

# Yamaha CLP-735R Clavinova



The CLP Series of digital pianos utilizes cutting-edge technology to recreate the experience of performing on a grand piano, allowing the pianist to play the keys with many variations of speed and depth to achieve an unlimited variation in tone and create uniquely personal performances. With expressive capabilities approaching those of a grand piano, the CLP-700 Series is sure to make playing the piano so much more enjoyable than ever before.

Clavinova pianos are loaded with convenient features only digital pianos can deliver. You can use headphones to keep your surroundings quiet, or connect a Bluetooth® device to your Clavinova for playback through its speakers. Also, connect to Yamaha's app, Smart Pianist, to gain extra help for your piano practice. The simple control panel makes it easy to change piano settings.

## GrandTouch-S™ keyboard

Yamaha's latest keyboard action features a broad dynamic range and faithful response to every nuance of touch that puts a wide expanse of tone—from delicate to bold—at the pianist's fingertips. The highly consistent grand piano hammers replicate the pleasing response felt when the hammers strike the strings, enabling precise control of the tone.

Highly absorbent synthetic-ivory white keys and synthetic-ebony black keys prevent slipping even during extended play and feel just like those of a



grand piano.

#### Escapement mechanism of Clavinova keyboards

The escapement mechanism in a grand piano moves the hammers away from the strings quickly after they strike them, in order to prevent any interference with string vibration. This mechanism produces a slight clicking sensation when the keys are pressed gently.

The Clavinova keyboards feature an escapement mechanism that reproduces this sensation near the bottom of the key dip. They have been designed in such a way that the click is discernible only on the lightest keystrokes, similar to the keyboard of a grand piano. These keyboards have been adjusted to provide additional friction that balances key repetition and response without impeding performance.

#### Yamaha Clavinova CLP

##### Design philosophy

Clavinova pianos boast excellent playability, versatility, and a refined design that sets the standard for digital pianos. The Clavinova design concept is centered around the way a player feels when they take their seat at the keys. On select models, we remove any and all unnecessary elements from the player's field of vision to recreate the natural experience of sitting at an acoustic piano. That way, concert grand players can practice exactly the way they perform. As a major facet of a player's everyday life, Clavinova pianos are available in a variety of colors and finishes to enhance any interior design aesthetic or lifestyle.

##### Sensitivity

#### Yamaha Clavinova CLP

##### Grand Expression Modeling

The interaction and interplay of the hammers, dampers, and strings inside a grand piano respond to the subtlest nuances of the pianist's touch, creating a limitless range of tonal expression. Touch refers to the pianist's control, not only of intensity (softness/loudness) in playing and releasing the keys, but also of the speed and depth with which the keys are pressed. The Grand Expression Modeling introduced in the CLP-700 Series translates the widely varied input from the pianist's fingers into the same limitless tonal variation of a grand piano.

This makes it possible to vary the output by playing the keys to different depths and with different speeds, even when using techniques such as trills or legato or emphasizing the melody over the accompaniment. Grand Expression Modeling excels at faithfully reproducing the output expected of these techniques in many well-known songs. In Debussy's "Clair de Lune," a loose touch creates the faint tone that makes the melody stand out more crisply. In Liszt's "Un Sospiro," the accompanying arpeggios accent the melody without overwhelming it, and varied expression of the melody gives it the same quality as vocals. In the last of the Chopin nocturnes, trills, legato, and other delicate techniques where fingers seem to float over the keys deliver the airy, smooth tonal expression required. Playing such pieces on a highly expressive piano helps the pianist learn various techniques and experience the same joy of expression as a painter, but through sound.



## Sound Quality

### Yamaha Clavinova CLP

Newly sampled Yamaha CFX and Bösendorfer Imperial voices

Clavinova grand piano sounds are recorded from several world-renowned concert grand pianos. One of them is the CFX, Yamaha's top-flight concert grand piano. Pianists around the world are enamored with the impressive, dazzling, richly expressive sound of the CFX in concert halls. Another sampled concert grand is the Imperial, the flagship model of Bösendorfer, a time-honored Viennese piano brand with an ardent following. The Imperial is known for its abundance of color and natural, warm feeling. Yamaha faithfully reproduces the idiosyncrasies of these concert grand pianos by carefully recording the entire tonal range of each of the 88 keys, making minute adjustments to capture the most harmonious tones each piano has to offer.

### Yamaha Clavinova CLP

#### Virtual Resonance Modeling

One of the allures of the grand piano is the sympathetic resonance created by the vibration of the entire instrument. Clavinova pianos elaborately reproduce this rich sympathetic resonance through a groundbreaking technology called Virtual Resonance Modeling (VRM). VRM creates a richly varied sound by simulating the complex sympathetic tones created when the vibrations of the strings are propagated to the soundboard and other strings, corresponding to the timing and intensity of key playing and pedaling. CLP-700 Series pianos even replicate the sounds the dampers make when they are raised off the strings, in addition to the resonance of the duplex scaling, strings, soundboard, and case. Clavinova pianos allow you to enjoy the same momentary dynamics and deep sympathetic sounds that are produced by the entire body of a grand piano.

### Yamaha Clavinova CLP

A fully immersive concert grand experience—even with headphones

Binaural sampling is a method of sampling in which special microphones are placed on a mannequin's head in the same positions as the pianist's ears to capture piano sounds the way that they sound in reality.

We chose this method to create the ambience and full, natural resonance of acoustic pianos in Clavinova pianos. This makes pianists feel as though they are sitting at a grand piano even when they play with headphones on. The experience is so pleasant that they forget they are wearing headphones, no matter how long they continue to play.

On CLP-700 Series pianos, binaural sampling was used for the Bösendorfer Imperial as well as the Yamaha CFX. Yamaha achieves higher-definition binaural sound with a specially developed mannequin head and model ears used for the recording.

We also developed the Stereophonic Optimizer function to achieve the same effect for the piano effects. Stereophonic Optimizer technology replicates the natural diffusion of sound in headphones nearly as closely as binaural sampling for the piano voices other than the CFX and Imperial.

### Yamaha Clavinova CLP



Period instrument voices open the door to the world of classical music. The CLP-745/735/765GP\* are Yamaha's first instruments to be equipped with the voices of the fortepiano, the predecessor to the modern piano. The sounds emitted by a fortepiano are simpler than those of a modern piano, and decay much more rapidly. Hearing the sounds of the instruments played when the likes of Mozart, Beethoven, and Chopin were composing their songs should illuminate the original intent behind the notes on the page. Here is a novel opportunity to communicate with historical composers by playing these period instruments.

\*These models are equipped with the voices of two fortepianos beloved by Mozart and Chopin.

The fortepianos shown in the picture are from the collections of at the Hamamatsu Museum of Musical Instruments.

## General Features

### Yamaha Clavinova CLP

#### Time-tested practice aids

Train your hands with some of the most widely accepted exercises in the world using proven practice methods from Hanon, Bayer, Czerny and Burgmüller. You can use these built-in songs for practicing with your right and left hands separately, or simply enjoy listening to them.

#### Playing the piano along with rhythm playback

The CLP-700 Series comes complete with 20 different and simple rhythm patterns (drums and bass accompaniment) that are perfectly suited to many types of music, letting you spice up your performance with some backing musicians, make practice more interesting, or open up your creative flow with inspiring new ideas.

### Yamaha Clavinova CLP

#### Get more with the Smart Pianist app

Enjoy the piano more with Smart Pianist, a dedicated app that adds a beautiful graphic interface and a variety of incredible features to your compatible Yamaha digital piano.

The Bluetooth® MIDI function\* lets you connect to Smart Pianist wirelessly.

\*Featured on the CLP-785/745/795GP/765GP. Availability of Bluetooth MIDI varies by country.

#### Learn more about Smart Pianist app

#### Multi-track Song Recorder

The recording function featured in Clavinova digital pianos allows you to record your performances\* with a single touch, which is useful when you want to review your playing objectively. Additionally, you can record up to 16 tracks for simultaneous playback, so different hands can be recorded separately or overdub parts with different voices.

\*Recordings are made in MIDI format, and can also be recorded to USB flash memory. Compatible software is required for playback of recorded data on a



computer.

## USB Audio Recorder

Record performances to USB flash memory and create audio files\* you can save and play back on a computer, share with friends or create a CD.

\*Data is saved in WAV format.

## Yamaha CLP735R Clavinova Video

		CLP-745	CLP-735
		Size/Weight	
Dimensions	Width	57-1/2" (1,461 mm) [Polished finish: 57-11/16" (1,466 mm)]	57-1/2" (1,461 mm) [Polished finish: 57-11/16" (1,466 mm)]
	Height	36-1/2" (927 mm) [Polished finish: 36-5/8" (930 mm)]	36-1/2" (927 mm) [Polished finish: 36-5/8" (930 mm)]
	Depth	18-1/16" (459 mm) [Polished finish: 18-1/16" (459 mm)]	18-1/16" (459 mm) [Polished finish: 18-1/16" (459 mm)]
Weight	Weight	132 lb (60 kg, 4 oz) [Polished finish: 138 lb (63 kg, 14 oz)]	125 lb (57 kg, 11 oz) [Polished finish: 132 lb (60 kg, 4 oz)]
		Control Interface	
Keyboard	Number of Keys	88	88
	Type	GrandTouch-S™ keyboard: wooden keys (white only), synthetic ebony and ivory keytops, escapement	GrandTouch-S™ keyboard: synthetic ebony and ivory keytops, escapement
	Touch Sensitivity	Hard2/Hard1/Medium/Soft1/Soft2/Fixed	Hard2/Hard1/Medium/Soft1/Soft2/Fixed
	88-key Linear Graded Hammers	—	—
	Counterweight	—	—
	Number of Pedals	3: Damper (with half-pedal function), Sostenuto, Soft	3: Damper (with half-pedal function), Sostenuto, Soft
Pedal	Functions	Sustain (Switch), Sustain Continuously, Sostenuto, Soft, Pitch Bend Up, Pitch Bend Down, Rotary Speed, Vibe Rotor, Song Play/Pause	Sustain (Switch), Sustain Continuously, Sostenuto, Soft, Pitch Bend Up, Pitch Bend Down, Rotary Speed, Vibe Rotor, Song Play/Pause
Display	GP Response Damper Pedal	—	—
	Type	Full Dots LCD	Full Dots LCD
	Size	128 x 64 dots	128 x 64 dots
Panel	Language	English, Japanese	English, Japanese
	Type	Buttons	Buttons
Key Cover	Language	English	English
	Key Cover Style	Sliding	Sliding
	Music Rest	Yes	Yes
	Music Braces	Yes	Yes
		Cabinet	
		Voices	



CLP-745			CLP-735		
Tone Generation	Piano Sound	Yamaha CFX, Bösendorfer Imperial	Yamaha CFX, Bösendorfer Imperial		
	Binaural Sampling	Yes (CFX Grand and Bösendorfer voices only)	Yes (CFX Grand and Bösendorfer voices only)		
	Key-off Samples	Yes	Yes		
	Smooth Release	Yes	Yes		
	Virtual Resonance Modeling (VRM)	Yes	Yes		
Polyphony	Grand Expression Modeling	Yes	Yes		
	Number of Polyphony (Max.)	256	256		
Preset	Number of Voices	38	38		
Compatibility		—	—		
Effects					
Types	Reverb	6	6		
	Chorus	3	3		
	Brilliance	7+ User	7+ User		
	Master Effect	12	12		
	Intelligent Acoustic Control (IAC)	Yes	Yes		
Functions	Stereophonic Optimizer	Yes	Yes		
	Dual/Layers	Yes	Yes		
	Split	Yes	Yes		
	Duo	Yes	Yes		
Songs					
Preset	Number of Preset Songs	21 voice demo songs + 50 classics + 303 lesson songs	21 voice demo songs + 50 classics + 303 lesson songs		
	Number of Songs	250	250		
Recording	Number of Tracks	16	16		
Compatible Data Format	Data Capacity	approx. 500 KB/Song	approx. 500 KB/Song		
	Playback	SMF (Format 0, Format 1)	SMF (Format 0, Format 1)		
	Recording	SMF (Format 0)	SMF (Format 0)		
Functions					
USB Audio Recorder	Piano Room	Yes	Yes		
	Playback	.wav (44.1 kHz sample rate, 16-bit resolution, stereo)	.wav (44.1 kHz sample rate, 16-bit resolution, stereo)		
	Recording	.wav (44.1 kHz sample rate, 16-bit resolution, stereo)	.wav (44.1 kHz sample rate, 16-bit resolution, stereo)		
	Metronome	Yes	Yes		
Overall Controls	Tempo Range	5 – 500	5 – 500		
	Transpose	-12 – 0 – +12	-12 – 0 – +12		
	Tuning	414.8 – 440.0 – 466.8 Hz (approx. 0.2 Hz increments)	414.8 – 440.0 – 466.8 Hz (approx. 0.2 Hz increments)		
	Scale Type	7 types	7 types		
	Rhythm	20	20		
	Bluetooth	Audio/MIDI (varies by country)	—		
Storage and Connectivity					



		CLP-745	CLP-735
Storage	Internal Memory	Total maximum size approx. 1.4 MB	Total maximum size approx. 1.4 MB
	External Drives	USB flash drive	USB flash drive
	Headphones	Standard stereo phone jack (x 2)	Standard stereo phone jack (x 2)
Connectivity	MIDI	[IN] [OUT] [THRU]	[IN] [OUT] [THRU]
	AUX IN	Stereo Mini	Stereo Mini
	AUX OUT	[L/L+R] [R]	[L/L+R] [R]
	AUX Pedal	—	—
	USB TO DEVICE	Yes	Yes
	USB TO HOST	Yes	Yes
	DC IN	24 V	16 V
Amplifiers and Speakers			
	Amplifiers	(50 W + 50 W) x 2	30 W x 2
	Speakers	(16 cm + 8 cm) x 2	16 cm x 2
Power Supply			
	Power Consumption	40 W (When using PA-500 AC adaptor)	18 W (When using PA-300C AC adaptor)
	Auto Power Off	Yes	Yes
Power Supply	Adaptors	PA-500	PA-300C
Accessories			
	Accessories	Owner's Manual, "50 Classical Music Masterpieces" Music Book, Online Member Product Registration, Warranty*, Bench*, Power cord*/AC adaptor* PA-500 *varies by area	Owner's Manual, "50 Classical Music Masterpieces" Music Book, Online Member Product Registration, Warranty*, Bench*, Power cord*/AC adaptor* PA-300C *varies by area