



# Portable Grand™

## DGX-640



DGX-640C

### Overview

Yamaha's most piano-like Portable Grand ever, with its weighted Graded Hammer Standard keyboard action and wide selection of piano Voices. Selecting a sound is as easy as keying in a number, and recording virtuoso performances is simple with the built-in recorder. The Yamaha Education Suite and USB connectivity add functionality.

### Features

#### Graded Hammer Standard (GHS) Keyboard with matte finish of black keys

Just as on a traditional acoustic piano, the keys of the lower notes have a heavier touch, while the higher ones are more responsive to lighter playing. The keyboard's sensitivity can even be adjusted to match your playing style. This Graded Hammer technology also enables the instrument to provide authentic touch in a lightweight instrument. The matte finish of the black keys enhances the keyboard's luxurious appearance.

#### Amazingly Realistic and Dynamic Sounds

Yamaha's highly acclaimed Sweet! and Cool! Voices deliver incredibly natural and very dynamic sound. Use the Pitch Bend wheel and hear these Voices--especially the Sax and Trumpet--truly come alive!

#### Live!, Cool! and Sweet! Voices

A huge palette of acoustic and electronically amplified instrument sounds. A blend of long, stereo and multi-layered samples is used to fully capture the natural presence, resonance, expression and vibrato of the real instrument.

#### Digital Signal Processor (DSP)

237 types of the DSP effect can be added to the Main and Dual Voices. These range from reverb-like ambience effects to distortion and other dynamic processing tools that let you enhance the sound, or completely transform it.

#### Easy Song Arranger

In addition to each song's default style, you can select any other style to play the song with the Easy Song Arranger feature. This means that you can play a song that is normally a ballad, for example, as a bossa nova, as a hip-hop tune, etc. You can create totally different arrangements by changing the style with which a song is played. You can also change the song's melody Voice and the keyboard Voice for a complete change of image.

#### Performance Assistant Technology (P.A.T.)

Play along with a song on the instrument's keyboard and produce a perfect performance every time ... even if you play wrong notes! All you have to do is play on the keyboard--alternately on the left- and right-hand ranges of the keyboard, for example--and you'll sound like a pro as long as you play in time with the music.



DGX-640W

Pictured with optional LP7A pedal unit.

#### Music Database plus External Files

You want to play music in your favorite style, but you're not sure how to select the best Voice and style for the type of music you want to play... simply select the appropriate style from the Music Database. The panel settings will automatically be adjusted for the ideal combination of sounds and style! Furthermore, this instrument allows Music Database files transferred from a computer or stored on a USB flash memory device. These files can be used in the same way as the internal Music Database.

#### USB TO DEVICE

The USB TO DEVICE on the instrument allows you to connect USB memory devices such as flash drives or hard drives, enabling you to save or load registrations and user songs created on the instrument, as well as read data from the connected device such as MIDI files or style files.

#### USB TO HOST

Dive in and take advantage of the wide world of computer music software. Connections and setup are exceptionally easy, and you can play back your computer-recorded parts with different instrument sounds - all from a single instrument.

#### Easy Performance with Music Notation Display

When you play back a song, the corresponding score will be shown on the display. This is a great way to learn how to read music. If the song contains lyric and chord data, the lyrics and chords will also appear on the score display.

#### Yamaha Education Suite (Y.E.S.)

Yamaha Education Suite (Y.E.S.) is an advanced set of helpful learning tools built into the instrument, letting you teach yourself how to play and perform. Y.E.S. helps you master a song with easy lesson steps. Each lesson can be done in isolation with either your left hand or right hand, or both.

#### Optional three-pedal unit (LP-7A)

The pedal unit has three foot pedals that produce a range of expressive effects similar to those produced by the pedals on an acoustic piano.

## Specification Comparison Chart

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Model Name		<b>DGX-640</b>	DGX-630		
Keyboard		<b>GHS with matte black finish key</b>	GHS		
Voice	Voices	<b>535 Voices</b>	503 Voices		
	Polyphony	<b>64</b>	64		
	Piano Voice Quality	<b>new Live! ! Grand Piano</b>	Live! ! Grand Piano		
	Featured Voices	<b>4 Pianos (Live! Grand Piano, Live! Pop Grand, Live! Warm Grand, Ambient Grand Piano) 9 Live! Voices / 7 Cool! Voices / 8 Sweet! Voices</b>	Sweet! Voice x 8 Live! Voice x 3 Cool! Voice x 5		
Effect	Reverb	<b>35 types</b>	29 types		
	Chorus	<b>44 types</b>	24 types		
	DSP	<b>237 types</b>	182 types		
	Preset Master EQ	<b>5 types</b>	5 types		
	Dual	<b>Yes</b>	Yes		
	Split	<b>Yes</b>	Yes		
	Harmony / Echo	<b>26 types</b>	26 types		
	Panel Sustain	<b>Yes (in menu)</b>	Yes (in menu)		
Style	Number of Preset Styles	<b>165</b>	160		
	User Styles	<b>Yes</b>	Yes		
	Compatible File Format	<b>SFF</b>	SFF		
	Variations	<b>2</b>	2		
	Fingering	<b>Multi / Full Keyboard</b>	Multi / Full Keyboard		
Song	Playback	Number of Preset Songs	<b>30</b>	30	
		Number of Preset Copyright Songs	<b>0</b>	3	
		Compatible File Format	<b>SMF</b>	SMF	
	Recording	Number of Songs	<b>5</b>	5	
		Number of Tracks	<b>6 (5Melody + 1Chord)</b>	6 (5Melody + 1Chord)	
		Compatible File Format	<b>No (Original File Format)</b>	No (Original File Format)	
	User Song to SMF Converter	<b>Yes</b>	Yes		
	Score Display	<b>Yes</b>	Yes		
	Lyric Display		<b>Yes</b>	Yes	
		Compatible Data Format	<b>XF</b>	XF	
Overview Demo		<b>Yes</b>	Yes		
Easy Song Arranger		<b>Yes</b>	Yes		
Music Database		<b>Yes</b>	Yes		
	Number of Songs	<b>300 and more</b>	300		
Overall Control	Tempo	<b>11 to 280</b>	11 to 280		
	Transpose	<b>-12 to 0, 0 to +12</b>	-12 to 0, 0 to +12		
	Tuning	<b>-100 to +100 cents</b>	-100 to +100 cents		
	Pitch Bend Range	<b>1 to 12</b>	1 to 12		
Metronome		<b>Yes</b>	Yes		
Yamaha Education	Type	<b>Waiting, Your tempo, Minus one</b>	Waiting, Your tempo, Minus one		
Suite (Y.E.S.)	Repeat & Learn	<b>Yes</b>	Yes		
	Chord Dictionary	<b>Yes</b>	Yes		
Performance assistant technology		<b>Chord, Melody, Chord / Free, Chord / Melody</b>	Chord, Melody, Chord / Free, Chord / Melody		
One Touch Setting		<b>Yes (Incl. Voice List)</b>	Yes (Incl. Voice List)		
Registration Memory		<b>4 Pads x 8 Banks</b>	2 Pads x 8 Banks		
Controller	Pitch Bend Wheel	<b>Yes</b>	Yes		
	Pedal	<b>Sustain or Optional 3 Pedals (LP-7A)</b>	Sustain or Optional 3 Pedals (LP-7A)		
Display	Type	<b>Full Dot LCD 320 x 240 Dots</b>	Full Dot LCD 320 x 240 Dots		
	Size	<b>98mm x 65mm</b>	98mm x 65mm		
	Backlit	<b>Yes</b>	Yes		
Storage	Flash Memory	<b>Yes</b>	Yes		
	External Storage Device	<b>Yes (USB Flash Memory)</b>	Yes (USB Flash Memory)		
Compatibility	GM	<b>Yes</b>	Yes		
	XG lite	<b>Yes</b>	Yes		
Aux. Jacks	Phones (/Output)	<b>Yes</b>	Yes		
	DC IN	<b>Yes</b>	Yes		
	Foot Switch	<b>Yes</b>	Yes		
	Pedal Unit	<b>Yes (Optional)</b>	Yes (Optional)		
	USB TO HOST	<b>Yes</b>	Yes		
	USB TO DEVICE	<b>Yes (front panel)</b>	Yes (rear panel)		
	Outboard Content	Song	XG/XF Songs	<b>Yes</b>	Yes
			Pianosoft Solo	<b>Yes</b>	No
		DMN lite	<b>Yes</b>	Yes	
		Performance Guide	<b>Yes</b>	Yes	
Others		Style	<b>Yes</b>	Yes	
PC Service		Music Finder Record	<b>Yes</b>	Yes	
		Download	<b>Yes</b>	Yes	
		Interactive (DMN/Hi-Chao)	<b>Yes</b>	Yes	
Amplifier / Speaker	Amplifier	<b>6W x 2</b>	6W x 2		
	Speaker Size	<b>12cm x 2 + 3cm x 2</b>	12cm x 2 + 3cm x 2		
Design / Color		<b>New Design / DGX-640W: Walnut, DGX-640C: Cherry</b>	Cherry color		

\* All tentative specification