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NEW PRODUCTS GUIDE



Since 1975
Shidco

Audio Video Lighting

Conferencing

Intercom

Network
Audio

Mixers

Amplifier

Speakers

Life Safety

Wireless
Microphones



Audio Video Lighting

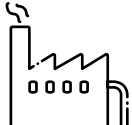
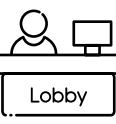
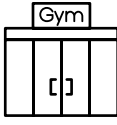
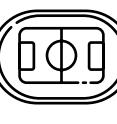
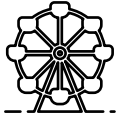
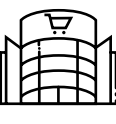
واردات، مشاوره، طراحی و پیاده سازی تجهیزات صوت، نور و تصویر حرفه‌ای



هلدینگ شیدکو

اکنون بالغ بر 30 سال است که هلدینگ شیدکو در زمینه فروش و ارائه خدمات سیستم های تخصصی صدا، نور و تصویر در بازار ایران و منطقه فعالیت می کند و در این راستا نمایندگی رسمی و انحصاری کمپانی های متعددی از نقاط مختلف جهان را بر عهده دارد. تنوع محصولات عرضه شده توسط هلدینگ از یک سو و الزام هلدینگ به ارائه خدمات مهندسی و طراحی از سوی دیگر موجب ایجاد بخش های متنوعی شده است. گارانتی و خدمات پس از فروش از اولویت های هلدینگ شیدکو بوده و خواهد بود.

راهکارهای صوتی برای هر مکان

					سیستم پیچینگ
فروشگاه و هایپر	ساختمان	بیمارستان	کارخانه	فرودگاه و ترمینال	
					سالن همایش و جلسات
سالن همایش	سیستم کنفرانس	مراکز آموزشی	تالار	لابی ساختمان	
					اجرای زنده
باشگاه ورزشی	مسجد و مصلی	هیئت و حسینیه	کافه و رستوران	اجرا زنده و DJ	
					اماکن ورزشی و تفریحی
استادیوم ورزشی	فضای باز	شهربازی و پارک	هتل	مجتمع تجاری	

ایران امپ

یک شرکت زیرمجموعه هلدینگ شیدکو می باشد که به صورت تخصصی خدمات پس از فروش محصولات هلدینگ شیدکو را بر عهده دارد. این شرکت با استفاده از تیمی متخصص، تمام محصولات هلدینگ شیدکو شامل بلندگو، ساب ووفر، آمپلی فایر، میکروفون، ... را گارانتی می نماید.

We Supply Sound, Not Equipment. That's Our Corporate Philosophy.

Since being founded in 1934 as a manufacturer of commercial and professional audio and security equipment, we have exported our products from Kobe to more than 100 other countries throughout the world.

In every country within the TOA group, which consists of the main company and 19 subsidiaries, we utilise the technical expertise and know-how that we have accumulated throughout the years in every aspect of production, from product planning and development, right through to sales and management.

We are constantly improving our technological capabilities in areas such as acoustics, graphics and networks, and developing innovative products in order to provide customers with the ultimate in excellent sound and peace of mind to help make their lives more comfortable.

SOUND

TOA has acquired both ISO9001 quality assurance and ISO14001 environmental management certifications.



JMI-0020
ISO9001
• Head Office
• Takarazuka
Headquarters
• Tokyo Branch
• Osaka Branch



JQA-EM1400
ISO14001
• Takarazuka
Headquarters



Basic Management Policy (Three Confidences)

- Total confidence of our customers in the use of all products
- Total confidence of our associates in all business transactions
- Total confidence of our employees in all their efforts

TOA's Environmental Principles

TOA recognises preservation of the Earth's environment is an important aspect of doing business in the world today. Our entire staff remain actively committed to pursuing all corporate activities in ways that give strong consideration to environmental protection.

Declaration of Social Contribution

TOA voluntarily conducts activities to resolve diverse social issues and contribute to society in general as a 'good corporate citizen' trusted by society. We aim to grow together with society, and become viewed by society as an 'indispensable company,' by effectively using company resources and conducting original activities with a strong awareness of our relationship with 'sound and video' - a business field we specialise in.



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1934

TOA

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TOA

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TOA

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Column Speaker
Digital Mixer Amplifier
Attenuators
Digital Power Amplifier
Microphone
Line Array
Voice Alarm sytem
Digital Matrix Mixer



PC-2852

Speaker Component	8"(20cm) Coaxial 2-way cone-type
Input Terminal	Push-in terminal
Impedance	70V LINE: 330Ω (15W), 670Ω (7.5W), 1kΩ (5W), 2kΩ (2.5W), 3.3kΩ (1.5W)
Sound Pressure Level (1m/1W)	96 dB
Rated Input	100V LINE: 15W, 70V LINE: 15W 100V LINE: 670Ω (15W), 1kΩ (10W), 2kΩ (5W), 3.3kΩ (3W)
Frequency Response	45 - 20,000 Hz
Finish	Baffle: Steel plate, off-white, paint/Grille: Surface-treated steel plate net, off-white, paint
Dimensions	ø280 × 92(D)mm (ø11.02" × 3.62")

	PC-2668	PC-3WR
Rated Input	6 W (for 100 V Line), 3 W (for 70 V Line)	3 W, 1 W
Rated Impedance	100 V Line: 1.7 kΩ (6 W), 3.3 kΩ (3 W), (6.7 kΩ (1.5 W), 13 kΩ (0.8 W): Internal wiring must be changed) 70 V line: 1.7 kΩ (3 W), 3.3 kΩ (1.5 W), (6.7 kΩ (0.8 W), 13 kΩ (0.4 W): Internal wiring must be changed)	3.3 kΩ (3 W), 10 kΩ (1 W)
Sound Pressure Level	90 dB (1 W, 1 m, 330 Hz - 3.3 kHz Pink noise)	88 dB (1 W, 1 m)
Frequency Response	100 Hz - 16 kHz	180 Hz - 20 kHz
Speaker Component	12 cm dynamic cone-type speaker	
Speaker Mounting Method	Spring catch Applicable Cable 600 V Vinyl-insulated cable (IV wire or HIV wire) Solid copper wire: Ø0.8 - Ø1.2 mm 7-core twisted copper wire: 0.75 - 1.25 mm ²	Dimensions for Fixing Hole Ø150 mm (The speaker can be mounted to the ceiling panel up to 50 mm) Dust/Water Protection IP64 Operating Temperature -10 °C to +50 °C
Connection	Push-in connector (Bridging terminal-2 branch type)	
Finish	Baffle: ABS resin, off-white (RAL 9010 or equivalent color)	Frame and case: ABS resin, off-white Punching net: stainless steel
Dimensions	#260 x 92 (D) (Exposed section) mm	Ø180 x 120 (D) mm
Weight	820 g (Bracket included)	700 g

PC-2668

PANEL CONE SPEAKER



PC-3WR

Splash-proof, full-range speaker





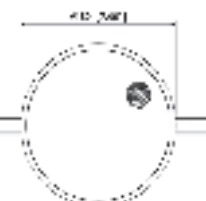
Ceiling Speaker

Model	PC-648R	PC-658R
Rated Input (100V line)	6W	
Rated Impedance	100V line: 6W, 3W, 1W 70V line: 3W, 1.5W, 0.5W	100V line: 6W, 3W, 1.5W, 0.75W 70V line: 3W, 1.5W, 0.7W, 0.4W
Sensitivity (1W, 1m)	90dB	
Frequency Response	100Hz – 18kHz	65Hz – 18kHz
Mounting Hole Diameter	ø145 +/-5mm	ø170 +/-5mm
Speaker Component	12cm cone-type	16cm cone-type
Finish	Frame: Polypropylene resin, off white / Grille: Surface-treated steel plate net, off white	
Dimensions	ø168 x 77(D)mm	ø192 x 73(D)mm
Weight	470g	500g

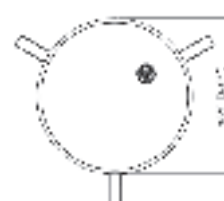
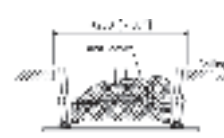
- Spring clamp mechanism for easy speaker mounting to the ceiling
- High cost performance
- PP Resin, SECC punching net

PC-1860		
Rated Input	6W (100V), 3W (70V)	
Tappings	6 / 3 / 1.5 / 0.8W (100V), 3 / 1.5 / 0.8 / 0.4W (70V)	
Sensitivity (1W, 1m)	94dB	
Frequency Response	80Hz – 20 kHz	60Hz – 20 kHz
Mounting Hole Diameter	150mm ±3mm	200mm ±3mm
Speaker Component	5" cone-type	6" cone-type
Connection	Snap in terminal	
Colour	Traffic white (RAL 9016 or equivalent colour)	
Dimensions (ø x D)	180 x 70 mm	230 x 76mm
Weight	0.56kg	0.74kg

PC-1860



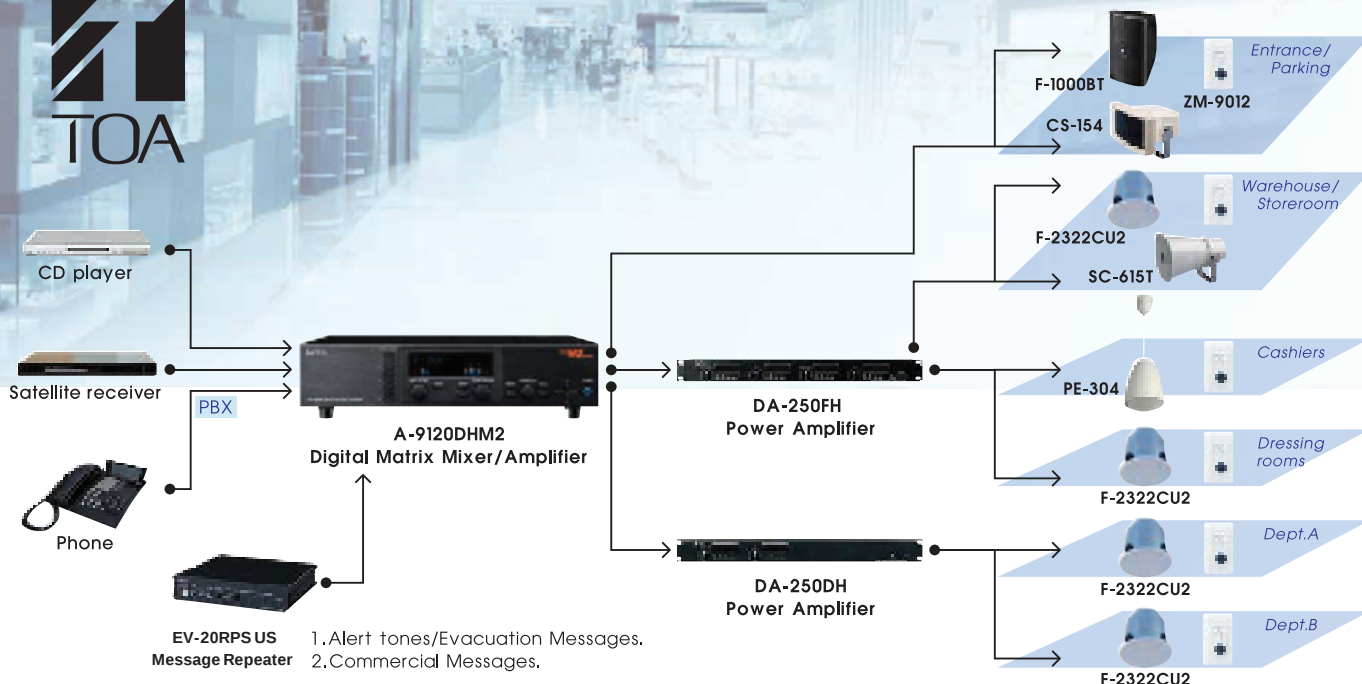
PC-2360



Wide Dispersion Ceiling Speakers

SPECIFICATIONS

Model	F-2852C	F-2352C		F-2352SC
Type	Co-axial	Co-axial	Full-Range	Co-axial
Enclosure	Bass-reflex type			--
Rated Input (High impedance)	60 W	30 W	30 W	6 W
Dispersion (1 to 4k Hz avg.)	120 degrees	170 degrees	180 degrees (hemispherical)	155 degrees
Power Handling Capacity Continuous Pink Noise:	90 W (8 ohms) 60 W (16 ohms)	60 W (8 ohms) 30 W (16 ohms)		9 W (8 ohms) 6 W (16 ohms)
Continuous Program:	180 W (8 ohms) 120 W (16 ohms)	120 W (8 ohms) 60 W (16 ohms)		18 W (8 ohms) 12 W (16 ohms)
Impedance	70.7 V:	60 W (83 ohms) 30 W (170 ohms) 15 W (330 ohms) 7.5 W (670 ohms) 1.5 W (3.3k ohms)	30 W (170 ohms) 15 W (330 ohms) 5 W (1k ohms) 1.5 W (3.3k ohms) 0.5 W (10k ohms)	6 W (830 ohms) 3 W (1.7k ohms) 1.5 W (3.3k ohms) 0.5 W (10k ohms) 0.25 W (20k ohms)
	25 V:	7.5 W (83 ohms) 3.7 W (170 ohms) 1.9 W (330 ohms) 0.9 W (670 ohms) 0.2 W (3.3k ohms)	3.7 W (170 ohms) 1.9 W (330 ohms) 0.6 W (1k ohms) 0.2 W (3.3k ohms) 0.06 W (10k ohms)	0.75 W (830 ohms) 0.4 W (1.7k ohms) 0.2 W (3.3k ohms) 0.06 W (10k ohms) 0.03 W (20k ohms)
	100 V:	60 W (170 ohms) 30 W (330 ohms) 15 W (670 ohms) 3 W (3.3k ohms)	30 W (330 ohms) 10 W (1k ohms) 3 W (3.3k ohms) 1 W (10k ohms)	6 W (1.7k ohms) 3 W (3.3k ohms) 1 W (10k ohms) 0.5 W (20k ohms)
Low Impedance (Adjustable)	8 and 16 ohm direct mode (transformer bypass)			
Sensitivity (1 W, 1 m)	91 dB SPL	90 dB SPL	90 dB SPL	89 dB SPL
Frequency Response (1/2 space)	60 - 20k Hz (-10 dB) 45 - 20k Hz (-20 dB)	70 - 20k Hz (-10 dB) 50 - 20k Hz (-20 dB)		80 - 20k Hz (-10 dB) 50 - 20k Hz (-20 dB)
Speaker Component High Frequency	Dome-type	Balanced dome-type	4.72" (12 cm) cone-type	Balanced dome-type
Low Frequency	6.3" (16 cm) cone-type	4.72" (12 cm) cone-type		4.72" (12 cm) cone-type
Mounting Hole (Maximum ceiling thickness 1.46" / 37 mm)	9.84" (250 mm)	7.87" (200 mm)		
Input Terminal	Removable locking connector (Phoenix-type) with screw -down terminals (2 input terminals and 2 bridge terminals)			Push-in connector (Bridging terminal-2 branch type)
Usable Cable	Stranded / solid copper wire: AWG No. 24 - 14			Solid copper wire: AWG No. 20 - 15 Stranded copper wire: AWG No. 18 - 17
Enclosure	Steel plate, plating			
Baffle	Fire-resistant ABS resin (resin material grade; UL-94 V-0 or equivalent), black			
Rim	Fire-resistant ABS resin (resin material grade; UL-94 V-0 or equivalent), white, paint			
Punched Net	Steel plate, white, paint			
Dust-proof Bag	--			Artificial fiber, black
Dimensions (grille diameter x depth)	11.02"x 8.94" (280 x 227 mm)	9.06"x 9.02" (230 x 229 mm)	9.06"x 9.02" (230 x 229 mm)	9.06"x 6.06" (230 x 154 mm)
Weight (including mounting accessories)	11.24 lbs (5.1kg)	8.16 lbs (3.7 kg)	8.16 lbs (3.7 kg)	3.31 lbs (1.5 kg)
UL Code	CU version only (F-2852CU2, F-2322CU2, F-2352CU2, F-122CU2): UL1480 (UUMW/UEAY), UL2043, CAN/CSA C22.2 No.205 (UEAY7)			
Accessories	Grille / Panel, Ceiling Reinforcement Ring, Safety Wire, Cutout Paper Pattern			Grille / Panel, Cutout Paper Pattern
Options				
Surface-Mount Back Can	--	HY-BC1	HY-BC1	HY-BC1
Tile Bar Bridge	HY-TB1	HY-TB1	HY-TB1	HY-TB1
Anchor Hanging Bracket	HY-AH1**	HY-AH1**	HY-AH1**	HY-AH1**
Trim Ring	--	HY-TR1	HY-TR1	HY-TR1
Ceiling Reinforcement Ring	--	--	--	HY-RR2 (required for HY-AH1, HY-TB1, HY-TR1)
Black Grill	--	Q-F-122GRBK	Q-F-122GRBK	--
Electronic Controller	--	--	E-03R	--



Ceiling Speaker



F-2852C



F-2352SC



F-2352C

TOA F Series Ceiling Speakers are ideal for music and paging applications such as audio/visual, business music or retail sound systems.



TOA Corporation

Wall Mount Speakers

Model	BS-1034	BS-1034S
Speaker Component	5"(12cm) cone-type + balanced dome tweeter	
Rated Input	100V LINE: 10W, 70V LINE: 10W	
Impedance	100V LINE: 1k Ω (10W), 2k Ω (5W), 3.3k Ω (3W), 10k Ω (1W) 70V LINE: 500 Ω (10W), 1k Ω (5W), 2k Ω (2.5W), 3.3k Ω (1.5W), 10k Ω (0.5W)	
Sound Pressure Level	90 dB (1m/1W)	
Frequency Response	120 – 20,000Hz	
Input Terminal	M4 screw terminal	
Attenuation	OFF, 1(-12dB) 2(-6dB), 3(0dB)	-
Finish	Enclosure: HIPS resin, off-white Grille: Steel plate net, off-white, paint	Enclosure: HIPS resin, silver, paint Grille: Steel plate net, silver, paint
Dimensions	208(W) × 327(H) × 79(D)mm (8.19" × 12.87" × 3.11")	

Model	BS-1030B	BS-1030W
Enclosure	2-way bass-reflex type	
Rated Input	30W	
Rated Impedance	8 Ω 100V line: 330 Ω (30W), 500 Ω (20W), 670 Ω (15W), 1k Ω (19W), 2k Ω (5W) 70V line: 170 Ω (30W), 250 Ω (20W), 330 Ω (15W), 500 Ω (19W), 1k Ω (5W)	
Sound Pressure Level	90 dB (1W, 1m)	
Frequency Response	80 Hz - 20k Hz	
Speaker Component	12 cm dynamic speaker + 2.5 cm dome tweeter	
Speaker Cord	2-core cabtyre cord with diameter of 6 mm	
Operation Temperature	-10° to + 50°	
Water Protection	IP X4 (can be installed vertically or horizontally. *)	
Finish	Case: ABS resin, black, paint Grille: Pre-coated steel plate, black, paint Bracket: Pre-coated steel plate, black, paint	Case: ABS resin, white, paint Grille: Pre-coated steel plate, white, paint Bracket: Pre-coated steel plate, white, paint
Dimensions	196 (W) × 290 (H), 150 (D) mm (unit only)	
Weight	2.5 kg (unit only)	
Accessory	Bracket...1, Bracket mounting screw...2, Bracket mounting washer...2	
Option	Mounting bracket: SP-420 (color: white only) Applicable bracket: SP-410 Applicable Stand: ST-16A	Mounting bracket: SP-420 Applicable bracket: SP-410 Applicable Stand: ST-16A

Model	F-1000TWP	F-1000BT	F-1300BT
Rated input	15W		30W
Frequency Response	85 Hz – 20 KHz		80 Hz – 20 KHz
Low frequency speaker	"4		"5
Sensitivity	87dB		90dB
range	full range		full range
Speaker component	Low: 10cm cone-type High: balanced dome tweeter		Low: 13cm cone-type High: 25mm dome tweeter
Tappings (100 V)	100V : 670 Ω (15 W) / 2 k Ω (5 W) / 3.3 k Ω (3 W) / 10 k Ω (1 W) 70V : 330 Ω (15 W) / 670 Ω (7.5 W) / 2 k Ω (2.5 W) / 3.3 k Ω (1.5 W) / 10 k Ω (0.5 W)		
Operating Temperature	10°C to +50°C-		-
Water protection	-	IPX4	-
Dimensions	130×202 x131 mm		162×250 x161 mm
Finish	Enclosure: HIPS resin		Enclosure: HIPS resin
Weight	2Kg		3.6Kg





BS-301

Model	BS-301B/BS-301W
Power Handling Capacity	Continuous program: 160W x 2 channels/ Continuous pink noise: 80W x 2 channels
Sensitivity	81dB (1W, 1m) x 2 channels
Frequency Response	40Hz - 20kHz x 2 channels
Weight	13.9kg (excluding mounting bracket)
Subwoofer	Speaker component: 16cm cone type x 2 channels/ Finish: Front panel ABS resin, enclosure wood, Speaker bracket: steel plate 210(W) x 97.5(H) x 100(D)mm 11.5kg excluding mounting bracket
Satellite Speaker	8cm cone type Finish: Enclosure, Front-panel HIPS resin, speaker bracket steel plate 92(W) x 97.5(H) x 100(D)mm Weight 600g excluding mounting bracket
Product Composition	Subwoofer x 1, satellite speaker x 4
Accessory	Subwoofer mounting bracket (black or white) x 4, Rubber foot and fixing screw for subwoofer x 4, Subwoofer mounting screw x 1 set, Satellite speaker mounting bracket (black or white) x 4, Satellite speaker mounting screw and plain washer and spring washer x 1 set Sticker for satellite speaker (black or white) x 8

Horn Speakers



Model	CS-761
Rated Input	60 W
Rated Impedance	100 V line: 170 Ω (60 W), 330 Ω (30 W), 670 Ω (15W), 1.3 kΩ (7.5 W) 70 V line: 83 Ω (60 W), 170 Ω (30 W), 330 Ω (15W), 670 Ω (7.5 W)
Sensitivity	100 dB (1 W, 1 m) (1 kHz - 10 kHz, pink noise)
Frequency Response	100 Hz - 20 kHz
Speaker Component	Low frequency: 16 cm (6") cone-type, High frequency: 2.5 cm (1") tweeter
Directivity Angle	Horizontal: 90°, Vertical: 80°
Operating Temperature	-10°C to +50°C (14°F to 122°F)
Dust/Water Protection	IP66
Connection	Speaker cable (Hot: Black, Com: White)
Finish	Enclosure: ABS resin Punched net: Steel plate Bracket: Stainless steel
Dimensions	388 (W) X 310 (H) x 367 (D) mm (15.28" x 12.2" x 14.45")
Weight	7.6 kg (16.75 lb)
Option	Speaker mount bracket: SP-201 Pole band: YS-60B Speaker stand: ST-34B
Sensitivity (*1)	100 dB (1 W, 1 m) (1 kHz -10 kHz, pink noise), 99 dB (1 W, 1 m) (100 Hz - 10 kHz, pink noise), 87 dB (1 W, 4 m) (100 Hz -10 kHz, pink noise)
Maximum	117 dB (60 W, 1 m) (1 kHz - 10 kHz, pink noise)
Sound Pressure Level (*1)	103 dB (60 W, 4 m) (100 Hz - 10 kHz, pink noise)
Coverage Angle(-6 dB)(*1)	Declared value according to EN 54-24 Horizontal: 135° (500 Hz), 70° (1 kHz), 70° (2 kHz), 90° (4 kHz) Vertical : 160° (500 Hz), 85° (1 kHz), 110° (2 kHz), 105° (4 kHz)
Environmental Type (*1)	Type B (outdoor applications)
Applicable Cable (*1)	Size: PG9 One cable gland is factory-installed. For bridge connection, one cable gland can be added.
Applicable CableSize (*1)	Outer diameter: Φ4.5 - 8.2 mm Conductor: Solid wire or 7-core wire No bridge connection: 0.8 - 10 mm ² (AWG 18 - 7) for solid wire, 0.8 - 8 mm ² (AWG 18 - 8) for 7-core wire Bridge connection: 0.8 - 2.5 mm ² (AWG 18 - 13) for solid wire, 0.8 - 1.5 mm ² (AWG 18 - 15) for 7-core wire
Cable Connection (*1)	Screw terminal(steatite), can be bridge-connected



Model	SC-630	TC-651M
Rated Input	30 W (Mobile Mount use: 15 W)	30W
Rated Impedance	8 Ω	-
Sound Pressure Level	113 dB (1 W, 1 m at 500 Hz to 2.5 kHz peak level)	111dB
Frequency Response	250 Hz - 10 kHz	200Hz - 6kHz
Polarity	Hot: Black, Com: White	Hot: Black, Com: White
Dust/Water Protection	IP65	IP65
Operating Temperature	-20 °C to +55 °C (-4 °F to 131 °F) (must be free from dew condensation)	-20°C to +55°C
Finish	Horn flare: Aluminum, off-white, powder coating Reflector horn and rear cover: ABS resin, off-white Bracket, screws and bolts: Stainless steel Speaker cable: Polyvinyl chloride insulated cabtyre cable (6 mm in diameter, 600 mm in length)	Bracket holder: Aluminium, grey, powder coating Bracket: Steel, grey, powder coating
Dimensions	285 (W) x 227 (H) x 277 (D) mm	ø400 x 376(D)mm
Weight	1.7 kg (3.75 lbs)	4kg

Pendant Speakers



Model	PE-64	PE-304	PJ-304
Speaker Component	5"(12cm) cone-type	5"(12cm) cone-type + balanced dome tweeter	5"(12cm) cone-type + balanced dome tweeter
Rated Input	100V LINE: 6W, 70V LINE: 3W	100V LINE: 30W, 70V LINE: 30W LOW IMP.: 8Ω	100V LINE: 30W, 70V LINE: 30W LOW IMP.: 8Ω
Impedance	100V LINE: 1.7kΩ (6W), 3.3kΩ (3W), 10 kΩ (1W) 70V LINE: 1.7kΩ (3W), 3.3kΩ (1.5W), 10 kΩ (0.5W)	100V LINE: 330Ω (30W), 500Ω (20W), 670Ω (15W), 1kΩ (10W), 2kΩ (5W) 70V LINE: 170Ω (30W), 250Ω (20W), 330Ω (15W), 500Ω (10W), 1 kΩ (5W) LOW IMP: 8Ω (30W)	100V LINE: 330Ω (30W), 500Ω (20W), 670Ω (15W), 1kΩ (10W), 2kΩ (5W) 70V LINE: 170Ω (30W), 250Ω (20W), 330Ω (15W), 500Ω (10W), 1 kΩ (5W) LOW IMP: 8Ω (30W)
Sound Pressure Level (1m/1W)	90 dB	91 dB	91 dB
Frequency Response	100 – 18,000 Hz	70 – 20,000 Hz	70 – 20,000 Hz
Input Terminal	Push-in terminal		-
Finish	Enclosure: HIPS resin, off-white Grille: Surface-treated steel plate net, off-white, paint		Enclosure: HIPS resin, off-white Grille: Surface-treated steel plate net, off-white, paint
Dimensions	ø186 × 251(H) mm (ø7.32" × 9.88") (unit only)		ø186 × 369(H) mm (ø7.32" × 14.33")

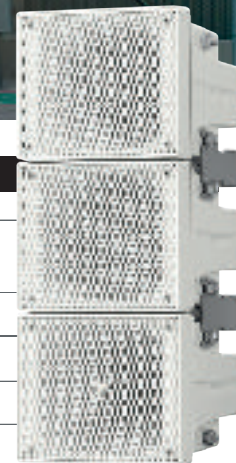
Horn Speakers



Model	CS-64
Rated Input	6 W
Rated Impedance	100V line: 1.7kΩ (6W), 3.3kΩ (3W), 10kΩ (1W) 70V line: 830kΩ (6W), 1.7kΩ (3W), 3.3kΩ (1W), 10kΩ (0.5W)
Sensitivity (1W, 1m)	96 dB
Frequency Response	130 Hz - 13k Hz
Speaker Component	12cm (4.72") cone-type (treated for splash proof)
Speaker Code	2 - core cabtype cord with diameter of 6 mm
Operating Temperature	-20°C to +55°C (-4°F to 131°F)
Finish	Horn, cover: ABS resin, off-white, paint Bracket: Stainless steel Punched net: Surface treated steel plate, dark-gray, powder coating Screw: Stainless steel
Dimensions	233 (W) × 224 (H) × 208 (D) mm (9.17" × 8.82" × 8.19")
Weight	1.5kg (3.31 lb)



Model	CS-154
Rated Input	15 W
Rated Impedance	100V line: 670Ω (15W), 1kΩ (10W), 2kΩ (5W) 70V line: 330Ω (15W), 670Ω (10W), 1kΩ (5W), 2kΩ (2.5W)
Sensitivity (1W, 1m)	97 dB
Frequency Response	150 Hz - 15k Hz
Speaker Component	12cm (4.72") cone-type (treated for splash proof)
Horizontal Directivity	Constant directivity horn 90° (± 45° horizontal from front axis) / Over 93 dB (1W, 1m), 3k Hz at ± 45°
Speaker Code	2-core cabtype cord with diameter of 6mm (0.24")
Operating Temperature	-20°C to +55°C (-4°F to 131°F)
Finish	Horn, cover: ABS resin, off-white, paint Bracket: Stainless steel Punched net: Surface treated steel plate, dark-gray, powder coating Screw: Stainless steel
Dimensions	366 (W) × 230 (H) × 272 (D) mm (14.40" × 9.06" × 10.71")
Weight	2.8kg (6.17 lb)

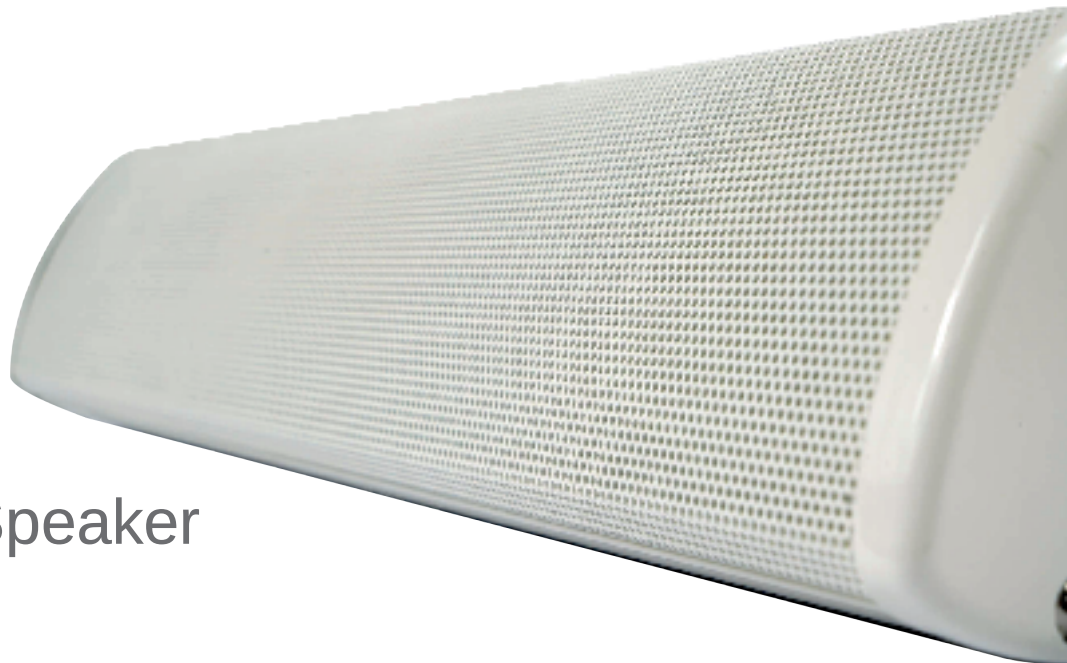


Model	HA-2120EN
Rated Input	120 W
Rated Impedance	100 V line: 83 Ω (120 W), 170 Ω (60 W) 70 V line: 42 Ω (120 W), 83 Ω (60 W)
Sensitivity	113 dB (1 W, 1 m) (500 Hz - 5 kHz, IEC60268-5)
Max. SPL	133 dB (120 W, 1 m) (500 Hz - 5 kHz, IEC60268-5)
Frequency Response	550 Hz - 4.3 kHz (-10 dB), 290 Hz - 8 kHz (-20 dB)
Speaker Component	Horn speaker unit x 3
Input Terminal	Ceramic terminal (3-pole), can be bridge-connected x1, Ceramic terminal (2-pole) x 1, Thermal fuse is included.
Cable Gland	Size: PG 13.5 - 12 (gray) x 1, Cable Diameter Range: 12.5 - 6.5 mm (0.49" - 0.26") Size: PG 13.5 - 08 (black) x 1, Cable Diameter Range: 9 - 4.5 mm (0.35" - 0.18"), Two cable glands are factory-installed.
Speaker Cable	4-core cabtype cord 2 m (6.56 ft)
Compatible Wire	For Ceramic terminal (3-pole), Conductor: Solid wire or 7-core wire No bridge connection: 0.8 - 10 mm ² (AWG 18 - 7) for solid wire, 0.8 - 8 mm ² (AWG 18 - 8) for 7-core wire Bridge connection: 0.8 - 2.5 mm ² (AWG 18 - 13) for solid wire, 0.8 - 1.5 mm ² (AWG 18 - 15) for 7-core wire
IP Code	IP66
EN 54-24 Specifications	Sensitivity: 91 dB (1 W, 4 m), Max. SPL: 110 dB (120 W, 4 m) Coverage Angle (-6 dB): Horizontal: 200° (500 Hz), 120° (1 kHz), 65° (2 kHz), 40° (4 kHz) Vertical: 80° (500 Hz), 40° (1 kHz), 20° (2 kHz), 15° (4 kHz) Environmental Type: B (outdoor applications) IP Code: IP33C
Operating Temperature	-20 °C to +55 °C (-4 °F to 131 °F)
Finish	Case: FRP, white (RAL 9016 equivalent), paint Front grille: Aluminum, white (RAL 9016 equivalent), paint, Bolts: Stainless steel
Dimensions	215 (W) X 555 (H) X 309 (D) mm (8.46" X 21.85" X 12.17") (excluding projection)
Weight	16 kg (35.27 lb) (unit only)
Included Accessories	Terminal box x 1
Optional Accessories	Speaker mounting bracket: YS-1100A

LONG RANGE ARRAY SPEAKER



Model	HA-1030EN
Rated Input	30 W
Rated Impedance	100 V line: 330 Ω (30 W), 670 Ω (15 W) 70 V line: 170 Ω (30 W), 330 Ω (15 W)
Sensitivity	109 dB (1 W, 1 m) (500 Hz - 5 kHz, IEC60268-5)
Max. SPL	123 dB (30 W, 1 m) (500 Hz - 5 kHz, IEC60268-5)
Frequency Response	550 Hz - 4.8 kHz (-10 dB), 360 Hz - 12 kHz (-20 dB)
Speaker Component	Horn speaker unit x 4
Input Terminal	Ceramic terminal (3-pole), can be bridge-connected x1, Ceramic terminal (2-pole) x 1, Thermal fuse is included.
Cable Gland	Size: PG 13.5 - 12 (gray) x 1, Cable Diameter Range: 12.5 - 6.5 mm (0.49" - 0.26") Size: PG 13.5 - 08 (black) x 1, Cable Diameter Range: 9 - 4.5 mm (0.35" - 0.18"), Two cable glands are factory-installed.
Speaker Cable	4-core cabtype cord 2 m (6.56 ft)
Compatible Wire	For Ceramic terminal (3-pole), Conductor: Solid wire or 7-core wire No bridge connection: 0.8 - 10 mm ² (AWG 18 - 7) for solid wire, 0.8 - 8 mm ² (AWG 18 - 8) for 7-core wire Bridge connection: 0.8 - 2.5 mm ² (AWG 18 - 13) for solid wire, 0.8 - 1.5 mm ² (AWG 18 - 15) for 7-core wire
IP Code	IP66
EN 54-24 Specifications	Sensitivity: 88 dB (1 W, 4 m), Max. SPL: 103 dB (30 W, 4 m) Coverage Angle (-6 dB): Horizontal: 190° (500 Hz), 165° (1 kHz), 85° (2 kHz), 45° (4 kHz) Vertical: 80° (500 Hz), 45° (1 kHz), 20° (2 kHz), 15° (4 kHz) Environmental Type: B (outdoor applications) IP Code: IP33C
Operating Temperature	-20 °C to +55 °C (-4 °F to 131 °F)
Finish	Case: Aluminum, white (RAL 9016 equivalent), salt-resistant, paint Front grille: Aluminum, white (RAL 9016 equivalent), paint, Bolts: Stainless steel
Dimensions	167 (W) X 665 (H) X 140.5 (D) mm (6.57" X 26.18" X 5.53")(excluding projection)
Weight	8 kg (17.64 lb) (unit only)



Column Speaker

Model	TZ-30EB
Rated Input	30W
Rated Impedance	100V line: 333 Ω (30 W), 667 Ω (15 W), 1.3k Ω (7.5 W) 8 Ω line: 8 Ω (30 W)
Sensitivity	90 dB (1 W, 1 m)
Frequency Response	150-20 kHz (-20 dB)
Speaker Component	5.3 cm (2") $\times$ 4 pcs cone-type, 5.1cm (2") $\times$ 1pcs cone-type
Dust/Water Protection	IP55
Applicable Cable	Solid copper wire: $\varnothing$ 0.8–1.6 mm (equivalent to AWG 20-14) 7-core twisted copper wire: 0.75–1.25 mm ² (equivalent to AWG 18-16)
Connection	Screw terminal
Operating Temperature	-20° C to +55° C
Finish	Enclosure: Aluminum, White (RAL 9016 or equivalent) Front grille: Aluminum net, White (RAL 9016 or equivalent)
Dimensions	403 (H) $\times$ 74.5 (W) $\times$ 69 (D) mm (15.87" $\times$ 2.93" $\times$ 2.72")
Weight	1.74 kg (3.84 lb)
Accessories	Cable Grand $\times$ 2, Rubber washer $\times$ 2, Hexagon wrench $\times$ 1, Rubber gasket $\times$ 2, L-type bracket $\times$ 2, Bracket mounting screw $\times$ 2



Houses of Worship



Supermarkets / Parking lots



Model	TZ-50EB
Rated Input	50W
Rated Impedance	100V line: 200 Ω (50 W), 400 Ω (25 W), 800 Ω (12.5 W) 20 Ω line: 20 Ω (50 W)
Sensitivity	91 dB (1 W, 1 m)
Frequency Response	150-20 kHz (20 dB)
Speaker Component	5.3 cm (2") $\times$ 10pcs cone-type, 5.1 cm (2") $\times$ 1pcs cone-type
Dust/Water Protection	IP55
Applicable Cable	Solid copper wire: $\varnothing$ 0.8-1.6 mm (equivalent to AWG 20-14) 7-core twisted copper wire: 0.75-1.25 mm ² (equivalent to AWG 18-16)
Connection	Screw terminal
Operating Temperature	-20° C to +55° C
Finish	Enclosure: Aluminum, White (RAL 9016 or equivalent) Front grille: Aluminum net, White (RAL 9016 or equivalent)
Dimensions	800 (H) $\times$ 74.5 (W) $\times$ 69 (D) mm (31.50" $\times$ 2.93" $\times$ 2.72")
Weight	3.3 kg (7.28 lb)
Accessories	Cable Grand $\times$ 2 Rubber washer $\times$ 2 Hexagon wrench $\times$ 1 Rubber gasket $\times$ 2 L-type bracket $\times$ 2 Bracket mounting screw $\times$ 2



APPLICATIONS



Stations and platforms



Hotels and event locations



A-3200DMZ

120 W, 240 W, 480 W

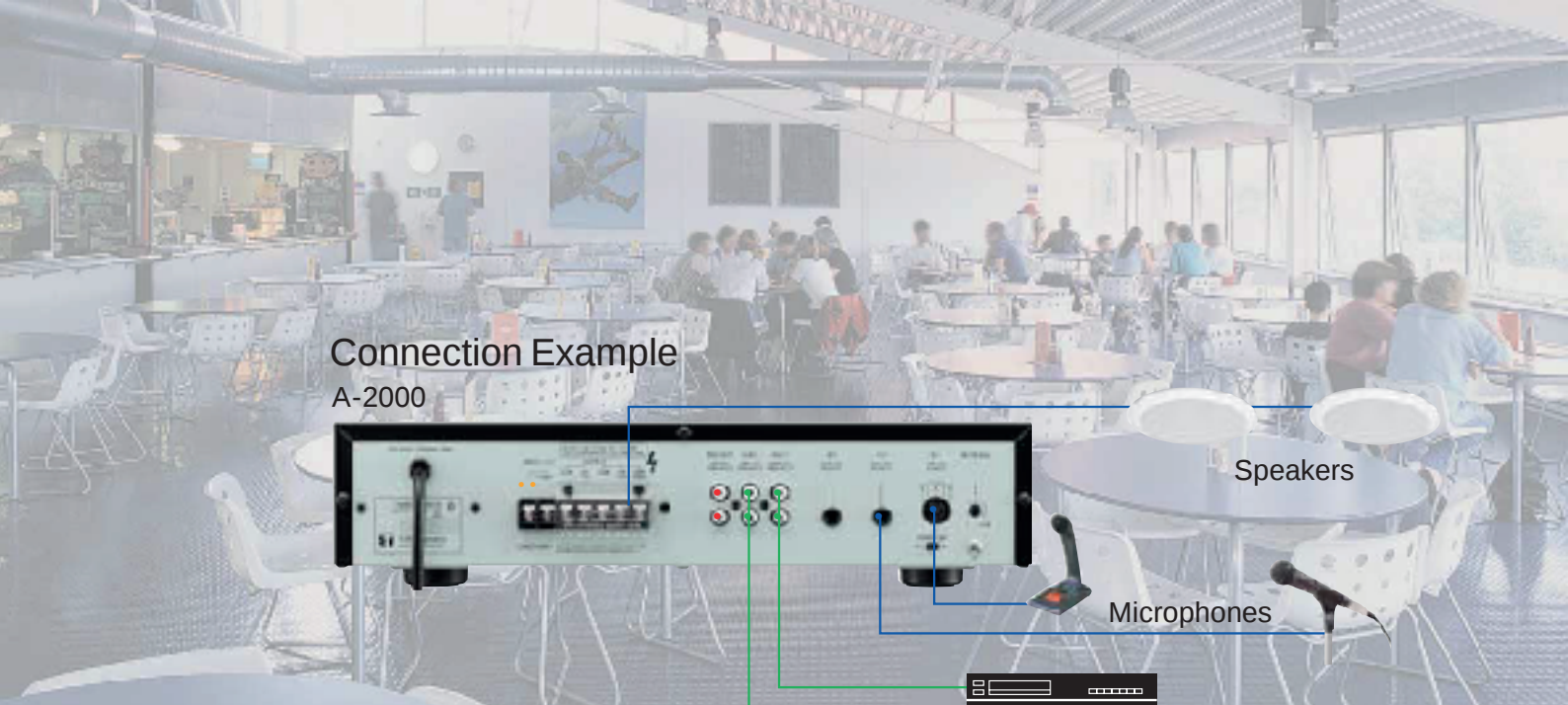
Master and Input volume control	✓
Volume control for MIC 4/AUX1	✓
Level adjust depending on selected input	✓
Phantom power for condenser microphone/ option for chime microphone	✓
MIC 1 priority input	✓
Impedance selector	✓ 4Ω or 83Ω
Bass and treble control	✓
5 Band equalizer	✗
5 knobs to control the gain of different frequencies (80, 315, 1000, 3150, 8000 Hz)	✗
Inputs	
MIC	4
AUX	2
Media Player LED Display, USB, SD MMC Card, Bluetooth, Radio FM, Record	✓
Outputs	
Speaker screw terminal	✓
Direct line	✓
Rec out	✓
Flexible speaker-out zone management	✓
Zone selector terminal	✓



Specifications

Frequency Response:	50 – 20000 Hz
S/N Ratio:	Over 60 dB
Dimensions:	420 (W) x 100.9 (H) x 357 (D) mm
Weight:	5.0 kg
Finish: Panel:	ABS Resin, black
Case:	Steel Plate, black
Accessory:	1x Antenna FM radio (1 m)





Connection Example

A-2000



Speakers

Microphones

CD player



Auto announcement machine



Programmable Timer



Digital Mixer Amplifier

Model	A-2120	A-2240
Power Source	220 – 240V AC or 24V DC	
Rated Output	120W	240W
Power Consumption	124W (EN60065) 260W (AC operation at rated output), 8A (DC operation at rated output)	238W (EN60065) 520W (AC operation at rated output), 15A DC (operation at rated output)
Frequency Response	50 – 20,000Hz (±3dB)	
Distortion	Under 1% at 1kHz, 1/3 rated power	
Input	MIC 1: -60dB*, 600Ω, electronically balanced, 5-P DIN type MIC 2, 3: -60dB*, 600Ω, electronically balanced, phone jack AUX 1, 2: -20dB*, 10kΩ, unbalanced, RCA pin jack Mute: Contact Pin 4 – 5 Closure input (for MIC 1)	
Output	Balanced (floating) 83Ω (100V), 42Ω (70V) 4Ω (22V) 0dB*, 600Ω, unbalanced, RCA pin jack	Balanced (floating) 42Ω (100V), 21Ω (70V) 4Ω (31V) 0dB*, 600Ω, unbalanced, RCA pin jack
Phantom Power	DC +21V (MIC 1)	
S/N Ratio	Over 60dB	
Ventilation	-	
Tone Control	Bass: ±10dB at 100Hz/Treble: ±10dB at 10kHz	
Muting	MIC 1: Mutes other input signals by 0 – 30dB attenuation	
Indicator	Power. signal, peak	
Finish	Panel: ABS resin, black/Case: Steel plate, black	
Dimensions	420 (W) × 100.9 (H) × 360.3 (D)mm	
Weight	10.8kg	13.2kg

MX-6224D

DIGITAL MIXER AMPLIFIER

Model	MX-6224D
Power source.	220 - 240 V AC, 50 / 60 Hz
Rated output.	240 W 2 ch (100 V, 42 Ω , rated output)
Power source.	220 - 240 V AC, 50 / 60 Hz
Frequency response.	50 Hz - 20 kHz (± 3 dB)
Frequency response.	50 Hz - 20 kHz (± 3 dB)
Power / current consumption	100 W (according to IEC60065); 570 W (at rated output, both 2 ch)
Distortion.	< 1 %
Speaker output	2 zones, 100 V (42 Ohm)
S/N ratio.	60 dB(A)
Number of channels	8
Connectable microphones	6
Inputs	MIC 1: -50 dBV (24 V phantom powered) / -60 dBV (phantom power off), 600 Ω , electronically balanced, 6.3 mm phone jack MIC 2 - 4: -66 dBV, 200 Ω , electronically balanced, 6.3 mm phone jack or XLR MIC 5 - 6: -60 dBV, 600 Ω , electronically-balanced, 6.3 mm phone jack or XLR AUX 1: -10 dBV, 10 k Ω mixed monaural, unbalanced, RCA pin jacks (1 pair) AUX 2: -20 dBV, 10 k Ω mixed monaural, stereo mini jack
Outputs	Speaker output: 2 zones, 100V (42 Ohm), galvanic isolated balanced, M4 screw terminal Recording output: 0 dBV, 600 Ohm monaural, unbalanced, RCA pin jacks (1 pair) Effect bus output: 0 dBV, 600 Ohm monaural, unbalanced, RCA pin jacks (1 pair) Preamp output: 0 dBV, 600 Ohm monaural, unbalanced, RCA pin jacks (1 each for ROOM and OUTSIDE outputs)
Distortion.	< 1 %
Finish.	Aluminium, Steel plate, paint, black,
Operating humidity.	35% to 80%
Operating temperature.	0°C to + 40°C





Model		MA-725F
Power Source		100 – 240V AC, 50/60 Hz
Power Consumption		1350 W (rated output)
Frequency Response		20 Hz – 20 kHz (-3 dB / +1 dB, LPF OFF)
Total Harmonic Distortion		1 % or less, at 1 kHz, rated output
Input	Priority 1-2:	Mic -60 dB/Line -10 dBV selectable, 2.2 k Ω , electronically-balanced, removable terminal block
	Line In 1-4:	-10 dBV, 10 k Ω , unbalanced, 2 RCA jacks (Stereo summing)
	Speaker 1-4:	70 V (20 Ω), 100 V (40 Ω), removable terminal block
	Line Out 1-4:	0 dBV, 600 Ω , unbalanced, RCA jack
	MOH:	0 dBV, 600 Ω , transformer balanced, removable terminal block
DSP Preset		64 presets at each output channel, selectable
S/N Ratio		Mic: 60 dBV or more, Line: 75 dBV or more (A-weighted)
Muting		Manual mute / Automatic mute
Mute Hold Time		50 ms - 10 seconds, adjustable
Priority Level		PRIORITY 1 > PRIORITY 2 > LINE 1-4
Control	Power:	ON/OFF switch, Power remote terminal
	Priority 1-2:	MIC/LINE selector switch, Gain control, Assign switch, Auto mute switch, Mute sense control, Manual mute terminal, Mute hold timecontrol, Priority mix switch
	Line In 1-4:	Gain control, Assign restriction switch
	Output 1-4:	LINE IN 1-4 selector switch, Output gain control, 70V/100V selector switch, HPF switch, DSP bank selector switch, DSP preset selector switch
	Remote 1-4:	Remote control connector (RJ-45), Remote link switch
Finish		Panel: Aluminum, hair line, black; Case: Steel plate, black, paint
Dimensions (W x H x D)		420 x 107.6 x 350 mm
Weight		7.6 kg
Accessories		Power cord (2 m) x1, Removable terminal plug (5 pins x 2, 3 pins x 1, 2 pins x 4); Rack mounting bracket x 2, Bracket mounting screws x 4, User manual x 1

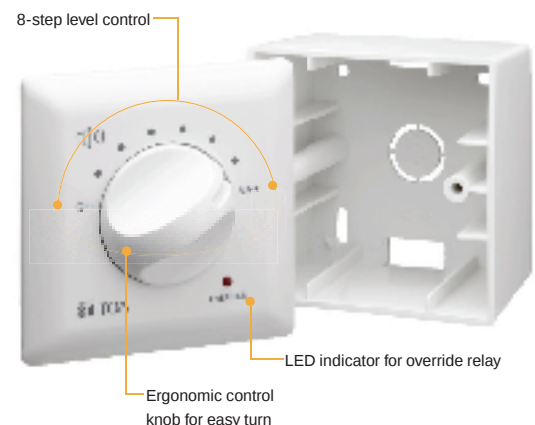


AT-4030 Attenuators



Ergonomically designed
with precision control.

Model	AT-4030B-EB
Input Capacity	30W
Attenuation	8 steps (0 dB, -3 dB, 6 dB, 9 dB, 12 dB, 15 dB, 18 dB, OFF)
Override Indicator	Red LED (4-wire connection only)
Overriding Voltage	24 V, 11 mA DC (4-wire connection only)
Terminal	Screw-type x 5
Usable Cable	Cable range 22 - 14 AWG
Finish	Knob, Cover Panel: ABS Resin, White (RAL9016 or equivalent) Front Panel: Surface treated steel plate
Dimensions	86 x 86 x 51 mm (W x H x D)
Weight	450g
Accessories	Back box 85.5(W) x 86(H) x 51 (D) mm x 1, Plate mounting screw x 2





MULTI-CHANNEL

DIGITAL POWER AMPLIFIERS

Model	DA-250FH	DA-500FH
Power Requirement	220 – 240V AC, 50/60Hz	220 – 240V AC, 50/60Hz
Number of Channels	4	4
Total Output All Channel Driven	1000W (1kHz, 40Ω: 100V line)	2000W (1kHz, 20Ω: 100V line)
Output Voltage per Channel	100V (1kHz, 40Ω: 100V line)	100V (1kHz, 20Ω: 100V line)
Output Current per Channel	2.5A (1kHz, 40Ω: 100V line)	5A (1kHz, 20Ω: 100V line)
Power Output		
Hi-Z: 100V per channel	250W	500W
Power Consumption*		
Idle power consumption	75W, 0.5A	65W, 0.5A
Rated power consumption		
100 Volts	1150W, 8.3A	2300W, 16.8A
1/8 Power 8 ohms Pink noise		
100 Volts	270W, 1.9A	493W, 3.1A
1/3 Power 8 ohms		
100 Volts	491W, 3.5A	1026W, 7.4A
1/8 Power 8 ohms 1kHz		
100 Volts	230W, 1.6A	399W, 2.6A
1/3 Power 8 ohms		
100 Volts	443W, 3.0A	860W, 6.1A
Frequency Response	50Hz – 20kHz (-3dB, +1dB)	50Hz – 20kHz (-3dB, +1dB)
THD		
0.1 % (1kHz)		
0.3 % (100Hz – 20kHz)		
S/N Ratio (A weighted)	100dB	100dB
Crosstalk at 10kHz (A weighted)	70dB	70dB
DC Offset*	±5mV	±5mV
Voltage Gain*	38.2dB	38.2dB
Damping Factor*	300 (1kHz, 40Ω: 100V line)	240 (1kHz, 20Ω: 100V line)
Inputs		
Input impedance	10kΩ (unbalanced), 20kΩ (balanced)	10kΩ (unbalanced), 20kΩ (balanced)
Input sensitivity	+4dB (1.23V)	+4dB (1.23V)
Input clipping	14V (25.1dBu)	12V (23.8dBu)
Protection Circuit		
Amplifier section	DC output, overheat protection, load shorting, overload current, maximum output	DC output, overheat protection, load shorting, overload current, maximum output
Power supply section	Overheat protection, AC rush current	Overheat protection, AC rush current
Cooling	Continuously constant speed fan with front-to-rear airflow, 50,000 hours life time at 25°C	Continuously constant speed fan with front-to-rear airflow, 100,000 hours life time at 25°C
Operating Temperature	-10°C to +40°C	
Operating Humidity	Under 90% RH (no condensation)	
Dimensions	482 (W) × 44 (H) × 401.8 (D)mm	482 (W) × 88.4 (H) × 404.2 (D)mm
Weight	6.8kg	9kg
Finish	Panel: Aluminum, alumite process, black/Case: Plated steel sheet	Panel: Aluminum, alumite process, black/Case: Plated steel sheet
Accessories	Power cord(2m) × 1, Euro style terminal block connector (3-pin) × 4, Tamper-proof cap × 4, Rack mounting screw × 4	Power cord(2m) × 1, Euro style terminal block connector (3-pin) × 4, Tamper-proof cap × 4, Rack mounting screw × 4
Option	Matching transformer: MT-251H	Matching transformer: MT-251H



Neck-worn microphone EM-362-EB

APPLICATIONS

- Mosques
- Sports and Fitness
- Theater
- Presentations
- Guided Tours
- Videoconferences

Model	EM-362-EB
Power Source	3 V DC (2 x "AAA" batteries) or Phantom power (9 – 52 V)
Microphone Element	Electret Condenser
Polar Pattern	Cardioid
Rated Impedance	600 Ω , balanced
Rated Sensitivity	-35 dB $\pm$ 3 dB (1 kHz 0 dB = 1 V/Pa)
Frequency Response	60 Hz - 20 kHz
Cable Length	7 m
Connector Output	¼" balanced L plug, 200 mm
Operating Temperature	0° C - 40° C
Finish	Battery Case Unit, Switch Unit, Mic Unit: ABS Resin, Black, Flexible Shaft: Copper Alloy, Black, Paint, Shield tube, Wire Hanger: Steel wire shield rubber, Black, Paint
Dimensions	242.5 mm (h) x 131.5 mm (w) (9.55" x 5.18")
Weight	335 g (exclude battery)

Model	EC-380-EB
Transducer type	Elektret condensor capsule
Polar Pattern	Cardioid
Rated Impedance	600 Ω , balanced
Rated Sensitivity	-41dB (1 kHz 0dB=1V/Pa), Chime -31dB (max. volume)
Power Supply	6V DC (4x AA batteries), optional AC-adaptor or via cable
Frequency Response	50 Hz - 18,000 Hz
Output Connector	XLR, RJ45
Operating Temperature	0 °C - 40 °C
Finish	Mic stand: ABS, painted black Gooseneck: copper, painted black
Dimensions	110 (W) x 145 (D) x 532 (H) mm
Weight	558g (w/o batteries)
Accessory	Windscreen x1, 7.5 m cable with XLR and phone plug x1



Tailored to enhance audio performance for leaders in mosques.





Paging Microphone

Announcements and paging calls
made easy and convenient.

Model	PM-660	PM-660D
Type	Dynamic paging microphone	
Directivity	Cardioid	
Power Source	-	
Rated Impedance	600 Ω , unbalanced	600 Ω , balanced
Rated Sensitivity	-58 dB (1k Hz 0 dB = 1 V/Pa)	
Frequency Response	100 Hz – 10 kHz	
Controls	Push-to-talk switch, Locking lever Short-o type	Leaf spring contact(interlocked with talk switch, 30 V DC, under 500 mA)
Finish	Head: Zinc plated steel wire, gray, paint / Body: ABS resin, gray	
Dimensions (W x H x D)	100 x 215 x 150 mm	
Weight	440 g	



Reception



Counter



Cashier station

HX5 , FB-120B

Line Array

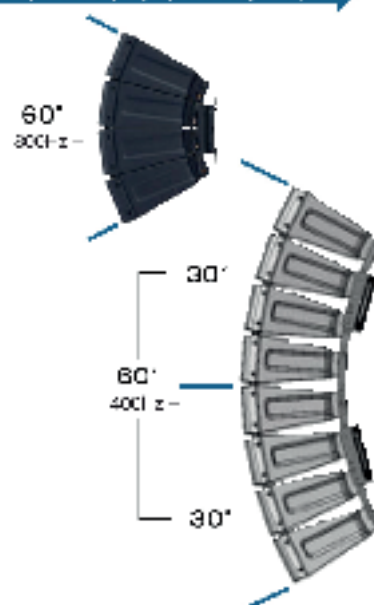


Model	HX-5B
Enclosure	Bass-reflex type
Power Handling Capacity	Continuous pink noise: 200W, Continuous program: 600W
Rated Impedance	8Ω
Sensitivity (1W, 1m)	96dB (60° mode), 97dB (45° mode), 98dB (30° mode), 99dB (15° mode)*
Frequency Response	70 – 20,000Hz (–10dB) (60° mode), 75 – 20,000Hz (–10dB) (45° mode), 80 – 20,000Hz (–10dB) (30° mode), 85 – 20,000Hz (–10dB) (15° mode)
Crossover Frequency	4kHz
Directivity Angle	Horizontal: 100° (over 2000Hz) Vertical: 60° (over 800Hz), 45° (over 1.2kHz), 30° (over 1.6kHz), 15° (over 3.2kHz) variable
Speaker Component	Low frequency: 12cm cone-type ° 4 High frequency: Balanced dome-type ° 12 Speakon NL4MP × 2 and M4 screw terminal
Input Terminal	Speakon NL4MP × 2 and M4 screw terminal
Finish	Enclosure: Polypropylene, black
Dimensions	408 (W) × 546 (H) × 342 (D)mm
Weight	16kg
Accessory	Hanging bracket 2, Hex. wrench 1
Option	Matching transformer: MT-200 Speaker mounting bracket: HY-PF1B, HY-CW1B, HY-WM1B, HY-WM2B, HY-CN1B Speaker stand adapter: HY-ST1



When you arrange the plural

in multiple, it can be used as the HX-5B to obtain
desired speaker output, by adjusting the angle of dispersion.



Model	FB-120B
Power Handling Capacity	Continuous pink noise: 200W, Continuous program: 600W
Impedance	8Ω
Sensitivity	90dB (1W, 1m) at installation in free sound field 96dB (1W, 1m) at installation in 1/2 free sound field
Frequency Response	40 – 1,200Hz (–10dB)
Speaker Component	30cm cone-type
Input Terminal	Speakon NL4MP × 2 and M4 screw terminal, distance between barriers:11mm
Finish	Enclosure: Plywood Punched net: Steel plate, black, paint
Dimensions	408 (W) × 408 (H) × 450 (D)mm
Weight	15kg
Option	Speaker rigging frame: HY-PF1B

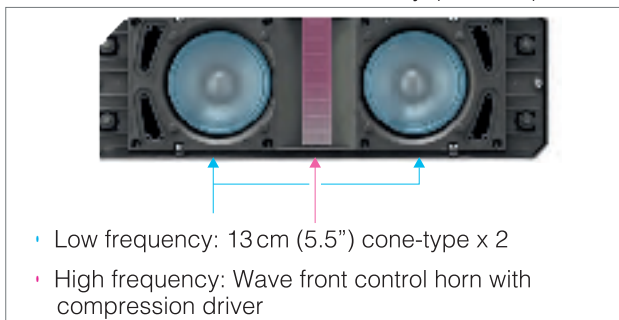


HX7 , FB-150B

Line Array

MEETS THE NEED FOR POWERFUL AUDIO

- Power handling: 750W Continuous Program @ 8ohms
- Sensitivity (1W,1 m): 100dB



Speaker	HX-7B
	Bass-reflex type
Power Handling Capacity	Continuous pink noise: 250W (IEC60268-5: 350W) Continuous program: 750W
Rated Impedance	8Ω
Sensitivity	100dB (1W, 1m)
Frequency Response	75 Hz - 20kHz
Crossover Frequency	1.7 kHz
Directivity Angle	Horizontal: 100°, Vertical: Depending on directivity angle mode
Speaker Component	Low frequency: 13 cm (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")
Finish	Enclosure: Polypropylene, black or white (HX-7B/W) Punched net: Surface-treated steel plate, black or white (HX-7B/W), paint Hanging bracket: Steel plate, t3.0, black or white (HX-7B/W), paint
Dimensions	497 (W) x 664 (H) x 274 (D) mm (19.57" x 26.14" x 10.79")
Weight	30 kg (66.14 lb)
Accessory	Hanging bracket L, R (L and R are symmetrical to each other) x 1 (each) Hanging bracket mounting bolt x 4
Option	Matching Transformer: MT-200 (*1) Matching transformer Adapter: HY-MT7 Speaker mounting bracket: HY-60DB/W, HY-CN7B/W, HY-PF7B/W HY-VM7B/W, HY-WM7B/W (*2), HY-C0801W (*2) Speaker stand adapter: HY-ST7

Subwoofer	FB-150B
Power Handling Capacity	Continuous pink noise: 200W Continuous program: 600W
Impedance	8Ω
Sensitivity	93dB (1W, 1m)
Frequency Response	40 Hz - 400 Hz (-10dB)
Speaker Component	38 cm (15") cone-type
Input Terminal	Speakon NL4MP x 2 and M5 screw terminal distance between barriers: 12.2mm (0.48")
Finish	Enclosure: MDF, black or white (FB-150B/W), urethane paint Punched net: Surface-treated steel plate, black & white (FB-150B/W), paint
Dimensions	505 (W) x 528 (H) x 477 (D) mm (19.88" x 20.79" x 19.17")
Weight	30 kg (66.14 lb)
Option	Speaker rigging frame: HY-PF7B/W

(*1) When mounting the MT-200 Matching Transformer to the speaker, an optional HY-MT7 Matching Transformer Adapter is required.

(*2) HY-VM7B/W Speaker Mounting Bracket is separately required.

(*3) EN54-24 certified version

APPLICATION EXAMPLES



Stadiums



Arenas / Indoor sports facilities



Houses of worship



Auditoriums



Also
available as
EN-certified
versions

SR-S4S

Slim Line Arrays

Model	SR-S4S
Power Handling Capacity	Continuous program: 600 W
Rated Impedance	8 Ω
Tappings (100 / 70 V)	Use of MT-S0601 60 / 30 / 15 W (100 V) 60 / 30 / 15 / 7.5 W (70 V)
Sensitivity (1 W, 1 m)	93 dB
Frequency Response	70 Hz – 20 kHz
Cross Over Frequency	3.5 kHz
Directivity Angle	Horizontal: 90°, Vertical: 10°
Speaker Component	Low frequency: 10 cm cone type × 8 High frequency: 2.5 cm balanced dome-type × 24
Input Connector	M5 screw terminal, distance between barriers: 12.2 mm and Neutrik NL4MP x 2 (usable cable connector: Neutrik NL4FC)
Finish	Enclosure: MDF, white, paint Front grill: Punched steel plate, white, acrylic paint
Dimensions (W x H x D)	160 × 892 × 303 mm
Weight	16 kg



SR-S4L / SR-S4LWP /
SR-S4LEB-Q



SR-S4S / SR-S4SWP /
SR-S4SEB-Q

APPLICATION EXAMPLES



Houses of worship



Exhibition halls/conference halls



Gymnasiums/multipurpose halls



Transport terminals



VM-2240



Model	VM-2240	RM-200M
Power source	230 V AC, 50 / 60 Hz	22 V DC
Power	54 W (no output)	Power input jack: Non-polarity type
current consumption	549 W (at rated output)	Usable power input plug: Outer diameter ø5.5 mm, inner diameter ø2.1 mm, length 9.5 mm
Frequency response	50 Hz - 16 kHz	
Rated output	240 W total into 5 zones	Current Consumption Under 100mA
Control input	Contact input, open voltage: 3.3 VDC, short-circuit current max. 1 mA activation of inputs 1-3 x3 25-pin female D-sub connector: • Activation of messages (when EV-200M is installed) x5 • Activation of power • Activation and stop of emergency broadcast • Unit's broadcast cutoff	Audio Output 0dB*: 600Ω, balanced
Control output	5 relay contacts for external attenuator control. Open collector output, withstand voltage: 30 V DC, operating current: under 10 mA 25-pin female D-sub connector: • Irregularity of communications with the Remote Microphone and an expansion amplifier • AC power condition • DC power condition • Irregularity of the sound source of the Voice Announcement Board • Failure (FAULT) indication on • Power switch on	Frequency Response 100 - 20 kHz
Current consumption	14 A	Distortion Under 1%
Inputs	MIC (-60 dBV) / LINE (-10 dBV), balanced x3 Telephone (-10 dBV, balanced) x1 BGM (-20 dBV, unbalanced, stereo RCA jacks) x2 100V x1	S/N Ratio Over 60 dB
Outputs	Speaker lines with attenuator, selectable x5 Direct speaker output x1 Line (0 dBV, unbalanced, RCA jack) x1 Recording (0 dBV, unbalanced, RCA jack) x1 Preamplifier (0 dBV, unbalanced, RCA jack) x1	Microphone Unidirectional electret condenser microphone
Indicator	Zone, all-call, emergency, fault, power, 5-step level bargraph	Volume Control Microphone volume control
Dimensions	419 x 143.3 x 355.7 mm (W x H x D)	Connection and Cable Category 5 Shielded Twisted-Pair cable, RJ45 connector
Finish	ABS resin, Steel plate, dark grey	Function Keys Number of keys: 10 Function: "Broadcast zone selector" or "Automatic general broadcast Announcement Start" (Either function is assigned to individual keys by the dedicated software.)
Operating temperature	0 - 40 °C	Finish ABS resin, blueish gray (PANTONE 538 or equivalent)
Weight	14.5 kg	Dimensions 190(W) x 76.5(H) x 215(D) mm (7.48" x 3.0" x 8.5") (Gooseneck microphone excluded)
		Weight 750g (1.6 lbs)
		Accessories Link cable (3 m) x 1
		Option Wall mounting bracket: WB-RM200
		UL Certified UL 2572 and CAN/ULC-S576





Voice Alarm system

Model	VM-3360VA	VM-3360E
Power source	230 V AC, 50 / 60 Hz	230 V AC, 50 / 60 Hz 24 V DC
Power / current consumption	850 W (at rated output), 380 W (EN 62368-1)	850 W (rated output signal), 380 W (EN 60065)
Frequency response	50 Hz - 20 kHz	50 Hz - 20 kHz
Rated output	360 W total into 6 zones	360 W total into 6 zones
Control input	Control input 1 - 8: No-Voltage make contact input, open voltage: 24 V DC, short-circuit current: under 2 mA, removable terminal block (14 x 2 pins)	Input 1 - 8: No-Voltage make contact input, open voltage: 24 V DC, short-circuit current: under 2 mA, removable terminal block (14 pins)
Control output	Control output 1 - 8: Isolated open collector output, withstand voltage: 30 V DC, operating current: under 10 mA, removable terminal block (14 x 2 pins)	Output 1 - 8: Isolated open collector output, withstand voltage: 30 V DC, operating current: under 10 mA, removable terminal block (14 pins)
Inputs	Input 1 - 3: -50 dBV (MIC) / -10 dB (LINE) (changeable), 600 Ω , electronically balanced, combined XLR connector (female) / phone jack Input 4: -50 dBV (MIC) / -10 dBV (LINE) (changeable), 600 Ω , electronically balanced, on removable terminal block (14 x 2 pins) BGM 1 - 2: -10 dBV, 10 k Ω unbalanced, RCA pin jack (2 x 2) External amplifier Input: 100 V Line, removable terminal block (14 pins)	External amplifier Input: 100 V Line removable terminal block (14 pins) Local input -50 dBV (Mic) / -10 dBV (Line), 600 Ω / electronically balanced, removable terminal block (14 x 2 pins)
Outputs	Speaker output 1 - 6: Total within rated output, removable terminal block (14 pins) Direct output from internal or external amplifier, removable terminal block (16 pins) Recording output BGM / Paging 0 dBV, 10 k Ω , unbalanced, RCA pin jack	Speaker output 1 - 6: Total within rated output, removable terminal block (14 pins) Direct output from internal or external amplifier, removable terminal block (16 pins)
Indicator	Power, 5-segment bargraph level meter, selected zone, emergency zone active, evacuation active, alert active, front panel microphone active, general fault, CPU fault, menu driven LCD for date, IP address, password etc.	Power; 5-segment bargraph level meter, selected zone, emergency zone active, communication fault, CPU fault
Dimensions	482 x 132.6 x 431.2 mm (W x H x D)	482 x 132.6 x 407 mm (W x H x D)
Finish	Aluminium, Steel plate, black	Aluminium, Steel plate, black
Operating temperature	-5 °C to +45 °C	-5 °C to +45 °C
Weight	19 kg	19 kg



VM-3360VA



VM-3360E



Remote Microphone M-800RM

- Up to 12 different zones
- Zone LC display
- Zone selector with volume control
- Push-to-talk gooseneck microphone
- Status and communication indicators
- USB port to load Chimes sound files
- RD port, for connection to M-8080D
- 100 m cable length

M-800RM	
Power source	24 V DC (Powered by M-8080D or M-804EX)
Frequency response	20 Hz - 20 kHz (± 3 dB)
Audio output	0dBV, electronic balanced, RJ45 Connector
Inputs	USB port: Load WAV files for chimes sound
Controls	Microphone volume control and all zone selector
Indicator	LC-Display: Displays device information: ID, volume, zone selector LEDs: Input signal (Green) Input Peak (Red) Busy (Red) Communication (Green)
Directivity	Unidirectional
Operating temperature	0°C to + 40°C (32°F to 104°F)
Finish	Steel plate, surface-treated, paint, black
Dimensions	176 x 61.8 x 162.4 mm (W x H x D)
Weight	0,8 kg



Remote Audio Controller M-800RCT

- Input/Output signal routing
- Volume control
- Preset Control
- 4.3" touch screen
- Direct power supply by network cable
- LCD screen with output level display
- RD port IN, for connection to M-8080D
- RD port LINK for daisy chain connection
- 100m CAT5e cable length

M-800RCT	
Power source	24 V DC (Powered by M-8080D or M-804EX or external)
Indicator	Touch LC-Display Displays device information: ID, Volume, communication status
Inputs	RD In: Transmits and receives AES3 digital audio plus control data Connect to M-8080D, M-804EX or M-800RC, M-800RCT for daisy chain, RJ45 connector
Outputs	RD EXP: Transmits and receives control data Connect to M-800RC or M-800RCT, RJ45 connector
Controls	Volume / Routing / Presets
Operating temperature	0°C to +40°C
Finish	Polycarbonate, ABS resin, traffic white (RAL 9016 or equivalent), Panel.
Dimensions	150 x 115 x 28 mm (W x H x D)
Weight	0,3 kg



Port Expander M-804EX

- 1 digital port In (from M-8080D)
- 1 digital port Out for audio plus control
- 3 digital port Out for control only
- 24V DC power supply

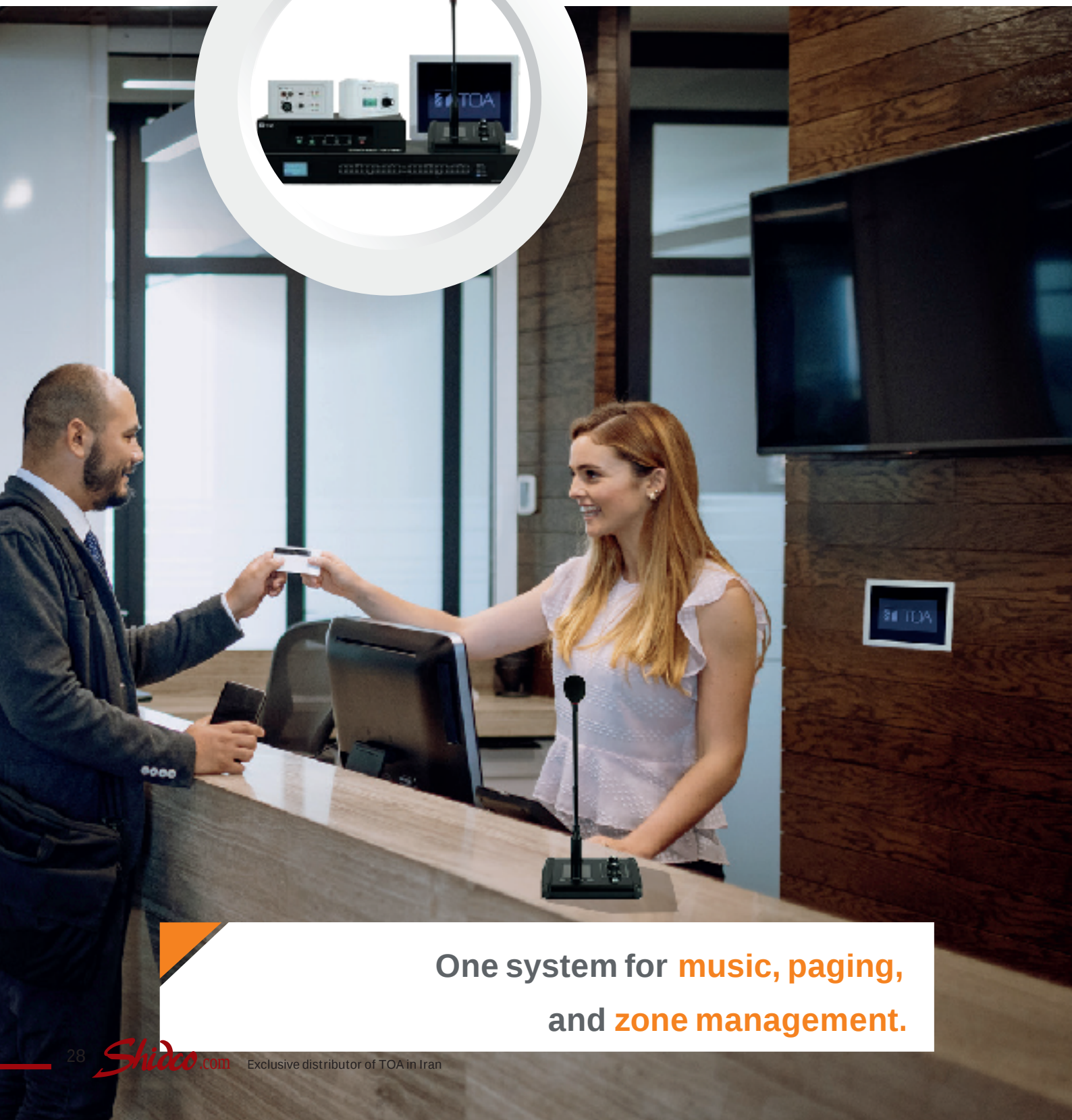
M-804EX	
Power source	24 V DC (Powered by M-8080D or external)
Indicator	RD IN (Green) RD exp audio (Green) RD exp control (Green) x3 Power (Red)
Inputs	RD IN: Transmits and receives AES3 digital audio plus control data Connect to M-8080D, RJ45 connector
Outputs	RD EXP: Port 1: transmits and receives AES3 digital audio and control data Connect to M-822IO, M-800RC, M-800RCT or M-800RM, RJ45 connector Port 2 - 4: transmits and receives control data connect to M-800RC or M-800RCT, RJ45 connector
Operating temperature	0°C to + 40°C (32°F to 104°F)
Finish	Aluminium, Steel, surface-treated, paint, black
Dimensions	196.2 x 44.2 x 133 mm (W x H x D)
Weight	0,9 kg





M-8080D Series

Digital Matrix Mixer System



One system for **music, paging,**
and **zone management.**

Remote Audio Controller M-800RC

- Input/Output signal routing
- Volume control
- Direct power supply by network cable
- LCD screen with output level display
- RD port IN, for connection to M-8080D
- RD port LINK for daisy chain connection
- 100m CAT5e cable length
- Input/Output signal routing
- Volume control
- Direct power supply by network cable
- 2 analog outputs
- LCD screen with output level display
- RD port IN, for connection to M-8080D
- 100m CAT5e cable length



M-802RC



M-800RC

M-800RC		M-802RC	
Power source	24 V DC (Powered by M-8080D or M-804EX or external)		
Frequency response	-	20 Hz - 20 kHz	
Distortion	-	< 0.01 %	
S/N ratio	-	105 dB (A weighted)	
Indicator	LC-Display Displays device information: ID, Volume, communication status		
Crosstalk	-	79 dB	
Inputs	RD In: Transmits and receives AES3 digital audio plus control data Connect to M-8080D, M-804EX o M-800RC, M-800RCT for daisy chain, RJ45 connector		
Outputs	RD EXP: Transmits and receives control data Connect to M-800RC or M-800RCT, RJ45 connector	Audio Output: Line output 1 - 2: 0 dBV, 1.8kOhm, Maximum output 20dBu (7.75V), electronic balanced, screw terminal (3 pins x 2)	
Controls	Volume / Routing		
Sampling Frequency	48 kHz, 24 bit		
Operating temperature	0°C to +40°C		
Finish	Polycarbonate, ABS resin, traffic white (RAL 9016 or equivalent), Panel.		
Dimensions	147 x 86 x 65 mm (W x H x D)		
Weight	0,3 kg		

Audio Input Output Module M-822IO

- Built-in A/D and D/A converter
- 2 analog inputs (MIC/ stereo line)
- 2 analog outputs
- Phantom Power
- Input Sensitivity
- Direct power supply by network cable
- RD port IN, for connection to M-8080D
- 100m CAT5e cable length



M-822IO	
Power source	24 V DC (Powered by M-8080D or M-804EX or external)
Phantom power	+48 VDC, MIC input, switchable
Frequency response	20 Hz - 20 kHz
Distortion	< 0.01 %
S/N ratio	105 dB (A weighted)
Indicator	LED Audio Input: 2x Signal (Green), 2x Peak (Red) LED Audio Output: 2x Signal (Green), 2x Peak (Red)
Crosstalk	79 dB
Inputs	RD In: Transmits and receives AES3 digital audio plus control data Connect to M-8080D, M-804EX or M-800RC, M-800RCT for daisy chain, RJ45 connector Audio input MIC Input: -48 dBV, 5.1 kOhm, electronic balanced, XLR connector Line input A-B: 0 dBV, 5.1kOhm, unbalanced, RCA pin jack
Outputs	Audio Output Line output 1 - 2: 0 dBV, 1.8 kOhm, Maximum output 20 dBu (7.75V), electronic balanced, screw terminal (3 pins x 2)
Controls	Volume / Routing
Sampling Frequency	48 kHz, 24 bit
Operating temperature	0°C to +40°C
Finish	Polycarbonate, ABS resin, traffic white (RAL 9016 or equivalent), Panel.
Dimensions	147 x 86 x 52 mm (W x H x D)
Weight	0,3 kg



Mixer Unit M-8080D

- 8 analog IN and 8 analog OUT
- 4 digital IN and 4 digital OUT
- DSP functionalities EQ, Compressor, Delay and more
- Easy and quick operation
- Intuitive GUI via PC
- Extended remote controller options



M-8080D	
Power source	220 - 240 V AC, 50 / 60 Hz
Phantom power	+48 VDC, switchable, Inputs 1 - 8
Frequency response	20 Hz - 20 kHz (± 3 dB)
Power consumption	40W
S/N ratio	105 dB (A weighted)
Indicator	LC-Display: Displays device information: name, firmware version, ID, communication status LEDs: Input: Analog Signal (Green)x8, Analog Peak(Red)x8, RD signal(Green)x4, RD Peak(Red)x4 Output: Analog Signal (Green)x8, Analog Peak(Red)x8, RD signal(Green)x4, RD Peak(Red)x4 Status: Fault(Red)x1, Comm(Green)x1, Power(Blue)x1
Crosstalk	79 dB
Inputs	AUDIO INPUT: 1-8: -48 to 0dBv, 6.8 k Ω , electronic balanced, removable terminal block (3 pins x8)
Outputs	AUDIO OUTPUT: 1-8: 0dBv, 1.8k Ω , Maximum output 20 dBu(7.75V), electronic balanced, removable terminal block (3 pins x 8)
Controls	CONTROL INPUT: GPI 1 - 2: no-voltage contact input, open voltage: 1.5V DC short-circuit current: Under 3 mA, RJ45 Connector x 2 CONTROL OUTPUT: Relay 1 - 2: withstand voltage: 24V DC, control current: Under 500 mA removable terminal block (4 pins) RD port: RD 9 - 12: transmits and receives AES3 digital audio plus control data. Connect remote devices such as M-822IO, M-800RC, M-802RC, M-800RCT and M-800RM, maximum cable length is 100 meters, RJ45 Connector x 2
Signal processing	Equalizer / Filter Gate Compressor Ducker Feedback Compression (FBC) Auto Mixer Delay
Sampling Frequency	48 kHz, 24 bit
Equalizer / Filter	5 band EQ (LPF and HPF) for IN and 8 band EQ (LPF and HPF) for OUT Parametric Equalizer: 19.7 - 20160 HZ, range: ± 18 dB, Q: 0.4 - 128, Type: peak/low/high
Compressor	Threshold: -30 to +20 dB in 1 dB steps Attack: 10 -150 ms Release: 10 ms - 1 s
Delay	0 - 1361.2916 ms
Matrix	8 x 8 12 x 12 (Expandable via optional equipment)
Operating temperature	0°C to +40°C (32°F to 104°F)
Finish	Aluminium, Steel plate, surface-treated, paint, black
Dimensions	483 x 44.2 x 259 mm (W x H x D)
Weight	4,6 kg



- Anti-bacterial treatment for all models (mouth, microphone and handle)
- High durability ABS or ASA resin construction
- Wide frequency range for enhanced audio quality
- Polyimide speaker diaphragms
- Wireless Function (ER-2930W only)
- Long-lasting battery life
- Compact and lightweight
- Neodymium magnets for high audio performance
- Extended audible range

Splashproof Hand Grip Type Megaphones

ER-1203

- 4W max
- IPX5*



ER-1206

- 10W max
- IPX5*



ER-1206W

- 10W max
- IPX5*
- with whistle



ER-1206S

- 10W max
- IPX5*
- with siren



»» Wall Mount Bracket

SP-1100

- Applicable models: ER-1203/ER-1206/ER-1206S/ER-1206W



*Protected against water jets by a nozzle against the enclosure from any direction

Hand Grip Type Megaphones

ER-520

- 10W max



ER-520W

- 10W max
- with whistle



ER-520S

- 10W max
- with siren



ER-125

- 23W max



ER-1215S

- 23W max
- with siren



ER-3215

- 23W max



Shoulder Type Megaphones

ER-2215

- 23W max



ER-2215W

- 23W max
- with whistle



ER-2230W

- 45W max
- with whistle



ER-2930W

- 45W max
- with whistle and wireless function





iran amp گارانتی ایران امپ

زیرمجموعه هلدینگ شیدکو است و خدمات پس از فروش محصولات
هلدینگ شیدکو را بر عهده دارد.

آدرس: خیابان فردوسی ، خیابان نوفل لوشاتو ، خیابان بابی ساندز ،
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