Yamaha AvantGrand Comparison Spec Sheet

N3X | N2 | N1X | NU1X

Yamaha AvantGrand Hybrid Specs	N3X	N2	N1X	NU1X
Piano Sound: Spatial Acoustic Sampling	X	X	X	
Hammer Sensors: Optical Fiber	X		X	
Keyboard Action: Specialized Grand Piano Action	X	X	X	
Spatial Acoustic Speaker System	X	X	X	
Key Surfaces - White: Ivorite	X	X		
Tactile Response System (TRS)	X	X		
Pedal: Specialized Grand Piano Pedal	X	X		
Pedal: GP Responsive Damper Pedal			X	X
Key Surfaces - White: Acrylic Resin			X	X
Connectivity: Standard Stereo AUX IN		X		
Connectivity: XLR Out	X			
Color: Polished Ebony	X	X	X	X
Number of Keys: 88	X	X	X	X
Touch Sensitivity: Hard/Medium/Soft/Fixed	X	X	X	X
Pedal: Half Pedal Effect	X	X	X	X
Soft Closed Fallboard	X	X	X	X
Music Rest	X	X	X	X
Effect Type: Reverb	X	X	X	X
Connectivity: Standard stereo [L/L+R] [R] AUX OUT	X	X	X	X
Connectivity: USB to Device	X	X	X	X
Connectivity: Standard Stereo Phone Jack (x 2)	X	X	X	X
Connectivity: In/Out MIDI	X	X	X	X
Key Sensors: Optical Fiber	X		X	X
Tone Generation: Binaural Sampling	X		X	X
Tone Generation: Key-Off Samles	X		X	X
Tone Generation: Smooth Release	X		X	X
Tone Generation: Virtual Resonance Modeling (VRM)	X		X	X
Effect Type: Intelligent Acoustic Control (IAC)	X		X	X
Effect Type: Stereophonic Optimizer	X		X	X
Storage: External USB Flash Drives	X		X	X
Connectivity: Stereo Mini AUX IN	X		X	X
Connectivity: USB to Host	X		X	X
Power: Auto Power Off	X		X	X
Keyboard Action: Specialized Upright Piano Action for NU1X				X
Piano Sound: CFX/Bösendorfer Imperial Sampling				X

Yamaha AvantGrand Comparison Spec Sheet

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N3X | N2 | N1X| NU1X

701-746-7471

Specifications Sheet		N3X	N2	N1X	NU1X
Cabinet	Color	Polished Ebony	Polished Ebony	Polished Ebony	Polished Ebony/Polished Brilliant White
	Finish	Polished	Polished	Polished	Polished
Dimensions	Width	1,481 mm (58-5/16")	1,471mm (57-15/16")	1,465 mm (57-11/16")	1,501 mm (59-1/8")
	Height	1,014 mm (39-15/16")	1,009mm (39-3/4")	1,001 mm (39-7/16")	1,024 mm (40-5/16")
		Lid up : 1,734 mm (68-1/4")	With music rest : 1,181mm (46-1/2")	With music rest : 1,167 mm (45-15/16")	
	Depth	1,195 mm (47-1/16")	531mm (20-7/8")	618 mm (24-5/16")	463 mm (18-1/4")
Weight	Weight	199 kg (438 lb, 12 oz)	142kg (313lbs., 1oz.)	117 kg (257 lbs., 15 oz)	111 kg (240 lb, 11 oz)
Keyboard	Number of Keys	88	88	88	88
	Key Surfaces - White	Ivorite	Ivorite	Acrylic resin	Acrylic resin
	Touch Sensitivity	Hard/Medium/Soft/Fixed	Hard/Medium/Soft/Fixed	Hard/Medium/Soft/Fixed	Hard/Medium/Soft/Fixed
	Keyboard Action	Specialized Grand Piano Action	Specialized Grand Piano Action	Specialized Grand Piano Action	Specialized Upright Piano Action for NU1X
Tactile Response System (TRS)		Yes	Yes	-	-
Pedal	Type	Specialized Grand Piano Pedal	Specialized Grand Piano Pedal	GP Responsive Damper Pedal	GP Responsive Damper Pedal
	Number of Pedals	3	3	3	3
	Half Pedal	Yes	Yes	Yes	Yes
	Functions	Damper (with half-pedal effect) , Sostenuto,Soft	Damper (with half-pedal effect) , Sostenuto,Soft	Damper (with half pedal effect), Sostenuto, Soft	Damper (with half-pedal effect) , Sostenuto,Soft
Sensor/Driver	Hammer Sensors	Non-contact optical fiber	-	Non-contact optical fiber	-
	Key Sensors	Non-contact optical fiber	-	Non-contact optical fiber	Non-contact optical fiber
Cabinet					
	Key Cover Soft-Close Fallboard	Yes	Yes	Yes	Yes
Music Rest		Yes	Yes	Yes	Yes
Voices					
Tone Generation	Piano Sound	Spatial Acoustic Sampling	Spatial Acoustic Sampling	Spatial Acoustic Sampling	CFX/Bösendorfer Imperial Sampling
	Binaural Sampling	Yes (CFX Grand Voice only)	-	Yes (CFX Grand Voice only)	Yes (CFX Grand Voice only)
	Key-off Samples	Yes	-	Yes	Yes
	Smooth Release	Yes	-	Yes	Yes
	Virtual Resonance Modeling (VRM)	Yes	-	Yes	Yes
Polyphony	Number of Polyphony (Max.)	256	256	256	256
Preset	Number of Voices	10	5	15	15
Effects Types	Reverb	Yes	Yes	Yes	Yes
	Brilliance	5	-	5	-
	Intelligent Acoustic Control (IAC)	Yes	-	Yes	Yes
	Stereophonic Optimizer	Yes	-	Yes	Yes
Recording and Playback					
Preset	Number of Preset Songs	10 preset songs, 10 voice demo songs	10	10 preset songs, 15 voice demo songs	50 Classics, 15 voice demo songs
Recording	Number of Songs	10	1	10	10
	Number of Tracks	1	1	1	1
	Data Capacity	approx. 550 KB/Song	300KB (approx. 30,000 notes)	approx. 550 KB/Song	approx. 550 KB/Song
	Recording Function	Yes	Yes	Yes	Yes
Compatible Data Format	Playback	SMF (Format 0, 1)	SMF (Format 0, 1)	SMF (Format 0, 1)	SMF (Format 0, 1)
	Recording	SMF (Format 0)	SMF (Format 0)	SMF (Format 0)	SMF (Format 0)
Functions					
Overall Controls	Metronome	Yes	Yes	Yes	Yes
	Tempo Range	5 - 500	5 - 500	5 - 500	5 - 500
	Transpose	-6 – +0 - +6	Yes	-6 – +0 - +6	-6 – +0 - +6
	Tuning	414.8 – 440.0 – 466.8 Hz (approx. 0.2 Hz increments)	Yes	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	7 types	7 types
Audio Recorder/Player	Recording Time (max.)	80 minutes/Song	-	80 minutes/Song	80 minutes/Song
	Recording	WAV (44.1 kHz, 16 bit, stereo)	-	WAV (44.1 kHz, 16 bit, stereo)	WAV (44.1 kHz, 16 bit, stereo)
	Playback	WAV (44.1 kHz, 16 bit, stereo)	-	WAV (44.1 kHz, 16 bit, stereo)	WAV (44.1 kHz, 16 bit, stereo)
Storage and Connectivity					
Storage	Internal Memory	approx. 1.4 MB	-	approx. 1.3 MB	approx. 1.5 MB
	External Drives	USB Flash Drive	-	USB Flash Drive	USB Flash Drive
Connectivity	Headphones	Standard stereo phone jack (x 2)	Standard stereo phone jack (x 2)	Standard stereo phone jack (x 2)	Standard stereo phone jack (x 2)
	MIDI	In/Out	In/Out	In/Out	In/Out
	AUX IN	Stereo Mini	L/L+R, R	Stereo Mini	Stereo Mini
	AUX OUT	[L/L+R] [R] (Standard stereo phone jack)	[L/L+R] [R] (Standard stereo phone jack)	[L/L+R] [R] (Standard stereo phone jack)	[L/L+R] [R] (Standard stereo phone jack)
	OUTPUT	[L] [R] (XLR jack, balanced)	-	-	-
	USB TO DEVICE	Yes	-	Yes	Yes
	USB TO HOST	Yes	-	Yes	Yes
Power Supply					
Auto Power Off		Yes	-	Yes	Yes
Power Supply		AC Inlet	AC Inlet	AC Inlet	AC Inlet
Sound System					
Spatial Acoustic Speaker System		Yes	Yes	Yes	-
Amplifiers		80 W x 2 + 45 W x 4 + 35 W x 5 + 25 W x 4	22W x 10 + 80W x 2	30 W x 6	(45 W + 45 W) x 2
Speakers		(16 cm + 13 cm + 2.5 cm) x 4	(13cm + 2.5cm) x 3 + (8cm + 2.5cm) + 16cm x 2	8 cm x 3 + 13 cm x 2 + 16 cm x 1	(16 cm + 1.9 cm) x 2
Soundboard Resonator		-	Yes	-	-