



# Yamaha Hybrid Piano

AVANTGRAND N3 N2 N1  
NU1



A blue-tinted image of a Yamaha hybrid piano. The upper portion of the piano is shown in a semi-transparent view, revealing the intricate internal acoustic mechanism, including the strings, hammers, and damper flippers. The lower portion shows the digital keyboard unit with its keys and sensors. The entire piano is set against a dark blue background with a subtle grid pattern.

Acoustic feel with a digital edge.  
Yamaha hybrid pianos give you  
the best of both worlds.

Yamaha hybrid pianos offer you the rich, resonant tone, textured harmonics, and superb touch and response of an acoustic piano, combined with state-of-the-art technology that only Yamaha can provide. With a compact, elegant design, these instruments deliver authentic piano performance in any setting. Experience a piano like no other—experience a Yamaha hybrid piano.



AvantGrand N3



AvantGrand N2



AvantGrand N1



NU1

# AVANT GRAND



A real grand piano that you can play anywhere, anytime. The AvantGrand series features the same action used in Yamaha's renowned grand pianos, combined with cutting-edge technology that allows you to experience grand piano performance at any volume. Whether it's the compact N1 with its authentic grand piano feel, the sleek style of the N2, or the outstanding power and playability of the N3, the AvantGrand series offers the genuine experience of playing a grand piano, wherever, and whenever you need it.

Thanks to a specially designed grand-piano action and a wooden keyboard, the AvantGrand truly becomes an extension of your body as you play.

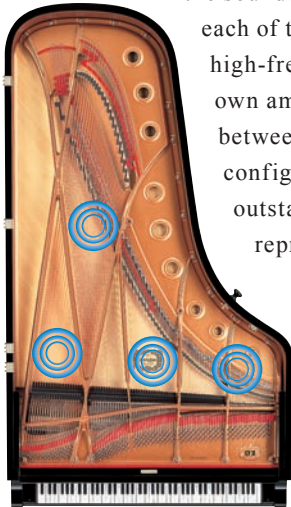
The nuanced touch and response of the grand piano are an essential standard yardstick for piano quality. It offers the player a specially-developed grand piano action that features the same configuration as the action of a real grand. The hammers strike the "strings" from underneath, allowing minute adjustments to the weight distribution of the hammers, and to the movement of the hammers themselves, for a smoother feel when playing. In addition to a hammer sensor, this instrument employs a non-contact key sensor that has no effect on the movement of the keys, affording excellent recognition of the player's pressure on the keyboard, timing, and the other delicate nuances that affect musical expression. This combination provides an impressive sensitivity for the entire range from pianissimo through to fortissimo, and the ability to translate even the swiftest trills of the pianist with transparency. The wood construction of the keyboard mirrors that of the grand piano, and features New Ivory II on the white keys. This is a unique material developed by Yamaha, with a texture superbly close to that of natural ivory, allowing you to play swift passages with ease while also offering a sure response for slower pieces.



Unique acoustic-sampling approach and speaker system born of a radical rethink of the entire sound production process.

With the introduction of the AvantGrand, Yamaha ignited a revolution in the approach to sampling recording and playback of the notes of the actual acoustic piano. Treating the soundboard not simply as a point source of sound but as a plane, we took samples at four positions, adding optimum center and rear locations to the traditional left and right. As a sound source, we carefully selected the best single instrument from among our CFIIIS full concert grand pianos for sampling. The end result of these efforts is that AvantGrand series instruments recreate the original sound of a superb grand piano almost to perfection. Meanwhile, the AvantGrand's speaker system has been designed to ensure that this sound is heard best at the playing position. A three-way system featuring woofer, mid-range and tweeter speakers reproduce the rich natural resonance of

the soundboard accurately. What's more, each of the low-, mid-, and high-frequency bands has been given its own amplifier to prevent interference between bands. This innovative configuration allows the instrument's outstanding sound system to reproduce the nuances of each individual note. For even greater sonic accuracy, the speakers of the N3 duplicate the original sampling positions, while the N1 and N2 feature speaker layouts optimized for the size of the instruments.



The Tactile Response System (TRS) recreates the sensation of piano body vibration.

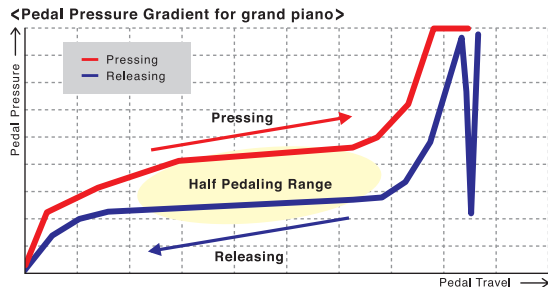
The sound of an acoustic piano resonates throughout its entire body. The bass range in particular is an essential part of the reverberation that is continually transmitted to a player's body. In the AvantGrand, this is replicated by our newly-developed Tactile Response System (TRS) that focuses on reproducing reverberation. This system features two transducers in the soundboard, the area underneath the keyboard, resonating natural reverberation throughout the entire instrument. The player receives the natural sound felt from hands touching on the keyboard and feet depressing the pedals; the epitome of real piano playing. This system can be turned on and off, and the vibration set to one of three levels. (Only for N3, N2)



Pedals specially designed to replicate the subtle pedaling unique to grand pianos.

Light to the touch at first, with subtle firmness partway through its travel, and lightening again as the player pushes further; the pedals of the grand piano have subtly different stages that can be felt when the pedal is depressed.

Skilled players take advantage of these pedal movements by using extremely delicate pedaling that allows them to achieve finely nuanced expression in their play. In developing this instrument, we set out to reproduce the sensations of a grand piano's pedals as faithfully as possible. The resulting pedal allows for music as you believe it should sound, equally responsive for more impressionistic pieces that require a lot of half-pedaling.



The Soundboard Resonator precisely emulates the way in which the instrument reacts to the sound of hammer hitting string.

In addition to the four-channel multi-speakers, the AvantGrand also features a flat-panel "Soundboard Resonator" where the music stand would be when laid flat, allowing a more subtle reproduction of the buildup of sound felt by pianists when playing a grand piano. An oscillator called a "transducer" transmits vibration to the flat-panel soundboard, giving a realistic sound response that is especially evident in the higher range. (Only for N3.)



The ultimate AvantGrand

# N3

Touch, pedal feel, reverberation, and resonance; all crucial elements that allow the N3 to meet the demands of even the most discriminating of pianists. The flagship of the AvantGrand series, the N3 delivers performance that is sure to satisfy.







Contoured elegance

# N2

With a design inspired by the curving lines of a grand piano, the N2 features the same action as Yamaha's renowned acoustic grands, housed in a compact, elegant form. The N2 offers the assurance of authentic, natural touch and resonance that will enhance any performance.





Inspired simplicity

N1

Featuring the authentic sound and action that is consistent throughout the AvantGrand series, the N1 offers the allure of a real grand piano experience in a simple, stylish package.





# NU1

With a stylish form that complements any setting, the compact, lightweight NU1 delivers the authentic feel of playing an upright piano, while freeing you from the disadvantages of owning and maintaining an acoustic instrument. Yamaha's state-of-the-art digital technology brings you the superb sound of Yamaha's finest concert grand piano, minus the worry of issues such as tuning and volume control.



## The superb natural feel of a real piano action

The touch and feel of a piano is vitally important to any pianist, whether they're just starting out or playing at a professional level. The NU1 delivers an authentic playing experience that is almost indistinguishable from that of an acoustic piano. With the same action and natural wood keys as used in Yamaha's finest upright pianos, the NU1 offers a realistic feel that is sure to inspire.



## Experience the stunning sound of Yamaha's premier concert grand piano in the comfort of your home

The NU1 features sound carefully sampled from one of the finest instruments that Yamaha has ever made—the CFX full concert grand piano. To complement its sparkling highs and full-bodied bass, the NU1 utilizes newly-developed acoustic technology unique to Yamaha to reproduce the characteristic resonance felt when playing an acoustic piano.



## An elegant complement to any room

The elegant simplicity of the NU1 blends effortlessly into any setting, adding an air of distinction without being imposing. Inheriting the superb sound and playability of the AvantGrand series of pianos, the NU1 offers the warmth and natural presence of an acoustic instrument in a stylish, compact form.



## Keep your playing polished with USB recording

Nothing helps you to improve more than taking a step back and listening to yourself play. The NU1 comes equipped with a USB audio recorder that allows you to get the most out of your practices by recording them to USB memory for use as a tool to monitor your progress. You can even make CDs of your practices or load them onto a portable music player to listen to.



## The authentic feel of a grand piano pedal

The NU1 features a damper pedal that recreates the subtle changes in resistance experienced when using a grand piano pedal. What's more, the NU1's damper pedal allows you to use the same half-pedal techniques that you would with a grand piano, offering detailed control over sustain and reverberation.

Everything you want in  
an upright piano

# NU1

A new take on a classic standard, the NU1 hybrid upright piano offers an authentic upright piano action, sounds sampled from the CFX concert grand piano, and excellent pedal response, making it the perfect choice for anyone starting out on the piano.







# Top artists praise the AvantGrand

The AvantGrand offers broader horizons for the piano and the pianist.

## Alexander Kobrin



To be honest, when I first saw the AvantGrand in Hamamatsu I didn't really have any great expectations for the instrument. I just thought... "OK, so they've released another digital piano." That changed completely when I actually played it - I could see that this was something very special. It possesses enough potential to be called a real piano. The touch, the sound... even though it's a digital piano it actually feels closer to a grand piano; that is, you can really feel a connection to it as an instrument. A key aspect of playing the piano is that getting the sound you desire requires a certain amount of practice. To put it another way, with practice, the piano allows you to create a certain level of expression. This is just my personal opinion, but generally speaking, acoustic instruments are destined to have individual differences, and, for pianists the first piano they encounter will affect them significantly. That's why I would suggest that this piano, with its fixed, constant standards, might be a better choice when starting out than an acoustic grand piano in anything but perfect condition. I believe the AvantGrand just has that much potential for performance. The fact that such an instrument has emerged means that more people will be blessed with the chance to play the piano. The AvantGrand offers the pianist a truly broader canvas...

With a piano, there are always the concerns of where to put it, its surrounding environment, and the instrument's expressive capabilities as a piano. I hope that when this piano is released to the world and especially to my home city of Moscow, more people will be lucky enough to take the opportunity to experience the piano. Since my father was a piano teacher, I began to learn the piano at the age of five. And before I knew it, it had become a part of my life. I really began to take it seriously when I was about seventeen. It's no exaggeration to say that becoming a pianist was a true gift from god, but I chose to play for much more than just this gift. Playing the piano well is not like a game; it is not something that offers you quick results. Even so, I believe that any rewards gained become an invaluable part of your life. This is not so much performing on stage but sitting at your piano by yourself at home. Even now, I think that such moments are when I am happiest.

The AvantGrand is the best practice piano for any pianist, something never before achieved with a Digital piano.

## Cyprien Katsaris



My history with the piano began when I was about three and a half years old. I started by playing with one finger on a piano bought for my sister. Much later I entered the Paris Conservatoire, and even now, I still sit at the piano every day, and devote myself to hours of concentrated practice. Piano practice takes an extremely long time, but has absolutely no meaning if you don't practice with the correct technique. Likewise, I think that it is also important to choose a good piano. And from that standpoint, I believe that this instrument is an appropriate choice. This time I chose to play Gottschalk's "Banjo," one of the most technically demanding pieces in my repertoire, along with other pieces by Chopin and Schumann that require a rich, profound expressive ability. The fact that I was willing to attempt such pieces on this piano should give you an understanding of just how capable an instrument it is. Of course the action and the touch of the keyboard are both good, but I was very surprised by the depth of its pedaling. It responds well to subtle changes when depressing and releasing the pedals. Of course, the sound quality of the instrument almost goes without saying.

You can discern exactly where the sound is coming from for the entire range from bass right through to treble, just as you can in a grand piano. The design itself is elegant, and lets you feel the sound; a "musical" design if you will. This piano possesses qualities not present in any digital piano thus far, and it would be no exaggeration to say that it has in itself created a new genre of pianos. I would like to advise all of you studying the piano, please, try to play an excellent instrument, and don't waste your time practicing the wrong way. I firmly believe that playing the piano is an artistic act that lifts the spirits of all those who hear you; and an act made possible by the communicative abilities of us as human beings. I think that when I play the piano in front of an audience, more than demonstrating technical perfection, I am communicating with those watching and listening, in a musical, artistic way. For me, the piano is an irreplaceable partner. Music is like my wife. I believe that the piano can become your lover too.

Specifications		AvantGrand			NU1
		N3	N2	N1	
Keyboard	Number of Keys	88			
	Type	Ivorite®		Acrylic resin	
	Action	Specialized Grand Piano Action for AvantGrand			Specialized Upright Piano Action for NU1
Pedal	Number of Pedals	3 (Damper with half-pedal effect, Soft and Sostenuto)			
	Type	Specialized Grand Piano Pedal for AvantGrand	-		GP Responsive Damper Pedal
Tactile Response System (TRS)		Yes		-	
Voice	Tone Generating Technology	Spatial Acoustic Sampling			CFX Sampling
	Number of Polyphony (Max.)	256			
	Number of Voices	Grand Piano×2 + E. Piano×2 + Harpsichord×1			
Sound	Spatial Acoustic Speaker System	Yes			-
	Amplifiers	22W×10, 30W×4, 80W×2	22W×10, 80W×2	25W×1, 30W×5	(40W+40W)×2
	Speakers	(16cm+13cm+2.5cm)×4 (6-5/16"+5-1/8"+1")×4	(13cm+2.5cm)×3, (8cm+2.5cm), 16cm×2 (5-1/8"+1")×3, (3-5/32"+1"), 6-5/16"×2	8cm×3, 13cm×2, 16cm×1 3-5/32"×3, 5-1/8"×2, 6-5/16"×1	(16cm+1.9cm)×2 (6-5/16"+3/4")×2
	Soundboard Resonator	Yes	-		
Function	Overall Controls Reverb	Yes			
	Metronome	Yes			
	Tempo	Yes			
	Transpose	Yes			
	Tuning	Yes			
	Scale	7 types			
Song (MIDI)	Preset songs	5 voice demo songs + 10 preset songs			5 voice demo songs + 50 preset songs
	Recording	Number of Songs	1		10
		Number of Tracks	1		
USB Audio Recorder	Playback	-			WAV
	Recording	-			WAV
Connectivity	Headphones	PHONES×2			
	MIDI	IN/OUT			
	AUX IN	[L/L+R][R]			
	AUX OUT	[L/L+R][R]			
	USB TO DEVICE	Yes			
	USB TO HOST	-			Yes
Color/Finish		Polished Ebony			
Dimensions: Width×Depth×Height		1,481mm (58-5/16")×1,195mm (47-1/16") ×1,014mm (39-15/16") *Lid up : 1,734mm (68-1/4")	1,471mm (57-15/16")×531mm (20-7/8") ×1,009mm (39-3/4") *With music rest : 1,181mm (46-1/2")	1,465mm (57-11/16")×618mm (24-5/16") ×995mm (39-3/16") *With music rest : 1,170mm (46-1/16")	1,501mm (59-1/8")×463mm (18-1/4") ×1,024mm (40-5/16")
Weight		199kg (438lbs., 12oz.)	142kg (313lbs., 1oz.)	120.5kg (265lbs., 11oz.)	109kg (240lbs., 5oz.)
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 region, a piano bench may not be supplied, or may differ from that shown here.



**YAMAHA CORPORATION**  
P.O.Box 1, Hamamatsu Japan

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