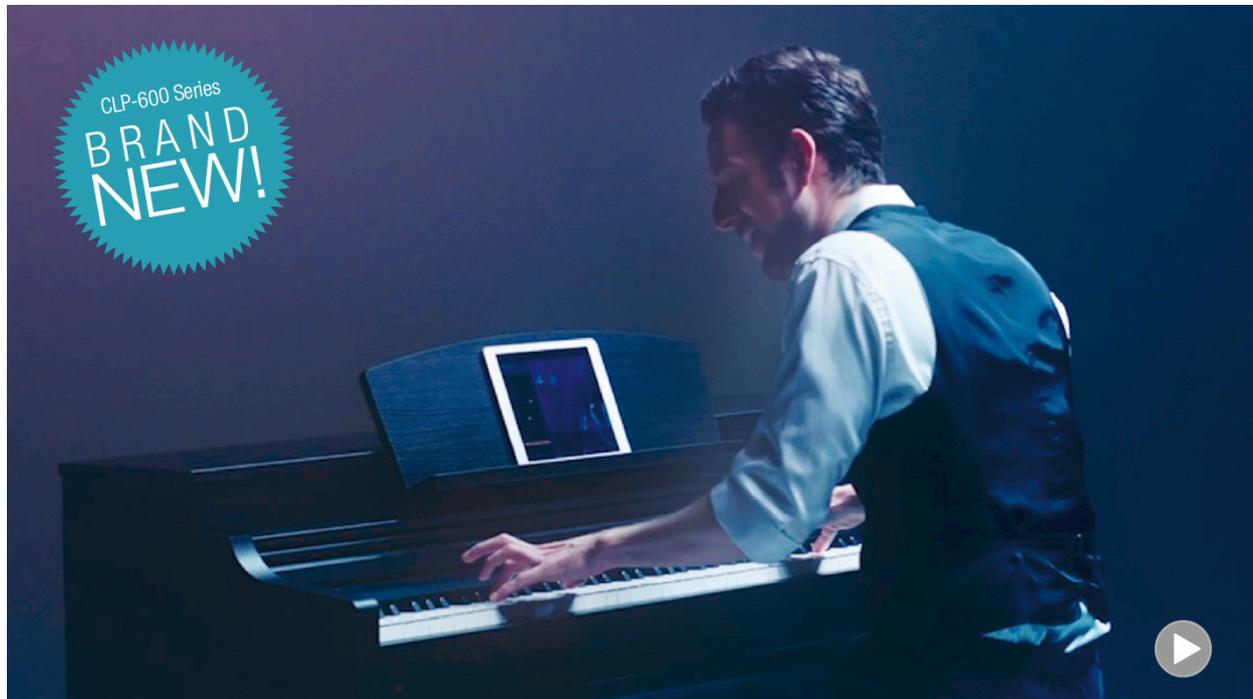


Clavinova® & Smart Pianist

 **YAMAHA**

CSP-Series



My Music, My Piano, My Way



CSP-150B Black



CSP-170PE Polished Ebony

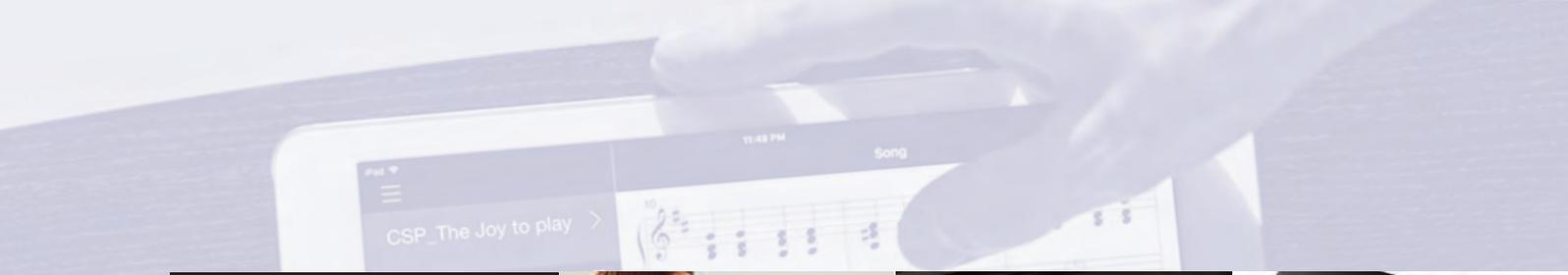
You have always dreamed of learning to play your favourite songs. The Clavinova CSP-Series will make this dream come true.

By scanning the songs in your smart device's music library, the Clavinova CSP will produce a chord chart, a piano score, and will show you what keys to play and when with the intuitive Stream Lights feature. Never before has technology been able to make this dream a reality!



CSP-Series

- Smart Pianist app for intuitive use
- Natural Wood X (NWX) keyboard (CSP-170) / Graded Hammer 3X (GH3X) keyboard (CSP-150) synthetic ebony and ivory keytops and escapement
- Piano Sound of Yamaha CFX and Bösendorfer Imperial
- 692 Voices + 29 Drum/SFX Kits incl. VRM and Super Articulation Voices
- 470 Styles
- 403 Preset-Songs; Stream Light system
- Virtual Resonance Modeling (VRM)
- Binaural Sampling
- Microphone input with Vocal Harmony
- (45 W + 45 W) × 2 amplification; 2 way-speaker with box (CSP-170) / 30 W × 2 amplification; one way speaker



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CSP-Series



Intuitive Simplicity

Enjoy simple, intuitive operation from smart devices with the dedicated app, "Smart Pianist".



Piano playing made easy!

The Clavinova CSP will show you how easy it can be to play the piano and experience the joy of making music. The dedicated Clavinova Smart Pianist app analyzes the music you want to play and then creates a piano accompaniment score for you. All you have to do is follow the Stream Lights!



Step 1: Pick a song, any song...

Choose any song you like from your audio/ song library.



Step 2: Audio to Score

Load the song into the Smart Pianist app, and the "Audio to Score" feature will analyze the chords and create a score instantly.



Step 3: Stream Lights

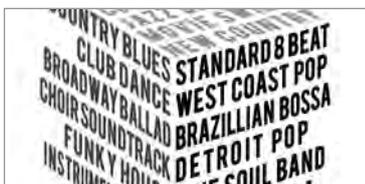
Now you're ready to go! Let the Stream Lights guide your fingers as you play along with the song.



Ready to perform

When you're ready to take on the challenge of solo performance, the Clavinova CSP offers built-in songs for immediate enjoyment, or additional songs for purchase from Yamaha MusicSoft (www.yamahamusicsoft.com). And even if you're just starting out, you can trust the Stream Lights to show you the way.

<https://www.yamahamusicsoft.com>



Solo, Band, Orchestra, and more!

Clavinova CSPs offer unrivaled capacity for musical expression, with a huge variety of instrument voices that bely their simple, elegant exteriors. You can also enjoy ensemble sessions with rock or jazz bands, and even bossa nova orchestras, simply by assigning Styles.

Want to sing as well? The Clavinova CSP comes equipped with a mic input, and will even harmonise with you as you sing!



Anyone can enjoy the piano more with Smart Pianist, a dedicated app for smart devices that provides various music-related functions when connected with the Clavinova CSP Series.

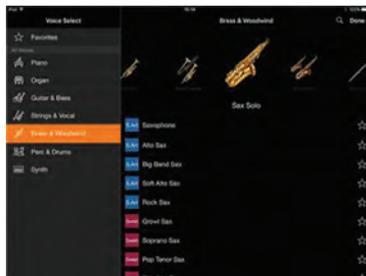


Play your favorite songs right away with the “Audio To Score” function

Smart Pianist features an "Audio To Score" function that automatically creates a piano accompaniment score from songs on your smart device, allowing you to enjoy playing along with your favourite tunes

Backing band accompaniment that you can sing along with

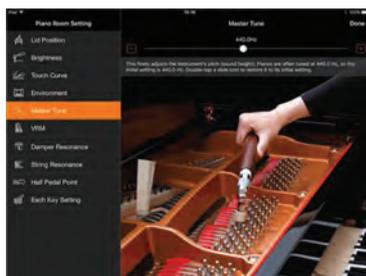
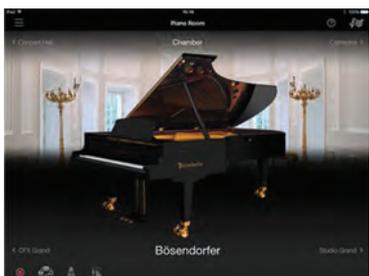
Enjoy accompaniment from a dynamic backing band, even when you're playing by yourself. The accompaniment provides a wide variety of patterns across a range of genres to match your performance. You can also connect a microphone and sing along with harmony functions that allow you to automatically create a chorus backing for your performances, even when you're singing alone.



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Concert grand piano sound at your fingertips

The Clavinova CSP-Series feature piano Voices created with samples from Yamaha's flagship CFX concert grand piano and the world renowned Bösendorfer concert grand. These superb instruments reproduce the way sound echoes differently in different venues such as halls, cathedrals, and smaller rooms, and even recreate the subtle changes in tone that occur when the lid of a grand piano is opened or closed. With keys that rebound quickly for rapid playback of repeated notes, the Clavinova CSPs offer a feel strikingly similar to that of an actual grand piano.



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YAMAHA
CSP-Series



Superb Keyboard action

The touch of the Clavinova CSP-Series keyboard has been praised by pianists for a performance feel that makes you forget you're playing a digital piano, offering authentic response to the force of your touch and a natural key return. Utilizing the same hammering system and spring-less mechanism as a grand piano, the GH3X action in CSP-150 accurately reproduce the touch of an acoustic piano from the heavy feel in the lower register to the lighter touch in the upper octaves. Just as with grand pianos, the material used for the Natural Wood X (NWX) keyboard action in CSP-170 is cut from wood that has been carefully dried specifically for use in making musical instruments.



Real grand piano tone

Two world-renowned concert grand pianos in one. The powerful tone of the flagship Yamaha CFX concert grand, and the unmistakable sound of a Bösendorfer Imperial are available. In addition to this, both models CSP-150 and CSP-170 include an Upright Piano voice.



Variety is the spice of life

The Clavinova CSP-Series feature piano Voices created with samples from Yamaha's flagship CFX concert grand piano and the world renowned Bösendorfer Imperial. These superb instruments reproduce the way sound echoes differently in different venues such as halls, cathedrals, and smaller rooms, and even recreate the subtle changes in tone that occur when the lid of a grand piano is opened or closed. With keys that rebound quickly for rapid playback of repeated notes, the Clavinova CSP offer a feel strikingly similar to that of an actual grand piano.



When you want to play more than just piano

One of the defining features of a Clavinova CSP is the multitude of different Styles that can be controlled in real-time by playing chords on the keyboard. Accompaniment Styles introduce ensembles of virtual musicians to your performances in a variety of musical genres. From small jazz ensembles to full orchestras, you control what chords or harmony they play by what you play, you control the dynamic of the ensemble through the weight of your own performance.



Enhanced Virtual Resonance Modeling (VRM) for rich and bright sound

In a grand piano, sound resonates throughout the body of the instrument, producing a rich reverberation that envelops the listener in sound. These phenomena are reproduced perfectly in the Clavinova through Yamaha Virtual Resonance Modeling (VRM) technology. The piano body resonates just like an acoustic piano. The acoustic system of the Clavinova reproduces the sensation of the entire piano vibrating, just like the feeling of playing an acoustic piano.



Sing in perfect Harmony... with yourself!

You can enjoy karaoke backing with songs stored in your Clavinova or downloaded from YamahaMusicsoft.com. The lyrics are shown on the Smart Pianist app and the words change color as the song advances, so you know exactly when to come in. Plug in a microphone, and you can sing along with your playing. The Vocal Harmony engine creates advanced sounding harmonies, enriching your voice and is even capable of correcting your pitch!



Even headphones produce a larger than life experience

Thanks to advanced binaural sampling technology, you can enjoy the highly realistic sensation of playing a concert grand piano even when you are using headphones. The technology uses samples from the CFX recorded with specialized microphones that capture locational information and other nuances discerned by the human ear. The resulting sound is so natural, so enveloping, that you'll soon forget you're even wearing headphones at all.



CSP-Series

Technical Specifications

Model		CSP-170	CSP-150	
Keyboard	Number of Keys	88		
	Type	NWX (Natural Wood X) keyboard with synthetic ebony and ivory keytops, escapement	GH3X (Graded Hammer 3X) keyboard with synthetic ebony and ivory keytops, escapement	
	Touch Sensitivity	Hard2, Hard1, Medium, Soft1, Soft2, Fixed		
	88-key Linear Graded Hammers	YES		
Voices	Piano Sound	Yamaha CFX, Bösendorfer Imperial		
		Binaural Sampling	Yes (Yamaha CFX Voice only)	
		Piano Effect	VRM, Key-off Samples, Smooth Release	
	Polyphony (max.)	256		
	Preset	Number of Voices	692 Voices + 29 Drum / SFX Kits	
		VRM Voices	14	
Super Articulation Voices		113		
Others		27 Natural! Voices, 27 Sweet! Voices, 63 Cool! Voices, 69 Live! Voices, 30 Organ Flutes! Voices		
Compatibility	XG, GS (for Song playback), GM, GM2			
Pedals	Half Pedal / Functions	Yes / Sustain, Sostenuto, Soft, Glide, Style Start / Stop, Volume, etc.		
Effects	Types	Reverb / Chorus / Others	Reverb (58 Preset)	
		Effect Types	Master EQ (5 Preset + User), Intelligent Acoustic Control (IAC), Stereophonic Optimizer	
		Vocal Harmony	VH2 (44 Preset)	
		Dual (Layer) / Split	Yes	
Styles	Preset	Style Selection		
	Fingering	470 (396 Pro Styles, 34 Session Styles, 4 Free Play Styles, 36 Pianist Styles)		
	Style Control	Chord Detection Area Full, Chord Detection Area Lower		
Songs (Audio)	Recording Time (max.)	INTRO x 1, ENDING x 1, MAIN x 4, FILL IN x 4		
	Data Format (Recording / Playback)	Depending on the Smart Device		
	Functions	Recording: WAV/AAC Playback: Supported format by the Smart Device		
Songs (MIDI)	Preset	Number of Preset Songs	Time Stretch, Pitch Shift, Melody Suppressor	
		Number of Tracks	403	
	Recording	Data Capacity	16	
		Compatible Data Format	Depending on the Smart Device	
Functions	Guide Lamps / Stream Lights	Recording: SMF (Format 0), Playback: SMF (Format 0 & 1), XF		
	Audio to Score	Stream Lights (4 steps)		
	Piano Room	Yes		
	Registration Memory	Yes		
Storage and Connectivity	Storage	Internal Memory	Depending on the Smart Device	
		External Memory		
		USB Connection	USB TO DEVICE, USB TO HOST, iPad	
		Other Connectivity	Phones x 2, MIC (Input Volume, Mic / Line In), MIDI (IN/OUT / THRU), AUX IN (Stereo mini), AUX OUT (L/L+R, R), AUX PEDAL	
Sound System	Amplifiers	(45 W + 45 W) x 2	30 W x 2	
	Speakers	(16 cm + 8 cm) x 2	16 cm x 2	
	Others	Acoustic Optimizer		
Control Interface	Display	Type	Depending on the Smart Device	
		Size		
		Touch Screen		
		Language	26 Languages (English, Japanese, German, French, Spanish, etc.)	
Panel	Language	English		
Cabinet		Key Cover (Sliding), Music Rest, Music Clips		
Dimensions (W x D x H) with the Music Rest / Lid up		CSP-170PE: 1,418mm x 466mm x 1,040mm [55-13/16" x 18-6/16" x 40-15/16"] CSP-170B / 170WH: 1,412mm x 465mm x 1,040mm [55-85" x 18-5/16" x 40-15/16"]	CSP-150PE: 1,418mm x 466mm x 1,040mm [55-13/16" x 18-6/16" x 40-15/16"] CSP-150B / 150WH: 1,412mm x 465mm x 1,040mm [55-85" x 18-5/16" x 40-15/16"]	
Weight		CSP-170PE: 69.0 kg [152 lb, 2 oz] CSP-170B / 170WH: 67.0 kg [147 lb, 12 oz]	CSP-150PE: 61.0 kg [134 lb, 8 oz] CSP-150B / 150WH: 58.0 kg [127 lb, 14 oz]	
Optional Accessories **		Headphones HPH-150/100/50, Foot Switches: FC4A/FC5, Foot Controller: FC7, USB wireless LAN adaptor UD-WL01, USB wireless MIDI adaptor MD-BT01 / UD-BT01		



Download images



CSP-170B Black
CSP-170PE Polished Ebony
CSP-170WH White



CSP-150B Black
CSP-150PE Polished Ebony
CSP-150WH White

* Wood is used for the white keys **Availability of optional accessories varies by area
Additional items (e.g. i-UX1, UD-WL01, Internet access) may be required to access certain functions.
The cabinet colors and finishes shown in this brochure may appear different than those on the actual products.
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