.

    If you stop the automatic accompaniment, the Chord Sequence is also stopped.

Starting the Chord Sequence with the Accompaniment

1   While the accompaniment is not playing, press the CHORD SEQUENCER > PLAY/STOP (▶/■) buttons together to start the Chord Sequence.

    The indicators of the two buttons will start flashing.

2   Start the accompaniment. The Chord Sequence will immediately start playing.

3   Play your solo part, while the Chord Sequence plays the chords for you.

    During Chord Sequence looping, you can freely select any Fill or Variation, as if you where playing chords with your hands.

4   Press the CHORD SEQUENCER > PLAY/STOP (▶/■) buttons together again to stop the Chord Sequence (or stop the accompaniment). The button's indicators will stop flashing.

SongBook

Direct SongBook [2.0]

In addition to the internal SongBook, residing in your Pa4X, you can also choose Entries and Set Lists from an external, Direct SongBook, that will extend your internal database on the fly.

Selected song indicator in a Set List blinking [2.0]

Songs are assigned to the buttons whose indicator is turned on. Each row of tiles corresponds to a group of three buttons. The indicator on the selected song blinks.

Indicator status	Meaning
Off	No song assigned.
On	Song assigned.
Blinking	Song selected.

Saving different Styles or Songs   [2.0]

With each SongBook Entry, a reference to a Style or Song is saved. When editing an Entry, you can change it with a different Style or Song.

1   Choose the SongBook Entry to be edited.

2   Go to the SongBook > Write page, and touch the Style/Song > Select button to open the Style Select or Song Select window.

Touch to choose a different Style or Song

3   Choose a different Style or Song.

The Style/Song area will show the Style or Song you just selected.

Replaced Style or Song

4   Be sure the Style/Song > Write checkbox is selected, to save the new Style or Song and replace the older one.

5   If you don't want to replace the Keyboard Sets or Voice Preset, be sure the other Write checkboxes are not selected.

6   Touch the Write button to save over the exiting SongBook Entry.

Style Record

Added pages to the Style Record mode [2.0]

To make Style editing faster, the following pages have been added to the Style Record mode. These pages are the same you can find in the Song Play mode.

Mode	Section	Page
Style Record	Style Track Controls	Mode
		Drum Edit
		Sound Edit
		Drum Map
		Range/Wrap
	Mixer/Tuning	Volume/Pan
		Insert FX
		FX Send
		EQ Gain
		EQ Control
		Tuning
	Master Effects	FX A

New ways of listening to the recorded Style [2.0]

The procedure for listening to the recorded Styles has been revised.

Testing chords

While in Style/Pad Record, the keyboard can play chords to drive the recorded musical patterns, and a piano sound to help you test the patterns. How chords are recognized depends on the status of the SPLIT indicator.

SPLIT indicator	Lower	Upper
On	Lower chord scan	Piano sound
Off	Full chord scan, piano sound	
Blinking	Full chord scan, no sound	

Listening to the results

1   Press the START/STOP button to check how the musical pattern works.

2   Play a chord, and test the patterns.

3   Press START/STOP again to stop playback.

Empty Chord Variations shown by an asterisk   [2.0]

While in Style Record, when an asterisk (*) appears next to a CV abbreviation (CV1* ... CV6*), the Chord Variation is empty. Abbreviations are no longer shown in lower cases.

Checking the available Chord Variations   [2.0]

You can see which Chord Variations have been recorded (or imported) in the current Style.

■   Go to the Style Record > Chord Table & Variation > Chord Variation page.

Dimmed Chord Variations are empty.

While in the Chord Table page you can see which Chord Variations have been used in the current Style Element, this page lets you see which Chord Variations are contained in the whole Style. If there are unused Chord Variations, you may choose to delete them to make the Style file lighter, or to assign them to a chord.

Style Creator Bot importing Chord Sequences   [2.0]

The Style Creator Bot (formerly, MIDI to Style Converter) now also imports chords into a Chord Sequence. After conversion, you will get a Style including all the Style Elements, the four Pads, the four Keyboard Sets and a Chord Sequence containing the chords recognized in the source MIDI Song.

Sequencer

Backing Sequence recording the KAOSS effects   [2.0]

While recording, you can use the KAOSS effects as if you were using them live.

1   While in the Backing Sequence Record page, touch the KAOSS button to access the KAOSS page.

2   Choose one of the KAOSS Preset by using the Preset menu or the Favorite buttons.

3   Start recording.

4   If you want to return to the Backing Sequence Record page, while continuing to record, press the EXIT button.

5   End recording.

Converting MIDI Song's notes to chords   [2.0]

The Detect Chord function scans the MIDI Song's tracks to detect chords, and then saves them as Chords events, to be seen in the Lyrics or Score page.

1   Go to the Sequencer > Song Edit > Utility page.
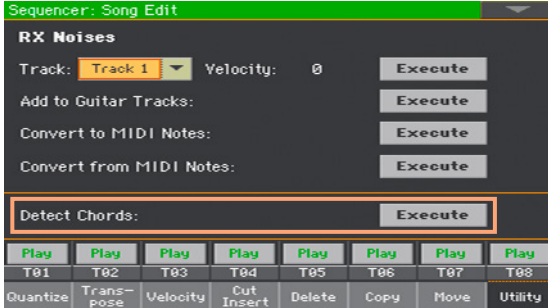
2   Touch the Execute button next to the Detect Chords parameter to automatically analyze the Standard MIDI File, and find chords.

This command scans the whole Standard MIDI File, looking for chords. After scanning, chords will be automatically saved in the file as Chords events.

Importing a MIDI Song without initializing the current settings   [1.1]

While in the Sequencer mode, you can import a MIDI Song without initializing the current Sequencer settings. This is useful when you are, for example, programming a Song on an external sequencer, and at the same time editing the Sounds, Effects, EQ, Volume Levels, Pan values, Drum Family parameters, etc., right on the Pa4X. Importing the MID file will not reset these settings.

1   Press the SEQUENCER button to go to the main page of the Sequencer mode.

2   Choose the Import command from the page menu, and open the Song Selection window.

3   Browse through the files and folders. When you see the MIDI Song (.mid) you want to import, touch it, then touch the Select button to import it.

MP3 encoding [1.2]

When recording MP3 Songs, the resulting MP3 files are now encoded as CBR files, instead of VBR. While VBR (Variable Bit Rate) could be more efficient in reducing the file size, CBR (Constant Bit Rate) will always result in a predictable audio quality, but will produce a slightly larger file.

Quality	Meaning
Highest	256 kbps
High	192 kbps
Medium	128 kbps

Sound Edit

Volume levels expressed in dB [1.1]

When editing a Sound or Drum Kit, volume levels are expressed in decibels (dB), with a resolution of 0.1 dB.

Sound/DK	Value
Sound	-Inf, -50...+00 dB
Drum Kit	-Inf, -50...+00...+6 dB. Depending on the sound, the maximum level could be automatically limited.

Dry+Amb menu [1.1]

A new Dry+Amb menu has been added to all the Sound Edit > DrumKit section pages, where you can choose the dry and/or ambient portion of the sound. This menu is useful to separately listen to the dry or ambient sound while editing.
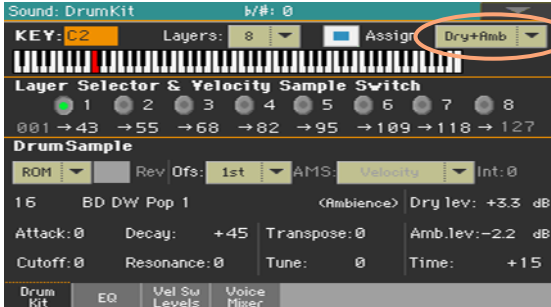
Level parameter [1.1]

A Level parameter has been added to the Sound > DrumKit > Voice Mixer page.
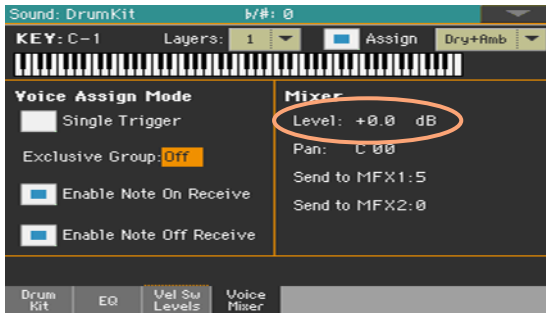
▪ Use the Level parameter to set the level of the selected key.

Mixing the Drum Kit layers [1.1]

When editing Drum Kits, you can access the Velocity Switch Levels page, where you can see all the drum samples, dry/ambient levels, and velocity switches of the available layers. While in this page, you can see which layer is playing.

▪ Go to the Sound > DrumKit > Velocity Switch Levels page.

View which layer is playing

▪ Play a note on the keyboard. Depending on the velocity, an indicator will turn on on the extreme right of the page, next to the layer that is playing.

Choose the drum sample

▪ Use the ROM/RAM parameter to choose the bank (ROM or RAM).

- Use the drum sample name parameter to assign a different drum sample to each layer.

Adjust the dry/ambient level

- Use the Dry Level and Amb Level parameters to adjust the level of the dry and ambient portion of the sound.

Adjust the velocity switch

- Use the Vel parameter to adjust the velocity switch between the layers.

Compressed User Samples [1.2]

Pa4X can read and play compressed User Samples. It can compress User Samples when saving them, or in batch. Sample compression allows for doubling the available Sampling memory. Compressed samples from Pa3X can also be read and played back.

Compressed samples can no longer be decompressed. If you want to keep the original samples, please save a copy before compressing them.

Loading compressed User Samples

Load compressed User Samples exactly as you load the other samples.

Compressing User Samples when writing them

You can compress a User Sample while writing it to the internal memory.

1 While in any page of Sample editing section, choose the Write command from the page menu to open the Write Sample dialog.
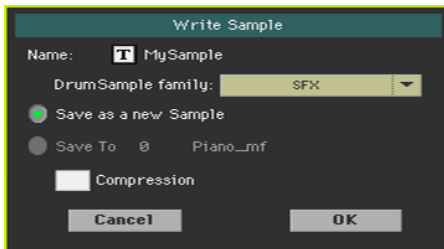
2 While in this dialog, select the Compression checkbox, to reduce the size of the sample up to a half of its original size. Please note that compression may require a long time.

Compressed samples will have an asterisk (*) added to their name.

Compressing all User Samples in memory

You can compress all the User Samples contained in the Sampling memory.

Turn off the Auto Power Off function

If you have more than a few samples to compress, deactivating the automatic power off function is strongly suggested.

1   Go to the Global > General Controls > Clock & Power page.

2   Deselect the Auto Power Off checkbox.

Compress the samples

1   While in any page of Sample editing section, choose the Compress all samples command from the page menu to run compression.

2   A message appears, warning about the long times needed to compress all the samples. Touch OK to confirm.

Please do not turn the instrument off while compression is going on.

When finished, compressed samples will appear with an asterisk (*) added to their name.

Turn on the Auto Power Off function

1   Go to the Global > General Controls > Clock & Power page.

2   Select the Auto Power Off checkbox.

Edit Sample button   [1.2]

The Edit Sample button has been added to the Sampling > Multisample > Edit page. By touching it, you will go to the Sampling > Sample > Edit page with the selected sample.
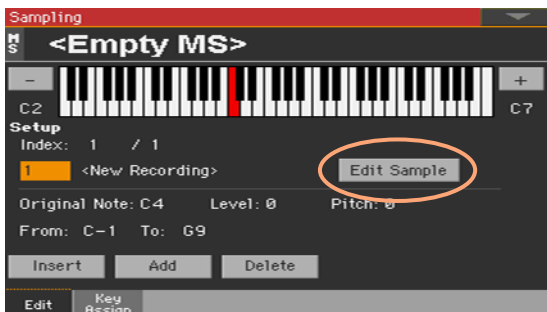
Audio Inputs

Accurate microphone input metering [2.0]

When adjusting the microphone input gain, you have more accurate control by checking the input level in the Global > Mic Setup > EQ/Dynamics page.
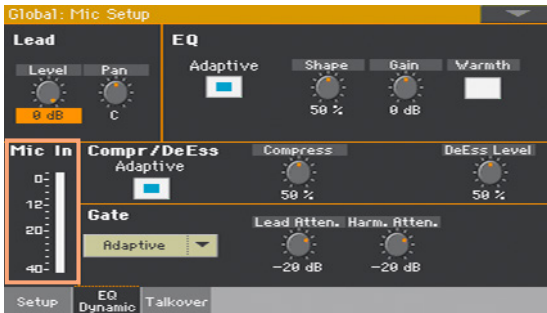
Effects

Early Reflections Hi Dens FX assignment [1.1]

The Early Reflections Hi Dens FX can now only be assigned to the MFX A2/3 or B2 effect processors. This will ensure it always has the needed processing power.

Noise Gate added to some guitar effects [2.0]

A Noise Gate has been added to the following effects: GuitarAmp + Cabinet, Amp Clean Combo + Cab, Amp California + Cab, Amp Tweed + Cab, Amp Modded OD + Cab.

KAOSS FX

KAOSS FX feature added   [2.0]

KAOSS effects are a new, easy-to-use set of computer-assisted composition features.

Please, refer to the User Manual for detailed information on how to use them.

Global and Preferences

Locking the Slider Mode [1.1]

A new lock has been added to the Global > General Controls > Lock > Control page.

Control lock	Meaning
Slider Mode	When locked, selecting a Keyboard Set, Style or SongBook Entry will not change the status of the SLIDER MODE indicator.

Locking the Fill Mode [1.2]

A new lock has been added to the Global > General Controls > Lock > Style page.

Control lock	Meaning
Fill Mode	When locked, the selected Fill Mode will not change when choosing a different Style or SongBook Entry.

Saving the Song Preferences is now a menu command [2.0]

The Write Song Play Track & FX command is now in the page menu.

■ Go to the Global > Mode Preferences > Song & Seq. page, and choose the Write Song Play Track & FX command from the page menu.

Controllers

New functions assignable to the assignable sliders [1.2]

New functions have been added to the assignable sliders. Some names have been revised. Please find following the updated list, with the new functions highlighted.

Slider function	Meaning
Off	No function assigned
Master Volume	Master Volume control
Keyboard Expression	Relative Volume of the Keyboard Sounds. All the other Sounds will not be varied.
Style Drum&Perc.Vol.(Gbl)	The same as the Style Volume sliders in the Global > Mode Preferences > Styles page.
Style Bass Vol.(Gbl)	
Style Accomp.Vol.(Gbl)	
Kbd Upper 1 Volume	Volume of the corresponding Keyboard Sound.
Kbd Upper 2 Volume	
Kbd Upper 3 Volume	
Kbd Lower Volume	
Pad Volume	Pads volume control
Pad 1...4 Volume	Volume of the corresponding Pad.
Style Drum Volume	Volume of the corresponding Style track.
Style Perc Volume	
Style Bass Volume	
Style Acc 1...5 Volume	
Song Track 1...16 Volume	Volume of the corresponding MIDI Song track.
SMF Melody Volume	Volume of the corresponding MIDI Song's special tracks (selected in the Global > Mode Preferences > Song & Seq page).
SMF Drum&Bass Mode Vol.	
Joystick X+	Replicates the joystick right movement
Joystick X-	Replicates the joystick left movement
Joystick Y+	Replicates the joystick forward movement
Joystick Y-	Replicates the joystick backward movement
Upper VDF Cutoff	Filter cutoff (for Sounds assigned to the Upper tracks)
Upper VDF Resonance	Filter resonance (for Sounds assigned to the Upper tracks)

Slider function	Meaning
Mic Lead Voice Level	Continuous controls assigned to the Voice Processor
Mic Harmony Level	
Mic Double Level	
Mic Filter Level	
Mic uMod Level	
Mic Delay Level	
Mic Reverb Level	
Mic EQ Gain Low	
Mic EQ Gain Mid	
Mic EQ Gain High	
FX CC12 Ctrl	Standard FX controllers, used as DMS modulations. How they work depends on the Effects programming.
FX CC13 Ctrl	

New functions assignable to the assignable switches [1.2]

New functions have been added to the assignable switches. Some names have been revised. Please find following the updated lists, with the new functions highlighted.

Switch function	Meaning
Off	No function assigned
Ritardando	Slowing down or making the Tempo faster, according to the curves programmed in the Global > General Controls > Basic page.
Accelerando	
Style Up	Selects the next Style
Style Down	Selects the previous Style
Kbd Set Library Up	Selects the next Keyboard Set from the KEYBOARD SET LIBRARY
Kbd Set Library Down	Selects the previous Keyboard Set from the KEYBOARD SET LIBRARY
Sound Up	Selects the next Sound
Sound Down	Selects the previous Sound
Synchro Start	Same functions as the control panel buttons with the same name
Synchro Stop	

Switch function	Meaning
Style Drum Mute	Mute of the corresponding track
Style Perc Mute	
Style Bass Mute	
Style Acc1...5 Mute	
Style Acc 1-5 Mute	Mute/Unmute all the Acc tracks at once
Song Melody Mute	Mutes the MIDI Song track set as the Melody track (Global > Mode Preference > Song & Seq.)
Vocal Remover	Removes the lead voice from the MP3 Song
Song Drum&Bass Mode	Mute of all MIDI Song tracks, except the Bass and Drum tracks (as set in the Global > Mode Preference > Song & Seq. page). It doesn't work on MP3 Songs.
Solo Selected Track	Turns track solo on/off
Bass&Lower Backing	When the Style is not playing and the keyboard is in Split mode, you can play the Lower Sound with your left hand, while the Bass still plays the chord root.
QuarterTone	Turns Quarter Tone on/off
Retune Style	Makes the instrument wait for a chord. The root of the chord will be the new root of the scale used by some of the Style tracks.
Global-Scale	When the switch or footswitch is pressed, the Global > Tuning > Scale page is recalled
SubScale Preset 1...15 - SC1...15	Same functions as the SC Preset buttons in the display
Mic Talk	Switch controls assigned to the Voice Processor
Mic Lead On/Off	
Mic Filter On/Off	
Mic HardTune On/Off	
Mic uMod On/Off	
Mic Delay On/Off	
FX CC12 Switch	Standard FX switches. How they work depends on the Effects programming.
FX CC13 Switch	
Rotary Spkr On/Off	Rotary Speaker effect controls
Rotary Spkr Fast/Slow	
Drawbar Perc On/Off	Turns Drawbar Percussion of/off
Text Page Next	These options let you move to the previous or next page, when reading a text file automatically loaded with a Song or SongBook Entry, or manually loaded from the Lyrics page.
Text Page Prev	
Set List Next	Moves to the next SongBook Entry in the selected Set List
Set List Prev	Moves to the previous SongBook Entry in the selected Set List

Switch function	Meaning
Sound Controller 1	DNC Sound Controllers (CC#80 and CC#81). They control the function assigned in Sound Edit in DNC Sounds.
Sound Controller 2	

Functions assignable to a footswitch pedal [1.1]

New functions have been added to the footswitch pedal. Some names have been revised. Please find following the updated list, with the new functions highlighted.

Footswitch function	Meaning
Off	No function assigned
Style Start/Stop	Same functions as the control panel buttons with the same name
Play/Stop Player 1	
Play/Stop Player 2	
Go to Beginning Player 1	
Go to Beginning Player 2	
Chord Seq. Record	
Chord Seq. Play	
Synchro Start	
Synchro Stop	
Tap Tempo/Reset	
Tempo Lock	
Ritardando	Slowing down or making the Tempo faster, according to the curves programmed in the Global > General Controls > Basic page.
Accelerando	
Tempo Up	Same functions as the control panel buttons with the same name
Tempo Down	
Intro 1…3/Count In	Selects the corresponding Intro
Ending 1…3	Selects the corresponding Ending
Fill 1…4	Selects the corresponding Fill
Break	Selects the Break
Variation 1…4	Selects the corresponding Variation
Variation Up	Selects the next Variation
Variation Down	Selects the previous Variation

Footswitch function	Meaning
Fade In/Out	Same functions as the control panel button with the same name
Memory	
Bass Inversion	
Manual Bass	
Split	
Style Up	Selects the next Style
Style Down	Selects the previous Style
Kbd Set Mode	Same function as the control panel button with the same name
Kbd Set 1...4	Selects the corresponding Keyboard Set from the KEYBOARD SET section under the display
Kbd Set Up	Selects the next Keyboard Set from the KEYBOARD SET section under the display
Kbd Set Down	Selects the previous Keyboard Set from the KEYBOARD SET section under the display
Kbd Set Library Up	Selects the next Keyboard Set from the KEYBOARD SET LIBRARY
Kbd Set Library Down	Selects the previous Keyboard Set from the KEYBOARD SET LIBRARY
Sound Up	Selects the next Sound
Sound Down	Selects the previous Sound
Transpose (b)	Same functions as the control panel buttons with the same name
Transpose (#)	
Upper Octave Up	
Upper Octave Down	
Punch In/Out	Turns Punch Recording on/off
Kbd Upper1...3 Mute	Mute of the corresponding Sound.
Kbd Lower Mute	
Style Drum Mute	
Style Perc Mute	
Style Bass Mute	
Style Acc1...5 Mute	
Style Acc1-5 Mute	Mute/Unmute all the Acc tracks at once
Song Melody Mute	Mutes the MIDI Song track set as the Melody track (Global > Mode Preference > Song & Seq.).
Vocal Remover	Removes the lead voice from the MP3 Song
Song Drum&Bass Mode	Mute of all MIDI Song tracks, except the Bass and Drum tracks (as set in the Global > Mode Preference > Song & Seq. page). It doesn't work on MP3 Songs.

Footswitch function	Meaning
Solo Selected Track	Turns track solo on/off
Damper Pedal	Damper function. Corresponds to the right pedal of an acoustic piano. It holds the notes played when the pedal is pressed down.
Soft Pedal	Soft function. Corresponds to the 'una corda' pedal of an acoustic piano. Makes the sound softer.
Sostenuto Pedal	Sostenuto function. Corresponds to the left pedal of a grand piano. It holds the notes already held when pressing the pedal down.
Bass&Lower Backing	When the Style is not playing and the keyboard is in Split mode, you can play the Lower Sound with your left hand, while the Bass still plays the chord root.
Ensemble	Turns Ensemble on/off
QuarterTone	Turns Quarter Tone on/off
Retune Style	Makes the instrument wait for a chord. The root of the chord will be the new root of the scale used by some of the Style tracks.
Global-Scale	When the switch or footswitch is pressed, the Global > Tuning > Scale page is recalled.
SubScale Preset 1…15 - SC1…15	Same functions as the SC Preset buttons in the display
Chord Latch	Holds the recognized chord until the pedal is released
Glide	When the pedal is pressed, affected notes on Upper tracks are bent down, according to settings for the Pitch Bend on the same tracks. When the pedal is released, notes return to the normal pitch, at the speed defined in the Global > General Controls > Basic page.
Mic In Mute	Switch controls assigned to the Voice Processor
Mic Talk	
Mic Lead On/Off	
Mic Harmony On/Off	
Mic Double On/Off	
Mic Filter On/Off	
Mic Hard Tune On/Off	
Mic uMod On/Off	
Mic Delay On/Off	
Mic Reverb On/Off	
FX CC12 Switch	Standard FX switches. How they work depends on the Effects programming.
FX CC13 Switch	
Rotary Spkr On/Off	Rotary Speaker effect controls
Rotary Spkr Fast/Slow	

Footswitch function	Meaning
Drawbar Perc On/Off	Turns Drawbar Percussion of/off
Text Page Next	These options let you move to the previous or next page, when reading a text file automatically loaded with a Song or SongBook Entry, or manually loaded from the Lyrics page.
Text Page Prev	
Set List Next	Moves to the next SongBook Entry in the selected Set List.
Set List Prev	Moves to the previous SongBook Entry in the selected Set List.
Pad 1...4	Same functions as the control panel buttons with the same name
Pad Stop	
Sound Controller 1	DNC Sound Controllers (CC#80 and CC#81). They control the function assigned in Sound Edit in DNC Sounds.
Sound Controller 2	

Functions assignable to an expression pedal   [1.2]

Some names of the functions assignable to the expression pedal have been revised. Some names have been revised. Please find following the updated list, with the revised functions highlighted.

Pedal function	Meaning
Master Volume	Master Volume control
Accompaniment Volume	Volume of the Accompaniment Sounds
Keyboard Expression	Relative Volume of the Keyboard Sounds. All the other Sounds will not be varied.
Pad Volume	Volume of the MP3 Songs
Joystick X+	Replicates the joystick right movement
Joystick X-	Replicates the joystick left movement
Joystick Y+	Replicates the joystick forward movement
Joystick Y-	Replicates the joystick backward movement
Upper VDF Cutoff	Filter cutoff (for Sounds assigned to the Upper tracks)
Upper VDF Resonance	Filter resonance (for Sounds assigned to the Upper tracks)

Pedal function	Meaning
Mic In Volume	Continuous controls assigned to the Voice Processor
Mic Lead Voice Level	
Mic Harmony/Double Level	
Mic Harmony Level	
Mic Double Level	
Mic Filter Level	
Mic uMod Level	
Mic Delay/Reverb Level	
Mic Delay Level	
Mic Reverb Level	
Mic EQ Gain Low	
Mic EQ Gain Mid	
Mic EQ Gain High	
FX CC12 Ctrl	Standard FX controllers, used as DMS modulations. How they work depends on the Effects programming.
FX CC13 Ctrl	

Functions assignable to an EC5 switch [1.2]

New functions have been added to the EC5 switches. Some names have been revised. Please find following the updated list, with the new functions high-lighted.

EC5 function	Meaning
Off	No function assigned
Style Start/Stop	Same functions as the control panel buttons with the same name
Play/Stop Player 1	
Play/Stop Player 2	
Go to Beginning Player 1	
Go to Beginning Player 2	
Chord Seq. Record	
Chord Seq. Play	
Synchro Start	
Synchro Stop	
Tap Tempo/Reset	
Tempo Lock	
Ritardando	Slowing down or making the Tempo faster, according to the curves programmed in the Global > General Controls > Basic page.
Accelerando	
Tempo Up	Same functions as the control panel buttons with the same name
Tempo Down	
Intro 1…3/Count In	Selects the corresponding Intro
Ending 1…3	Selects the corresponding Ending
Fill 1…4	Selects the corresponding Fill
Break	Selects the Break
Variation 1…4	Selects the corresponding Variation
Variation Up	Selects the next Variation
Variation Down	Selects the previous Variation
Fade In/Out	Same functions as the control panel button with the same name
Memory	
Bass Inversion	
Manual Bass	
Split	
Style Up	Selects the next Style
Style Down	Selects the previous Style

EC5 function	Meaning
Kbd Set Mode	Same function as the control panel button with the same name
Kbd Set 1…4	Selects the corresponding Keyboard Set from the KEYBOARD SET section under the display
Kbd Set Up	Selects the next Keyboard Set from the KEYBOARD SET section under the display
Kbd Set Down	Selects the previous Keyboard Set from the KEYBOARD SET section under the display
Kbd Set Library Up	Selects the next Keyboard Set from the KEYBOARD SET LIBRARY
Kbd Set Library Down	Selects the previous Keyboard Set from the KEYBOARD SET LIBRARY
Sound Up	Selects the next Sound
Sound Down	Selects the previous Sound
Transpose (b)	Same functions as the control panel buttons with the same name
Transpose (#)	
Upper Octave Up	
Upper Octave Down	
Punch In/Out	Turns Punch Recording on/off
Kbd Upper1…3 Mute	Mute of the corresponding Sound.
Kbd Lower Mute	
Style Drum Mute	
Style Perc Mute	
Style Bass Mute	
Style Acc1…5 Mute	
Style Acc1-5 Mute	Mute/Unmute all the Acc tracks at once
Song Melody Mute	Mutes the MIDI Song track set as the Melody track (Global > Mode Preference > Song & Seq.).
Vocal Remover	Removes the lead voice from the MP3 Song
Song Drum&Bass Mode	Mute of all MIDI Song tracks, except the Bass and Drum tracks (as set in the Global > Mode Preference > Song & Seq. page). It doesn't work on MP3 Songs.
Solo Selected Track	Turns track solo on/off
Damper Pedal	Damper function. Corresponds to the right pedal of an acoustic piano. It holds the notes played when the pedal is pressed down.
Soft Pedal	Soft function. Corresponds to the 'una corda' pedal of an acoustic piano. Makes the sound softer.
Sostenuto Pedal	Sostenuto function. Corresponds to the left pedal of a grand piano. It holds the notes already held when pressing the pedal down.

EC5 function	Meaning
Bass&Lower Backing	When the Style is not playing and the keyboard is in Split mode, you can play the Lower Sound with your left hand, while the Bass still plays the chord root.
Ensemble	Turns Ensemble on/off
QuarterTone	Turns Quarter Tone on/off
Retune Style	Makes the instrument wait for a chord. The root of the chord will be the new root of the scale used by some of the Style tracks.
Global-Scale	When the switch or footswitch is pressed, the Global > Tuning > Scale page is recalled.
SubScale Preset 1...15 - SC1...15	Same functions as the SC Preset buttons in the display
Chord Latch	Holds the recognized chord until the pedal is released
Glide	When the pedal is pressed, affected notes on Upper tracks are bent down, according to settings for the Pitch Bend on the same tracks. When the pedal is released, notes return to the normal pitch, at the speed defined in the Global > General Controls > Basic page.
Mic In Mute	Switch controls assigned to the Voice Processor
Mic Talk	
Mic Lead On/Off	
Mic Harmony On/Off	
Mic Double On/Off	
Mic Filter On/Off	
Mic Hard Tune On/Off	
Mic uMod On/Off	
Mic Delay On/Off	
Mic Reverb On/Off	
FX CC12 Switch	Standard FX switches. How they work depends on the Effects programming.
FX CC13 Switch	
Rotary Spkr On/Off	Rotary Speaker effect controls
Rotary Spkr Fast/Slow	
Drawbar Perc On/Off	Turns Drawbar Percussion of/off
Text Page Next	These options let you move to the previous or next page, when reading a text file automatically loaded with a Song or SongBook Entry, or manually loaded from the Lyrics page.
Text Page Prev	
Set List Next	Moves to the next SongBook Entry in the selected Set List.
Set List Prev	Moves to the previous SongBook Entry in the selected Set List.
Pad 1...4	Same functions as the control panel buttons with the same name
Pad Stop	

EC5 function	Meaning
Sound Controller 1	DNC Sound Controllers (CC#80 and CC#81). They control the function assigned in Sound Edit in DNC Sounds.
Sound Controller 2	

Tuning and scales

More SC Presets (Quarter Tone Scales)   [1.2]

SC Presets, that let you instantly recall a Quarter Tone sub-scale, are now 15 and can be renamed.

More SC Presets

While in the Style Play/Song Play > main page > Sub-Scale pane, or in the Global > Tuning > Scale page, you can touch one of the 15 buttons to choose the corresponding SC Preset. The saved Quarter Tone sub-scale will be selected.
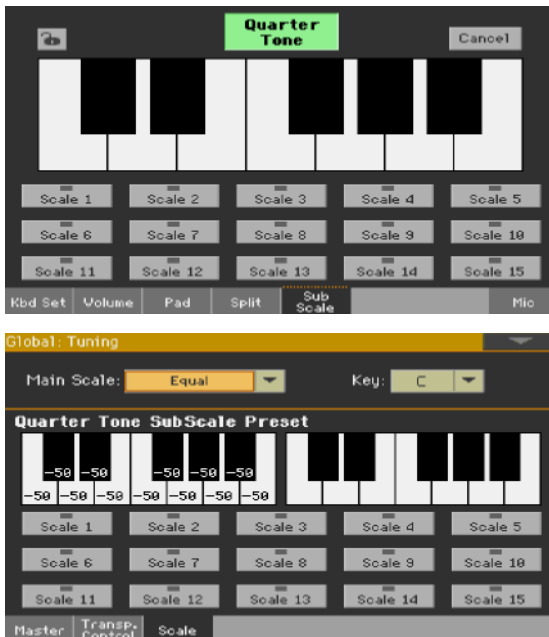
Renaming the SC Presets

When saving them, you can rename the SC Presets, to give them a meaningful name.

1   While in the Global > Tuning > Scale page, choose the Write Quarter Tone SC Preset command from the page menu to open the Write Quarter Tone Scale Preset dialog.
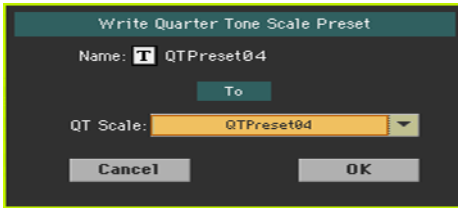
2   Touch the Text Edit (**T**) button if you want to assign the SC Preset a new name.

3   Choose one of the SC Preset locations to save the new scale, then confirm by touching the OK button.

Style Element's Scale   [1.1]

To make programming easier, the Style Element's Scale can only be a User scale. The Style Record > Style Element Track Controls > Scale page has been modified to include this change.

Retuning the Style while playing   [1.1]

While in the Style Record > Style Element Track Controls > Scale page, you can choose a sub-scale for each Style Element, and enable the sub-scale on each track of the Style Element.

This scale starts from a root key, that can change with each recognized chord, or after a deliberate command. Depending on your style of music, you will choose how to retune the Style.

How you choose the scale's root key will depend on two concurrent parameters: the Chord Follow option inside the Style, and the Retune Style parameter assigned to an assignable switch, footswitch or EC5 switch.

Retune Style	Chord Follow	Scale's Root Key
-	On	From each recognized chord.
	Off	From the chord recognized when the accompaniment is not playing.
Assigned	On	From the chord recognized while the accompaniment is not playing, or after pressing the assignable switch.
	Off	

Enabling the Chord Follow option

1   Go to the Style Record > Style Element Track Controls > Scale page.

2   Use the Chord Follow checkbox to turn the option on or off. See the table above to see how it works.

While each Style Element can have its own scale, this option is common to all Style Elements in the Style.

Assigning the Retune Style command to an assignable switch, footswitch or EC5 switch

Assign the Retune Style command to an assignable switch

1   Go to the Style Play/Song Play > Pad/Switch > Switch page.

2   Use one of the Switch 1...3 menus to choose a command to be assigned to the corresponding switch. Since the first two switches are usually assigned to the Sound Controllers, we suggest you use Switch #3.

3   Write the changes to a Keyboard Set. Writing to the special MY SETTING Keyboard Set makes this setting available when turning the instrument on.

4   Be sure the lock is closed; this will leave the assignable switch functions un-
    changed when choosing different Keyboard Sets.

Assign the Retune Style command to a footswitch or EC5 switch

1   Go to the Global > Controllers > Foot or EC5 page.

2   Use the Function or one of the A...E menus to choose a command to be as-
    signed to the corresponding switch.

Using the Retune Style command

When the Retune Style command is assigned to an assignable switch,
footswitch or EC5 switch, use it to change the Style Element Scale's root key.

After choosing a Style, check the main page of the Style Play mode. If at
least one of the Style Elements has a sub-scale assigned, and it is enabled
on at least one of the tracks, the Key parameter will appear in the Style area.

Retune with an assignable switch

1   Just before having to retune the Style, press the assignable switch. The
    indicator will start flashing.

2   Play a chord in the chord recognition area. The root of the chord will be the
    new root of the scale. The indicator will stop flashing.

Retune with a footswitch or EC5 switch

1   Just before having to retune the Style, press the footswitch or EC5 switch.

2   Play a chord in the chord recognition area. The root of the chord will be the
    new root of the scale.

MIDI

USB HOST as a MIDI connection [2.0]

You can use the USB HOST as a MIDI connection, to connect other musical instruments to be used as controllers.

Choosing the Styles and Keyboard Sets via MIDI [1.2]

Styles and Keyboard Sets (from the Library) can be remotely selected via MIDI. To select them, send a sequence of Control Change #00, Control Change #32 and Program Change messages on the special Control channel.

Configuring the Control channel

1. Go to the Global > MIDI > General Controls page and choose a MIDI Preset to be used as a starting point.

2. Go to the Global > MIDI > Midi In Channel page, and assign the Control option to one of the sixteen available MIDI channels (usually one of the higher-numbered ones, for example #16).

3. When done, save these settings to a new or existing MIDI Preset, by choosing the Write Midi Preset command from the page menu. Blank locations are shown as a series of dashes ('---').

Selecting the Styles and Keyboard Sets

The Control Change/Program Change values corresponding to each Style and Keyboard Set is shown in the relevant lists in the Appendix of the User Manual.

In general, these are the values of Control Change #00.

Styles	CC00	Keyboard Sets (Library)	CC00
Factory	0	Factory	16
Favorite	1	User	17
User	2	Direct User	18
Direct Favorite	3		
Direct User	4		

Fixed Note Off Velocity on received notes   [2.0]

Received notes can now have a fixed Note Off velocity value. This is useful when playing Pa4X with a controller sending a too high Note Off velocity value (usually 64).

1   Go to the Global > MIDI > MIDI IN Controls page.

2   Use the Fixed Note Off Velocity parameter to set a fixed Note Off velocity value for all the notes received via MIDI.

Master Transpose and Quarter Tone Scales sent and received via MIDI   [1.2]

Master Transpose and Quarter Tone Scale settings are now sent and received via MIDI.

■   Master Transpose is in a standard format, that can be received by all GM-compliant devices.

■   Quarter Tone Scale settings are in a proprietary format, that can be understood by all Pa-Series instruments including this feature.

Video Output

Video Mode saved in the Global [2.0]

The Video Mode (Lyrics or Display Mirror) is no longer reset on startup.

File management

Date and time assigned to each musical resource [1.1]

Date and time are now assigned to each single musical resource (a single Sound, a single Style...), instead of a whole bank. When saving a musical resource, the current date and time are updated. Older, unsaved resources in the same bank take the same date and time of the saved resource.

Since the date and time of the older, unsaved resources are not the real date and time they were last modified, they will appear dimmed in a file list.
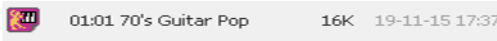
Direct folder selection procedure revised [2.0]

The Direct folder, containing Direct Styles, Keyboard Sets and SongBook, is now selected in the Global.

1 Connect the external storage device containing the Direct data.

2 Go to the Global > Mode Preferences > Media page.
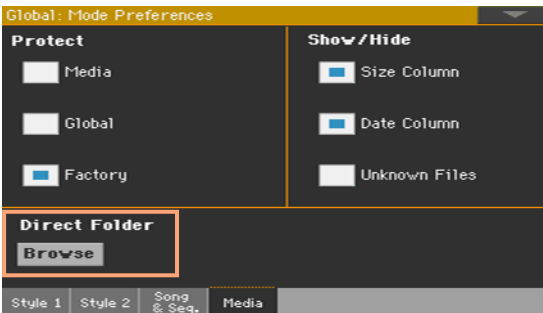
3 Touch the Direct Folder > Browse button to open the file selector.

4 Browse though the drives and folders, and select the SET folder to be used as the Direct set of banks.
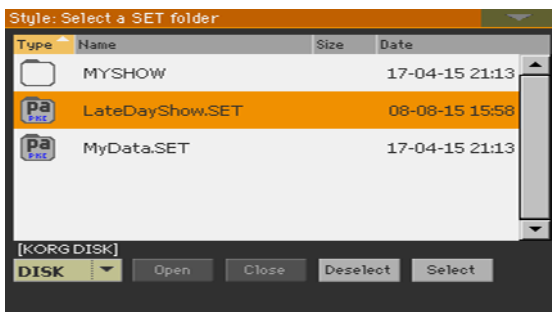
5 Touch the Select button to confirm.

Please note that you can only have a single Direct folder of Keyboard Sets, Styles, SongBook.

6 If you select a folder from a different Pa-Series instrument, you are asked if you want to convert the data to a format that Pa4X can read. If you confirm, you are prompted to choose a name and position for the new SET folder. (If you touch Cancel, no Direct folder is selected).

7 When done, go to a Select window, and see how the Direct type of data can be selected from the tabs on top of the list.

The Direct SongBook Entries and Set Lists will be automatically added to the internal Entries and Set Lists.

Renaming the Favorite/User/Direct banks [2.0]

You can rename the User/Favorite and Direct User/ Favorite banks, to create your own sets of Keyboard Sets, Styles, or Pads.

1 Open the Keyboard Set, Style, or Pad Select window, and select the User or Direct type of data.
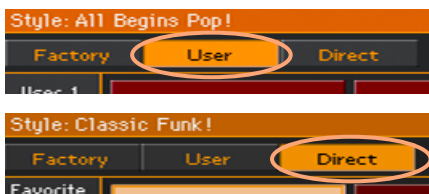
2 Choose the Rename User Banks command from the page menu to open the Rename User Banks dialog.

3 Assign the User/Favorite or Direct User/Favorite tabs any name you like.

Touch the Text Edit ($\boxed{T}$) icon next to the bank to be renamed, and use the virtual keyboard to edit the name. When done, touch OK to confirm.

The assigned name can be spanned over two lines, by separating them with the paragraph character (¶). For example, to write "World Music" on two lines, enter "World¶Music".

Be careful not to write words exceeding the width of the side tabs of the Keyboard Set Library Select or Style Select window.

4 When back at the Rename User Banks dialog, confirm the operation by touching the OK button.

Importing from older instruments procedure revised   [2.0]

You can load most data from KORG Pa-Series instruments. Please keep in mind that, depending on the actual data, you could not be able to directly load SET folders; in this case, open the folder, and load each bank or individual item separately.

After loading, save the converted data as a new SET folder after loading all the needed data.

Factory and Favorite Protect (Pa4X Oriental)   [1.2]

A Factory and Favorite Protect checkbox has been added to the Global > Mode Preferences > Media page of the Pa4X Oriental. When selected, this option protects all the Factory data and the Favorite Styles from editing.

Shortcuts

New shortcuts [1.1]

Some shortcuts have been added. Please find following the updated lists, with the new shortcuts highlighted.

Shift functions

You can keep the SHIFT button pressed, and press another button on the control panel to directly jump to an edit page or dialog box.

Shift +	Functions
Various modes	
Dial, Up/Down	Tempo Change
Scroll Arrows	When a list is shown: Goes to Next/Previous alphabetical section of the currently selected column
Sound	Sends the Sound assigned to the selected track to the Sound mode
Global	Selects the Global > MIDI > General Controls page. This is a quick way to jump to MIDI editing pages.
Media	Selects the Global > Mode Preferences > Media page
Start/Stop	Panic; stops all notes playing, and resets all controllers
Fade In/Out	Selects the Fade In/Out Time parameter in the Global > General Controls > Basic page
Auto Fill	Selects the Global > Mode Preferences > Style page
Synchro Start/Stop	Selects the Global > Midi > General Controls page
Tempo Lock	Selects the Global > General Controls > Lock page
Upper Octave (either)	Selects the Style Play/Song Play > Mixer/Tuning > Tuning page
Transpose (either)	Selects the Global > Tuning > Transpose Controls page
Slider Mode	Selects the Global > Controllers > Sliders page
Slider	Proportionally changes the volume level of the Sounds/tracks of the same type (all the Upper Sounds, all the Song tracks…)
Style Play mode	
Style Play	Selects the Global > Mode Preferences > Style page
Chord Scan buttons	
Memory	
Variation	Selects the corresponding Variation in the Style Play > Controls > Drum Map page

Shift +	Functions
Ensemble	Selects the Ensemble Type parameter in the Style Play > Keyboard/Ensemble > Ensemble page
Pad (any)	Selects the Pad/Switches > Pad page
Assignable Switch (any)	Selects the Pad/Switches > Switch page
Song Play mode	
Song Play	Selects the Global > Mode Preferences > Song & Seq page
Play/Stop (Player 1 or 2)	Sync Start of either Players
JukeBox	
>>	Play the next Song in the JukeBox list
<<	Play the previous Song in the JukeBox list
Lyrics	
Display	Load a TXT file
Sequencer mode	
Sequencer	Selects the Global > Mode Preferences > Song & Seq page
Microphone	
Mic	Selects the Global > Mic Setup > Setup page
Harmony	Selects the Style Play/Song Play/Sequence > Voice Preset > Harmony page
Double	Selects the Style Play/Song Play/Sequence > Voice Preset > Double page

Long keypress

You can keep a button pressed for about one second to directly jump to an edit page or dialog box.

Long keypress	Functions
Any mode	
Split	Opens the Split Point dialog box. Play a note to set the new Split Point.
Style Play mode	
Style buttons	Opens the Write Current Style Settings window
Style Play and Song Play mode	
Keyboard Set Library buttons	Opens the Write Keyboard Set to Library window
Keyboard Set buttons (under the display)	Opens the Write Keyboard Set to Style window
My Setting	Opens the Write My Setting window
Mic/Voice Preset	Opens the Write Voice Preset window
SongBook	Create a new SongBook Entry and opens the Write Song window (only if pressed outside the SongBook)
Record	Opens the MP3 Record dialog box
Global mode	
Global	Touch Panel Calibration

Special functions

Other available shortcuts are the following ones.

Style Play mode	
Tempo +/– (together)	Original Tempo
Transpose #/b (together)	Set the Master Transpose to 0
Upper Octave +/- (together)	Set the Upper Octave to the original setting

Musical Resources   [2.0]

New Styles

Favorite/Pop			
Kiss Sky Pop	1	0	0
Corazon Pop	1	0	1
Tiger Pop	1	0	2
Mama Say Pop	1	0	3
Sactuary Pop	1	0	4
Coral Keys	1	0	5
Talk Anymore Pop	1	0	6
24000 Magic Pop	1	0	7
Love Inside Pop	1	0	8
B. Jean Pop	1	0	9
Trailer	1	0	10
Through the Pop	1	0	11
Moving Forward	1	0	12
Easy Beat	1	0	13
Stand Up	1	0	14
Pop Promises	1	0	15
Treat & Beat	1	0	16
Feel the Pop	1	0	17
Guitar Pop	1	0	18
Favorite/Ballad			
Paradise Ballad	1	1	0
Sweet Ballad	1	1	1
3/4 Jazz Ballad	1	1	2
Long Life Ballad	1	1	3
Color Ballad	1	1	4
Believe Ballad	1	1	5

True Colors	1	1	6
Analog Feel	1	1	7
Hope Ballad	1	1	8
Favorite/Dance			
Synth Beat	1	2	0
Dance To Trance	1	2	1
EDM Happy Hour	1	2	2
EDM Reggaeton	1	2	3
EDM Remix	1	2	4
NU Disco	1	2	5
Trap Dance 1	1	2	6
Trap Dance 2	1	2	7
Reggaeton DJ	1	2	8
House Class	1	2	9
Deep House	1	2	10
Deep Remix	1	2	11
Trance	1	2	12
Saturday Night	1	2	13
Hey Dance	1	2	14
Slowly L. Dance	1	2	15
Shape Dance	1	2	16
Falling Dance	1	2	17
Revelation Dance	1	2	18
Nuvola	1	2	19
Mind Dance	1	2	20
Rainbow Dance	1	2	21
Techno	1	2	22
HipHop	1	2	23

New Keyboard Sets

User/Piano			
Italian GRAND	17	0	1
Italian Jazz P.	17	0	2
It.Grand Stack 1	17	0	3
It.Grand Stack 2	17	0	4
Grand & Ensemble	17	0	5
Grand & Orch.	17	0	6
It. Grand Atmo	17	0	7
Octave 2 Pianos	17	0	8
User/Strings & Orch.			
Movie Action	17	1	1
Soft Strings	17	1	2
Strings & Vocal	17	1	3
Movie Orchestra	17	1	4
Vocal Brass	17	1	5
Marcato Strings	17	1	6
Flute & Strings	17	1	7
Soprano &Strings	17	1	8
Steel Gtr & Str.	17	1	9
Vocoder 1	17	1	10
Vocoder 2	17	1	11
Vocoder 3	17	1	12
Vocoder 4	17	1	13
User/Wood & Accord.			
Tenor Jazz Sax 1	17	2	1
Tenor Jazz Sax 2	17	2	2
Robin Whistle	17	2	3
Bandoneon+Short	17	2	4
It. Accordion16'	17	2	5
It. Accordion 8'	17	2	6
It. Acc. 16'+8'	17	2	7
It. Acc. 16'+4'	17	2	8
It.Acc.16'+8'+4'	17	2	9
It. Accordion 4'	17	2	10
It. Acc. 8'+4'	17	2	11
It.Acc.& Strings	17	2	12
User/Pipe Organ			
Tutti A	17	3	1
Tutti B	17	3	2
Sesquialtera	17	3	3
Plenum A	17	3	4
Plenum B	17	3	5
Plenum C	17	3	6
Plenum D	17	3	7
Plenum E	17	3	8
Pipe Cornet	17	3	9
Viola+Cornet	17	3	10
Principal 8'	17	3	11
Pipe Flute 8'	17	3	12
Gamba 8'	17	3	13
Trumpet Pipes	17	3	14
Pipe Octave	17	3	15
Pipe Super Oct.	17	3	16
Pipe Fifth	17	3	17
Principal+Flute	17	3	18
Nazard A	17	3	19
Nazard B	17	3	20
Flute8'+Flute4'	17	3	21
Flute8'+Flute2'	17	3	22
Gamba+Flute	17	3	23
Celeste	17	3	24
Princ 1 - 2 man.	17	3	25
Princ 2 - 2 man.	17	3	26
Princ 3 - 2 man.	17	3	27
Princ 4 - 2 man.	17	3	28
Flute 1 - 2 man.	17	3	29
Flute 2 - 2 man.	17	3	30
Nazard - 2 man.	17	3	31
Terziana - 2 man.	17	3	32

Cornet - 2 man.	17	3	33	Groove SynthGtr.	17	4	19
Larigot - 2 man.	17	3	34	Dubstep Synth	17	4	20
Trumpet - 2 man.	17	3	35	Caos Synth	17	4	21
Plenum1 - 2 man.	17	3	36	Robert Bass	17	4	22
Plenum2 - 2 man.	17	3	37	Fifth Bass	17	4	23
Tutti - 2 man.	17	3	38	Widebass	17	4	24
User/Synth				Triangle Solo	17	4	25
Poly6 + JP8	17	4	1	Square Solo	17	4	26
JP8	17	4	2	Saw Solo	17	4	27
80's Mellow	17	4	3	Square & Pulse	17	4	28
80's Super Pad	17	4	4	16-8-4 & Sub32	17	4	29
Analog Synth	17	4	5	**User/Fantasy**			
Synth Yes	17	4	6	Mixed Echoes	17	5	1
EDM Synth	17	4	7	Running bpm	17	5	2
Dance Basic	17	4	8	Fisarmony	17	5	3
Thin PulSeq DNC	17	4	9	Pacific Sea	17	5	4
Noise Lead DNC	17	4	10	Nighthawk	17	5	5
Synth Whooo	17	4	11	Wave Echoes	17	5	6
Mellow Perc. Pad	17	4	12	Hans Sound	17	5	7
Dance Syn Perc	17	4	13	Landscape	17	5	8
Lfo Sound bpm	17	4	14	Waterland	17	5	9
Spire Synth	17	4	15	Meditation Stack	17	5	10
Leadscape	17	4	16	Layers Enjoy	17	5	11
Fing.GlideSquare	17	4	17	Ipnotic bpm	17	5	12
Big Side Attack	17	4	18				

New Sounds

New Sounds v2			
Italian Piano	121	16	0
It. Piano	121	17	0
Italian Jazz P.	121	18	0
It.Grand & Stack	121	13	2
Marimba Syn Seq	121	8	12
Tutti A	121	11	19
Tutti B	121	12	19
Sesquialtera	121	13	19
Plenum A	121	14	19
Plenum B	121	15	19
Plenum C	121	16	19
Plenum D	121	17	19
Plenum E	121	18	19
Pipe Cornet	121	19	19
Viola+Cornet	121	20	19
Principal 8'	121	21	19
Pipe Flute 8'	121	22	19
Gamba 8'	121	23	19
Trumpet Pipes	121	24	19
Pipe Octave	121	25	19
Pipe Super Oct.	121	26	19
Pipe Fifth	121	27	19
Principal+Flute	121	28	19
Nazard A	121	29	19
Nazard B	121	30	19
Flute8'+Flute4'	121	31	19
Flute8'+Flute2'	121	32	19
Gamba+Flute	121	33	19
Celeste	121	34	19
Terziana	121	35	19
Larigot	121	36	19
It. Accordion16'	121	31	21
It. Accordion 8'	121	32	21

It. Accordion 4'	121	33	21
It.Acc. 16'+Bass	121	34	21
Fisarmony	121	35	21
Bandoneon DNC	121	11	23
Bandoneon Sync	121	12	23
Bandoneon Short	121	13	23
CA Steel Gtr DNC	121	51	25
Groove Gtr Wah	121	30	28
Wide Bass	121	21	38
SimplePulse Bass	121	19	39
Fifth Bass	121	20	39
Robert Bass	121	21	39
Movie Action	121	29	48
Strings & Vocal	121	30	48
Soft Strings	121	20	49
Horns Swell3 DNC	121	45	61
JP8	121	6	62
Vocal Brass	121	6	63
Tenor Sax 2 DN1	121	19	66
Tenor Sax 2 DN2	121	20	66
Soft Tenor DN1	121	21	66
Soft Tenor DN2	121	22	66
Whistle Robin	121	7	78
Fing.GlideSquare	121	16	80
Square Solo	121	17	80
Square & Pulse	121	18	80
Thin PulSeq DNC	121	21	81
Spire Synth	121	22	81
Leadspace	121	23	81
EDM Synth	121	24	81
Dance Basic	121	25	81
Triangle Solo	121	26	81
Saw Solo	121	27	81
16-8-4 & Sub32	121	28	81
Landscape	121	1	82

Dubstep Synth	121	14	84
Caos Synth	121	15	84
Noised Lead DNC	121	20	87
Pacific Sea	121	6	88
Nighthawk	121	7	88
Mellow Perc. Pad	121	8	88
Waterland	121	9	88
Meditation Stack	121	10	88
Big Side Attack	121	18	89
80's Mellow	121	19	89
80's Super Pad	121	20	89
Synth Whooo	121	16	90
Analog Synth	121	17	90
Synth Yes	121	18	90
Poly6 + JP8	121	19	90
Mixed Echoes	121	16	91
Running	121	12	96
Hans Sound	121	13	96
Layers Enjoy	121	11	99
Ipnotic Stack	121	12	99
Lfo Sound bpm	121	5	101
Wave Echoes	121	6	102
Metallic Syn Seq	121	2	114
Dance Syn Perc	121	3	114
Wood&Metal Seq	121	4	114
Shape Sound	121	5	114

New Drum Kits

New Drum Kits v2			
Trance Kit	120	0	63
Dance Kit Remix	120	0	29
Pop Kit 2 Amb	120	0	70
Pop Kit 3 Amb	120	0	71
Jazz Kit 2 Amb	120	0	83
Brush Kit 1 Amb	120	0	84

New Multisamples

1427	IT G.Piano V1-L
1428	IT G.Piano V1-R
1429	IT G.Piano V2-L
1430	IT G.Piano V2-R
1431	IT G.Piano V3-L
1432	IT G.Piano V3-R
1433	IT G.Piano V4-L
1434	IT G.Piano V4-R
1435	IT G.Piano V5-L
1436	IT G.Piano V5-R
1437	IT G.Piano V6-L
1438	IT G.Piano V6-R
1439	IT G.Piano Res V1-L
1440	IT G.Piano Res V1-R
1441	IT G.Piano Res V2-L
1442	IT G.Piano Res V2-R
1443	IT G.Piano Res V3-L
1444	IT G.Piano Res V3 -R
1445	IT G.Piano Res V4-L
1446	IT G.Piano Res V4-R
1447	IT G.Piano Res V5-L
1448	IT G.Piano Res V5-R
1449	IT G.Piano Res V6-L
1450	IT G.Piano Res V6-R
1451	Posaune 32 OT-L
1452	Posaune 32 OT-R
1453	Principal OT-L
1454	Principal OT-R

1455	Cornet OT-L
1456	Cornet OT-R
1457	Coppel Flute OT-L
1458	Coppel Flute OT-R
1459	Harmonic Trumpet OT-L
1460	Harmonic Trumpet OT-R
1461	Viola da Gamba OT-L
1462	Viola da Gamba OT-R
1463	Mixture A OT-L
1464	Mixture A OT-R
1465	Mixture B OT-L
1466	Mixture B OT-R
1467	Pieno OT-L
1468	Pieno OT-R
1469	Recorder Vibrato
1470	Whistle Robin
1471	Tenor Sax J Soft
1472	Tenor Sax J mp
1473	Tenor Sax J mf
1474	Tenor Sax J f
1475	Tenor Sax J Growl
1476	Tenor Sax J R-Up
1477	Tenor Sax J R-Dw
1478	Tenor Sax J Falls
1479	IT Accordion Bass V1 OT
1480	IT Accordion Bass V2 OT
1481	IT Accordion Bass V3 OT
1482	IT Accordion Bass Key On
1483	IT Accordion 16 V1 OT

1484	IT Accordion 16 V2 OT
1485	IT Accordion 16 V3 OT
1486	IT Accordion 16 V4 OT
1487	IT Accordion 8 V1 OT
1488	IT Accordion 8 V2 OT
1489	IT Accordion 8 V3 OT
1490	IT Accordion 8 V4 OT
1491	IT Accordion 4 V1 OT
1492	IT Accordion 4 V2 OT
1493	IT Accordion 4 V3 OT
1494	IT Accordion 4 V4 OT
1495	IT Accordion Noise Floor
1496	Bandoneon
1497	Bandoneon Stop
1498	Bandoneon Short
1499	Bandoneon Valve
1500	Bandoneon RX
1501	Ac. Guitar T410
1502	Ac. Guitar T410 Muted
1503	Ac. Guitar T410 Harm
1504	Ac. Guitar T410 RX
1505	J8 Analog Brass L
1506	J8 Analog Brass R
1507	Dumpstep Wha
1508	Dumpstep Lp
1509	Dumpstep One Shot

* IT Accordion courtesy by PSound.

IMPROVEMENTS AND BUG FIXES

Bug fixes in OS 2.0.1

Where	Bug fixes
Split	With the Keyboard Mode (Split/ Full) lock selected, when exiting Style Record mode the keyboard mode was blocked to Full.
SongBook	There were some issues with the Write command, when the filter was enabled in the Book page.
Sampling	The page menu could trigger the wrong commands.
CDG Lyrics	With CDG Lyrics associated to MP3 Songs, selecting a second MP3 Song wouldn't also select the corresponding CDG file. Lyrics were still those of the previous Song.

Improvements and bug fixes in OS 2.0

Several minor bug fixes and improvements.

Bug fixes in OS 1.2.4

Where	Bug fixes
Style Play	The Damper&Latch status (Global > Mode Preferences > Style page) was not always saved.
Style Record	When entering Style Record mode a second time on a track set to External mode (Style Play > Track Controls > Mode page), notes were not recorded.
Sequencer	Repeated transposing of all tracks in Song Edit (Sequencer > Song Edit > Transpose page) could crash the system.
Musical Resources	Factory Samples #379 and #380 contained a looping error.

Improvements and bug fixes in OS 1.2.2, 1.2.3

Maintenance versions only.

Bug fixes in OS 1.2.1

Where	Bug fixes
Keyboard Sounds	When the Upper Volume Link parameter was selected, the proportional volume change of the Upper Sounds didn't always behave correctly.
Style Play	Fill Mode settings where not saved in the Style Settings and SongBook Entries.
	When the Fill Mode Lock was selected, depending on the status of other Locks the system could freeze when choosing a Style.
Song Play	After having selected a Song by entering its ID number, the Select button in the Song Select window could no longer be accessed, and no Song could be selected.
SongBook	Depending on the selected Columns preferences, some information where not shown correctly, or some parameters could blink.
Sampling	When loading samples that had been compressed in Pa3X, then decompressed in Pa4X v1.1.3, the samples could play wrongly under Pa4X v1.2.0 if loaded under some circumstances (loading separate Sounds, or only the SOUND folder). Please note that samples saved again with Pa4X v1.1.3 or v2.0 were not damaged, and could play correctly after recompressing them; no data could be lost.
Effects for Sounds	When choosing a Style with an Acc track type set to Drum, the Send 2 FX level could appear as set to zero, but a Delay effect could still be heard.
MIDI	After booting, the Clock Send parameter could appear selected, but no clock message was actually sent.

Bug fixes in OS 1.2.0

Where	Bug fixes
Style Play	When the Memory Mode parameter (Global > Mode Preferences > Style page) was set to Chord + Lower or Fixed Arrangement + Lower, and you selected the Intro 1 or Ending 1, the Lower Sound continued to play.
Keyboard Set (from SongBook or Style)	The name of Keyboard Sets (from the SongBook or Style), if written with a non-Latin alphabet, could be shown with the wrong characters.
Style Record	MIDI events were not recorded in Style Record Mode.
Song Play	If Fast Play was switched on, Player 2 could select the wrong Program Change on track #10.
Sound	After Touch did not work in Sound mode.
Sampling	Some User Samples could be too loud.
Effects for Sounds	The Phase parameter was missing from the St. MultiModeFilter effect.
MIDI	The Clock Send status was not automatically saved to memory.

Bug fixes in OS 1.1.3

Where	Bug fixes
Boot	Some problems when booting have been solved.

Bug fixes in OS 1.1.2

Where	Bug fixes
Boot	When routing the MP3 Player to the Out 1+2 audio outputs, the instrument could not boot.

Improvements in OS 1.1.1

Where	Improvements
FX default parameters	Song Play and Sequencer mode FX default settings have been revised. To load the new parameters, be sure to do a Factory Restore (Global only) after loading the new OS.
Internal HD	To avoid delays in some operations, the internal HD never goes to sleep while the instrument is functioning.

Bug fixes in OS 1.1.1

Where	Bug fixes
Boot	In some cases, due to some audio parameters not completing initialization, the instrument could not boot.
MP3 Record	Recording could be enabled before the recorder was actually ready. Now, you can only start recording when all preliminary operations have been completed.

Improvements in OS 1.1.0

Where	Improvements
Various	General improvements in usability and performance.

Bug fixes in OS 1.1.0

Where	Bug fixes
Lists	When scrolling a list, the list content was only updated when releasing the finger from the scroll control. Now scrolling is continuous.
Styles, Keyboard Sets	When writing a Keyboard Set on a Style containing a Chord Sequence, this latter was deleted.
SongBook	In some cases, Pa4X could freeze when creating a new SongBook Entry.
Sampling	Exporting a multisample could result in a damaged KMP file.
Audio Out	Audio output routing was not always correct.
USB	If switching the instrument off before completing disconnection from a PC's USB port, the internal disk (KORG DISK) could no longer be recognized when switching the instrument on again. While this bug has been fixed, we strongly suggest you disconnect Pa4X from a PC by carefully following the procedure described in the User Manual.

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