



In pursuit of the Grand Piano in everything such sound, touch and action.

Feel and experience a piano sound that you have never had before from this stunning and elegant instrument

With a design embodying the latest in technology, Yamaha signals a new direction for the piano. This, our flagship model, is the ultimate expression of "Innovation with soul." A keyboard and pedals indistinguishable from those of a grand piano. Stunningly authentic tactile response. Speakers with the authority and presence to deliver flawless sound... The AvantGrand N3 weaves advanced technology into an extraordinary design that gives form to Yamaha's aspirations for the future.

- Specialized Grand Piano Action with Ivorite™
- Spatial Acoustic Sampling
- Spatial Acoustic Speaker System
- Soundboard Resonator
- Tactile Response System
- Specialized Grand Piano Pedal

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Specialized Grand Piano Action and Piano Keyboard



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.

Spatial Acoustic Sampling



Together with a variety of piano sounds, this instrument features samples of the actual vibrations from within the soundboard of the instrument. To permit the sound to travel well to the player's position, as it does with a grand piano, we sampled the sound from four locations in the left, right, center, and rear of a grand piano. Sampling from deeper inside the instrument, we were able to reproduce the attraction of the original sound almost perfectly. It was the experience of our engineers, and a reiterative cycle of trial and error conducted with piano tuners that made this success possible. And of course, the samples in this instrument are all taken from a specially-selected example of Yamaha's CFIIIS full concert grand piano.

Spatial Acoustic Speaker System



Opening the lid of the instrument reveals 4 speakers in an impressive and attractive layout. This instrument utilizes a four-channel multi-speaker system, designed in a three-way configuration with the bass woofer pointed down and the treble cones facing up, to allow more natural reverberation in the soundboard. Each of the speakers in this layout is equipped with its own dedicated amplifier, a luxury that reduces the interference in each pitch range and offers more natural expression to the delicate nuances in each sound. Moreover, by using speaker positioning that mimics the positions in the grand piano from which the original samples were taken, it offers a more natural sound to the pianist.

Soundboard Resonator



In addition to the four-channel multi-speakers, the N3 also features a flat-panel "Soundboard Resonator" where the music rest 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.

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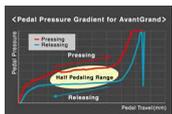
Tactile Response System (TRS)



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. 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's hands on the keyboard transmit the natural sound felt from the feet as they depress 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.

Specialized Grand Piano Pedal



Light to the touch at first, subtle firmness partway through its travel, and lightening again as the player pushes further; the pedals of the grand piano have subtly different stages than 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.

Specificaties

Color/Finish		
Cabinet	Color	Polished Ebony
	Finish	Polished

Specificaties

Size/Weight		
Dimensions	Width	1,481mm (58-5/16")
	Height	1,014mm (39-15/16")Lid up : 1,734mm (68-1/4")
	Depth	1,195mm (47-1/16")
Weight	Weight	199kg (438lbs., 12oz.)

Specificaties

Control Interface		
Keyboard	Number of Keys	88
Pedal	Type	Specialized Grand Piano Pedal
	Number of Pedals	3
	Half Pedal	Yes
Keyboard	Keyboard Action	Specialized Grand Piano Action
Tactile Response System (TRS)		Yes

Specifications

Cabinet		
Key Cover	Soft-Close Fallboard	Yes
Music Rest		Yes

Voices		
Tone Generation	Tone Generating Technology	Spatial Acoustic Sampling
Polyphony	Number of Polyphony (Max.)	256
Preset	Number of Voices	5

Effects		
Types	Reverb	Yes

Songs		
Recording	Number of Songs	1
	Number of Tracks	1
	Data Capacity	300KB (approx. 30,000 notes)
	Recording Function	Yes
Preset	Number of Preset Songs	10

Functions		
Overall Controls	Metronome	Yes
	Tempo Range	5 - 500
	Transpose	Yes
	Tuning	Yes
	Scale Type	7 types

Storage and Connectivity		
Connectivity	Headphones	x 2
	MIDI	In/Out
	AUX IN	L/L+R, R
	AUX OUT	L/L+R, R
	USB TO DEVICE	Yes

Amplifiers and Speakers	
Amplifiers	22W x 10 + 30W x 4 + 80W x 2
Speakers	(16cm + 13cm + 2.5cm) x 4
Spatial Acoustic Speaker System	Yes
Soundboard Resonator	Yes

Power Supply	
Power Supply	AC Inlet