

Technical Data AX-Series



	A3X	A5X	A7X	A8X
Woofer/Subwoofer	1	1	1	1
Basket ø ^{*3}	120 mm / 4.5"	145 mm / 5.5"	175 mm / 7"	220 mm / 8.5"
Voice coil ø	25 mm / 1"	32 mm / 1.5"	38 mm / 1.5"	38 mm / 1.5"
Cone material	Carbon Fibre	Carbon/Rohacell/Glass	Carbon/Rohacell/Glass	Carbon/Rohacell/Glass
X-ART Tweeter	1	1	1	1
Diaphragm area	2420 mm ² / 4 in. ²	2420 mm ² / 4 in. ²	2420 mm ² / 4 in. ²	2420 mm ² / 4 in. ²
Equivalent diaphragm ø	56 mm / 2"	56 mm / 2"	56 mm / 2"	56 mm / 2"
Velocity transfer ratio	4:1	4:1	4:1	4:1
Diaphragm weight	0.17 g	0.17 g	0.17 g	0.17 g
Built in amps	2	2	2	2
Subwoofer / Woofer ^{*1/2}	25 W / 40 W	50 W / 75 W	100 W / 150 W	150 W / 225 W
Tweeter ^{*1/2}	25 W / 40 W	50 W / 75 W	50 W / 75 W	50 W / 75 W
Controls				
Volume	-∞ to + 14 dB	-∞ to + 14 dB	-∞ to + 14 dB	-∞ to + 14 dB
Tweeter level	± 4 dB	± 4 dB	± 4 dB	± 4 dB
Room EQ > 5kHz	•	± 6 dB	± 6 dB	± 6 dB
Room EQ < 300Hz	•	± 6 dB	± 6 dB	± 6 dB
General Data				
Freq. response	60 Hz - 50 kHz	50 Hz - 50 kHz	42 Hz - 50 kHz	38 Hz - 50 kHz
THD 90 dB/1m > 100Hz	≤ 0.8%	≤ 0.6%	≤ 0.5%	≤ 0.5%
Short time sine wave acoustic output at 1 m from 100 Hz to 3 kHz	≥ 98 dB	≥ 102 dB	≥ 106 dB	≥ 112 dB
Max. peak acoustic output per pair with music	≥ 106 dB	≥ 110 dB	≥ 114 dB	≥ 120 dB
Crossover frequencies	2800 Hz	2500 Hz	2500 Hz	2300 Hz
Input connectors	XLR / RCA	XLR / RCA	XLR / RCA	XLR / RCA
Input impedance	10 kΩ	30 kΩ	30 kΩ	30 kΩ
Weight	4,6 kg / 10.1 lb.	6,6 kg / 14.6 lb.	9,2 kg / 20.3 lb.	13 kg / 28.7 lb.
Magnetically shielded	no	no	no	no
Height x Width x Depth	252 x 150 x 185 mm 10" x 6" x 7.5"	280 x 170 x 220 mm 11" x 6.5" x 8.5"	337 x 201 x 280 mm 13.5" x 8" x 11"	400 x 255 x 320 mm 15.5" x 10" x 12.5"
Warranty	5 years	5 years	5 years	5 years

Technical Data Subwoofer



	Sub 7	Sub 8	Sub10 Mk2	Sub12	Sub20	Sub24	Sub2100
Driver	178 mm / 7"	210 mm / 8.5"	260 mm / 10"	310 mm / 12"	2 x 260 mm / 10"	2 x 310 mm / 12"	543 mm / 21.5"
Voice coil ø	38 mm / 1.5"	38 mm / 1.5"	50 mm / 2"	50 mm / 2"	50 mm / 2"	50 mm / 2"	150 mm / 6"
Cone material	coated paper	coated paper	coated paper	coated paper	coated paper	coated paper	paper
Amp. power RMS / music ^{*1/2}	140 W / 210 W	160 W / 240 W	200 W / 300 W	200 W / 300 W	2 x 200 W / 300 W	2 x 200 W / 300 W	1000 W / 1200 W
Frequency response	32 Hz - 150 Hz	28 Hz - 150 Hz	25 Hz - 150 Hz	22 Hz - 150 Hz	25 Hz - 150 Hz	22 Hz - 150 Hz	18 Hz - 150 Hz
THD >60Hz	≤ 1 %	≤ 1 %	≤ 1 %	≤ 1 %	≤ 1 %	≤ 1 %	≤ 1 %
SPL max in 1m	≥ 107 dB	≥ 110 dB	≥ 113 dB	≥ 115 dB	≥ 118 dB	≥ 120 dB	≥ 128 dB
Crossover frequencies	50 - 150 Hz	50 - 150 Hz	50 - 150 Hz	50 - 150 Hz	50 - 150 Hz	50 - 150 Hz	50 - 150 Hz
Input connectors	XLR / RCA	XLR / RCA	XLR / RCA	XLR / RCA	XLR / RCA	XLR / RCA	XLR / RCA
Input impedance	10 kΩ	10 kΩ	10 kΩ	10 kΩ	10 kΩ	10 kΩ	10 kΩ
Weight	8 kg / 17.6 lb.	12 kg / 26.5 lb.	21 kg / 46.3 lb.	26 kg / 57.3 lb.	38 kg / 83.8 lb.	48 kg / 105.8 lb.	85 kg / 187.4 lb.
Height x Width x Depth	370 x 200 x 280 mm 14.5" x 8" x 11"	410 x 260 x 380 mm 16" x 10" x 15"	560 x 300 x 400 mm 22" x 12" x 15.5"	600 x 360 x 450 mm 23.5" x 14" x 17.5"	560 x 810 x 300 mm 22" x 32" x 12"	600 x 890 x 360 mm 23.5" x 35" x 14"	850 x 600 x 705 mm 33.5" x 23.5" x 28"
Warranty	5 years	5 years	5 years	5 years	5 years	5 years	5 years

*1 = long term IEC 265-8-Wrms / 10 min

*2 = nominal IEC 265-8 = Peak Power 5 µsec

*3 = outer basket dimensions

Technical Data **SX-Series**



	S1X	S2X	S3X-V	S3X-H	S4X-V	S4X-H
Woofer	1	1	1	2	1	2
Basket ø * 3	155 mm / 6"	186 mm / 7.5"	228 mm / 9"	186 mm / 7.5"	310 mm / 12"	228 mm / 9"
Voice coil ø	37 mm / 1.5"	50 mm / 2"	50 mm / 2"	50 mm / 2"	75 mm / 3"	50 mm / 2"
Cone material	HexaCone	HexaCone	HexaCone	HexaCone	HexaCone	HexaCone
Cone midrange	•	•	1	1	1	1
Basket ø * 3	•	•	116 mm / 4.5"	116 mm / 4.5"	155 mm / 6"	155 mm / 6"
Voice coil ø	•	•	25 mm / 1"	25 mm / 1"	37 mm / 1.5"	37 mm / 1.5"
Cone material	•	•	HexaCone	HexaCone	HexaCone	HexaCone
X-ART tweeter	1	1	1	1	1	1
Diaphragm area	2420 mm ² / 4 inch ²	2420 mm ² / 4 inch ²	2420 mm ² / 4 inch ²	2420 mm ² / 4 inch ²	2420 mm ² / 4 inch ²	2420 mm ² / 4 inch ²
Equivalent diaphragm ø	56 mm / 2"	56 mm / 2"	56 mm / 2"	56 mm / 2"	56 mm / 2"	56 mm / 2"
Velocity transform. ratio	4 : 1	4 : 1	4 : 1	4 : 1	4:1	4 : 1
Diaphragm weight	0,17 g	0,17 g	0,17 g	0,17 g	0,17g	0,17 g
Built-in amplifiers*	2	2	3	4	3	4
Woofer * 1/2	200 W / 280 W	250 W / 350 W	250 W / 350 W	2 x 250 W / 350 W	500 W / 700 W	2 x 250 W / 350 W
Midrange * 1/2	•	•	250 W / 350 W	250 W / 350 W	250 W / 350 W	250 W / 350 W
Tweeter * 1/2	50 W / 100 W	50 W / 100 W	50 W / 100 W	50 W / 100 W	50 W / 100 W	50 W / 100 W
Controls						
Input sensitivity (coarse)	±10 dB	-20 to +8 dB (4 dB steps)	-20 to +8 dB (4 dB steps)	-20 to +8 dB (4 dB steps)	-20 to +8 dB (4 dB steps)	-20 to +8 dB (4 dB steps)
Input sensitivity (fine)	•	-1,5 to +2 dB (0,5 dB steps)	-1,5 to +2 dB (0,5 dB steps)	-1,5 to +2 dB (0,5 dB steps)	-1,5 to +2 dB (0,5 dB steps)	-1,5 to +2 dB (0,5 dB steps)
EQ 80 Hz	•	0 to +6 dB (1 dB steps)	0 to +6 dB (1 dB steps)	0 to +6 dB (1 dB steps)	0 to +6 dB (1 dB steps)	0 to +6 dB (1 dB steps)
High shelf > 6 kHz	±6 dB	±4 dB (1 dB steps)	±4 dB (1 dB steps)	±4 dB (1 dB steps)	±4 dB (1 dB steps)	±4 dB (1 dB steps)
Low shelf < 150 Hz	±6 dB	±4 dB (1 dB steps)	±4 dB (1 dB steps)	±4 dB (1 dB steps)	±4 dB (1 dB steps)	±4 dB (1 dB steps)
Tweeter gain	±4 dB	±2 dB (0,5 dB steps)	±2 dB (0,5 dB steps)	±2 dB (0,5 dB steps)	±2 dB (0,5 dB steps)	±2 dB (0,5 dB steps)
General data						
Frequency response	40 Hz - 50 kHz	35 Hz - 50 kHz	32 Hz - 50 kHz	32 Hz - 50 kHz	28 Hz - 50 kHz	28 Hz - 50 kHz
THD > 80 Hz	≤ 1,5 %	≤ 0,8 %	≤ 0,6 %	≤ 0,6 %	≤ 0,6 %	≤ 0,6 %
Short time	≥ 103 dB	≥ 110 dB	≥ 114 dB	≥ 116 dB	≥ 118 dB	≥ 118 dB
Max. peak	≥ 113 dB	≥ 120 dB	≥ 124 dB	≥ 126 dB	≥ 128 dB	≥ 128 dB
Crossover frequencies	2200 Hz	2200 Hz	350 / 2800 Hz	350 / 2800 Hz	280 / 2800 Hz	280 / 2800 Hz
Input connectors analog	XLR	XLR	XLR	XLR	XLR	XLR
Input connectors digital (optional)	•	AES/EBU (XLR) + SPDIF (Cinch) + word clock	AES/EBU (XLR) + SPDIF (Cinch) + word clock	AES/EBU (XLR) + SPDIF (Cinch) + word clock	AES/EBU (XLR) + SPDIF (Cinch) + word clock	AES/EBU (XLR) + SPDIF (Cinch) + word clock
Input impedance	10 kΩ	10 kΩ	10 kΩ	10 kΩ	10 kΩ	10 kΩ
Weight	6 kg / 13.2 lb.	10,8 kg / 23.8 lb.	15,4 kg / 34 lb.	19,6 kg / 43.2 lb.	35,6 kg / 78,5 lb.	32,2 kg / 71 lb.
Magnetically shielded	optional	optional	optional	optional	optional	optional
Height x Width x Depth	295 x 175 x 260 mm 11.5" x 7" x 10"	370 x 220 x 320 mm 14.5" x 8.5" x 12.5"	485 x 281 x 295 mm 19" x 11" x 11.5"	280 x 530 x 320 mm 11" x 21" x 12.5"	690 x 360 x 445 mm 27" x 14" x 17.5"	360 x 700 x 450 mm 14" x 27.5" x 17.5"
Warranty	5 years	5 years	5 years	5 years	5 years	5 years

*1 = long term IEC 265-8-Wrms / 10 min

*2 = nominal IEC 265-8 = Peak Power 5 μsec

*3 = outer basket dimensions

*4 = EQ 80 Hz (Quality/Hz/Level)

Technical Data **SX-Series, S7A Mk2, MP1**



	S5X-H	S5X-V	S6X	S7A Mk2	MP1
Midwoofer / Subwoofer	1 / 2	1 / 1	2 / 2	2 / 2	2 / 1
Basket ø *3	186 mm / 305 mm 7.5" / 12"	186 mm / 305 mm 7.5" / 12"	186 mm / 305 mm 7.5" / 12"	228 mm / 380 mm 9" / 15"	180 / 315 mm 7" / 12.5"
Voice coil ø	50 mm / 75 mm 2" / 3"	50 mm / 75 mm 2" / 3"	50 mm / 75 mm 2" / 3"	50 mm / 100 mm 2" / 4"	38 / 62 mm 1.5 / 2.5"
Cone material	HexaCone	HexaCone	HexaCone	HexaCone / Paper	Ceramic / HexaCone
X-ART Midrange	1	1	2	2	1 ART
Diaphragm area	16800 mm ² / 26 inch ²	16800 mm ² / 26 inch ²	16800 mm ² / 26 inch ²	16800 mm ² / 26 inch ²	16800 mm ² / 26 inch ²
Equiv. diaphragm ø	146 mm / 5.5"	146 mm / 5.5"	146 mm / 5.5"	165 mm / 5.5"	145 mm / 5.5"
Speed transf. ratio	3,5 : 1	3,5 : 1	3,5 : 1	3,5 : 1	3,5 : 1
Diaphragm weight	0,7 g	0,7 g	0,7 g	0,7 g	0,7 g
X-ART Tweeter	1	1	1	1	1 ART
Diaphragm area	2420 mm ² / 4 in. ²	2420 mm ² / 4 in. ²	2420 mm ² / 4 in. ²	2420 mm ² / 4 in. ²	2830 cm ² / 4.5 in. ²
Equivalent diaphragm ø	56 mm / 2"	56 mm / 2"	56 mm / 2"	56 mm / 2"	60 mm / 2.5"
Velocity transform. ratio	4:1	4:1	4:1	4:1	4:1
Diaphragm weight	0,17g	0,17g	0,17g	0,17g	0,17g
Built in amps:	5	4	6	6	4
Subwoofer (1/2)*	2 x 500 W / 700 W	500 W / 700 W	2 x 500 W / 700 W	1000 W / 1400 W 500 W / 700 W	500 W / 700 W
Woofer (1/2)*	250 W / 350 W	250 W / 350 W	2 x 250 W / 350 W	500 W / 700 W 250 W / 350 W	250 W / 350 W
Midrange (1/2)*	250 W / 350 W	250 W / 350 W	250 W / 350 W	250 W / 350 W	250 W / 350 W
Tweeter (1/2)*	250 W / 350 W	250 W / 350 W	250 W / 350 W	250 W / 350 W	250 W / 350 W
Control panel					
Input sensitivity (coarse)	-20 to +8 dB (4 dB steps)	-20 to +8 dB (4 dB steps)	±10 dB	±10 dB	±10 dB
Input sensitivity (fine)	-1,5 to +2 dB (0,5 dB steps)	-1,5 to +2 dB (0,5 dB steps)	•	•	•
EQ 80 Hz	0 to +6 dB (1 dB steps)	0 to +6 dB (1 dB steps)	3 x 0.2-20/20-200/ ±12dB **	3 x 0.2-20/20-200/ ±12dB **	•
High shelf > 6 kHz	±4 dB (1 dB steps)	±4 dB (1 dB steps)	±6 dB	±6 dB	±6 dB
Low shelf < 150 Hz	±4 dB (1 dB steps)	±4 dB (1 dB steps)	±6 dB	±6 dB	±6 dB
Tweeter gain	±2 dB (0,5 dB steps)	±2 dB (0,5 dB steps)	±4 dB	±4 dB	±4 dB
General Data					
Frequency response	24 Hz - 50 kHz	25 Hz - 50 kHz	23 Hz - 50 kHz	20 Hz - 50 kHz	23 Hz - 35 kHz
THD >80Hz	≤ 0,5 %	≤ 0,5 %	≤ 0,5 %	≤ 0,5 %	≤ 0,5 %
Short time sine wave acoustic output at 1 m from 100 Hz to 3 kHz	≥ 121 dB	≥ 118 dB	≥ 123 dB	≥ 128 dB	≥ 116 dB
Max. peak acoustic output per pair with music	≥ 131 dB	≥ 128 dB	≥ 133 dB	≥ 138 dB	≥ 126 dB
Crossover frequencies	200 / 800 / 4000 Hz	160 / 800 / 4000 Hz	85 / 800 / 3100 Hz	65 / 800 / 3100 Hz	80 / 800 / 3100 Hz
Input connectors analog	XLR	XLR	2 XLR	XLR	XLR
Input connectors digital (optional)	AES/EBU (XLR) + SPDIF (Cinch) + word clock	AES/EBU (XLR) + SPDIF (Cinch) + word clock	•	•	•
Input impedance	10 kΩ	10 kΩ	10 kΩ	10 kΩ	10 kΩ
Weight	63,4 kg / 139.8 lb.	44,6 kg / 98.3 lb.	97 kg / 213.8 lb.	261 kg / 575.4 lb.	60 kg / 132.3 lb.
Height x Width x Depth	700 x 700 x 473 mm 17" x 33.5" x 15.5"	830 x 410 x 480 mm 32.5" x 16" x 19"	720 x 940 x 490 mm 28.5" x 37" x 19.5"	900 x 1200 x 670 mm 35.5" x 47" x 26.5"	1600 x 250 x 450 mm 63" x 10" x 17.5"
Warranty	5 years	5 years	5 years	5 years	5 years