

## Pilihan Paket Tata Suara Terbaik Rekomendasi untuk Musholla dan Masjid



Ibadah tidak pernah lepas dari kita sebagai umat manusia. Ketika kita berdoa kepada-Nya, ketulusan hati adalah yang paling utama yang kita berikan. Kami berupaya mendukung Anda, agar ketika beribadah terasa semakin bermakna tanpa adanya kendala tata suara.



[toa.co.id](http://toa.co.id)



## Rekomendasi paket tata suara untuk Mushola ± 7m x 7m

- 2 Unit Universal Speaker ZS-1030B/W
- 1 Unit Mixer Power Amplifier ZA-2120
- 2 Unit Horn Speaker ZH-5025BM
- 1 Unit Condenser Microphone ZM-300-AS
- 1 Unit Tie Clip Microphone ZM-361-AS



## Rekomendasi paket tata suara untuk Masjid ± 15m x 15m

- 4 Unit Universal Speaker ZS-1030B/W **atau** 4 Unit Wide Dispersion Speaker ZS-F2000BM/WM
- 1 Unit Mixer Power Amplifier ZA-2120
- 1 Unit Mixer Power Amplifier ZA-2240
- 4 Unit Horn Speaker 50W with transformer ZH-5050M-AS
- 1 Unit Unidirectional Microphone ZM-420
- 1 Unit Gooseneck Microphone ZM-380-AS
- 1 Unit Headset Microphone ZM-370HS-AS **atau** 1 Unit Tie Clip Microphone ZM-361-AS
- 1 Set Wireless Tuner ZW-T502H-AS

### Horn Speaker



50W



25W

Model	ZH-5050M-AS (Dengan Transformer)
Rated Input	50W
Rated Impedance	100V line: 200Ω (50W), High Impedance
Dust/ Water Protection	IP65
Weight	5kg

Model	ZH-5025BM
Rated Input	25W
Rated Impedance	100V line: 25W, 15W, 10W, 5W
Sound Pressure Level	108dB (1W/1m)
Weight	4.2kg

### Mixer Power Amplifier

(a)



(b)



Model	ZA-2120 (a)	ZA-2240 (b)
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	
Output Speaker Out High Impedance Low Impedance (4Ω) Rec Out	Balanced (floating) 83Ω(100V), 42Ω(70V) 22V 0dB, 600Ω, Unbalanced, RCA Pin Jack	Balanced (floating) 42Ω(100V), 21Ω(70V)31V 0dB, 600Ω, Unbalanced, RCA Pin Jack
Weight	10.8kg	13.2kg

(\*1) 0dB = 1 V



## Rekomendasi paket tata suara untuk Mushola ± 10m x 10m

- 2 Unit Universal Speaker ZS-1030B/W
- 2 Unit Mixer Power Amplifier ZA-2120
- 4 Unit Horn Speaker ZH-5025BM
- 1 Unit Condenser Microphone ZM-300-AS
- 1 Unit Tie Clip Microphone ZM-361-AS



## Rekomendasi paket tata suara untuk Masjid ± 20m x 20m

- 4 Unit Wide Dispersion Speaker ZS-F2000BM/WM **atau** 4 Unit Line Array Speaker ZS-S60CB/CW **(jika ruangan bergema)**
- 1 Unit Mixer Power Amplifier ZA-2120
- 1 Unit Mixer Power Amplifier ZA-2240
- 4 Unit Horn Speaker 50W with transformer ZH-5050M-AS
- 1 Unit Unidirectional Microphone ZM-520
- 1 Unit Gooseneck Microphone ZM-380-AS
- 1 Unit Headset Microphone ZM-370HS-AS **atau** 1 Unit Tie Clip Microphone ZM-361-AS
- 1 Set Wireless Tuner ZW-T502H-AS

### Universal Speaker



<b>Model</b>	<b>ZS-1030B/W</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	90dB (1W/1m)
Weight	2.5kg

### Wide Dispersion Spaker



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

## Slim Array Speaker



<b>Model</b>	<b>ZS-S60CW/CB</b>
Type	Bass reflex type
Max.Input Power	120W
Rated Input	60W
Rated Impedance	100V line: 167 $\Omega$ (60W), 330 $\Omega$ (30W), 500 $\Omega$ (20W), 1k $\Omega$ (10W); low impedance: 8 $\Omega$
Sound Pressure Level	95dB (1W/1m)
Frequency Response	180Hz-15kHz
Speaker Components	8cm (3") cone-type x 9
Weight	8.2kg

## Unidirectional Microphone



<b>Model</b>	<b>ZM-420 (a)</b>	<b>ZM-520 (b)</b>
Type	Dynamic Microphone	
Rated Impedance	600 $\Omega$	
Weight	280g (without cable)	232g (without cable)
Connection Cable	$\phi$ 6mm x 7.5m, 1- core shielded cable (unbalanced), 3P XLR type connector to phone plug.	

## Condenser Microphone



<b>Model</b>	<b>ZM-300-AS</b>
Power Source	AA (R6S or UM-3U) battery x 1pc (1.5VDC)
Frequency Response	50Hz -18kHz
Cable Microphone	$\phi$ 6.0mm x 7500mm, 1 - core shielded cable
Connector	XLR Type female with 1/4" (6.3mm) phone plug
Weight	254g (Microphone Only)



<b>Model</b>	<b>ZM-370HS-AS</b>
Type	Electret Condenser Microphone
Cable Length	10m
Connector	1/4" unbalanced phone Jack
Dimensions	89.5(W) x 38(H) x 19(D) in mm
Weight	142g (without battery)
Battery	1pc x AA (R6S or UM-3U)

## Tie Clip Microphone



<b>Model</b>	<b>ZM-361-AS</b>
Power Source	Electret Condenser Microphone
Frequency Response	2kΩ, unbalanced
Cable Microphone	153g (without battery)
Connector	1Pc x 1.5V "AA" Size Batery (R6S or UM-3U)

## Gooseneck Microphone



<b>Model</b>	<b>ZM-380-AS</b>
Element	Condenser Microphone
Power	3V DC (2 x "AA Batteries) or phantom power (9-52V)
Output Connector	XLR-3-32 Equivalent
Weight	550g (excludes batteries)

## Wireless Tuner



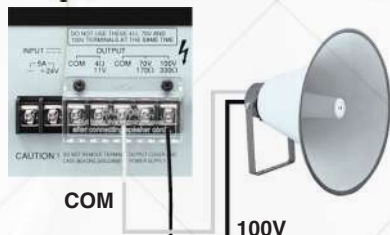
<b>Model</b>	<b>ZW-T502H-AS</b>
Power Source	AC Adapter : 100 - 240V AC, 50/60Hz
Power Consumption	200mA (13.5V DC, when operating with two tuner modules)
Receiving Frequency	488MHz - 506MHz
Weight	380g (0.84lb) (without microphone)
Accessory	AC adapter...1, Mic Holder....2, Microphone Handheld...2, Phone Jack Cable...1

## Cara Pemasangan Speaker ke Amplifier

Untuk speaker yang dilengkapi dengan matching trafo atau speaker high impedance :

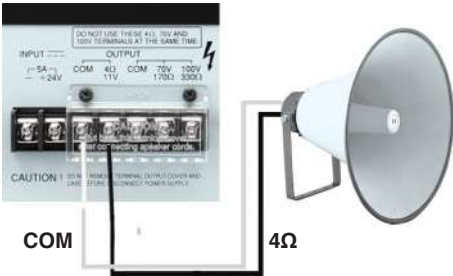
Contoh tipe High Impedance Speaker:

ZH-5052BM	ZS-102C	ZS-646R
ZA-5050M-AS	ZS-202C	ZS-64
ZH-610SM	ZS-1030B/W	ZS-154
ZH-615SM	ZS-062	ZS-254
ZH-615RM	ZS-645R	





Untuk speaker tanpa trafo atau speaker low impedance :



Contoh tipe Low Impedance Speaker:

- ZH-5052B
- ZH-5050-AS
- ZH-662D-AS
- ZH-615S
- ZH-615R
- ZH-625S

## Cara menggunakan amplifier yang baik dan benar



- 1** Pastikan jumlah keluaran watt dari keseluruhan speaker yang akan dipasang tidak melebihi kapasitas dari keluaran watt amplifier.
- 2** Pastikan kabel untuk COM (-) dihubungkan ke terminal COM (-) dan kabel 100V (+) dihubungkan pada terminal 100V (+).
- 3** Jangan memasang speaker impedansi tinggi dan rendah secara bersamaan.\*
- 4** Gunakan kabel dengan ukuran minimal 2x1.5mm.
- 5** Jika menggunakan tegangan DC, pastikan polaritas kabel (+) dan (-) tidak terbalik. Apabila terjadi kerusakan, bawalah amplifier tersebut ke pusat pelayanan servis resmi terdekat di kota Anda.

\* Untuk ZA-2000 series

