

# Public Address System

Rangkaian produk TOA Indonesia dan spesifikasinya untuk menjawab kebutuhan tata suara dan komunikasi pada ruang publik.



**We supply sound, not equipment**

# Mixer Amplifier

## Mixer Amplifier

### ZA-230W



<b>Model</b>	<b>ZA-230W</b>
Power Source	220V AC or 12V DC
Input	MIC 1-3 : -60dB* (1.0mV), 600Ω, Unbalanced, Phone Jack AUX : -24dB* (60mV), 10kΩ, Unbalanced, RCA pin jack
Output	Speaker Out : Floating Balanced; High Impedance : 330Ω(100V); Low Impedance: 4Ω(11V)
Weight	3.5kg

### ZA-2128M



<b>Model</b>	<b>ZA-2128M</b>
Power Source	220V AC or 24V DC
Output	High Impedance (100V): 2 x 83Ω Low Impedance (4Ω): 2 x 22V Rec Out: 0dB, 600Ω, Unbalanced, RCA Pin Jack Pre Amp Out: 2 x 0dB, 600Ω, Unbalanced, RCA Pin Jack
Input	MIC 1: -60dB*, 600Ω, Balanced, Phone Jack, Echo MIC 2-3: -60dB*, 600Ω, Balanced, Phone Jack MIC 4-5: -60dB*, 600Ω, Balanced, Phone Jack AUX 1-3: -10dB*, 10kΩ, Unbalanced, RCA Pin Jack PWR AMP IN: 2 x 0dB*, 10kΩ, Unbalanced, RCA Pin Jack
Phantom Power	ON or OFF for Mic 1 with switch setting (+21VDC)
Weight	19.3kg

\*0dB = 1V

## Mixer Amplifier

- ZA-2030 30W
- ZA-2060 60W
- ZA-2120 120W
- ZA-2240 240W



## Power Amplifier

- ZP-2240 240W



Model	ZA-2030	ZA-2060	ZA-2120	ZA-2240	ZP-2240
Power Req	220 - 240V AC or 24V DC				
Input	MIC 1-3: -60dB*, 600Ω, Balanced, Phone Jack AUX 1,2: -20dB*, 10kΩ, Unbalanced, RCA Pin Jack				Line in: 0dB*, 10kΩ, Balanced, Screw terminal 100V Line in: 40dB*, 330kΩ unbalanced, screw terminal Power remote control: Make Contact
Output Speaker Out High Impedance Low Impedance (4Ω) Rec Out	Balanced (floating) 330Ω(100V), 170Ω(70V) 11V 0dB,600Ω,Unbalanced, RCA Pin Jack	Balanced (floating) 170Ω(100V), 83Ω(70V) 15.5V 0dB,600Ω,Unbalanced, RCA Pin Jack	Balanced (floating) 83Ω(100V), 42Ω(70V) 22V 0dB,600Ω,Unbalanced, RCA Pin Jack	Balanced (floating) 42Ω(100V), 21Ω(70V) 31V 0dB,600Ω,Unbal- anced, RCA Pin Jack	Balanced (floating) 42Ω(100V), 21Ω(70V), 4Ω (31V)
Weight	5kg	7kg	10.8kg		13.2kg

\*0dB = 1V





Digital Mixer Amplifier

ZA-3200D-AS 1 Series

ZA-3212D-AS 1 120W

ZA-3224D-AS 1 240W

ZA-3248D-AS 1 480W



Model	ZA-3212D-AS 1	ZA-3224D-AS 1	ZA-3248D-AS 1
Power Source	100 - 240V AC, 50/60Hz	100 – 240V AC, 50/60Hz or 24V DC	
Input	MIC 1: 1mV (-60dB*), 600Ω, Balanced, Phone Jack, selectable to RJ45 with echo function MIC 2 - 3: 1mV (-60dB*), 600Ω, Balanced, phone jack MIC 4: 1mV (-60dB*), 600Ω, Balanced, phone jack, selectable to AUX 1 AUX 1: 100mV(-20dB*), 10kΩ, Unbalanced, RCA pin jack, selectable to MIC 4 AUX 2: 100mV(-20dB*), 10kΩ, Unbalanced, RCA pin jack		
Output	Speaker output in screw type terminal		
Speaker Out			
Direct line ( Selectable)	83Ω(100V) or 4Ω	42Ω(100V) or 4Ω	21Ω(100V) or 4Ω
Rec Out	0dB*, 600Ω, Unbalanced, RCA pin jack		
Phantom Power	DC +21V (MIC 1)		
Weight	4.6kg	5.1kg	5.4kg

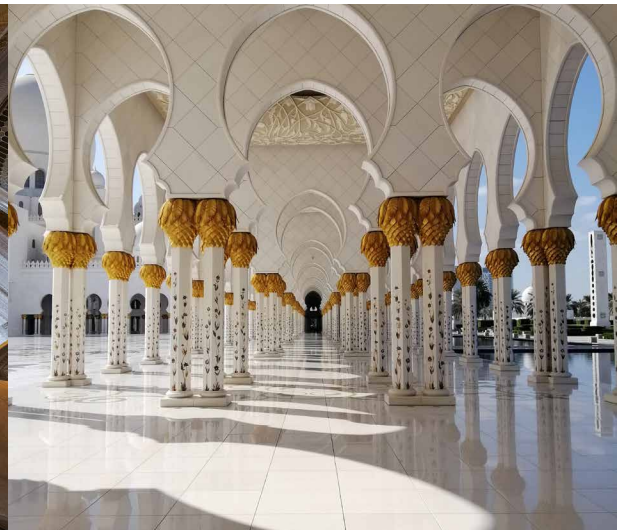
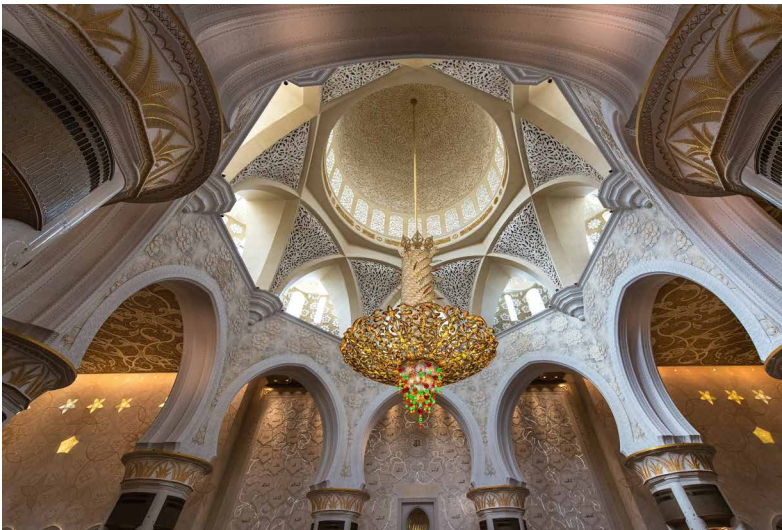
\*0dB = 1V

Digital Power Amplifier

ZP-3248D-AS 1



Model	ZP-3248D-AS 1
Power Source	100 - 240V AC, 50/60Hz or 24V DC
Input	Line In: 0dB*, 10kΩ, Balanced, screw terminal 100V Line In: 40dB*, 30kΩ, Unbalanced, screw terminal
Output	Speaker output in screw type terminal
Speaker Out	
Direct line ( Selectable)	21Ω(100V) or 4Ω
Loop Out	0dB*, 10kΩ, balanced, screw terminal
Weight	5.2kg



Car Amplifier

ZA-250S



Model	ZA-250S
Output	25W Rated
Input	Mic 600Ω unbalanced. Aux: 10kΩ unbalanced
Speaker Output	4Ω-8Ω
Weight	1.1kg

## Mixer Pre-Amplifier

### Z-MX9200-AS 1



- Wireless mixer
- Up to 9 inputs
- Can be controlled via an android touch screen device connected by bluetooth

<b>Model</b>	<b>Z-MX9200-AS 1</b>
Power Source	AC 220 - 240V, 14W
Audio Input	Input CH 1 with Phantom option 19 V DC: - CHIME MIC: Balanced, Selectable sensitivity -55 dB (1.8 mV)/ -30 dB (30 mV), 2.2 kΩ, rated 1 kHz, RJ45 connector - MIC: Balanced, Selectable sensitivity -55 dB (1.8 mV)/ -30 dB (30 mV), 2.2 kΩ, rated 1 kHz, Phone jack connector Input CH 2-4 with Phantom option 19 V DC: - Balanced, Sensitivity -55 dB (1.8 mV), 2.2 kΩ, rated 1 kHz, Phone jack connector Selectable Input CH 5 with options: - MIC: Balanced, Sensitivity -55 dB (1.8 mV), 2.2 kΩ, rated 1 kHz, Phone jack connector - AUX: Unbalanced, Sensitivity 0 dB, 10 kΩ, rated 1 kHz, RCA jack connector Selectable Sensitivity Input CH 6-8, Removable terminal 3 pins with sensitivity options: - LINE: Balanced, Sensitivity 0 dB, 2.2 kΩ, rated 1 kHz - MIC: Balanced, Sensitivity -55 dB (1.8 mV), 2.2 kΩ, rated 1 kHz Selectable Sensitivity Input CH 9, Removable terminal 3 pins with sensitivity options: - MIC: Balanced, Sensitivity -55 dB (1.8 mV), 2.2 kΩ, rated 1 kHz - STREAMING: Unbalanced, Sensitivity 0 dB, 10 kΩ, rated 1 kHz
Audio Output	Audio OUT A & B, Balanced, Removable terminal 3 pins Optional output level: 0 dB / -10 dB (300 mV) / -20 dB (100 mv), 600 Ω, rated 1 kHz
Control Output	9 Shortcut switch IN, 2 Shortcut switch OUT, 1 Shortcut switch VOLUME, 1 Shortcut switch Tone Control, 1 Shortcut switch Input Selection, 1 Navigation switch (Right, Left, Push)
Tone Control	Bass ± 13 dB at 100 Hz, Middle ± 13 dB at 1 kHz, Treble ± 13 dB at 10 kHz
Frequency Response	30Hz - 20kHz, ±3dB
Indicator	LCD display with backlight green, POWER indicator (green), STATUS indicator (green), SIGNAL indicator (green), PEAK indicator (red)
Connection	Bluetooth 4.2, USB Type B (PC Setting/Update Firmware)
Weight	3.3kg

## Wireless Amplifier

### Wireless Meeting Amplifier

#### ZW-G10CB-AS



<b>Model</b>	<b>ZW-G10CB-AS</b>
Power Source	AC In: 220-240V, 50/60Hz; DC In: 12V 1A, Max.18V; DC: 12V/2.3Ah (Rechargeable Battery)
Power Consumption	AC: 20W, 0.1A (at Rated Output); DC: 30W, 1.6A (at Output Power Max)
Output Power	20W Max
Frequency Response	60Hz - 20kHz, ±3dB
Inputs	Mic 1&2: -40dB* Unbalanced 5kΩ, 2 Pole-Phone Jack; AUX in: -20dB*, Unbalanced 10kΩ, RCA Pin Jack
Outputs	Audio Out: -25dB*, Unbalanced 40kΩ, RCA Pin Jack; Speaker Out: 8- 16Ω, RCA Pin Jack
Source	Handheld Microphone, Frequency Range 180 - 200MHz; RF Power Output <10mW; Body Pack Microphone (can be used with Tieclip Mic or Headset Mic), Frequency Range 180 - 200MHz; RF Power Output <10mW; USB Player (support up to 32GB), recording function, Type of File (MP3 file and Wav file) SD/MMC Card Player (support up to 32GB), recording function, Type of File (MP3 file and Wav file) Bluetooth Connection, Class 2, Freq. : 2400 - 2483.5MHz, CH : 0-78, Max. RF Transmit Power +4dBm; Cassete Player, recording function FM Radio (88 - 108Mhz)
Weight	3.8kg
Accessory	Power Cord (1.5m) x 1; Remote Control x 1; and inside the battery type CR2025 3V x 1; Handheld Wireless Mic x 1; Body Pack Wireless Mic x 1; Headset Mic x 1; Tieclip Mic x 1

\*0dB: 1V; Specification are measured on 220V AC



## Accessories

Attenuator

ZV-064

ZV-303



Model	ZV-064	ZV-303
Input Capacity	6W	30W
Level Control	4 step; 0(OFF), 1,2,3	
Material	ABS Resin	
Weight	190g	

## Horn Speaker

Paging Horn Speaker

ZH-610S | ZH-610SM

ZH-615S | ZH-615SM

ZH-625S | ZH-625SM



Model	ZH-610S	ZH-610SM	ZH-615S	ZH-615SM	ZH-625S	ZH-625SM
Rated Input	10W		15W		25W	
Rated Impedance	8Ω	100V Line: 10W, 5W, 3W, 1W	8Ω	100V Line: 15W, 10W, 5W, 3W	8Ω	100V Line: 25W, 15W, 10W, 5W
Weight	1kg	1.2kg	1.1kg	1.3kg	1.7kg	2.1kg

Horn Speaker

ZH-615R | ZH-615RM



Model	ZH-615R	ZH-615RM
Rated Input	15W	
Rated Impedance	8Ω	100V Line: 670Ω (15W), 1kΩ(10W), 2kΩ(5W), 3.3kΩ(3W)
Weight	1.1kg	1.3kg

ZH-5025B/5025BM



Model	ZH-5025B	ZH-5025BM
Rated Input	25W	
Rated Impedance	16Ω	100V line: 25W, 15W, 10W, 5W
Sound Pressure Level (100W/1m)	108dB	
Frequency Response	200 - 6.500Hz	
Weight	3.9kg	4.2kg

## ZH-5050-AS/ZH-5050M-AS



Model	ZH-5050-AS (Tanpa Transformer)	ZH-5050M-AS (Dengan Transformer)
Rated Input	50W	
Rated Impedance	16Ω, Low Impedance	100V line: 200Ω (50W), High Impedance
Sound Pressure Level (100W/1m)	110dB(1W,1m)	
Frequency Response	160Hz - 6kHz	
Dust/Water Protection	IP65	
Weight	4.4kg	5kg

## ZH-652T



Model	ZH-652T
Driver	ZH-652D-AS
IP Code	IP65
Weight	2.7kg

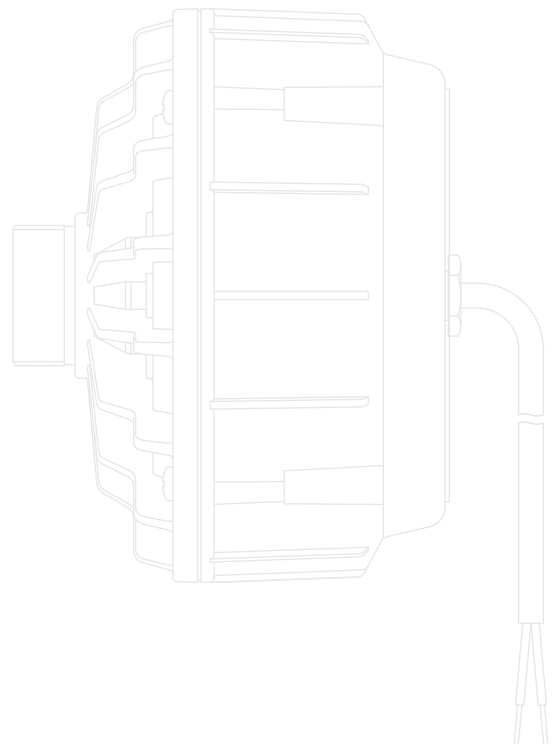
### Driver Unit

#### ZH-662D-AS (a)

#### ZH-662MD-AS (b)



Model	ZH-662D-AS	ZH-662MD-AS
Horn	ZH-652T	
Rated Input	60W	
Rated Impedance	16Ω	100V Line: 170Ω (60W), 330Ω (30W), 670Ω (15W)
Sound Pressure Level (1W/1m)	110dB (1W, 1m)	
Frequency Response	150 - 8.000Hz (when operated with JIS C5504 standard horn)	
Weight	2kg	2.7kg





# Column Speaker

## Metal Case Column Speaker

ZS-102C



ZS-202C



Model	ZS-102C	ZS-202C
Rated Input	10W	20W
Rated Impedance (100V Line)	1k $\Omega$ (10W), 2k $\Omega$ (5W)	500 $\Omega$ (20W), 1k $\Omega$ (10W)
Sound Pressure Level (1W/1m)	90dB	93dB
Frequency Response	150 - 10.000Hz	
Color	Casing: Silver Gray; Grille: Black	
Weight	3.4kg	5.1kg

## Column Speaker



ZS-203CB  
ZS-203CBWP  
ZS-203CW  
ZS-203CWWP



ZS-403CB  
ZS-403CBWP  
ZS-403CW  
ZS-403CWWP



ZS-603CB  
ZS-603CBWP  
ZS-603CW  
ZS-603CWWP

Model	ZS-203CB	ZS-203CW	ZS-403CB	ZS-403CW	ZS-603CB	ZS-603CW
Rated Input	20W		40W		60W	
Rated Impedance (100V Line)	500 $\Omega$ (20W), 1k $\Omega$ (10W), 2k $\Omega$ (5W), 4k $\Omega$ (2.5W)		250 $\Omega$ (40W), 500 $\Omega$ (20W), 1k $\Omega$ (10W), 2k $\Omega$ (5W)		170 $\Omega$ (60W), 330 $\Omega$ (30W), 670 $\Omega$ (15W), 1,3k $\Omega$ (7.5W)	
Rated Impedance (70V Line)	500 $\Omega$ (10W), 1k $\Omega$ (5W), 2k $\Omega$ (2.5W), 4k $\Omega$ (1.3W)		250 $\Omega$ (20W), 500 $\Omega$ (10W), 1k $\Omega$ (5W), 2k $\Omega$ (2.5W)		170 $\Omega$ (30W), 330 $\Omega$ (15W), 670 $\Omega$ (7.5W), 1,3k $\Omega$ (3.8W)	
Sound Pressure Level (1W/1m)	90dB		93dB		95dB	
Sound Pressure Level (1W/1m) (Weatherproof Type)	ZS-203CBWP	ZS-203CWWP	ZS-403CBWP	ZS-403CWWP	ZS-603CBWP	ZS-603CWWP
	89dB		92dB		94dB	
Frequency Response	150 - 16.000Hz					
Frequency Response (Weatherproof Type)	ZS-203CBWP	ZS-203CWWP	ZS-403CBWP	ZS-403CWWP	ZS-603CBWP	ZS-603CWWP
	150 - 13.000Hz					
Weight (Unit only)	1.9kg		3.5kg		5.5kg	

Available in Weatherproof

## Slim Array Speaker

ZS-S60CW/CB (a)

ZS-S240CW (b)



Model	ZS-S60CB/CW	ZS-S240CW-AS
Type	Bass reflex type	
Max. Input Power	120W	240W
Rated Input	60W	-
Rated Impedance	100V line: 167 $\Omega$ (60W), 330 $\Omega$ (30W), 500 $\Omega$ (20W), 1k $\Omega$ (10W); low impedance: 8 $\Omega$	8 $\Omega$
Sound Pressure Level (1W/1m)	95dB	94dB
Frequency Response	180Hz-15kHz	95Hz-20kHz
Weight	8.2kg	17kg

# Ceiling Speaker

## Flush Mount Ceiling Speaker

### ZS-658R



<b>Model</b>	<b>ZR-658R</b>
<b>Rated Output</b>	6 W (100 V Line), 3 W (70 V Line)
<b>Rated Impedance</b>	100 V Line: 1.7 kΩ (6 W), 3.3 kΩ (3 W), 10 kΩ (1 W) 70 V Line: 1.7 kΩ (3 W), 3.3 kΩ (1.5 W), 10 kΩ (0.5 W)
<b>Sensitivity</b>	90dB (1W/1m)
<b>Frequency Response</b>	65 Hz - 18 kHz
<b>Weight</b>	500g

### ZS-1860-AS



### ZS-2360-AS



<b>Model</b>	<b>ZS-1860-AS</b>	<b>ZS-2360-AS</b>
<b>Rated Noise Power</b>	6 W (100 V Line), 3 W (70 V Line)	
<b>Rated Impedance</b>	100V line: 1.7kΩ(6W), 3.3kΩ (3W), 6.7kΩ (1.5W), 13kΩ (0.8W) 70V line: 1.7 kΩ(3W), 3.3kΩ (1.5W), 6.7kΩ (0.8W), 13kΩ (0.4W)	
<b>Sensitivity</b>	94dB (1W, 1 m) (330Hz -3.3kHz, pink noise)	
<b>Frequency Response</b>	55Hz - 20kHz (pink noise -20dB)	45 Hz - 20 kHz (pink noise -20 dB)
<b>Speaker Component</b>	12cm (5") cone-type	16 cm (6") cone-type
<b>Dimensions for Fixing Hole</b>	Mounting hole: $\varnothing 150 \pm 3\text{mm}$ (5.91" $\pm$ 0.12") Ceiling thickness: 5 - 25mm (0.2" - 0.98")	Mounting hole: $\varnothing 200 \pm 3\text{mm}$ (7.87" $\pm$ 0.12") Ceiling thickness: 5 - 25mm (0.2" - 0.98")
<b>Speaker Mounting Method</b>	Suspension Spring	
<b>Connection</b>	Push wire connection (Bridging terminal 2 - branch type)	
<b>Weight</b>	590g	900g

\* RAL 9016 equivalent

# Foreground Music Speaker System

## Wide Dispersion Speaker


### ZS-F1000Series



<b>Model</b>	<b>ZS-F1000B/W</b>	<b>ZS-F1000BM/WM</b>
<b>Rated Input</b>	90W (continuous program)	15W
<b>Rated Impedance (100V Line)</b>	8Ω	100V Line: 670Ω(15W), 2kΩ(5W), 3.3kΩ(15W), 3.3kΩ(3W), 10kΩ (1W)
<b>Sound Pressure Level (1W/1m)</b>	87dB	
<b>Frequency Response</b>	85 - 20.000Hz, -10dB installation in 1/2 free sound field	
<b>Speaker Component</b>	Low: 10cm cone, High: Balanced dome tweeter	
<b>Weight</b>	1.8kg (including the supplied bracket)	2kg (including the supplied brackets)

### ZS-F2000 Series



<b>Model</b>	<b>ZS-F2000B/W</b>	<b>ZS-F2000BM/WM</b>	<b>ZS-F2000BMWP/WMWP</b> 
<b>Rated Input</b>	180W (continuous program)	60W	
<b>Rated Impedance (100V Line)</b>	8Ω	100V Line: 170Ω(60W), 330Ω(30W), 670Ω(15W), 3.3kΩ(3W)	
<b>Sound Pressure Level (1W/1m)</b>	92dB		
<b>Frequency Response</b>	65 - 20.000Hz, -10dB installation in 1/2 free sound field		
<b>Speaker Component</b>	Low: 20cm cone, High: 2.5cm dome tweeter		
<b>Weight</b>	6.5kg (including the supplied bracket)	7.4kg (including the supplied brackets)	







## Universal Speaker

### Box Speaker

#### ZS-062



<b>Model</b>	<b>ZS-062</b>
Rated Input (100V line)	6W
Frequency Response	100 - 12.000Hz
Sound Pressure Level (1W/1m)	90dB
Weight	2.1 kg

### 2-Way Universal Speaker

#### ZS-1030B/W



<b>Model</b>	<b>ZS-1030B</b>	<b>ZS-1030W</b>
Rated Input	30W	
Rated Impedance	8Ω 100V line: 330Ω(30W), 500Ω(20W), 670Ω(15W), 1kΩ(10W), 2kΩ(5W) 70V line: 170Ω(30W), 250Ω(20W), 330Ω(15W), 500Ω(10W), 1kΩ(5W)	
Sound Pressure Level (1W/1m)	90dB	
Frequency Response	70 - 20.000Hz	
Weight	2.5kg	

## Microphone

### Unidirectional Microphone

#### ZM-260



#### ZM-320



#### ZM-420



#### ZM-520



#### ZM-270



<b>Model</b>	<b>ZM-260</b>	<b>ZM-320</b>	<b>ZM-420</b>	<b>ZM-520</b>	<b>ZM-270</b>
Type	Dynamic Microphone				Moving Coil Microphone
Directivity	Unidirectional				
Rated Impedance	600Ω				
Rated Sensitivity	-75dB ± 3dB(at 1kHz)	-76dB ± 3dB(at 1kHz)	-72dB ± 3dB(at 1kHz)	-70dB ± 3dB(at 1kHz)	-50dB (1kHz, 0dB = 1V/Pa)
Frequency Response	100Hz - 12kHz		80Hz - 13kHz	50Hz - 16kHz	100Hz - 15kHz
Weight	420g (without cable)	304g (without cable)	280g (without cable)	232g (without cable)	315g (without cable)

Gooseneck Microphone

ZM-380-AS      ZM-380C-AS



Model	ZM-380-AS	ZM-380C-AS
Element	Condenser Microphone	Condenser Microphone (with 4-Tones Chime (Up/Down))
Polar Pattern	Cardioid	
Rated Impedance	750Ω, balanced	600Ω, balanced
Rated Sensitivity	-39dB ±1dB (1kHz, 0dB = 1V/Pa)	-41dB ±3dB (1kHz, 0dB = 1V/Pa)
Power	3V DC (2 x "AA Batteries) or phantom power (9-52V)	6V DC (4 x "AA Batteries) or DC adapter (9-24V)
Frequency Response	50-16kHz	50-18kHz
Output Connector	XLR-3-32 Equivalent	XLR-3-32 Equivalent RJ45 : Audio output, power supply, contact output
Weight	550g (excludes batteries)	558g (excludes batteries)

Tie Clip Microphone

ZM-361-AS



Model	ZM-361-AS
Type	Electret Condenser Microphone
Directivity	Unidirectional
Rated Impedance	2kΩ, unbalanced
Sensitivity	-35dB (1kHz, 0dB = 1 V/Pa)
Frequency Response	100 - 18.000Hz
Finish	Case: ABS Black
Weight	153g (without battery)

Neck Worn Microphone

ZM-362-AS



Model	ZM-362-AS
Type	Electret Condenser Microphone
Sensitivity	-35dB, ±3dB (1kHz 0dB = 1V/Pa)
Frequency Response	60 - 20.000Hz
Finish	Battery case unit, switch unit, mic unit : ABS resin, Black Flexible Shaft : Cooper Alloy, Black, Paint, Shield Tube Wire Hanger : Steel wire shield rubber, Black, Paint
Weight	190g (exclude batteries)

Headset Microphone

ZM-370HS-AS



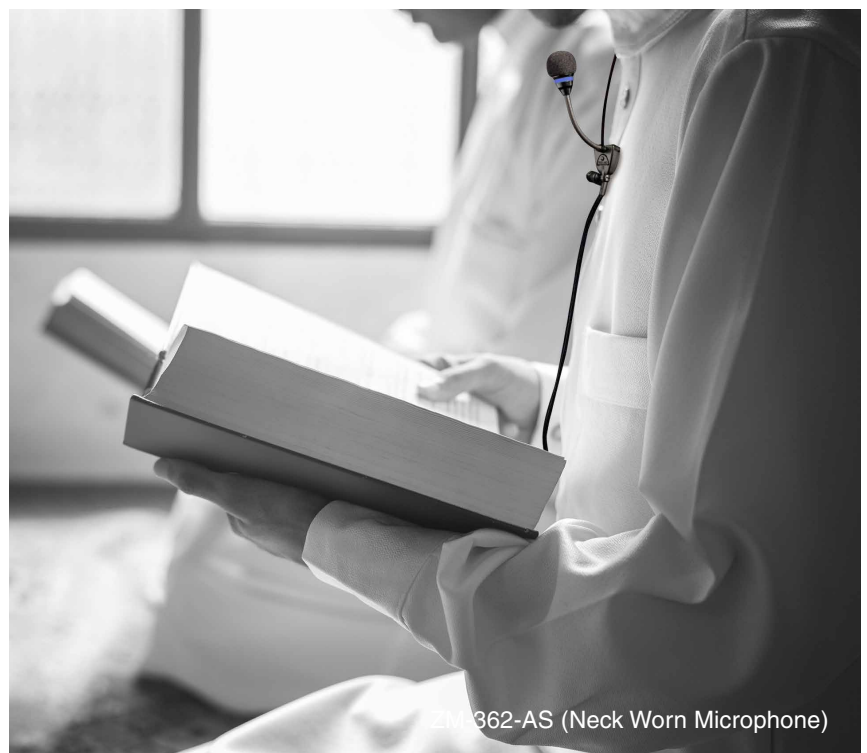
Model	ZM-370HS-AS
Type	Electret Condenser Microphone
Directivity	Unidirectional
Rated Impedance	2.5kΩ, unbalanced
Rated Sensitivity	-51dB (1kHz, 0dB = 1V/Pa)
Frequency Response	50Hz - 12.000Hz
Cable Length	10m
Connector	1/4" unbalanced phone Jack
Weight	142g (without battery)
Battery	1pc x AA (R6S or UM-3U)

Headset Microphone

ZM-371HS-AS



Model	ZM-371HS-AS
Type	Electret Condenser Microphone
Directivity	Unidirectional
Rated Impedance	5.6kΩ, unbalanced
Rated Sensitivity	-37dB, ±3dB (1kHz 0dB = 1V/Pa)
Frequency Response	100Hz - 20.000Hz
Cable Length	10m
Connector	1/4" unbalanced phone Jack
Weight	154g (without battery)
Battery	1pc x AA (R6S or UM-3U)



ZM-362-AS (Neck Worn Microphone)



## Paging Microphone

### ZM-660D/P



Model	ZM-660D	ZM-660P
Directivity	Unidirectional, Dynamic type	
Rated Impedance	600Ω, Balanced	600Ω, Unbalanced
Rated Sensitivity	-58dB (1kHz, 0dB = 1V/Pa)	
Frequency Response	100 -10kHz	
Remote Control	500mA or less than 30V DC	-
Output	φ 5.0 (φ 0.2"), 4 -conductor cable (2-shielded) cable (2.5m (98.43") with 5 Pin Din plug	φ 4.5 (φ 0.18"), 2 -conductor cable (1-shielded) cable (2.5m (98.43") with Mono phone plug
Weight	440g	

## Condenser Microphone

### ZM-300-AS



Model	ZM-300-AS
Power Source	AA (R6S or UM-3U) battery x 1pc (1.5VDC)
Type	Electret Condenser Microphone
Rated Impedance	2.2kΩ (at 1kHz, unbalanced)
Sensitivity	-49dB (1kHz, 0dB = 1V/Pa)
Frequency Response	50Hz -18kHz
Cable Microphone	φ 6.0mm x 7500mm, 1 - core shielded cable
Connector	XLR Type female with 1/4" (6.3mm) phone plug
Weight	550g (excludes batteries)

## Megaphone

### Hand Grip Megaphones

#### ZR-510 ZR-510S ZR-510W



Model	ZR-510	ZR-510S	ZR-510W
Rated Output	6W		
Power Source	12V DC R6P (SUM-3)/ "AA" Batteries 8pcs		
Audible Range	Approx.250m	Talk: Approx.250m, Siren: Approx.315m	
Outer Horn Diameter	1600mm		
Length	260mm		
Weight	620g		650g
Color	Off-white and gray	Red	Off-white and gray

#### ZR-1015 ZR-1015S



Model	ZR-1015	ZR-1015S
Rated Output	15W	
Power Source	9V DC R14P (SUM-2)/"C" Batteries 6pcs	
Weight	970g	980g

#### ZR-3215 ZR-3215S



Model	ZR-3215	ZR-3215S
Rated Output	15W	
Power Source	R14P(C) x Batteries 6pcs (9V DC)	9V DC R14P (SUM-2)/"C" Batteries 6pcs
Audible Range	Approx.400m (JEITA)*	
Battery Life	Approx.9 hours(JEITA)*	
Weight	Body: 1.15kg (without batteries and microphone); microphone:150g	

\*JEITA : Japan electronics and information technology industries association

## Shoulder Megaphones

ZR-2015  
ZR-2015S  
ZR-2015W



Model	ZR-2015	ZR-2015S	ZR-2015W
Rated Output	15W		
Power Source	9V DC R14P (SUM-2)/ "C" Batteries 6pcs		
Audible Range	Approx.400m	Talk: Approx.400m, Siren: Approx.500m	Talk: Approx.400m, Whistle: Approx.500m
Sirene Mode	-	Push to Talk, override the sirene signal	Push to Talk, override the whistle signal
Weight	970g	980g	
Microphone Weight	130g(cable excluded)		

## Powered Sequencer

Z-PD1835-AS 1 



Model	Z-PD1835-AS 1
Power Source	AC 220V, 50/60Hz, Max. 3500W Max. load 16A
AC Outlet	8 AC outlets, Type C (2 pins plug), 10A
Indicator	Power indicator light green Sequence indicator light green
Control	2 Input, 2 Output No-voltage make contact input, open voltage : 5V DC, Short-circuit current: Under 5mA, removable terminal block (6 pins)
Cascade	Max. 4 units
Step Timing	1 second per AC outlets
Weight	3.5kg

## Wireless Tuner

ZW-T502H-AS 



Model	ZW-T502H-AS
Power Source	AC Adapter : 100 - 240V AC, 50/60Hz
Power Consumption	200mA (13.5V DC, when operating with two tuner modules)
Receiving Frequency	488MHz - 506MHz
Audio Output	Mixed Audio : -0dB(*1), 5kΩ, unbalanced, phone jack Balance A : 0dB(*1), 10kΩ, balanced, XLR -3-32 type connector Balance B : 0dB(*1), 10kΩ, balanced, XLR -3-32 type connector
Weight	380g (Without Microphone)
Accessory	AC adapter ...1, Mic Holder ....2, Microphone Handheld...2, Phone Jack Cable...1



# Media Player

## Z-MD100A-AS



<b>Model</b>	<b>Z-MD100A-AS</b>
Power Source	12-24V DC
Current Consumption	150mA (at 12V), 200mA (at 24V)
Frequency Response	30Hz - 20,000Hz
Audio Input	USB port for memory stick (up to 32GB, Type file : MP3 file) SD/MMC card slot (up to 32GB, Type file: MP3 file) RCA audio input L and R channels for recording Bluetooth FM antenna terminals
Audio Output	RCA audio output L and R channels
Antenna	Terminal Plug
Operating Temperature	0°C to + 40°C
Finish	Case : ABS resin, black
Dimensions	210(W) x 44(H) x 186.7(D) mm
Weight	535g (1.18)lbs
Accessories	Remote Control ... 1, Removable Terminal Plug (2 pins)...1, AC/DC Adaptor...1, Cable Audio RCA-2 to RCA-2...1
Option	Rack mounting bracket : MB-WT3 (for rack mounting one unit); MB-WT4 (for rack mounting two unit)

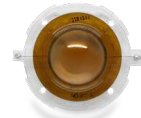
# Diaphragm

## ZG-10CA



<b>Model</b>	<b>ZG-10CA</b>
Applicable Driver Units	ZH-625S, SH-625SM
Rated Input	30W (When operated with ZR-2230W)
Rated Impedance	8Ω
Sound Pressure Level	107dB (1W,1m)
Frequency Response	300 - 6.500Hz
Dimensions	φ76 x 39(D)mm
Weight	11g

## ZG-30DA ZG-30DB



<b>Model</b>	<b>ZG-30DA</b>	<b>ZG-30DB</b>
Applicable Driver Units	ZH-5025B, ZH-5025BM	ZH-5025B, ZH-5025BM, ZH-5050M, ZH5050
Rated Input	25W	50W
Rated Impedance	16Ω	
Sound Pressure Level	110dB(1W,1m)	
Frequency Response	150 - 6.000Hz	
Dimensions	φ104 x 24(D)mm	
Weight	24g	

## ZG-50A ZG-60BA



<b>Model</b>	<b>ZG-50A</b>	<b>ZG-60BA</b>
Applicable Driver Units	ZH-662D-AS, ZH-662MD-AS	ZH-610S/SM, ZH-615S/SM, ZH-615R/RM, ZR-1015/S, ZR-2015/S/SP/W, ZR-510/S, ZR-604W, ZR-1215, ZR-3215/S, ZR-2215/W
Rated Input	60W	15W (When operated with ZH-615S)
Rated Impedance	16Ω	8Ω
Sound Pressure Level	112dB (1W,1m)	109dB (1W,1m)
Frequency Response	150 - 8.000Hz	333 - 10.511Hz
Dimensions	φ104 x 13(D)mm	φ64 x 28,6(D)mm
Weight	35g	8,81g

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