



Specifications & Comparison: ES110 vs Rivals

		KAWAI ES110	YAMAHA P-115	CASIO PX-160	ROLAND FP-30
Keyboard Action	Model	Responsive Hammer Compact	Graded Hammer Standard	Scaled Hammer Action II	PHA-4 Standard
	No. of Sensors	2 sensors	2 sensors	3 sensors	3 sensors
	Velocity Detection	Hammer	Key	Key	Key
	Hammer Position	Back	Back	Back	Front
	Key Surface	Matte	Shiny	Ivory & Ebony texture	Ivory Feel
Sound System	Type	Harmonic Imaging	Pure CF	AiR	SuperNATURAL
	Sound sampling	88-key Stereo Sampling	Stereo Sampling	Stereo Sampling	88-key Stereo Sampling
	Polyphony	192 note polyphony	192 note polyphony	128 note polyphony	128 note polyphony
	Piano source	EX	CFIIIS	?	?
	No. of piano sounds	8 sounds	3 sounds	5 sounds	4 sounds
	No. of total sounds	19 sounds	14 sounds	18 sounds	35 sounds
	Virtual Technician	7 parameters	2 parameters	3 parameters	1 parameter
Effect System	Effect Toggle	Yes	-	Chorus depth only	-
	Rotary Slow/Fast	Triple pedal + Panel	Triple pedal only	-	-
Speaker System	Size	12 cm x 2	12 cm x 2 + 4 cm x 2	12 cm x 2	12 cm x 2
	Power	7 W x 2	7 W x 2	8 W x 2	11 W x 2
	Sound Outlet	Top + Back	Top + Back	Top	Top
	Speaker EQ	Normal, Table, Off	-	-	-
Additional Functions	Lesson Function	Yes, 3 books, 106 songs	-	-	-
	Adjustment app	Sound Museum (iOS, Android)	Digital Piano Controller (iOS)	-	Piano Partner 2 (iOS, Android)
Terminals	Headphones	2	2	2	2
	MIDI	MIDI IN / OUT	USB to Host	USB to Host	USB to Host
	Line Out	Left + Right, 1/4" jacks	Left + Right, 1/4" jacks	Left + Right, 1/4"	-
Pedals	Included pedal unit	F-10H (half-damper)	FC-5 (switch pedal)	SP-3 (switch pedal)	DP-2 (switch pedal)
	Optional triple pedals	F-350 pedal bar (large, metal)	LP-5A pedal bar (plastic)	SP-33 pedal bar (small, metal)	KPD-70 pedal bar (large, metal)
Dimensions	Weight	12.0 kg	11.8 kg	11.6 kg	14.1 kg

 Stronger than Yamaha  Best in class