



Arranger Workstations



PSR-S670

PSR-S770

PSR-S970

Tyros 5

LET'S GET THE PA

PSR-S series and Tyros5 bring the experience of performing in a band to the solo keyboard player. Whatever style you want to play, the combination of superb sound, exciting features and live control gives you total freedom to create music as you want it to be.



PARTY STARTED!



A new generation of digital keyboard

With its stunning design featuring new Voices, Styles and DJ functions, the PSR-S670 is a performance keyboard like no other.



PSR-S670

61
Keys

930
Voices

230
Styles

USB
Storage

AUX IN

PC
Connectivity

AUDIO
PLAY/REC

SONG
PLAY/REC

Expansion
Packs

Features

Outstanding sound quality for virtually any type of music

Enjoy authentic sounds at your fingertips; play pianos, saxophones and other acoustic instruments with breath-taking reality or explore the powerful synthesizer sounds with incredible sonic capability for electronic music of all types.



DJ Styles

DJ Styles are a new live performance concept featuring a collection of programmed chord progressions. This leaves both hands free to play melody lines, use the Live Controllers or trigger additional phrases and audio samples using the Multi Pads. With the new arpeggio function, PSR-S will play a rhythmic musical phrase simply by playing a group of notes.



Live Controllers

Two Live Controllers give you dynamic real-time control and are assignable to any combination of parameters including filter, arpeggio, track muting and more. You have total control over the performance for maximum creativity!



Let your music take you to new places

Voice & Style Expansion Packs enable you to customize the PSR-S series and Tyros5 with a wide range of additional content from all over the world. When loaded into the keyboard, you can instantly access authentic new sounds, rhythms and backing in the musical Style of your choice.



Building on a legacy of live performance

The PSR-S770 is equipped with a host of powerful performance features, flexible audio playback functions and a Mic/Guitar input, making it ideal for live use on stage, in the studio or at home.



PSR-S770

- 61 Keys
- 1346 Voices
- 360 Styles
- USB Storage
- AUX IN
- PC Connectivity
- AUDIO PLAY/REC
- SONG PLAY/REC
- Expansion Packs
- Mic/Guitar input
- Color Display

Features

Get real with your sound

Experience the realistic Super Articulation Voices, Organ flutes and many other sounds from the legendary Tyros series. The superb sonic quality, meticulously sampled Voices and a comprehensive suite of effects will take your performances to a new level of authenticity that is sure to satisfy even the most demanding audience.



Large color LCD display

For simple, intuitive control of the powerful features and capabilities of this advanced keyboard, the PSR-S770 comes equipped with a large widescreen color LCD. This allows you to monitor the status of your instrument at a glance and gives you easy access to valuable performance functions.



USB audio playback with flexible functions

Whether you're enhancing a live performance with backing tracks from your music library or just livening up a party with some Karaoke, the time stretch, pitch shift and vocal cancel functions of the PSR-S770 USB audio player add depth and versatility to the instrument.



Mic/Guitar input for singers and guitarists

The PSR-S770 comes equipped with a Mic/Guitar input that allows you to add vocals or guitar to your live performance with ease. Simply plug in a microphone and you can effortlessly assign any of the PSR's versatile effects to the vocals. Alternatively, connect a guitar and adjust the parameters to emulate the sound of your favorite artists-or create a sound that's all your own!



The Ultimate PSR

The PSR-S970 is the flagship model of the S-series. It combines all the functionality of the other models in the range together with powerful performance features. These include versatile effects inherited from the legendary Tyros5, external display capability and a programmable Vocal Harmony function.



PSR-S970

61 Keys	1510 Voices	450 Styles	USB Storage	AUX IN	PC Connectivity	AUDIO PLAY/REC	SONG PLAY/REC	Expansion Packs
Mic/Guitar input	Color Display	Vocal Harmony 2	Synth Vocoder	Audio Style				

Features

Get real with your sound

Experience an enhanced range of realistic Super Articulation Voices, Organ flutes and many other sounds from the legendary Tyros series. The superb sonic quality, meticulously sampled Voices and a comprehensive suite of effects will take your performances to a new level of authenticity that is sure to satisfy even the most demanding audience.



Play with the atmosphere of real sound

Bring your performances to life with Audio Styles featuring high quality percussion ensembles and drums, all recorded by world-class musicians in studios around the globe. Audio Styles add natural feel and warmth to any rhythm track for greater expressive potential than ever before.



Real effects

The PSR-S970 features the Real Distortion and Real Reverb effects from the renowned Tyros5, delivering authentic, natural sound unparalleled in its class. Effortlessly add and edit effect parameters via an attractive, intuitive interface that gives you the feeling of controlling conventional effects and amplifiers in real time.



Powerful Synth Vocoder and Vocal Harmony function

The PSR-S970 is equipped with a new Synth Vocoder function which allows you to use your voice and synthesize with the PSR-S970 sound. The powerful Vocal Harmony 2 system allows you to control the pitch, level and number of harmonies added, ensuring that your vocals are always the star of the show.



VCM Technology

The PSR-S970 has Yamaha's Virtual Circuitry Modeling (VCM) technology that simulates effects at circuit level for incredible realism.



Common Features for PSR-S series

PSR-S series Standard Features

Powerful features for live performance

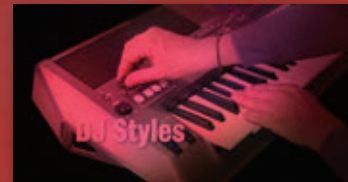
The PSR-S series features two assignable Live controllers, a pitch bend wheel, a modulation wheel and two assignable foot pedal inputs, ensuring that you have total control over Voices, Styles, effects and other functions during live performance.



images from PSR-S670

DJ Styles

DJ Styles are a new live performance concept, featuring a collection of chord progressions that eliminate the need for continuous chord changes with the left hand. Now you've got both hands free to play melody lines, use the Live Controllers, or even trigger additional external audio with the Multi Pads to add a unique flair to your performance.



images from PSR-S670

Voice and Style Expansion Packs and Yamaha Expansion Manager

Voice & Style Expansion Packs enable you to customize the PSR-S series with a wide range of additional content from all over the world. When loaded into the keyboard, you can instantly access authentic new sounds, rhythms and backing in the musical Style of your choice. For even more versatility, use Yamaha Expansion Manager version 2.3 (or later) to link to your computer.* Yamaha Expansion Manager allows you to create individual expansion data sets containing content from various packs and utilize the memory capacity on the instrument. You can even create your own Voices based on your samples. * (available August 2015)



Drum Setup function

You can edit your drum kit to suit your performance. This function, part of the "Style Creator", allows the user to change drum parameters including pan, volume and filter. In addition, you can easily change the selected drum sound to a different one.



images from PSR-S970

More New features

- The new Arpeggio function offers instant access to a library of arpeggiated synth lines and authentic rhythmic phrases.
- A Master Compressor enables you to change the overall characteristics of the sound.



images from PSR-S970





Voice & Style Expansion

Our world is getting smaller all the time. However, for PSR-S series and Tyros5, the musical world is getting larger. Thanks to Yamaha's Voice & Style Expansion Packs, you can take advantage of a wide and ever-increasing selection of regional, ethnic and traditional Voices and Styles. Load them into the instrument and instantly play authentic sounds, rhythm and backing in the musical Style of your choice!

(Voice & Style Expansion Packs for previous PSR-S series cannot be used with PSR-S970/770/670)



The Euro Dance Pack takes you straight to the Dance charts. Searching for fresh grooves? Here they are. From very latest DubStep or Electro beats to House and HipHop grooves, relaxed Trance and speedy Techno music and Chart hits—you will find the widest range of fascinating dance music styles that you have ever heard.



A huge variation of Styles and Voices from Romania, Slovakia and Hungary, perfect to play traditional and modern music from these countries. Explore the colorful sounds of Cymbalon-driven Romanian Folk and the novelty of Hungarian Csardas, Gypsy Swing and Slovak Rhythms!



A huge variety of Voices and Styles to play and enjoy Church and Christmas music famous all over the world! Included in this pack are classical instruments like church organ, strings, brass, flutes and even choirs. Additionally, play more modern sounds and grooves for gospel and christmas pop music.



The Eastern Europe Pack highlights the vivid and lively music styles from Poland, Russia, Czech Republic, Slovakia Croatia and Hungary down to the Balkan countries like Romania, Bulgaria, Serbia and Bosnia-Herzegowina. Typical music images are Russian Balalaika music, Gypsy music, Balkan Brass Band, traditional music from Czech and Slovakia and also Disco Polo from Poland.



The Celtic / North European Pack puts a strong focus on Celtic and Irish Music and features typical instruments of a Folk band such as Accordion (box), Concertina, Tin Whistle, Low Whistle, Irish Flute, Bagpipes, Fiddle, Bodhran and Cajon. The Style selection offers modern Irish Folk rhythms as well as popular rhythms from UK, Scandinavia, Poland, Czech Republic and Germany.



The Mexican Voice and Style Expansion pack expands your keyboard with an incredible selection of Voices and Styles. Seven new Voices are authentic, high-quality recordings of professional Banda musicians playing traditional instruments like tuba, charcheta, tambora and even a special "Gritos" kit containing over 60 unique vocal expressions. New Styles cover various genres of Banda music.



An exotic mix of old and new Indian instrumentation and style. This entertainer pack captures the sound of old and new India. Experience a dynamic playing experience with inspiring sounds and styles. Includes instruments like Sitar, Harmonium, Tabla, Veena, Santoor, Tanpura, Sarod, Shehnai and styles from genres of Soft Ghazals, Film Songs, POP, Soulful Ballads and more.



The perfect solution for entertainers, duos or bands, providing an array of sounds synonymous with the typical musical genres of Germany and neighboring Alpine nations. From Jodeling vocals of the Alps to the party music of Carnival, Oktoberfest and Apri-Ski, the Entertainer Pack provides the perfect tools for your performance!



The Oriental / Greece & Turkey Pack offers essential instrument voices and authentic rhythms for this region. Bouzouki, solo instruments like Ney, Mey, Kaval, Zurna, Balaban, Klarnet, stringed Baglama, Kanun, Ud, Yayli string sections and Turkish percussion are included. Turkish styles from traditional to modern and versatile Greek rhythms support the oriental groove.



The Western Europe Pack highlights on Italian Ballroom music, Spanish Flamenco and Pop, Portuguese Fado, French Musette, English Brass Bands, Irish traditional music, Folk music from the Alps as well as Oberkrain and Scandinavian + German Schlager.



Authentic church organ with small and large voicing covering many different classic organ sounds. This pack is great for both serious church and worship musicians as well as home players who wish to perform inspiring organ music repertoire on their Yamaha keyboard.



The Latin / South Europe Pack was inspired by most popular music genres from Spain, France and Italy. Authentic voices for Flamenco music include Claps, Steps and Cajon, while a Musette accordion is perfect for traditional French music. A breathtakingly realistic Alto Sax, special drums and guitar make it easy to recreate beloved Italian ballroom songs.



The Balkan / East Europe Pack highlights the vivid and lively music styles of the Balkan countries and Greece. Tambura(string instrument from Croatia) and authentic Frula sheppards flute are included, in addition to accordion and Bouzouki. A Balkan drumkit completes the set and allow for typical Serbian styles and rhythms from Bulgaria, Romania, Hungary, Croatia, Bosnia and Greece.



The Chinese pack offers a great collection of traditional instruments voices such as Er Hu, Pi Pa, Gu Zheng Di Zi, Suo Na, etc. The style selection provides contemporary Chinese pop styles like China Dance, China Pop Ballad, China Rock, Kung Fu and also includes the traditional Chinese standard like Xi Qing Luo Gu, Jing Ju Jie Zou and Xin Jiang Min Ge. This comprehensive pack provides the tools to enjoy the most authentic music from China.

You can find more expansion packs at yamahamusicsoft.com



Where can I get the bonus Styles and Voices?



Simply go to the Yamaha website below, find the instrument you have and download your favorite pack. Visit <http://yamahamusicsoft.com/category/VSE/catalog> for more detail. New Expansion Packs are added regularly, so please check back frequently!

Voice & Style Expansion Pack Compatible Models



PSR-S670



PSR-S770



PSR-S970



TYROS5

Yamaha Expansion Manager



Using your computer, Yamaha Expansion Manager version 2.3 (or later) expands the versatility of the instrument and is compatible with Tyros5 and PSR-S970/S770/S670.

Data Management

Have you ever wanted to install more than one Expansion Pack into your instrument at the same time? With Yamaha Expansion Manager, you can manage Voices, Styles, Registrations and other contents, select your favorites and create a personal pack, efficiently using the PSR-S series on-board memory or the Tyros5 Flash Memory Expansion Module (FL512M/FL1024M).

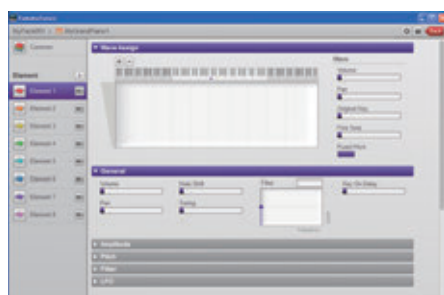
Create new sounds!

In addition, you can create your own original Voices from your recorded sample data.



Editing Tyros onboard preset Voices

With Expansion Manager, you can edit Tyros onboard preset Voices and create Custom Voices. Tyros users can make Custom Voices using onboard preset Voices and sample data.



Arrange Expansion packs for your instrument

Firstly, import your favorite Pack Project files (.ppf files) and select your Voice, Style and other data. Then combine data from various packs and create a personal Pack Installation file (.ppi file) Install the Pack Installation file into your instrument using a USB flash memory device.

Voice Creation

Import your own recorded sample data (.wav, .aif, .aiff) or Sound-Fonts (.sf2). Build your own Voices by controlling various detailed parameters of the sound and create your unique Voice Pack!



*You cannot combine onboard + external Voice elements, nor edit the onboard Voices in PSR-S series.

*Specifications and appearance are subject to change without notice



Tyros 5

The Power of Reality

When it comes to playing live, one thing holds true for any musician—your sound is defined by the quality of the musicians you play with.

In Tyros5, Yamaha has created the ultimate performance keyboard, with outstanding sounds, effects and accompaniment so real it's like being backed by some of the world's finest players. Experience authenticity like never before and give your playing the power of reality with real backing, real sounds... and real performance.

The Freedom to Choose

With their superb sound and state-of-the-art performance features, Tyros workstation keyboards have always offered players an outstanding level of creative freedom. Now you can take advantage of freedom of another kind; the freedom of choice. A new 76-note keyboard extends your expressive range and allows you to make the most of the outstanding performance features in Tyros5. Alternatively, when portability is a priority or space is at a premium, the 61-note model offers all the performance of its bigger brother.



Tyros5-76



Tyros5-61

Performance you can believe in

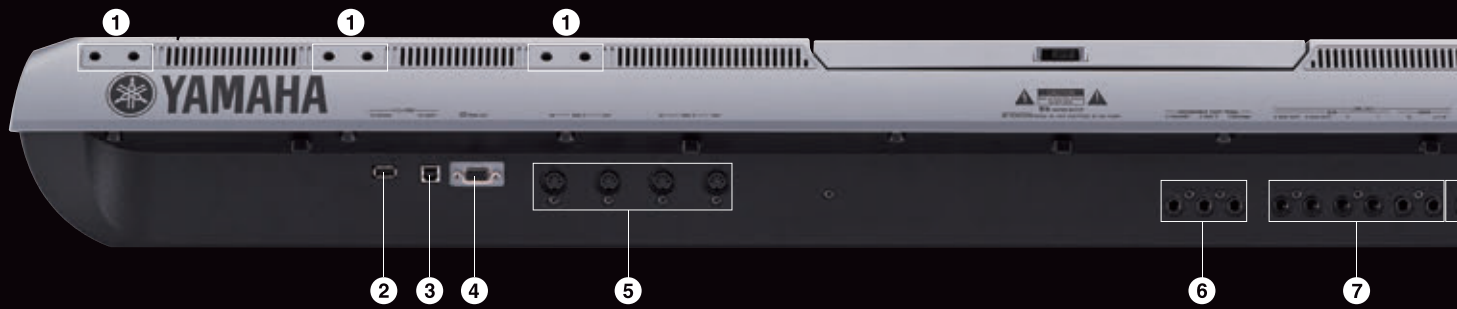
The Tyros5 combines a familiar interface and amazing sonic fidelity with outstanding performance features that make it the best Tyros keyboard yet. Enhanced Super Articulation 2 Voices offer superbly authentic reproductions of the performance characteristics of a range of instruments and come to the fore in a new Ensemble Voice feature that allows you to enjoy performing with the most realistic ensemble sound ever achieved in a keyboard instrument. Audio Styles gives you access to a library of accompaniments from some of the hottest drummers and percussionists around, providing the solid foundation you need to inspire your finest performances. Organ enthusiasts are sure to enjoy Organ World's outstanding renditions of five classic organs, each with its own unique interface that gives nuanced control of organ sound. For live performers, Vocal Harmony 2 delivers comprehensive, flexible control of the harmonies applied to your voice, while the new Cross Fader lets you adjust the volume balance between MIDI song and audio file playback.



The real deal

Featuring Real Distortion effects and the same studio-quality Virtual Circuitry Modeling (VCM) found on some of Yamaha's top-of-the-line mixing consoles, the Tyros5 gives you the authentic sound and functionality of classic effects units. Yamaha's acclaimed VCM technology models their circuitry down to the last transistor in order to achieve stunningly accurate reproductions of their unique sounds. More than just presets, these effects are fully adjustable and can be assigned to each Voice individually, giving you absolute control over the most subtle nuances of your performance.





Tyros5



Voice & Style Expansion

- 76 Keys
- 61 Keys
- 1796 Voices
- 539 Styles
- USB Storage
- AUX IN
- PC Connectivity
- AUDIO PLAY/REC
- SONG PLAY/REC
- Expansion Packs
- Color Display
- Vocal Harmony 2
- Audio Style

Tyros5 Optional Accessories

As your musical needs grow, so can the Tyros5. If you want a full, self-contained keyboard system, add the optional TRS-MS05 speakers. Another useful feature is the ability to use optional flash memory expansion modules to store your own waveforms and samples onto non-volatile memory. This retains your waveform and sample data even when the instrument is turned off.



Optional Speaker: TRS-MS05



Keyboard Stand: L-7S

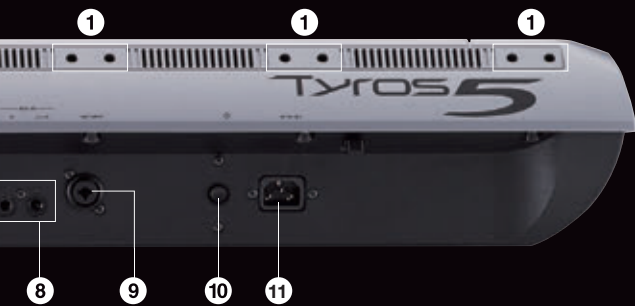


Flash Memory Expansion Module:
FL512M (512 MB) /
FL1024M (1GB <1,024 MB>)



Top Panel

- 1 MIC buttons
- 2 MIC GAIN knob
- 3 MASTER VOLUME dial
- 4 FADE IN/OUT button
- 5 UPPER OCTAVE buttons
- 6 PITCH BEND wheel
- 7 MODULATION wheel
- 8 ART. 1/ART. 2 buttons
- 9 PHONES jack
- 10 SONG buttons
- 11 CROSS FADER
- 12 AUDIO RECORDER/PLAYER buttons
- 13 STYLE CONTROL buttons
- 14 TRANSPOSE buttons
- 15 MIXING CONSOLE button
- 16 STYLE CONTROL buttons
- 17 TEMPO buttons
- 18 MULTI PAD CONTROL buttons
- 19 CHANNEL ON/OFF button
- 20 BALANCE button
- 21 LCD and related controls
- 22 MENU buttons
- 23 MUSIC FINDER button
- 24 DEMO button
- 25 VOICE EFFECT buttons
- 26 VOICE buttons
- 27 REGISTRATION MEMORY buttons
- 28 ONE TOUCH SETTING buttons
- 29 PART SELECT buttons
- 30 PART ON/OFF buttons
- 31 USB TO DEVICE terminal



Rear Panel

- 1 Slots for music rest/optional speaker brackets
- 2 USB TO DEVICE terminal
- 3 USB TO HOST terminal
- 4 RGB OUT terminal
- 5 MIDI terminals
- 6 ASSIGNABLE FOOT PEDAL jacks
- 7 LINE OUT jacks
- 8 AUX IN jacks
- 9 MIC INPUT combo jack
- 10 Power on/off switch (⏻)
- 11 AC IN jack



Expand Your Musical Realm with Premium & Expansion Packs

Premium Packs provide a full upgrade for your Tyros5 by adding new Premium Voices, Premium Styles, One Touch Settings, Multi-Pads, registrations and demonstration songs. Each Premium Voice gives you a fantastic new instrument sound that makes for a valuable addition to your Tyros5's selection of built-in factory Voices. Visit us at www.yamahamusicsoft.com and expand your creativity!



Audio Styles

Adding forty new percussion-based Styles to the Tyros5's impressive backing and accompaniment capabilities, Audio Styles give a natural feel, ambience and warmth to drum and percussion parts, offering greater expressive potential. Audio Styles also benefit from Yamaha's Time Stretch Technology, which allows the audio to follow your tempo changes without changing pitch, so everything stays in perfect sync.



Ensemble Voice

Enjoy performing with the Voices of four different instruments simultaneously, each sounding the most appropriate notes in the harmonies you play and adding slightly different pitches and timing in order to avoid an unnatural, uniform sound. Ensemble Voice is enhanced by an improved version of Yamaha's Super Articulation 2 technology, offering even more realistic reproductions of the characteristics of instruments in the ensemble.

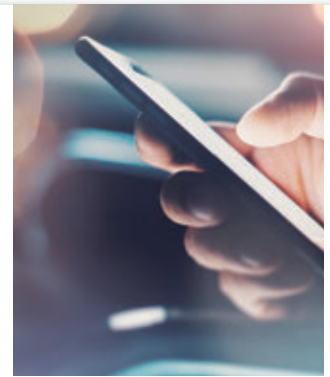


Organ World

The Tyros5 features Vintage, Home, Euro, Concert and Theatre organ Voices, all superbly reproduced with stunning samples that allow the Tyros to shine in any situation that an organist might encounter. With features such as a comprehensive set of realistic organ-style controls, adjustable effects and intuitive operation that allows you to alter the sound in real time while you play, Organ World is sure to meet the needs of the most demanding performer.

Ingenious apps and vast music resources to supercharge your keyboard experience

You're going to love practising and performing even more when you get your hands on the cool interactive tools and resources that Yamaha has waiting for you. Grab applications such as NoteStar and Chord Tracker; your iPhone/iPod touch/iPad will have you mastering the music faster than you can imagine, while our song database supplies the cream of classic and contemporary tunes.



Featured Apps



NoteStar (for iPad)

Keyboard players- experience playing and singing your favorite songs with a real band. NoteStar is Yamaha's digital sheet music application for the iPad that features hands-free, smooth-flowing, easy-to-read digital sheet music accompanied by realistic audio backing tracks with vocals. The app has unique mixing tools that allow you to listen to and play along with the band, or isolate the keyboard, vocal and independent left and right hand keyboard parts for reference. Adjust the tempo and transpose any song to make learning easier and enjoy a refreshing new musical experience!



Chord Tracker (for iPhone/iPod touch/iPad)

Have you ever tried to figure out what the chords are to your favorite songs? Yamaha's new Chord Tracker app does the hard work for you and much more! The Yamaha Chord Tracker app for iPhone/iPod touch/iPad helps you practise and perform songs by analyzing an audio song stored in your iOS device and then displays the chord symbols for you.



Yamaha MusicSoft

Thanks to Yamaha's new Voice & Style Expansion Packs, you can take advantage of a wide selection of regional, ethnic and traditional Voices and Styles. Load them to your keyboard and instantly play authentic sounds, rhythm and backing in the musical style of your choice!

<http://yamahamusicsoft.com>

* some applications are only available in certain regions.
* Specifications may be changed without notice.



Key Features List

- | | | | | | |
|--|-------------------------|--|--|-------------------------|--|
| | Number of Keys | Indicates how many keys the keyboard has. | | SONG PLAY / REC | The model plays back preset songs and commercially available MIDI files and allows you to record and save your own performances to the internal drive or USB flash memory as MIDI files. |
| | Number of Voices | Shows the number of instrument Voices. | | Expansion Packs | Indicates that you can add packs of additional Voices and Styles of music. |
| | Number of Styles | Shows the number of accompaniment Styles. | | Mic/Guitar input | Indicates that the model has a Microphone/Guitar input for direct connection to your instrument. |
| | USB Storage | Indicates that the model has a "USB TO DEVICE" terminal, allowing you to save your data using USB media. | | Color Display | Indicates that the model has color display. |
| | AUX IN | Indicates that the model has audio input so that you can connect your music player and play along. | | Vocal Harmony 2 | Indicates that the model has the Vocal Harmony 2 function. |
| | PC Connectivity | Indicates that the model has a "USB TO HOST" terminal, allowing you to transfer data to and from your PC. | | Synth Vocoder | Indicates that the model has the Synth Vocoder function. |
| | AUDIO PLAY / REC | The USB Audio function allows you to play back WAV files (and mp3 on PSR-S970/770 and Tyros5) from a USB flash memory device and save your songs in WAV format for transfer to a computer or audio player. | | Audio Style | Indicates that the model has Audio styles. |

Specifications

Models		PSR-S670	PSR-S770	PSR-S970	Tyros5-76	Tyros5-61	
Size and Weight	Dimensions[W x D x H]	1,004 x 410 x 134mm	1,002 x 437 x 148mm	1,002 x 437 x 148mm	1,347 x 450 x 142mm	1,140 x 450 x 142mm	
	Weight	8.1 kg	11.1 kg	11.6 kg	16.0 kg	14.0 kg	
Color/Finish	Body	Metallic Dark Gray	Metallic Dark Gray	Metallic Dark Gray	Silver	Silver	
	Color						
Interface	Keyboard	Number of Keys	61	61	61	61	
		Type	Organ	Organ	Organ	Organ (FSX) with Initial Touch/Aftertouch	
	Controllers	Touch Response	Hard1, Hard2, Medium, Soft1, Soft2	Hard1, Hard2, Medium Soft1, Soft2	Hard1, Hard2, Medium, Soft1, Soft2	Hard1, Hard2, Medium, Soft1, Soft2	
		Pitch Bend Wheel	Yes	Yes	Yes	Yes	
		Modulation Wheel	Yes	Yes	Yes	Yes	
		Joystick	-	-	-	-	
		Multi Pads	Yes (with Audio Link)	Yes (with Audio Link)	Yes (with Audio Link)	Yes (with Audio Link)	
		Sliders	-	-	-	9 (including 1 assignable)	
		Articulation Switches	-	-	-	ART. 1, ART. 2	
		Knobs	2 (Assignable)	2 (Assignable)	2 (Assignable)	-	
Display	Type/Size	4.3 inch monochrome QVGA LCD	7 inch TFT Color Wide VGA LCD	7 inch TFT Color Wide VGA LCD	7.5 inch TFT Color VGA LCD		
	Language	English, German, French, Spanish, Italian, Japanese	English, German, French, Spanish, Italian	English, German, French, Spanish, Italian	English, German, French, Spanish, Italian		
Panel	Language	English	English	English	English		
Voices	Tone Generation	AWM Stereo Sampling	AWM Stereo Sampling	AWM Stereo Sampling	AWM Stereo Sampling		
	Polyphony	Number of Polyphony (Max.)	128	128	128		
	Preset	Number of Voices	416 Voices + 34 Drum/SFX Kits + 480 XG Voices	830 Voices + 36 Drum/SFX Kits + 480 XG Voices	989 Voices + 41 Drum/SFX Kits + 480 XG Voices	1279 Voices + 37 Drum/SFX Kits + 480 XG Voices	
		Featured Voices	11 Mega Voices 19 Sweet! Voices 28 Cool! Voices 19 Live! Voices	67 S.Art! Voices 23 Mega Voices 27 Sweet! Voices 64 Cool! Voices 71 Live! Voices 20 Organ Flutes!	131 S.Art! Voices 30 Mega Voices 31 Sweet! Voices 74 Cool! Voices 89 Live! Voices 30 Organ Flutes!	55 Ensemble Voices 44 S.Art! Voices 288 S.Art! Voices 54 Mega Voices 138 Live! Voices 81 Cool! Voices 37 Sweet! Voices 40 Organ World	
	Expandability	Expansion Voice	Yes (Wave amount: approx. 32 MB max)	Yes (Wave amount: approx. 160 MB max)	Yes (Wave amount: approx. 512 MB max)	Yes *Wave Capacity: depends on the optional Flash Memory Expansion Module	
	Compatibility		XG, GS(for Song playback), GM, GM2	XG, GS(for Song playback), GM, GM2	XG, GS(for Song playback), GM, GM2	XG, GS(for Song playback), GM, GM2	
	Effects	Part	Right 1, Right 2, Left	Right 1, Right 2, Left	Right 1, Right 2, Left	Right 1, Right 2, Right 3, Left	
		Reverb	44 Presets + 3 User	52 Presets + 3 User	52 Presets + 3 User	52 Presets + 3 User	
		Chorus	71 Presets + 3 User	106 Presets + 3 User	106 Presets + 3 User	106 Presets + 3 User	
		DSP	283 Presets + 10 User	295 Presets + 10 User	322 Presets(with VCM) + 10 User	DSP1: 322 Presets + 3 User, DSP2-9: 322 Presets + 10 User	
Master Compressor		5 Presets + 5 User	5 Presets + 5 User	5 Presets + 5 User	5 Presets + 5 User		
Master EQ		5 Presets + 2 User	5 Presets + 2 User	5 Presets + 2 User	5 Presets + 2 User		
Part EQ		-	27 parts	27 parts	28 parts		
Vocal Harmony		Number of Presets	-	-	Vocal Harmony 44, Synth Vocoder 10	Vocal Harmony 44, Synth Vocoder 10	
		Number of User Settings	-	-	Total 60	Total 60	
Styles		Preset	Number of Preset Styles	230	360	450	539
	Featured Styles		208 Pro, 12 Session, 10 DJ	322 Pro, 27 Session, 10 DJ, 1 Free Play	40 +Audio, 366 Pro, 31 Session, 10 DJ, 3 Free Play	40 +Audio, 441 Pro, 51 Session, 7 FreePlay	
	Fingering	Single Finger, Fingered, Fingered On Bass, Multi Finger, AI Fingered, Full Keyboard, AI Full Keyboard	Single Finger, Fingered, Fingered On Bass, Multi Finger, AI Fingered, Full Keyboard, AI Full Keyboard	Single Finger, Fingered, Fingered On Bass, Multi Finger, AI Fingered, Full Keyboard, AI Full Keyboard	Single Finger, Fingered, Fingered On Bass, Multi Finger, AI Fingered, Full Keyboard, AI Full Keyboard		
	Style Control	INTRO x 3, MAIN VARIATION x 4, FILL x 4, BREAK, ENDING x 3	INTRO x 3, MAIN VARIATION x 4, FILL x 4, BREAK, ENDING x 3	INTRO x 3, MAIN VARIATION x 4, FILL x 4, BREAK, ENDING x 3	INTRO x 3, MAIN VARIATION x 4, FILL x 4, BREAK, ENDING x 3		
	Compatibility	Style File Format, Style File Format GE	Style File Format, Style File Format GE	Style File Format, Style File Format GE	Style File Format, Style File Format GE		
	Expandability	Expansion Style	Yes	Yes	Yes	Yes	
		Expansion Audio Style	-	-	Audio Capacity: approx. 128 MB	Audio Capacity: approx. 124 MB	
	Other Features	Music Finder (Max.)	1,200	1,200	2,500	2,500	
		One Touch Setting (OTS)	4 for each Style	4 for each Style	4 for each Style	4 for each Style	
	Songs (MIDI)	Preset	Number of Preset Songs	4 preset sample Songs	5 preset sample Songs	5 preset sample Songs	5 preset sample Songs
Number of Tracks			16	16	16	16	
Recording		Data Capacity	approx. 300 KB/Song	approx. 300 KB/Song	approx. 300 KB/Song	approx. 300 KB/Song	
		Recording Function	Quick Recording, Multi Track Recording	Quick Recording, Multi Recording, Step Recording	Quick Recording, Multi Recording, Step Recording	Quick Recording, Multi Recording, Step Recording	
Data Format		Playback	SMF (Format 0 & 1), XF	SMF (Format 0 & 1), XF	SMF (Format 0 & 1), XF	SMF (Format 0 & 1), XF	
		Recording	SMF (Format 0)	SMF (Format 0)	SMF (Format 0)	SMF (Format 0)	
Functions		Voices	Harmony	Yes	Yes	Yes	Yes
			Panel Sustain	Yes	Yes	Yes	Yes
		Styles	Mono/Poly	Yes	Yes	Yes	Yes
			Arpeggio	Yes	Yes	Yes	-
	Songs	Style Creator	Yes (no step edit)	Yes	Yes	Yes	
		Style Recommender	Yes	Yes	Yes	Yes	
		Song Creator	Yes (no step edit)	Yes	Yes	Yes	
		Score Display Function	Yes	Yes	Yes	Yes	
		Lyrics Display Function	Yes	Yes	Yes	Yes	
		Text Display Function	Yes	Yes	Yes	Yes	
Wallpaper Customization		-	Yes	Yes	Yes		
Lesson/Guide		Follow Lights, Any Key, Karao-Key, Your Tempo	Follow Lights, Any Key, Karao-Key, Your Tempo	Follow Lights, Any Key, Karao-Key, Your Tempo	Follow Lights, Any Key, Karao-Key, Your Tempo		
Multi Pads	Multi Pad Creator	Yes	Yes	Yes	Yes		
	Registration Memory	Number of Buttons	8	8	8		
Storage	Internal Memory	Control	Registration Sequence, Freeze	Registration Sequence, Freeze	Registration Sequence, Freeze	Registration Sequence, Freeze	
		Recording Time(max.)	80 minutes/Song	80 minutes/Song	80 minutes/Song	80 minutes/Song	
	Audio Recorder/Player	Recording	WAV (44.1kHz, 16bit, stereo)	WAV (44.1kHz, 16bit, stereo)	WAV (44.1kHz, 16bit, stereo)	WAV (44.1kHz, 16bit, stereo)	
		Playback	WAV (44.1kHz, 16bit, stereo)	WAV (44.1kHz, 16bit, stereo) .mp3 (44.1/48.0 kHz, 64-320 kbps and variable bit rate, mono/ stereo)	WAV (44.1kHz, 16bit, stereo) .mp3 (44.1/48.0 kHz, 64-320 kbps and variable bit rate, mono/ stereo)	WAV (44.1kHz, 16bit, stereo) .mp3 (44.1/48.0 kHz, 64-320 kbps and variable bit rate, mono/ stereo)	
	Overall Controls	Metronome	Yes	Yes	Yes	Yes	
		Tempo Range	5 - 500	5 - 500	5 - 500	5 - 500	
		Transpose	-12 - 0 - +12	-12 - 0 - +12	-12 - 0 - +12	-12 - 0 - +12	
		Tuning	414.8 - 440 - 466.8 Hz	414.8 - 440 - 466.8 Hz	414.8 - 440 - 466.8 Hz	414.8 - 440 - 466.8 Hz	
	Miscellaneous	Octave Button	Yes	Yes	Yes	Yes	
		Scale Type	9 Types	9 Types	9 Types	9 Types	
Storage	Miscellaneous	Direct Access	Yes	Yes	Yes		
	Internal Memory		approx. 2MB	approx. 13MB	approx. 6.7 MB		
	Internal Hard Disk		-	-	500 GB		
Connections	External Drives	USB Flash Memory (via USB to DEVICE)	USB Flash Memory (via USB to DEVICE)	USB Flash Memory (via USB to DEVICE)	USB Flash Memory (via USB to DEVICE)		
	Headphones	Standard stereo phone jack	Standard stereo phone jack	Standard stereo phone jack	Standard stereo phone jack		
	Microphone	-	Microphone or Guitar	Microphone or Guitar	Yes (Combo Jack)		
	MIDI	-	IN/OUT	IN/OUT	MIDI A (IN/OUT), MIDI B (IN/OUT)		
	AUX IN	Stereo mini jack	Stereo mini jack	Stereo mini jack	L/L+R, R		
	LINE OUT	L/L+R, R	L/L+R, R	L/L+R, R	MAIN (L/L+R, R), SUB OUT (1,2), SUB OUT (3,4 / AUX OUT)		
	RGB OUT	-	-	Yes	Yes		
	FOOT PEDAL	1 (SUSTAIN), 2 (VOLUME), Function Assignable	1 (SUSTAIN), 2 (ARTICULATION 1), Function Assignable	1 (SUSTAIN), 2 (ARTICULATION 1), Function Assignable	1 (SUSTAIN), 2 (ARTICULATION 1), 3 (VOLUME), Function Assignable		
	USB TO DEVICE	Yes	Yes	Yes	Yes (Front and Back)		
	USB TO HOST	Yes	Yes	Yes	Yes		
Amplifiers and Speakers	Amplifiers	15W x 2	15W x 2	15W x 2	-		
	Speakers	12cm x 2	(13cm x 5 cm) x 2	(13cm x 2.5cm dome) x 2	-		

* Specifications and appearance are subject to change without notice



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