



PROFESSIONAL SOUND

ZS - F SERIES

Foreground Music Speaker System

- > Compact box speaker for music and voice paging distribution
- > Octagonal horn design for smooth coverage
- > Adjustable high frequency dispersion (ZS-F2000 series)
- > Extruded cabinet design improves low frequency performance
- > Splashproof design in compliance with IPX4, available on models "BMWP/WMWP"
- > Great variety of brackets available
- > Paintable enclosure and front grille



ZS-F1000B/W

ZS-F1300B/W

ZS-F2000B/W

Model	ZS-F1000B/W	ZS-F1300B/W	ZS-F2000B/W
Rated Input	90W (continuous program)	150W (continuous program)	180W (continuous program)
Rated Impedance	8Ω		
Sound Pressure Level (1W/1m)	87dB	90dB	92dB
Frequency Response	85 - 20.000Hz, -10dB installation in 1/2 free sound field	80 - 20.000Hz, -10dB installation in 1/2 free sound field	65 - 20.000Hz, -10dB installation in 1/2 free sound field
Speaker Component	Low: 10cm cone, High: Balanced dome tweeter	Low: 13cm cone, High: Balanced dome tweeter	Low: 20cm cone, High: 2.5cm dome tweeter
Finish	Enclosure: HIPS resin, black/white; Punched net: Surface-treated steel plate, black/white, paint		
Dimensions	130(W) x 202(H) x 131(D) in mm	162(W) x 250(H) x 161(D) in mm	244(W) x 373(H) x 235(D) in mm
Weight	1.8kg (including the supplied brackets)	3.1kg (including the supplied brackets)	6.5kg (including the supplied brackets)

ZS-F1000BM/WM
ZS-F1000BMWP/WMWP

ZS-F1300BM/WM
ZS-F1300BMWP/WMWP

ZS-F2000BM/WM
ZS-F2000BMWP/WMWP

Model	ZS-F1000BM/WM	ZS-F1000BMWP/WMWP	ZS-F1300BM/WM	ZS-F1300BMWP/WMWP	ZS-F2000BM/WM	ZS-F2000BMWP/WMWP
Rated Input	15W		30W		60W	
Rated Impedance (100V Line)	100V Line: 670Ω(15W), 2kΩ(5W), 3.3kΩ(3W),10kΩ(1W)		100V Line: 330Ω(30W), 1kΩ(10W), 3.3kΩ(3W),10kΩ(1W)		100V Line: 170Ω(60W), 330Ω(30W), 670Ω(15W),3.3kΩ(3W)	
Rated Impedance (70V Line)	330Ω(15W), 670Ω(7.5W), 2kΩ(2.5W), 3.3kΩ(1.5W), 10kΩ(0.5W)		170Ω(30W), 330Ω(15W), 1kΩ(5W), 3.3kΩ(1.5W), 10kΩ(0.5W)		83Ω(60W), 170Ω(30W), 330Ω(15W), 670Ω(7.5W), 3.3kΩ(1.5W)	
Sound Pressure Level (1W/1m)	87dB		90dB		92dB	
Frequency Response	85 - 20.000Hz, -10dB installation in 1/2 free sound field		80 - 20.000Hz, -10dB installation in 1/2 free sound field		65 - 20.000Hz, -10dB installation in 1/2 free sound field	
Speaker Component	Low: 10cm cone, High: Balanced dome tweeter		Low: 13cm cone, High: Balanced dome tweeter		Low: 20cm cone, High: 2.5cm dome tweeter	
Finish	Enclosure: HIPS resin, black or white; Punched net: Surface-treated steel plate, black or white, paint					
Dimensions	130(W) x 202(H) x 131(D) in mm		162(W) x 250(H) x 161(D) in mm		244(W) x 373(H) x 235(D) in mm	
Weight	2kg (including the supplied brackets)		3.6kg (including the supplied brackets)		7.4kg (including the supplied brackets)	
Dust/ Water Protection	-	IPX4	-	IPX4	-	IPX4



Speaker System

Compact Satellite Speaker System

- > Consist of a set of 4 satellite speakers and subwoofer, which are individually fitted with its own mounting brackets
- > The mounting brackets fitted onto the satellite speakers, can be for 1 or 2 speakers installation

ZS-BS301B/W

Model	ZS-BS301B/W
Total Input	120W, channel x 2
Rated Impedance	6Ω, channel x 2
Sensitivity	83dB (Pink noise 330Hz - 3.3kHz; 1W,1M) L channel or R channel only +2 satellite
Frequency Response	40Hz - 20kHz (L or R channel Subwoofer + 2 satellite)
Speaker Feature	Subwoofer x 1pc, Satellite speaker x 4pc
Mounting	Floorstanding, on wall or on ceiling
Input Connector	Push-in terminals
Total Weight	13.9kg (without bracket)
Subwoofer	ZS-FB601B/W Subwoofer
Sensitivity	85dB (1W,1m) (L channel or R channel)
Frequency Response	40 - 190Hz (-10dB below SPL) (L channel or R channel)
Speaker Component	16cm (6") 2-Speaker
Connection	Push in Terminals (8 connected terminal poles)
Feature	
Speaker Cabinet	Particle Board with vinyl black/white
Front Cover	ABS Resin black/white
Speaker Bracket	Steel Plate, black/white paint
Dimensions	210(W) x 390(H) x 563(D) in mm
Weight	11.5kg (without bracket)



ZS-FB601B/W



Model	ZS-F1000B/W
Rated Input	90W (continuous program)
Rated Impedance	8Ω
Sound Pressure Level (1W/1m)	87dB
Frequency Response	85 - 20.000Hz, -10dB installation in 1/2 free sound field
Speaker Component	Low: 10cm cone, High: Balanced dome tweeter
Finish	Enclosure: HIPS resin, black/white; Punched net: Surface-treated steel plate, black/white, paint
Dimensions	130(W) x 202(H) x 131(D) in mm
Weight	1.8kg (including the supplied brackets)
Subwoofer	ZS-FB601B/W Subwoofer
Sensitivity	85dB (1W,1m) (L channel or R channel)
Frequency Response	40 - 190Hz (-10dB below SPL) (L channel or R channel)
Speaker Component	16cm (6") 2-Speaker
Connection	Push in Terminals (8 connected terminal poles)
Feature Speaker Cabinet Front Cover Speaker Bracket	Particle Board with vinyl black/white ABS Resin black/white Steel Plate, black/white paint
Dimensions	210(W) x 390(H) x 563(D) in mm
Weight	11.5kg (without bracket)



Z-2852C

Z-2352C

Z-2352SC



- > Speaker designs that harmonize with the venue's architecture and decor
- > Quick and easy installation and decor new SUS spring clamp installation method
- > Wide frequency response
- > Greater variety of ceiling speaker diameters (4"(10cm), 5"(12cm), 6"(16cm))
- > Thin panel does not clash with interior design

Model	Z-2852C	Z-2352C	Z-2352SC
Rated Input	60W	30W	6W
Rated Impedance (100V line)	170Ω(60W), 330Ω(30W), 670Ω(15W), 3.3kΩ(3W)/ 16Ω,8Ω (low impedance connection)	330Ω(30W), 1kΩ(10W), 3.3kΩ(3W), 10kΩ(1W)/ 16Ω, 8Ω (low impedance connection)	1,7kΩ(6W), 3,3kΩ(3W), 10kΩ(1W)/ 16Ω,8Ω (low impedance connection)
Sound Pressure Level (1W/1m)	91dB	90dB	89dB
Frequency Response	60-20.000Hz	70-20.000Hz	80-20.000Hz
Speaker Component	16cm cone	12cm cone	12cm cone
Finish	Enclosure: Steel plate, plating; Baffle: Fire resistant ABS resin (resin material grade: UL-94V-0 or its eqv), black; Rim: fire-resistant ABS resin; Punched net: white, paint		Baffle: Fire resistant ABS resin (resin material grade: UL-94V-0 or its eqv), black; Rim: fire-resistant ABS resin, white, paint; Dust-proof bag: Artificial fiber, black
Dimensions (φ x D)	280 x 227mm	230 x 229mm	230 x 154mm
Weight	5.1kg	3.7kg	1.5kg

Ceiling Speaker

ZS-FB2862C-AS



Model	ZS-FB2862C-AS
Enclosure	Bass Reflex Type
Rated Input	120W (High Impedance)
Power Handling Capacity	Continuous: 60W(8Ω) (IEC6026-5) Program 120W(8Ω)
Rated Impedance	8Ω / 100V Line: 83Ω (120W), 170Ω(60W), 330Ω(30W), 670Ω(15W), 3.3kΩ(3W)
Sound Pressure Level (1W/1m)	87dB, installation in 1/2 free sound field. (Measured by installing the unit in the center of the ceiling or wall) 81dB(1W,1m) installation in free sound field. (Measured in anechoic chamber)
Frequency Response	60-250Hz(-10dB) installation in free sound field. (Measured by installing the unit in the center of a ceiling or wall)
Speaker Component	Low Frequency: 16cm cone-type
Mounting Hole	φ 250mm(Maximum ceiling thickness: 37mm)
Input Terminal	Removable locking connector with screw-down terminals (2 input terminals and 2 bridge terminals)
Usable Cable	Solid cooper wire: φ 0.5 - φ 1,6mm (equivalent to AWG No.24-14) Stranded cooper wire: 0.2 - 2.5mm ² (equivalent to AWG No.24-14)
Finish	Enclosure: Steel plate, plating Baffle: Fire Resistant ABS resin (UL-94-V-0), black Rim: Fire-resistant ABS resin (UL-94 V-0), white (RAL 9016) Punched Net: Steel Plate, white (RAL 9016), paint
Dimensions	φ 280 x 198(D) in mm
Weight	6.3kg (including mounting accessory)
Option	Anchor hanging bracket: HY-AH1; Tile bar bridge: HY-TB1

Pendant Speaker

ZS-PE64

ZS-PE304

ZS-PJ64

ZS-PJ304

- > Stylish and outstanding design inspired by the finest lighting fixtures
- > Paintable
- > Input impedance easily changeable
- > Ideally suited for BGM and announcement



Model	ZS-PE64	ZS-PE304	ZS-PJ64	ZS-PJ304
Speaker Component	5"(12cm) cone-type	5"(12cm) cone type + balanced dome tweeter	5"(12cm) cone-type	5"(12cm) cone type + balanced dome tweeter
Rated Input (100V line)	6W	30W	6W	30W
Rated Impedance	100V line: 1.7kΩ(6W), 3.3kΩ(3W), 10kΩ(1W)	8Ω 100V line: 330Ω(30W), 500Ω(20W), 670Ω(15W), 1kΩ(10W), 2kΩ(5W)	100V line: 1.7kΩ(6W), 3.3kΩ(3W), 10kΩ(1W)	8Ω 100V line: 330Ω(30W), 500Ω(20W), 670Ω(15W), 1kΩ(10W), 2kΩ(5W)
	70 V Line: 1.7kΩ(3W), 3.3kΩ(1.5W), 10kΩ(0.5W)	70V line: 170Ω(30W), 250Ω(20W), 330Ω(15W), 500Ω(10W), 1kΩ(5W)	70V line: 1.7kΩ(3W), 3.3kΩ(1.5W), 10kΩ(0.5W)	70V line: 170Ω(30W), 250Ω(20W), 330Ω(15W), 500Ω(10W), 1kΩ(5W)
Sound Pressure Level (1W/1m)	90dB	91dB	90dB	91dB
Frequency Response	100 - 18.000Hz	70 - 20.000Hz	100 - 18.000Hz	70 - 20.000Hz
Input Terminal	Push-in terminal		-	
Finish	Enclosure: HIPS resin, off-white. Grille: Surface-treated, steel plate net, off-white, paint			
Dimensions	186 x 251mm		186 x 369mm	
Weight	1.5kg	2.1kg	1.5kg	2.1kg

Garden Speaker

ZGS-301

Garden Speaker satisfies the requirements for a stylish and attractively designed speaker that can be installed in a variety of demanding environments that pose considerable difficulties for conventional speakers. Blending wells into the surrounding of various locations, the ZGS-301 offers highly reliable performance that is fully satisfies the IPX4 requirements for environments with exposure to water.



Model	ZGS-301
Enclosure	Sealed Type
Rated Input	30W (100V line), 15W (70V line)
Rated Impedance	100V Line: 330Ω (30W), 670Ω(15W), 1kΩ(10W), 2kΩ(5W), 3.3kΩ(3W) 70V Line : 330Ω (15W), 670Ω(7.5W), 1kΩ(5W), 2kΩ(2.5W), 3.3kΩ(1.5W)
Sensitivity	87dB (1W,1m)
Frequency Response	100-8.000Hz
Speaker Component	12cm splash-proof cone-type
Input Terminal	Push-in terminal
Applicable Cable	Solid cooper wire: ϕ 0.8 - ϕ 1,6mm Stranded cooper wire: 0.75 - 1.25mm ²
Water Capability	Equivalent to IPX4
Finish	Top cover and base: FRP resin, dark gray, semi-gloss, paint Speaker panel: ABS resin, dark gray, semi-gloss, paint Legs: Aluminum, dark gray, semi-gloss, paint
Dimensions	ϕ 270 x 335(D) in mm
Weight	2.4kg



Portable Speaker

ZW-S110SD-AS

Model	ZW-S110SD-AS
Speaker	6Ω / 1" tweeter, 4Ω / 10" woofer
Receiver Module	UHF PLL Non-diversity receiver module (2 pc receivers) with 16 user selectable channels (UHF 665-681MHz)
Output Power	70W(RMS)/ 100W(Max) (Class D-Amplifier)
Frequency Response	70Hz - 15.000Hz (+3dB)
Function	CD Player, USB (support up to 32GB); SD/MMC Card (support up to 32GB); Mic input x 2 (phone jack x 1, combination XLR & phone jack x 1); Line input (RCA x1 or phone jack x 1) Mixed Out x 1 (phone jack); External speaker out x 1 (Phone Jack); Tuner Unit x 2 (WTU-Z100)
Charging Time	12V/5Ah (2pcs) Lead acid battery : 6-8 hours 1.2V/1.3Ah Nickel-Metal Hybride battery : 5 hours (for microphone)
Operating Time	Averagely 3-9 hours (depending on volume)
Power Supply	100-240V (90-264V) switching power supply
Rechargeable Battery	12V/5Ah lead acid battery: 2pcs 1,2V/ 1,3 Nickel - Metal Hybride battery: 4pcs (for microphone)
Frame Material	Plastic steel material with water resistance; Panel : Plastic with painting black, grille: Metal with painting black
Dimensions	560(H) x 330(W) x 310 (D)mm
Weight	16.5kg (without microphone)
Accessories	Remote control x 1, AC power cord x 1 (Type C), Hex head wrench x 1, Blank cover x 2, Handheld microphone x 1, Lavalier microphone x 1
Option	Speaker stand: ST-34B



Notes:

*specifications are measured on 220V AC

*the design and specifications are subject to change without notice for improvement

ZS - HS SERIES

- > For mobile or fixed installation, and can be used as a floor monitor
- > 2-way unit system equipped with a large diameter woofer (12"/15") and array speaker
- > Twin input terminal connectors (speakon and screw terminal)
- > A model with a built-in matching transformer, for use in high impedance application
- > A wide variety of optional mounting bracket is available

ZS-HS120B/W
ZS-HS150B/W

ZS-HS1200BT/WT
ZS-HS1500BT/WT



Model	ZS-HS120B/W	ZS-HS1200BT/WT	ZS-HS150BT/WT	ZS-HS1500BT/WT
Power Handling Capacity	Continuous pink noise : 100W, Continuous program: 300W			
Sound Pressure Level (1W/1m)	97dB		98dB	
Rated Impedance	8Ω	8Ω/100V line: 170Ω, 330Ω, 670Ω 70V line: 83Ω, 170Ω, 330Ω, 670Ω	8Ω	8Ω/100V line: 170Ω(60W), 330Ω(30W), 670Ω(15W) 70V line: 83Ω(60W), 170Ω(30W), 330Ω(15W), 670Ω(7.5W)
Frequency Response	80Hz - 20kHz	70Hz - 20kHz		60Hz - 20kHz
Speaker Component	Low: 30cm cone, High: Balanced dome tweeter x 6		Low: 38cm cone, High: Balanced dome tweeter x 6	
Finish	Enclosure: Polypropylene, black or white. Punched Net : Surface-treated steel plate, black or white			
Dimensions	361(W) x 448(H) x 320(D) in mm		451(W) x 560(H) x 400(D) in mm	
Weight	8.5kg	10kg	12kg	14kg

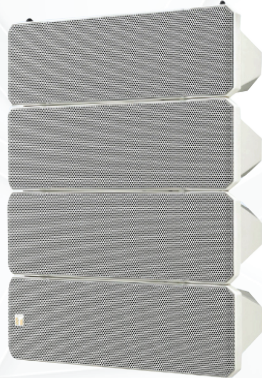
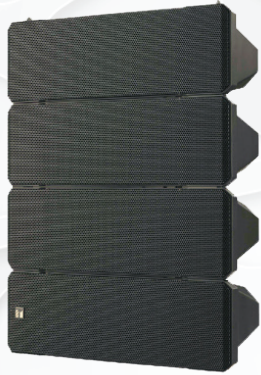




Z-HX SERIES

Variable Dispersion Speaker

Z-7B-HX-AS | Z-7W-HX-AS | Z-7BW-HX-AS | Z-7WW-HX-AS



Model	Z-7B-HX-AS	Z-7W-HX-AS	Z-7BW-HX-AS	Z-7WW-HX-AS
Enclosure	Bass-reflex type		Sealed type	
Power Handling Capacity	Continuous : 250W, Program : 750W			
Rated Impedance	8Ω			
Sound Pressure Level (1W/1m)	100dB			
Frequency Response	75Hz - 20kHz		105Hz - 20kHz	
Crossover Frequency	1.7kHz			
Directivity Angle	Horizontal: 100° ; Vertical: Depending on directivity angle mode			
Speaker Component	Low Frequency: 13cm (5.5") cone-type x 8, High Frequency: Wave front control horn with compression driver x 4			
Input Terminal	Speakon NL4MP x 2 and M4 screw terminal Distance between barriers: 9mm (0.35")		M4 screw terminal Distance between barriers: 9mm(0.35")	
Water Protection	-		IPX4 (Install with the every speaker module tilted downward from the horizontal)	
Finish	Enclosure: Polypropylene, black or white. Punched Net : Surface-treated steel plate, black or white, paint. Hanging bracket: steel plate, t3.0, black or white, paint		Enclosure: Polypropylene, black or white. Punched Net : Surface-treated steel plate, black or white, rust proof coating	
Dimensions	497(W) x 664(H) x 274(D) in mm			
Weight	30kg (66.14lb)			

Z-5B-HX2 | Z-5W-HX2 | Z-5BW-HX2 | Z-5WW-HX2

Model	Z-5B-HX2	Z-5W-HX2	Z-5BW-HX2	Z-5WW-HX2
Enclosure	Bass-reflex type		Sealed type	
Power Handling Capacity	Continuous : 200W, Program : 400W (IEC 60268-5)			
Rated Impedance	8Ω			
Sound Pressure Level (1W/1m)	96dB (60° mode), 97dB (45° mode), 98dB (30° mode), 99dB (15° mode)*			
Frequency Response	70Hz - 20kHz (-10dB) (60° mode), 75Hz - 20kHz (-10dB) (45° mode), 80Hz - 20kHz (-10dB) (30° mode), 85Hz - 20kHz (-10dB) (15° mode)		95Hz - 20kHz (-10dB) (60° mode), 100Hz - 20kHz (-10dB) (45° mode), 105Hz - 20kHz (-10dB) (30° mode), 110Hz - 20kHz (-10dB) (15° mode)	
Crossover Frequency	4kHz			
Directivity Angle	Horizontal: 100° (2kHz or more); Vertical: 60° (800Hz or more), 45° (1,2 kHz or more), 30° (1.6 kHz or more), 15° (3,2kHz or more) variable			
Speaker Component	Low Frequency: 12cm cone-type x 4, High Frequency: Balanced dome-type x 12		Low Frequency: 12cm cone-type x 4, High Frequency: Balanced dome-type x 12, Speaker cord: 2-core cabtyre cord with diameter of 6mm	
Input Terminal	Speakon NL4MP x 2 and M4 screw terminal		-	
Water Protection	-		IPX4 (Install with the every speaker module downward)	
Operating Temperature	-		-15°C to +50°C	
Finish	Enclosure: Polypropylene, black/white ; Punched Net: Surface-treated steel plate, black		Enclosure: Polypropylene, black/white; Punched Net: Surface-treated steel plate, black, rust proof coating	
Dimensions	408(W) x 546(H) x 342(D) in mm			
Weight	16kg			



* Factory-preset : 60° mode

Subwoofers

Z-120BFB



Z-FB152B-AS



Model	Z-120BFB	Z-FB152B-AS
Power Handling Capacity	Continuous pink noise: 200W, Continuous program : 600W	Continuous pink noise: 300W, Continuous program : 900W
Rated Impedance	8Ω	
Sensitivity	90dB (1W, 1m) at installation in free sound field 96dB (1W,1m) at installation in 1/2 free sound field	91dB (1W, 1m), Avg.at 70Hz, 100Hz, 150Hz
Frequency Response	40Hz-1.2kHz(-10dB)	40-400Hz (-10dB) with DP-SP3
Speaker Component	30cm (15") cone-type	38cm (15") cone-type
Input Terminal	Speakon NL4MP x 2 and M4 screw terminal, distance between barriers : 11mm	Speakon NL4MP x 2 and M4 screw terminal
Finish	Enclosure: Wood Punched Net: Surface-treated steel plate, black, paint	Enclosure: MDF, Black, Urethane Paint Punched Net: Surface-treated steel plate, black, paint
Dimensions	408(W) x 408(H) x 450(D) mm	505(W) x 530(H) x 655(D) mm
Weight	15kg	35kg



ZS - S SERIES

Slim Array Speaker

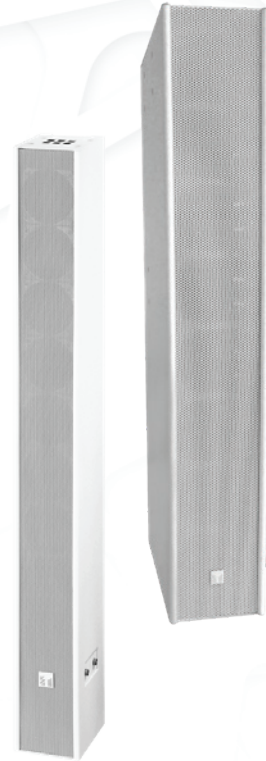
ZS-S60CW

- > 90° horizontal x 0° vertical directivity angle
- > Low and high impedance selectable by rotary switch
- > Stackable up to 2 units for wider coverage

ZS-S240CW-AS

- > 100° horizontal x 5° vertical directivity angle
- > 2-way speaker, with tweeters align
- > Stackable up to 2 units for wider coverage

Model	ZS-S60CW	ZS-S240CW-AS
Type	Bass reflex type	
Max.Input Power	120W	240W
Rated Input	60W	-
Rated Impedance	100V line: 167Ω (60W), 330Ω (30W), 500Ω (20W), 1kΩ(10W); low impedance: 8Ω	8Ω
Sound Pressure Level (1W/1m)	95dB	94dB
Frequency Response	180Hz-15kHz	95Hz-20kHz
Speaker Components	8cm (3") cone-type x 9	Low Frequency: 10cm (4") Cone Type Woofer x 8; High Frequency: 2.5cm (1") Balanced Dome Tweeter x 24
Finish	Enclosure: MDF, paint, white; punched net, wall bracket, side panel; metal cover: SECC, paint, white	Enclosure: White painted, MDF Board Net Grille: White painted, Punched steel plate
Dimensions	100(W) x 883(H) x 130(D) in mm	160(W) x 950(H) x 262(D) in mm
Weight	8.2kg	17kg





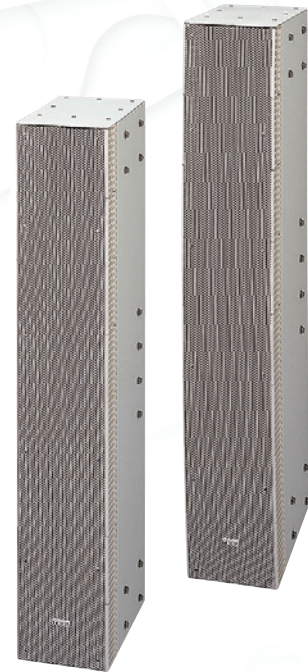
Line Array Speaker

SR-S4S

SR-S4L

- > Outstanding sound quality
- > Application versatility
- > Space/energy efficient design
- > Easy and flexible installation

Model	SR-S4S	SR-S4L
Enclosure	Bass-reflex type	
Power Handling Capacity	Continuous program : 600W (single-amp model), Low: 240W, High: 240W (bi-amp mode)	
Rated Impedance	8Ω (single-amp mode), Low: 8Ω, High: 8Ω (bi-amp mode)	
Sensitivity	93dB (1W, 1m)	94dB (1W, 1m)
Frequency Response	70Hz - 20kHz (when using DP-0206 option)	
Crossover Frequency	3.5kHz	
Directivity Angle	Horizontal : 90°, Vertical : 10°	Horizontal : 90°, Vertical : 0° (within the range of speaker height)
Speaker Component	Low frequency : 10cm cone-type x 8, High frequency : 2.5cm balance dome-type x 24	
Input Connector	M5 screw terminal, distance between barriers: 12.2mm and Neutrik NL4MP x 2 (usable cable connector : Neutrik NL4FC)	
Finish	Enclosure: MDF, white, paint Front Grille: Punched steel plate. white, acrylic paint	
Dimensions	160(W) x 892(H) x 303(D) mm	160(W) x 895(H) x 255(D) mm
Weight	16kg	





Line Array Speaker Systems

SR-A12S

SR-A12L

- > Superior sound quality
- > Effective sound reinforcement
- > Application Versatility
- > Ease of Maintenance

Model	SR-A12S	SR-A12L
Enclosure	Bass-reflex type	
Power Handling Capacity	Continuous program Low frequency: 450W, High frequency: 180W	
Rated Impedance	Low frequency: 8Ω, High frequency: 16Ω	
Sensitivity	Low frequency : 98dB (1W, 1m); High frequency : 109dB (1W,1m)	Low frequency : 98dB (1W, 1m); High frequency : 109dB (1W,1m)
Frequency Response	50Hz - 20kHz (when using the optional DP-SP3 Digital Processor)	
Crossover Frequency	1000Hz (when using the optional DP-SP3 Digital Processor)	
Directivity Angle	Horizontal : 90°, Vertical : 15°	Horizontal : 90°, Vertical : 5°
Speaker Component	Low Frequency: 30cm cone-type High Frequency: Wave front control horn 90° (horizontal) x 15° (vertical) + compression driver x 2	Low Frequency: 30cm cone-type High Frequency: Wave front control horn 90° (horizontal) x 5° (vertical) + compression driver x 2
Input Connector	M5 screw terminal, distance between barriers: 12.2mm and Neutrik NL4MP x 2	
Finish	Enclosure: Plywood, black, paint; Front Grille: Punched steel plate, black, acrylic paint	
Dimensions	740 (W) x 433 (H) x 467 (D) mm	740 (W) x 433 (H) x 469 (D) mm
Weight	47kg (including accessories)	49kg (including accessories)



SR-C8L
SR-C8S
SR-C15B



Model	SR-C8L	SR-C8S	SR-C15B
Enclosure	Bass-reflex type		
Power Handling Capacity	Continuous program : 360W (single amp-mode) Low frequency :360W, High Frequency: 180W (bi-amp mode)		Continuous program: 450W
Rated Impedance	16Ω (single-amp mode) Low Frequency: 16Ω, High Frequency: 16Ω (bi-amp mode)		8Ω
Sensitivity	92dB (1W, 1m) (single-amp mode) Low: 95dB (1W, 1m), High: 110dB (1W, 1m) (bi-amp mode)		93dB (1W, 1m)
Frequency Response	65 - 20,000Hz (when equalized at recommended parameters)		40 - 400Hz (when equalized at recommended parameters)
Crossover Frequency	1,600Hz (when equalized at recommended parameters)		125Hz (when equalized at recommended parameters)
Directivity Angle	Horizontal: 110°, Vertical : 5°	Horizontal : 110°, Vertical : 15°	-
Speaker Component	Low Frequency: 20cm (8") cone type High Frequency: Wave-front control horn 110° (Horizontal) x 5° (vertical) driver x 2 + compression drivers x 2	Low Frequency: 20cm (8") cone type High Frequency: Wave-front control horn 110° (Horizontal) x 15° (vertical) driver x 2 + compression drivers x 2	38cm (15") cone type
Input Connector	M5 screw terminal, distance between barriers: 12.2mm (0.48") and Neutrik NL4MP x 2		M5 screw terminal, distance between barriers: 12.2mm (0.48") and Neutrik NL4MP x 2
Finish	Plywood, black, urethane paint; Punched steel plate, black, paint		
Dimensions	526.6 (W) x 293 (H) x 296 (D) mm	526.6 (W) x 293 (H) x 294 (D) mm	526.6 (W) x 594.8 (H) x 550 (D) mm
Weight	17kg	16kg	41kg

Subwoofer SR-A18B



Model	SR-A18B
Enclosure	Bass-reflex type
Power Handling Capacity	Continuous program: 720W
Rated Impedance	8Ω
Sensitivity	95dB (1W, 1m)
Frequency Response	40 - 400Hz (when using the optional DP-SP3 Digital Processor)
Crossover Frequency	80Hz (when using the optional DP-SP3 Digital Processor)
Speaker Component	Low Frequency: 30cm cone-type High Frequency: Wave front control horn 90° (horizontal) x 15° (vertical) + compression driver x 2
Input Connector	M5 screw terminal, distance between barriers: 12.2mm and Neutrik NL4MP x 2
Finish	Enclosure : Plywood, black, paint ; Front Grille : Punched steel plate, black, acrylic paint
Dimensions	740 (W) x 573 (H) x 698 (D) mm
Weight	66kg (including accessories)



A-5000 Series

Digital Mixer Amplifier

A-5006

A-5012

> 1U-half size compact and simple hardware for easy setting

> Hi/Low - Z speaker connection

> 60W and 120W models



> 2 x mic /line inputs with mute

> Ideal for restaurant, coffee shops, retail shop

Model	A-5006	A-5012
Power Source	100 - 240 V AC, 50/60 Hz	
Rated Output	60W	120W
Power/ Current Consumption	106 W(rated output), 20 W(based on cULus standards) Max. 2 A	207 W (rated output), 39 W(based on cULus standards) Max. 3 A
Frequency Response	50 Hz - 20 kHz (1/8 rated output)	
Distortion	1 % or less (1 kHz, rated output)	
Input	INPUT 1, 2: MIC -60 dB*, LINE -20 dB*, MIC/LINE selectable 2.2k ohms, electronically-balanced, removable terminal block (5 pins) INPUT 3, 4: LINE -20 dB*, 10k ohms, unbalanced, RCA pin jack	
Function	<p>Equalizer: 5 points settable on each input (High-pass filter x 1, Parametric equalizer x 4)</p> <p>High-pass filter: 20 Hz - 20 kHz, 6 dB/oct</p> <p>Parametric equalizer: 20 Hz - 20 kHz, +/-15 dB, Q: 0.267 - 69.249</p> <p>FBS: ON/OFF settable on inputs 1 and 2 (OFF by default)</p> <p>Compressor: ON/OFF settable on inputs 1 and 2 (OFF by default)</p> <p>Threshold, Ratio, Attack time, Release time, and Gain are settable independently on each input.</p> <p>Mute: MANUAL/AUTO/OFF settable on each input (MANUAL by default)</p> <p>Reduction level, Hold time and Fade-in time are settable independently on each input. Trigger threshold is settable independently on input 1. (AUTO)</p> <p>Equalizer: 10 points settable on output. (Through, Low-pass filter, Parametric equalizer, High-pass filter)</p> <p>Low-pass filter: 20 Hz - 20 kHz, 6 dB/oct, 12 dB/oct</p> <p>Parametric equalizer: 20 Hz - 20 kHz, +/-15 dB, Q: 0.267 - 69.249</p> <p>High-pass filter: 20 Hz - 20 kHz, 6 dB/oct, 12 dB/oct</p> <p>Speaker parametric equalizer: 5 points settable on each output</p> <p>20Hz - 20 kHz, +/-15 dB, Q: 0.267 - 69.249</p>	

Output	SPEAKER: 4 ohms, 70 V (83 ohms), 100 V (170 ohms)	Speaker: 4 ohms, 70 V (42 ohms) , 100 V (83 ohms)
SN Ratio	MIC 1, 2: 50 dB or more, LINE 1 - 4: 70 dB or more (A-weighted)	
Control	Mute control, Remote master volume control, Power ON/OFF switch, Ground lift	
Indicator	Power, Signal, Peak, Protect	
Network I/F	100 BASE-TX	
Operating Temperature	0 °C to +40 °C (32 °F to 104 °F)	
Finish	Panel: PS resin, black, Case: Surface-treated steel plate, black. paint	
Dimensions	210 (W) X 52.5 (H) X 375 (D) mm (8.27" x 2.07" x 14.76")	
Weight	3.6 kg (7.94 lbs.)	3.9 kg (8.6 lbs.)



Mixer Amplifier

Digital Mixer Amplifier

ZA-6224D-AS

- > Superior sound quality, easy operation
- > Safe, and reliable system



Model	ZA-6224D-AS
Power Source	220 - 240V AC, 50/60Hz
Power Output	240W x 2 channels (100V, 42Ω, rated output)
Amplification System	Class D, Output transformerless galvanic isolated output
Frequency Response	50Hz - 20kHz, ±3dB (at 1/3 rated output, rated load, from power amplifier input)
Distortion	1% or less (at 1kHz, 1/3 rated output power)
Input	MIC 1: -50dB* (24V phantom powered)/ -60dB* (phantom power OFF) 600Ω, electronically-balanced, φ6.3mm phone jack (3P : balance) MIC 2-4: -66dB*, 200Ω, electronically-balanced, XLR-3-31 type and φ6.3mm phone jack (3P : balance) (either one usable) MIC 5-6: -60dB*, 600Ω, electronically-balanced, XLR-3-31 type and φ6.3mm phone jack (3P : balance) (either one usable) AUX 1: -10dB*, 10kΩ mixed monaural, unbalanced, RCA pin jacks (1pair) AUX 2: -20dB*, 10kΩ mixed monaural, unbalanced, φ3.5mm mini jack (3P: stereo) Power amplifier input: 0dB*, 10kΩ, unbalanced, RCA pin jacks (1 each for ROOM and OUTSIDE outputs)
Output	Speaker Output: 2 zones, 100V(42Ω), galvanic isolated balanced, M4 screw terminal Recording Output: 0dB*, 600Ω monaural, unbalanced, RCA pin jacks (1 pair) Effect Bus Output: 0dB*, 600Ω monaural, unbalanced, RCA pin jacks (1 pair) Preamplifier Output: 0dB*, 600Ω monaural, unbalanced, RCA pin jacks (1 each for ROOM and OUTSIDE outputs)
Phantom Power	ON/OFF switchable for MIC 1 and XLR-3-31 type connectors of MIC 2-6
Signal to Noise Ratio	60dB or less (All volume controls: min)



Z-RC03-AS

Remote Controller

- > Equipped with 2 Ethernet RJ-45 ports.
- > Maximum cable length is 200m (656.17ft)
- > Can be connected by Category 5 twisted pair cable for LAN.



Controls	6 Microphone volume controls, 2 AUX volume controls, 1 ROOM output switch, 1 ROOM volume control, 1 OUTSIDE output switch, 1 OUTSIDE volume control, 1 Effect control (0 to 100%) of Effect bus, 1 Effect preset type selection switch (DOME/HALL/DELAY/PLATE), 1 Effect Room size/Delay time selection switch (OFF/small/middle/large), 1 Effect output selection switch (OFF/ON), 1 MIC 5-6 effect switch, 1 Low EQ control ($\pm 15\text{dB}$, 80Hz) for MIC 1-6, 1 Mid EQ control ($\pm 15\text{dB}$, 2.5kHz) for MIC 1-6, 1 High EQ control ($\pm 15\text{dB}$, 12kHz) for MIC 1-6, 1 Speaker EQ (ZH-5025BM/ZH-652MD) switch for OUTSIDE output 1 Power Switch, 1 Phantom switch for MIC1, 1 Phantom switch for MIC 2-6 (XLR-3-31)
Selectable EQ Setting	8 selectable speaker EQ for ROOM output: 1. ZS-F2000BM/WM/BMWP/WMWP 2. ZS-1030B/W 3. ZS-HS1200BT/WT 4. ZS-HS1500BT/WT 5. ZS-102C/ZS-202C 6. ZS-203/ZS-403/ZS-603CB/CW 7. ZS-S60CW 8. ZS-S240CW + ZT-200
Indicator	SLEEP indicator Output Level meters (2 points, -20dB and 0dB) for ROOM and OUTSIDE Protection indicators for ROOM and OUTSIDE amplifiers Outout indicators for ROOM and OUTSIDE EFFECT indicators for MIC 1-6
Ventilation	Natural air cooling
Operating Temperature	0 to 40°C (32 to 104°F)
Dimensions	420() x 99.8(H) x 360.6(D) in mm (16.54" x 3.93" x 14.2")
Installation Method	Desktop mount, Rack mount with mounting bracket MB-25B (option)
Weight	6.1kg (13.45lb)
Finish	Front Panel: Aluminum, black, alumite ; Case: Steel plate, black, paint

*0dB = 1V

DA-Series

Multi Channel Power Amplifiers

DA-1250D-AS

- > Dual channel digital power amplifier
- > High power - total output of 2500W (4Ω) in a 2U cabinet



DA-1000F-AS

- > Four-channel digital power amplifier
- > High power - total output of 4000W (4Ω) in a 2U cabinet



Model	DA-1250D-AS	DA-1000F-AS
Power Source	100 - 240V AC, 50/60Hz	
Amplification System	Class D	
Power Consumption	1100W*1	2000W*1
Input	CH 1-2: 20kΩ (balanced)/ 10kΩ (unbalanced). 0.775/1.0/32dB*2, XLR-F connector	CH 1-4: 20kΩ (balanced)/ 10kΩ (unbalanced). 0.775/1.0/32dB*2, XLR-F connector
Output	Link CH 1-2: XLR-M connector Speaker 1-2: 2 channels: 700W x 2(8Ω)*3, 1250W x 2 (4Ω)*4 1 channel (BRIDGE): 2500W x 1(8Ω)*3 NL4 SPEAKON connector	Link CH 1-4: XLR-M connector Speaker 1-4: 4 channels: 650W x 4(8Ω)*3, 1000W x 4 (4Ω)*4 2 channel (BRIDGE): 2000W x 2(8Ω)*3 NL4 SPEAKON connector
Frequency Response	20Hz to 20kHz (±3dB)	
S/N ratio	≥100dB	
Finish	Case: plated steel sheet, black	
Dimensions	483(W) x 89(H) x 305(D)	483(W) x 89(H) x 461(D)
Weight	6.1kg	9.2kg

*1 2/3 rated, *2 8Ω/CH ; 0dB = 1V ; *3 The power is tested under the condition of 20ms burst 1kHz sin wave and 1%THD ;

*4 The power is tested under the condition of 40ms burst 1kHz sin wave and 1% THD

DA- 250F
DA- 250FH



DA- 550F
DA- 500FH



Model	DA-250F	DA-250FH	DA-550F	DA-500FH
Power Source	220 - 240V AC, 50/60Hz			
Amplification System	Class D			
Input	4 circuit ,+4dB* (1.23V, input level control in max.position), 10k Ω , electronically-balanced, removable terminal block (3pins), CH 1 mode ON/OFF switch (ON: CH1 to All ch, OFF: Each ch)		4 circuit, +4dB* (1.23V, input level control in max.position), 10k Ω , electronically-balanced, removable terminal block (3pins), XLR -3-31 type connector, CH 1 mode ON/OFF switch (ON: CH1 to All ch, OFF: Each ch)	
Rated Output	4 channels: 250W x 4 (4 Ω), 170W x 4(8 Ω); 2 channels(BRIDGE): 500W x 2 (8 Ω)	4 channels: 250W x 4 (100V line)	4 channels: 550W x 4 (4 Ω), 350W x 4(8 Ω); 2 channels(BRIDGE): 1100W x 2 (8 Ω)	4 channels: 500W x 4 (20 Ω)
Frequency Response	20 - 20.000Hz (\pm 1dB)	50 - 20.000Hz (-3dB, +0dB)	20 - 20.000Hz (-2dB, +1dB)	50 - 20.000Hz (-3dB, +1dB)
THD	0.1% (1kHz) 0.3% (20Hz-20.000Hz)	0.1% (1kHz) 0.3% (100Hz-20.000Hz)	0.1% (1kHz) 0.15% (20Hz-20kHz)	0.1% (1kHz) 0.3% (100Hz-20kHz)
S/N Ratio	100dB (A-weighted)			
Finish	Panel: Aluminum, black, alumite Case: Plated steel sheet			
Dimensions	482(W) x 44(H) x 401.8(D) mm		482(W) x 88.4(H) x 404.2(D) mm	
Weight	6,8kg		9kg	

*0dB = 1V



Mixer Amplifier with MP3

ZA-2120MPU

ZA-2240MPU



Model	ZA-2120MPU	ZA-2240MPU
Source	220 - 240V AC or 24-30V DC	
Rated Output	120W	240W
Power Consumption	124W (AC operation at rated output), 8A (DC operation at rated output)	238W (AC operation at rated output), 15A (DC operation at rated output)
Frequency Response	50 - 20.000Hz (± 3 dB)	
Input	MIC1,2: -60dBV (1.0mV), 600 Ω , Balanced, Phone Jack AUX 1,2: -20dBV (100mV), 10k Ω , Unbalanced, Phone Jack, RCA Pin Jack	MIC1-3: -60dBV (1.0mV), 600 Ω , Balanced, Phone Jack AUX 1,2: -20dBV (100mV), 10k Ω , Unbalanced, Phone Jack, RCA Pin Jack
Output	Speaker Out: Balanced (floating); High Impedance: 83 Ω (100V), 42 Ω (70V); Low Impedance: 4 Ω (22V); Rec Out: 0dBV (1.0V), 600 Ω , unbalanced, RCA Pin Jack	Speaker Out: Balanced (floating); High Impedance: 42 Ω (100V), 21 Ω (70V); Low Impedance: 4 Ω (31V); Rec Out: 0dBV (1.0V), 600 Ω , unbalanced, RCA Pin Jack
S/N Ratio	Over 60dB	
Tone Control	Bass: ± 10 dB at 100Hz, Treble: ± 10 dB at 10kHz	
Dimensions	420(W) x 101(H) x 360(D) in mm	
Muting	MIC1: Mutes other input signal by 0-30dB attenuation	
MP3 Player	USB Slot & SD Card Slot	

*0dB = 1V

CD Player

Z-CD2011R



Model	Z-CD2011R
Power Source	220-240V AC, 50/60Hz
Power Consumption	15W
CD Frequency Response	20 - 20kHz, ± 3 dB
Tuner Receiving Frequency	87.5 - 108MHz (50kHz step)
Audio Input	FM 75 Ω unbalanced antenna terminals, USB port for memory stick (support up to 32GB), SD/MMC card slot (support up to 32GB).
Audio Output	RCA audio output for FM L and R channels, RCA audio output for CD L and R channels, RCA audio output for priority L and R channels
Channels in Memory Tuner	30 channels in total for FM broadcasts
Indicator	CD Player: LED, Tuner FM : LED
Operating Temperature	0°C to + 40°C
Finish	Front Panel : Steel Plate, black color Case : Steel Plate, black color
Dimensions	482(W) x 44(H) x 250(D)mm
Weight	3.6kg (without accessories)



Digital Speaker Processor

DP-SP3



Model	DP-SP3
Frequency Response	20Hz – 20kHz, ± 1 dB
Sampling Frequency	96kHz
Dynamic Range	110dB or more
Distortion	0.03% or less, 1kHz, +4dB* input/output 20Hz - 20kHz BPF
Crosstalk	-80dB or less, 1kHz
Input	2 channels, +4dB* (Max. +24dB*), 10k Ω , electronically-balanced, removable terminal block (3P)
Output	6 channels, +4dB* (Max. +24dB*), applicable load 600 Ω or more, electronically - balanced, removable terminal block (3P)
A/D Converter	24 bits
D/A Converter	24 bits
Equalizer/ Filter	Parametric equalizer: 20Hz - 20kHz, ± 15 dB, Q: 0.267- 69.249 Filter: High-pass filter; 20Hz-20kHz, 6dB/oct, 12dB/oct Low-pass filter; 20Hz-20kHz, 6dB/oct, 12dB/oct Notch filter; 20Hz-20kHz, Q: 8.651- 69.249 All-pass filter; 20Hz-20kHz, Q: 0.267 - 69.249 High-shelving filter; 20-20kHz, ± 15 dB Low-shelving filter; 20-20kHz, ± 15 dB Horn equalizer; 20kHz, 0-18dB in 0.5dB steps

Crossover	2ways, 3ways, 4ways crossover filter: 20Hz-20kHz, 6dB/oct, 12dB/oct, 18dB/oct, 24dB/oct, -15 to +12dB, polarity switchable ; Delay: 0-170.656ms in 0.01ms steps
Compressor	Threshold: -20 to +20dB* in 1dB steps Ratio 1:1, 1.1:1, 1.2:1, 1.3:1, 1.5:1, 1.7:1, 2:1, 2.3:1, 2.6:1, 3:1, 4:1, 7:1, 8:1, 10:1, 12:1, 20:1, ∞ :1
	Attack time: 0.2ms - 5s, Release time: 10ms- 5s
Delay	Delay time: 0 - 682.656ms in 0.01ms steps
Matrix	2x6
Crosspoint Game	$-\infty$ to 0dB in 1dB steps
Function	Input PAD (-14dB) control, analog output attenuator ($-\infty$ to 0dB in 1dB steps) control, EQ characteristic library for TOA Speakers, input/output level indicator (4-point LED indicator), output MUTE switch x 6
Control	
Contact Inputs	4 channel , open voltage 5V DC, short-circuit current: 5mA, removable terminal block (5P), control function: preset memory selection, volume control, and mute
Networks	Network I/F: 1 channel of 10 BASE - T/100 BASE-TX (auto - negotiation), RJ45 connector, connection via switching hub/ Network protocol: TCP/IP/ Connection Cable : Shielded Cat, 5 or higher twisted pair cable for LAN (Cat. 5-STP or better)/ Maximum cable length: 100m (between DP-SP3 and switching hub)

*0dB = 0.775V

M-9000M2 Series Pre Amplifier

M-9000M2

Model	M-9000M2
Power Source	220 - 240V AC, 50/60Hz
Audio Input	Max. 8 channels, modular construction (modules optional)
Audio Output	Preamplifier output 1, 2 : 0dB* ¹ , 600Ω, balanced, removable terminal block (3 pins)
Module Slot	Analog input (slot 1-8): -10dB* ¹ , 10kΩ, unbalance Digital input (slot 1-4): 24bit/ 48kHz MIX output (slot 1-8): -14dB* ¹ , 330Ω (CH1 prefader output), unbalanced Digital output (slot 5-7) : 24bit/ 48kHz Power supply (slot 1 - 8) : +24V, -24V, +6V DC
Digital Audio Signal Reference Level	-20dB FS
Frequency Response	20Hz - 20kHz, +1, -3dB
Total Harmonic Distortion	0.008% (at 22kHz LPF, 1kHz, +10dB* ¹ output)
S/N Ratio	At input short, 20Hz - 20kHz, ALL FLAT or OFF setting Output volume min: 90dB Output volume max: 61dB (input 1 volume: 0dB, other inputs: OFF)
Cross Talk	64dB or more (at 20 kHz)
Tono Control	Bass: ±12dB (at 100Hz), Treble: ±12dB (at 10kHz)
Parametric Equalizer	10 bands, Frequency : 20Hz - 20 kHz, 31 points, Variable range: ±12dB, Q: 0.3 - 5
Speaker Equalizer	10 (setup software has 30 TOA speaker presets)
High-/Low- pass Filter	-12dB/oct, Variable frequency range: 20Hz -20kHz, 31 points
Compressor	Depth: 1-5
Delay	0-40ms (1ms steps), max. 40ms (CH1 +CH2), mixer mode only





Scene Memory	32
Auxiliary Function	Key lock function
Control Input/Output	RS-232C*2, D-sub connector (9P, female) Control input: 4 inputs, no-voltage make contact input, open voltage: 3.3 V DC, short-circuit current: 1mA or less, removable terminal block (14 pins) Control output: 4 outputs, open collector output, withstand voltage: 27V DC, control current: 50mA, removable terminal block (14 pins) Remote volume: 2 channels, connect a 10kΩ/linear taper variable resistor or input the DC voltage of 0 to +10V, removable terminal block (14pins)
Operating Temperature	-10°C to + 40°C
Operating Humidity	35% to 80% RH (no condensation)
Finish	Panel: Aluminum, hair-line, black Case: Surface-treated steel plate, black, paint
Dimensions	420(W) x 107.6(H) x 353(D) mm
Weight	6kg

*1 0dB = 1V

*2 Allowing it to be controlled by a control system such as AMX and Crestron through RS-232C port.

Note: AMX is a trademark of AMX Corporation, Crestron is a trademark of Crestron Electronics, Inc.



M-9000M2 MODULES



D-001T

Dual Mic/Line Input Module with DSP

- > Two Balanced Mic / Line Inputs
- > Digital Signal Processing
 - 10-Band Parametric EQ
 - Bass / Treble • Loudness
 - High and Low Pass Filters • Compressor
- > Adjustable Sensitivity (nine levels, -60 to -10 dBV)
- > Phantom Power (24 VDC)
- > Removable Terminal Block
- > Maximum four per chassis
- > Required for VOX function and input metering D-001T



D-001R

Line Input Module with DSP

- > Two RCA phone inputs per channel provides stereo summing
- > Digital Signal Processing
 - 10-Band Parametric EQ
 - Bass / Treble
 - Loudness
 - High and Low Pass Filters
 - Compressor



AN-001T

Ambient Noise Controller Module

- > Automatically adjusts output gain to compensate for changes in ambient noise level
- > Each input can be assigned to control a specific output
- > Two inputs with +24VDC phantom power for condenser mics
- > 14 preset gain ratios
- > Accessory sensing microphone available, model AN-9001
- > Maximum two per chassis





T-001T

Dual Line Output Expansion Module with DSP

- > Two Balanced Line Outputs
- > Digital Signal Processing
 - 10-Band Parametric EQ
 - Bass / Treble • Loudness
 - High and Low Pass Filters • Compressor
 - TOA speaker EQ presets
- > Removable Terminal Block
- > Maximum three per chassis



C-001T

Input/Output Control Module

- > Eight assignable control inputs for activating Event, Volume Up/Down, Mute, Power On/Off, Emergency Mute or Sync On/Off
- > Eight assignable control outputs for activating external relays
- > Removable Terminal Block
- > Maximum one per chassis

Real-time Steering Array Microphone

AM-1B/1W

- > Unobstrusive desktop design
- > Unprecedented voice-tracking capability
- > Intuitive, trouble-free setting and monitoring



Model	AM-1B	AM-1W
Array Microphone Unit		
Power Source	24V DC (supplied from the control unit)	
Microphone	Unidirectional electret condenser microphone	
Directivity Angle	Horizontal 50° (80Hz - 18.000Hz, Array mode), 180°(Cardioid Mode) Horizontal 90°	
Frequency Response	150 Hz - 18.000z	
Maximum Input Sound Pressure	100 dB SPL	
Operation	Mute switch	
Indicator	Microphone status indicator (output: green, mute: red)	
Microphone Cable	Shielded twisted pair cable 10m (32.81 ft) with connector equivalent to TA-3	
Maximum Cable Length	70 m (229.66 ft) (use of the AES\EBU cable)	
Finish	Body, punched net: Surface-treated steel plate, black, 30% gloss, Side cover: ABS resin black	Body, punched net: Surface-treated steel plate, white(RAL9016 equivalent), 30% gloss, Side cover: ABS resin white (RAL9016 equivalent)
Dimensions	483.9 (W) x 22.1(H) x 64.9 (D) mm (19.05" x 0.87" x 2.56") excluding cable	
Weight	1.2 kg (2.65 lbs.)	

Model	AM-1B	AM-1W
Control Unit		
Power Source	24V DC (supplied from an optional AC adapter) Usable DC power supply plug : 5.5mm (0.22") outer diameter 2.1mm (0.08") inner diameter 9.5mm (0.37") long, and non-polarity type	
Current Consumption	410mA or less	
Signal to Noise Ratio	90dB or more	
Input	Combined type of TA-3 (dedicated to the array microphone)	
Output	Combined type of XLR-3-32, Removable terminal block (3 pins)	
Network	Network I/F: 10 BASE-T/ 100 BASE-TX, RJ-45 connector Network protocol: TCP/IP, HTTP	
Level Control	Output level selection (+4dB ^{*1} , -10dB ^{*2} , -50dB ^{*1}) LOW CUT ON/OFF	
Operation	Power Switch	
Indicators	Power indicator (blue), Mute indicator (red), Signal indicator (green)	
Finish	Pre-coated steel plate, back, 30% gloss	
Dimensions	210 (W) x 45.7(H) x 271.5 (D) mm (8.27" x 1.8" x 10.69")	
Weight	1.5 kg (3.31 lbs.)	
Dedicated Software	Ipad app, PC browser software (for setting or tracking distance/range, sensitivity/speed, mute ON/OFF)	
Operating Temperature	0°C to +40°C (32°F to 104°F)	
Operating Humidity	90% RH (no condensation)	
Accessory	Removable terminal plug (3 pins)	
Option	AC Adapter: AD-246 Rack mounting bracket: MB-15B-BK (for rack mounting one control unit), MB-15B-J (for rack mounting two control units) Wall mounting bracket : YC-850 (for one control unit)	

Digital Wireless Microphone

WM-D5200

- > Lightweight body
- > 3-step battery life indicator
- > Built-in antenna



WM-D5300

- > Ultra slim and lightweight body
- > 3-step battery life indicator
- > Selectable microphone sensitivity



Model	WM-D5200	WM-D5300
Microphone Element	Electret condenser unit: Unidirectional	-
Modulation type	FSK	
Frequency Range	606 - 636MHz, 794 - 806MHz or 794 - 832MHz	
Channel Selectable	160 channels (The number of channel may differ from country to country)	
RF Carrier Power	Less than 50mW	
Maximum Input Level	132dB SPL (Sensitivity:L)/ 122dB SPL (Sensitivity:H)	-18dB SPL (Sensitivity:L)/ -28dB SPL (Sensitivity:H)
Audio Frequency Response	100Hz - 12.000Hz	
Antenna	Built-in-type	Lamda/4 whip antenna
Dynamic Range	Type. 90dB (when used with WT-D5800)	-
ID Selectable	10 patterns	
Battery	WB-2000 rechargeable battery (option) or AA alkaline dry cell battery	
Battery Life	Approx. 8 hours	
Operating Temperature	-10°C to +50°C (except battery)	
Finish	Body: ABS resin, black, coating ; Head: Steel, black, paint	Body: ABS resin, black, paint
Dimensions	φ47 x 239,5mm	CO4/ CO7 ver: 62(W) x 171(H) x 19(D) mm G01 ver: 62(W) x 185(H) x 19(D)mm
Weight	220g (with battery)	90g (with battery)

Digital Wireless Receiver

WT-D5800

- > Frequency channel scan, Feedback suppression
- > Built-in optimized preset equalization in microphones
- > Detachable antenna, Intuitive LCD display
- > Audio mixing with cascading voice input connectivity
- > Antenna mixing with cascading antenna connectivity



Model	WT-D5800
Power Source	AC mains (supplied AC adapter must be used)
Current Consumption	350mA (13.5 V)
Receiving Frequency	606 - 636MHz, 794 - 806MHz or 794 - 832MHz
Channel Selectable	160 selectable frequencies
Receiving System	Double super-heterodyne
Diversity system	Space diversity (digital diversity)
Mixing Output	MIC/LINE (selectable): -60dB* (MIC)/-20dB* (LINE), 600Ω phone jack (unbalanced), 600Ω XLR-3-32 type connector (balanced)
Mixing Input	-20 dB*, 10 kΩ, unbalanced, phone jack
Antenna Input	75 Ω, BNC (phantom powering for antenna), 9V DC, 30mA (max)
Antenna Output	75 Ω, BNC (Gain 0 dB)
Contact Output	1 channel, no-voltage make contact output, withstand voltage: 30V DC, control current 0.5A max terminal block (2 pins)
Receiving Sensitivity	24dBμV or less (Bit error rate: 1E-5 or less)
Antenna Input	Attenuator 0dB/-10dB switchable
Indicator Audio	(5 steps), RF (5 steps), ANT A/B, Audio (peak), Battery alarm
Frequency Response	50Hz - 12.000Hz
Total Harmonic Distortion	0.5% or less
Function	Frequencies scanning, Feedback suppressor, Equalizer (optimizing each compatible microphone)
ID Selectable	10 patterns
Operating Temperature	-10 °C to +50 °C
Finish	Finish Resin, black
Dimensions Weight	210 (W) × 44 (H) × 211.9 (D) mm 730g

*0dB = 1V

Microphone

WM - Series

WM-5270



WM-5265



WM-5225



Model	WM-5270	WM-5265	WM-5225
Source	Dynamic microphone: Unidirectional	Dynamic microphone: Cardioid	Electret condenser microphone: Unidirectional
Rated Output	576-865 MHz* ¹ , UHF		
Channel Selectable	64 channels* ¹		
Maximum Input Level	142dB SPL	132dB SPL	126dB SPL
Battery	LR6 (AA)	LR6(AA) or WB-2000 (Ni-MH battery)	(AA) or WB-2000 (Ni-MH battery)
Finish	Metal, Dark Grey	Resin, coating	
Dimensions	φ48 x 244mm	φ50 x 229mm	φ43.6 x 231.5mm
Weight	340g (with battery)	205g (with battery)	180g (with battery)

*0dB = 1V



Wireless Transmitter

WM-5325



Model	WM-5325
Microphone Element	-
Frequency Range	576 - 865 MHz*1, UHF
Channel Selectable	64 channels*1
Maximum Input Level	-14dB to -29dB (Audio level control: Min. to Max.)
Battery	LR6 (AA) or WB-2000 (Ni-MH Battery)
Finish	Resin, coating (change other's)
Dimensions	62(W) x 102.5(H) x 23(D) mm
Weight	90g (with battery)
Option	Ni-MH battery, WB-2000

Unidirectional Lavalier Microphone

YP-M5300

Model	YP-M5300
Directivity	Unidirectional
Sensitivity	-63dB \pm 3 dB (0 dB = 1 V/0.1 Pa, 1 kHz)
Frequency Response	100Hz - 12kHz
Maximum Input Level	120dB SPL
Cord Length	1.3 m (4.27 ft)
Connector	ϕ 3.5 mm (ϕ 0.14") mini plug
Finish	Dark Black
Weight	20g (0.71oz) (cable included)

YP-M5310

Model	YP-M5310
Directivity	Omnidirectional
Sensitivity	-64dB \pm 3 dB (0 dB = 1 V/0.1 Pa, 1 kHz)
Frequency Response	100Hz - 15kHz
Maximum Input Level	110dB SPL
Cord Length	1.3 m (4.27 ft)
Connector	ϕ 3.5 mm (ϕ 0.14") mini plug
Finish	Dark Black
Weight	20g (0.71oz) (cable included)

Wireless Tuner

WT-5800



WT-5810



Model	WT-5800	WT-5810
Power Requirement	AC mains (AC Adapter must be used)	
Frequency Range	576-865 MHz*1, UHF	
Channel Selectable	64 selectable frequencies	16 channel
Receiving System	True diversity	Space diversity
Mixing Output	MIC: -60dB*2, 600Ω, balanced, XLR -3-31 type connector LINE: -20dB*2, 600Ω, unbalanced, phone jack*	
Mixing Input	-20dB*2, 10kΩ, unbalanced, phone jack	
Antenna	Whip Antenna	Rod Antenna
Antenna Input	75Ω, BNC, 9V DC	-
Receiving Sensitivity	90dB or more	
Squelch Sensitivity	18-40dBμV variable	
Tone Frequency	32.768kHz	
S/N Ratio	110dB or more (A-weight, unbalanced output)	104dB or more (A-weight, unbalanced output)
Harmonic Distortion	1% or less (typical)	
Frequency Response	100Hz-15.000Hz, ±3dB	
Finish	Resin, black	
Dimensions	210(W) x 44(H) x 205.1(D) mm	206(W) x 40.6(H) x 152.7(D)mm
Weight	700g	590g

*1 The number of channels may differ from country to country

*2 0dB = 1V



UHF Wireless Antenna

YW-4500



- > UHF wireless dipole indoor antenna
- > Wall mounted
- > Power supplied by tunner unit (WT-5800/WT-5805/WT-4820) through coaxial cable
- > Built-in RF signal booster
- > Attenuation switch helps minimize noise and any interference



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** Spesifikasi dapat berubah setiap waktu tanpa ada pemberitahuan terlebih dahulu*