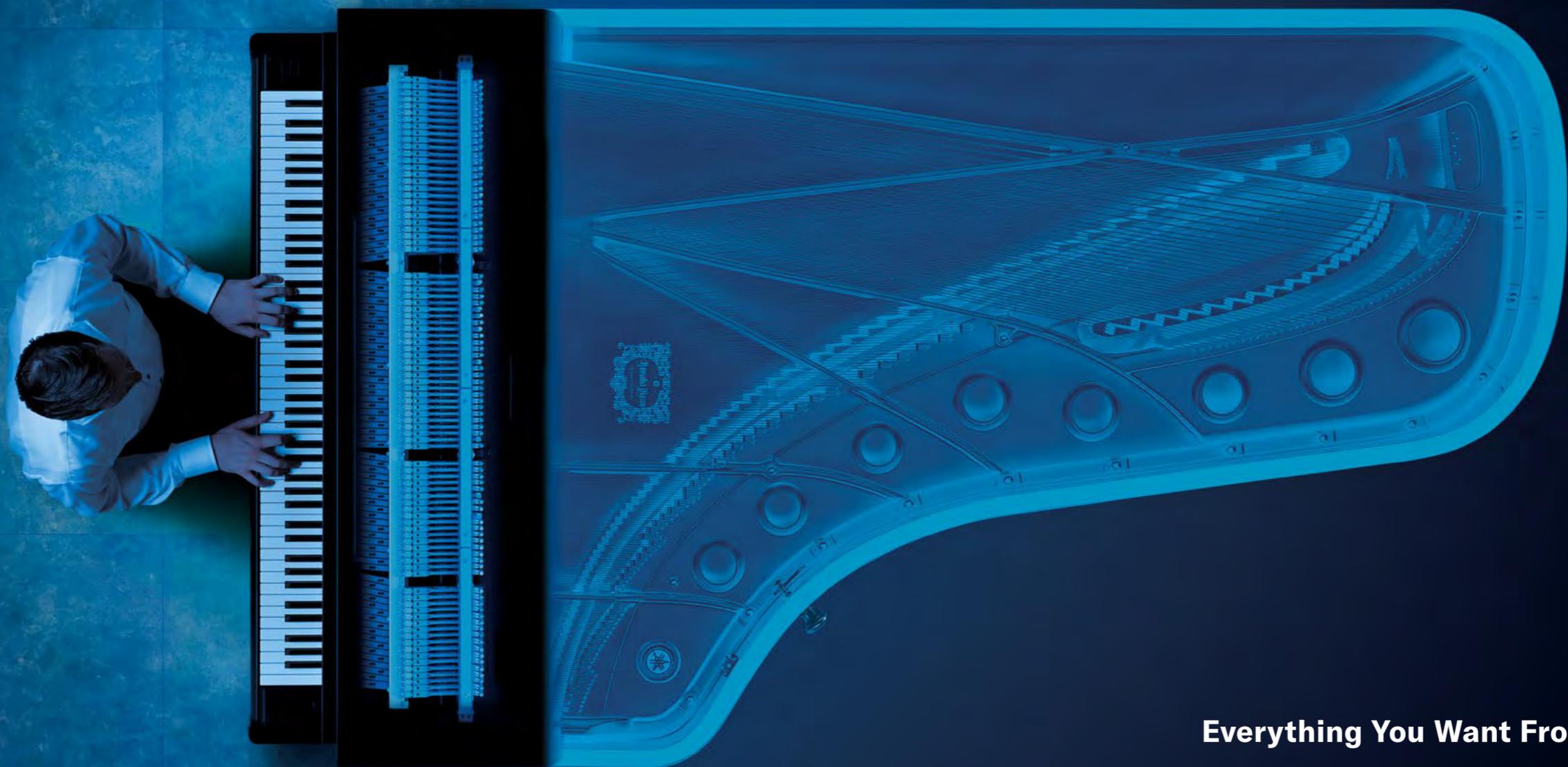


 **YAMAHA**  
*Make Waves*



**AVANT GRAND**  
Yamaha Hybrid Piano

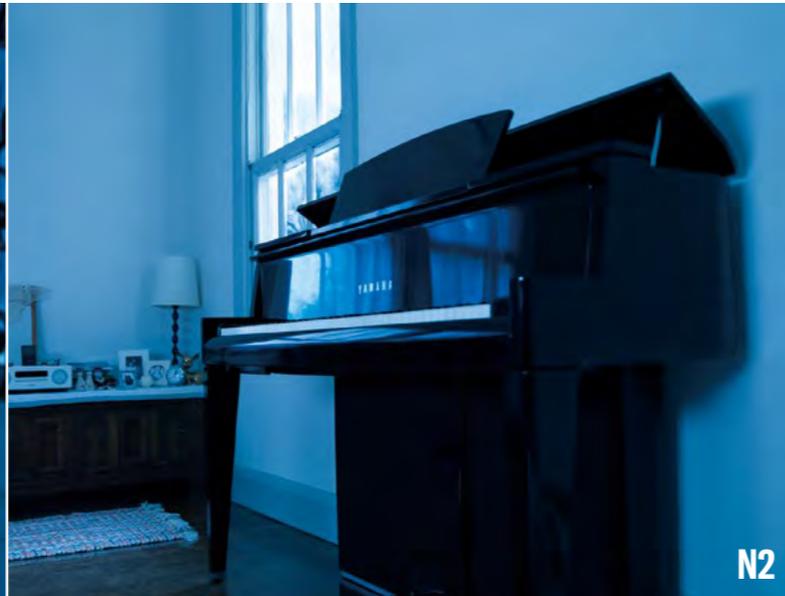


**Everything You Want From An Acoustic.  
Everything You Need In A Digital.**





N3X



N2



N1X



NU1XA



### 5-YEAR GUARANTEE

Register your new Yamaha AvantGrand digital piano and take advantage of our extended 5-year-warranty.

GET MORE INFO:



### FLOWKEY

Register and enjoy three months of premium access to flowkey: one of the world's most popular apps for learning to play the piano. It's the ideal companion for all those starting or rediscovering their musical journey. Choose your favourite pieces from a wide range of interactive songs and start playing right away or take advantage of the many tutorials.

GET MORE INFO:



Hybrid pianos that don't settle for acoustic approximations, an AvantGrand equals a true acoustic experience. A seamless unity of refined technologies and acoustic elements – modern, classic and unmistakably Yamaha.

## The Ultimate AvantGrand N3X

Innovative digital technologies meld seamlessly with traditional acoustic craft to create a dynamic piano experience that offers the best of both worlds.

The AvantGrand N3X exceeds all expectations by offering the touch, tone and beauty demanded by even the most discriminating pianists.



## Contoured Elegance

# N2

With a design inspired by the curved lines of a grand piano, the N2 features the same action as our renowned acoustic grands. Housed in a modern and elegant form, the N2 offers an authentic touch and resonance that will enhance any performance.



Inspired Simplicity

# N1X

Featuring the authentic sound and action that is consistent throughout the AvantGrand series, the N1X offers the allure of a real grand piano experience in a simple, stylish package.





# Features of the N3X, N2, and N1X

## An authentic grand piano action with wooden keys

To express yourself musically, you need to form a physical bond with your instrument. In the case of the new series, it starts with the keys. Real wooden keys with a comfortable touch, thanks to Ivorite® keytops\* that look and feel just like natural ivory. The AvantGrand then utilizes a real acoustic grand piano action that is inherited from our esteemed concert grand pianos. Beneath your fingers you sense the same precise weight and responsiveness, the same scope for expression and refinement.

\* Ivorite®, which is used on Yamaha grand pianos, is available on the N3X and N2.

## Replicating the subtle pedaling style of grand pianos

In developing the AvantGrand, we set out to reproduce as faithfully as possible the sensations of a grand piano's pedals. The resulting pedals give you the scope to play music how it was meant to be played, while also offering the responsiveness to play more impressionistic pieces that require a lot of half-pedaling.

Featured on the N3X



## A sensor system that reads the performer's intentions accurately

To capture every nuance of your performance, the AvantGrand employs a non-contact optical sensor system that doesn't affect the feel or performance of the action in any way. Under each key is a continuous optical sensor that captures the speed and depth at which that key is depressed. An additional optical sensor affixed to each hammer shank measures the timing and strength of the hammer hitting the virtual strings. This information is instantly translated into a beautifully authentic reproduction of sound. The more you play, the more you find yourself becoming one with the piano.

## A revolution in acoustic piano sampling and sound reproduction

The AvantGrand series takes a unique approach to reproducing the sound of an acoustic grand piano. When capturing the original sounds from a specially selected full concert grand, Yamaha technicians took samples from four different positions across the soundboard: left, right, center, and rear. Compared to conventional left-and-right channel (stereo) recording, this yielded wonderfully rich and authentic results.

To make the most of this four-channel sampling process, AvantGrand pianos employ our Spatial Acoustic Speaker System — a four-point speaker configuration that allows AvantGrand pianos to deliver faithful three-dimensional recreations of the original instruments. For the N3X, speaker placement mirrors the four recording positions on the sampled piano.

## Natural resonance created with innovative soundboard resonator technology

In addition to the four-channel Spatial Acoustic Speaker System, the N3X features a flat-panel Soundboard Resonator located beneath the music rest and spanning the width of the instrument. This component allows for a more subtle reproduction of the buildup of sound that you feel when playing an acoustic grand piano. It works by using an oscillating transducer to transmit vibrations to the flat-panel soundboard, giving a realistic sound response that is especially evident in the upper key range.



## Tactile Response System recreates the physical sensation of piano vibrations

When you play an acoustic piano, the entire instrument resonates. You feel it subconsciously, through your feet on the pedals and through your fingers on the keyboard. It's this subtle physical sensation that Yamaha Tactile Response System (TRS) works to recreate. Even if you're wearing headphones, you can use TRS to enhance the realism of the playing experience.

Featured on the N3X and N2

## A fully immersive headphone experience

Thanks to Yamaha advanced binaural sampling\* technology, the sound you hear through your headphones is remarkably lifelike. This technology uses piano samples recorded by specialized microphones that mimic the interaural characteristics of the human ear. This unique approach allows the AvantGrand to recreate the perceived acoustic sound only experienced when seated in front of a concert grand piano. The resulting sound is so natural, so enveloping, that you'll soon forget you're even wearing headphones at all.



\* Binaural sampling is available for the N3X and N1X (CFX Grand Voice only).

## Intelligent UX and integration

Behind its simple control panel, the N3X hosts an abundance of connectivity options for maximum functionality and integration with external devices. It can be connected directly to computers and mobile devices, sound and recording systems via audio cables, act as a Bluetooth® receiver, and integrate with apps.

Featured on the N3X and N1X.



## Upright Style, Grand Spirit **NU1XA**

Responding to your musical desires: The real action of an acoustic piano is combined with state-of-the-art technology, evoking a grand piano-inspired experience.



NU1XA PE

NU1XA PWH



### **PREMIUM DELIVERY**

Yamaha places the highest value on quality, reliability, and customer service. Enjoy more convenience and let our carefully selected partners deliver and set up your new Yamaha AvantGrand digital piano.

# Features of the NU1XA

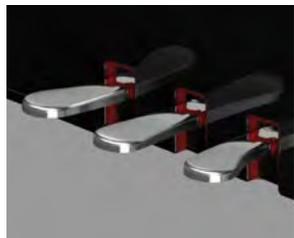
## Natural touch with acoustic piano action

The NU1XA utilises a complex and elaborate upright piano action mechanism that transmits the delicate movements of the keys to the hammer. It responds accurately to the subtlest nuances and expressive intentions of the player, including delicate performance techniques such as trills and continuously repeated notes. In addition, the keyboard is made of wood, just as with an acoustic piano, providing a solid, natural response.



## GrandTouch™ pedals for even broader performance range

The damper pedal on a grand piano responds with slightly different resistance to the player's foot, depending on when the pedal is pressed, when it begins to have effect, and when it is held down. Skilled players generally pedal while feeling these subtle differences in resistance, and add their own delicate variations to the tone and sound. Moreover, when the pedal is released, there is a different change in resistance than when being pressed. The GrandTouch™ Pedals feature adopts

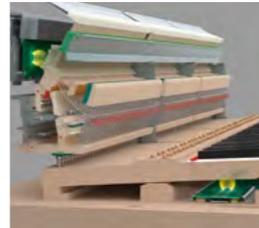


a fulcrum structure similar to that of a grand piano, delivering the same expressive and familiar pedal-pressing feel, and further expanding the performance range.

## Remarkably detailed expressiveness with the Yamaha articulation sensor system

The NU1XA features our newly developed Articulation Sensor System, which accurately and continuously captures the pianist's subtlest performance nuances, through non-contact electromagnetic sensors and Yamaha's proprietary algorithm. This system utilises two separate sensors on each key: one for the hammer—the most crucial part of the acoustic piano sound mechanism—and the other for the key itself, to precisely measure the movement of finger release and articulate exactly the special nuances when the sound stops.

Together, they fully capture the most delicate expressions of the player.



## Resonance that fills a performance space like a grand piano

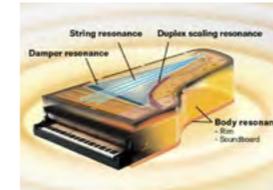
The NU1XA employs a new sound system. It features upward-facing woofers that deeply resonate throughout the instrument and tweeters with a newly designed horn structure that resonate in the high frequencies with the front and back of the instrument. Together with these synergistic resonance effects, the tonal quality and sound projection gives the player meticulous real-time



control over the sound as they perform, resulting in an amazingly realistic grand-piano-like sound that expands three dimensionally throughout the performance space.

## Virtual resonance modeling for sonically reproducing the entire physical presence of a grand piano

Virtual Resonance Modeling (VRM) technology faithfully reproduces the extraordinarily complex resonances in a grand piano that are created by the sympathetic vibration of the strings and soundboard. These sympathetic tones are added corresponding to the timing and intensity of your keystrokes and pedaling—expanding your palette of tonal colors for even greater expressive variety.



## Grand expression modeling technology for expressing even the minutest nuances in tone and resonance

Acoustic pianos have an intricate assembly of internal mechanisms, including hammers, dampers, and strings, that elaborately interact with each other as they respond to the delicate variations in the player's touch. Grand Expression Modeling technology accurately simulates this complex interplay between player and instrument, reproducing the same limitless tonal variation of a grand piano. In addition to using your finger strength for expression, from playing a key to releasing it, you can also craft changes in timbre according to the speed and depth with which the keys are pressed—providing the enjoyment of a full-fledged



performance where all the fine nuances you envision as you play are perfectly reproduced.

## Sophisticated design that embodies the profound elegance of a grand piano

By incorporating graceful curves from the side arms to the legs, the NU1XA evokes timeless beauty while radiating the elegance of an acoustic piano. Moreover, the height has been reduced allowing you to bring it into virtually any room without feeling cramped or confined. The shiny, mirrored key stop rail beautifully reflects your hands and the keys in the same way as a grand piano, adding a sumptuous visual presence and enhancing your performing pleasure.



## Even more musical fun with smart device apps and Bluetooth® connectivity

Download the free Smart Pianist app to your smartphone or tablet, connect it to the NU1XA via Bluetooth®, and then enjoy the powerful functions and intuitive control you have over the various features and operations of the instrument—all while looking at your smart device's screen. You can select the built-in Voices while seeing realistic illustrations of each instrument,



as well as use the metronome and tuning controls with greater ease. The NU1XA is also compatible with Bluetooth® Audio. Wirelessly connect your smart device to the instrument and enjoy playing along with song data that streams from the device.

## Top artists praise the AvantGrand

The AvantGrand is the next step in the evolution of piano

### Francesco Tristano

#### How did you feel when you first sat down and played the AvantGrand?

The first thing I noticed was the richness of the overtones. I could see that the technology has really advanced in the past few years. I was curious about how the piano works in terms of the overtones, and what makes it seem so natural, so acoustic, and so organic. The sound comes from within. It's not a superficial sound — it's a very deep sound. The first time I actually played the AvantGrand, my immediate sensation was that I knew this touch — it was the piano I've been playing all my life. Over the years, I've always been struck by the quality of Yamaha pianos. So it was no surprise to me that Yamaha would make something so perfect.

#### Imagine you had an AvantGrand. Where would you like to play it and how would you like to use it?

I could find lots of ways to use it. I'd definitely use it as a practice instrument, because it's really incredible. But I don't want to say it's just a substitute, because it's really much more than that. I'd put it in the living room so that family and guests could play it, and so we could have live music in the house. At live shows, when you put a piano through a P.A. system to be amplified, there's a lot of feedback. But this instrument would be ideal in situations where you can't control the environment — for example, in large halls or open-air spaces.

I'd also like to try recording with it in a studio. Normally, when you record with an acoustic piano and you want to get the overall sound of the instrument, you have to set up microphones both near and far from the piano. But you don't need to do that with this piano, since you have a direct line out.

#### Lastly, what kind of potential do you feel the AvantGrand has?

This instrument would be great for my creativity. It would encourage me to find new harmonies, new sounds, and new rhythms, because it's a piano that just makes me want to play it. A wonderful thing about pianos is that they have continued to evolve over the centuries.

I'm fascinated with all things piano-related, and this instrument is another step in the evolution of the piano. The AvantGrand reconciles both the acoustic world and the digital world — or the sampled piano world — in a very convincing and refreshing way. A new form of piano has come to us from the future.

Twenty years ago, this would have been the talk of science fiction. But the future is here now. It's got a futuristic edge to it, which I like.



The AvantGrand N3X is a musical piano for a new musical domain

### Takeshi Kobayashi

On March 11, seven years after the day of the Great East Japan Earthquake, I was afforded the opportunity to play this piano at an event held at Sendai PIT. It was the first time I had performed with just a piano and vocals. I played "Swallowtail Butterfly" by YEN TOWN BAND, and Bank Band's "to U," and when I think back on it I have memories of the feeling and touch of playing a wonderful acoustic piano. The fact that it doesn't need tuning despite these acoustic-like properties makes the AvantGrand N3X simply amazing, and the resonance from the piano's

internal speakers when played in rehearsals without the PA was impressive. I think that in combining digital elements with an evolved analog feeling, the AvantGrand N3X is a musical piano for a new musical domain.



Specifications		N3X	N2	N1X	NU1XA
Keyboard	Number of Keys	88			
	Type	Ivorite®		Acrylic resin	
	Action	Specialized Grand Piano Action for AvantGrand			Specialized Upright Piano Action for NU1XA
Pedal	Number of Pedals	3 (Damper with half-pedal effect, Sostenuto and Soft)			
	Type	Specialized Grand Piano Pedal for AvantGrand	—	GP Responsive Damper Pedal	Grand Touch Pedals with GP Response Damper
Tactile Response System (TRS)		Yes			—
Voice	Tone Generation	Piano Sound	Spatial Acoustic Sampling (Yamaha CFX, Bösendorfer Imperial)	Spatial Acoustic Sampling	Spatial Acoustic Sampling (Yamaha CFX, Bösendorfer Imperial)
		Binaural Sampling	Yes (CFX Grand Voice only)	—	Yes (CFX Grand and Bösendorfer only)
	Piano Effect	VRM	Yes	—	Yes
	Polyphony	256 (Max.)			
Sound	Number of Voices	Grand Piano×5 + E. Piano×3 + Harpsichord×2	Grand Piano×2 + E. Piano×2 + Harpsichord×1	15	28
	Spatial Acoustic Speaker System	Yes			—
	Amplifiers	25 W×4, 35 W×5, 45 W×4, 80 W×2	22 W×10, 80 W×2	30 W×6	(40 W+45 W)×2
	Speakers	(16 cm+13 cm+2.5 cm)×4 (6-5/16"+5-1/8"+1")×4	(13 cm+2.5 cm)×3, (8 cm+2.5 cm), 16 cm×2 (5-1/8"+1")×3, (3-5/32"+1"), 6-5/16"×2	16 cm×1, 13 cm×2, 8 cm×3 6-5/16"×1, 5-1/8"×2, 3-5/32"×3	(16 cm+2.5 cm (dome) with Bidirectional Horn)×2
Soundboard Resonator		Yes			—
Function	Overall Controls	Reverb	Yes		
		Metronome	Yes		
	Transpose	-12			
	Tuning	414.8 - 440.0 - 466.8 Hz (approx. 0.2 Hz increments)			
	Scale	7 types			
Song (MIDI)	Preset songs	10 voice demo songs + 10 preset songs	5 voice demo songs + 10 preset songs	15 voice demo songs + 10 preset songs	50 Classics, 28 voice demo songs + 303 Lesson
	Recording	Number of Songs	10	1	10
		Number of Tracks	1		
USB Audio Recorder	Playback	WAV	—	WAV	
	Recording	WAV	—	WAV	
Connectivity	Headphones	Standard stereo phone jack (x2)			
	MIDI	IN/OUT			
	AUX IN	Stereo Mini	L/L+R, R	Stereo Mini	
	AUX OUT	[L/L+R] [R] (Standard stereo phone jack)			
	OUTPUT	[L][R] (XLR jack)	—		
	USB TO DEVICE	Yes			
	USB TO HOST	Yes	—	Yes	
	Color/Finish	Polished Ebony			Polished Ebony, Polished White
Dimensions: Width×Depth×Height	1,481 mm×1,195 mm×1,014 mm (58-5/16"×47-1/16"×39-15/16") Lid up: 1,734 mm (68-1/4")	1,471 mm×531 mm×1,009 mm (57-15/16"×20-7/8"×39-3/4") With music rest: 1,181 mm (46-1/2")	1,465 mm×618 mm×1,001 mm (57-11/16"×24-5/16"×39-7/16") With music rest: 1,167 mm (45-15/16")	1,501 mm×462 mm×1,024 mm (59-1/8"×18-3/16"×40-5/16")	
Weight	199 kg (438 lb. 12 oz.)	142 kg (313 lb. 1 oz.)	117 kg (257 lbs. 15 oz.)	108 kg (238 lb. 2 oz.)	
Music Rest	Yes (Angle adjustable 35,70 degrees)		Yes		

-AvantGrand series pianos utilize the same piano action as an acoustic piano. Consequently, changes in the environment or the conditions in which these instruments are used may necessitate adjustment or maintenance.  
-Specifications are subject to change without notice. The cabinet colors and finishes in this brochure may appear different than those on the actual products.  
-Depending on the region, a piano bench may not be supplied or may differ from that shown here.

Special thanks to KOKOROISHI.



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YAMAHA CORPORATION

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