



## Column Speaker

Generally speaking, column speakers are installed one by one vertically into 4-10 cone speakers. Such an arrangement causes a strong vertical directivity and a more obvious directivity for high frequencies. Columns are especially suitable for buildings with a high echo, like churches, large workshops and the like.

Two to six cone angle speakers are installed inside one column speaker. This structure boasts a strong directivity, especially that of high frequencies. It also contributes to the improvement of the sounds' quality. Column speakers, in particular, suit buildings with a high echo, such as churches, temples and so on. Owing to their high-quality raw materials, column speakers can render an identical amplification of human sound or music with a clear tone and little noise. They are made of aluminum alloy, which make them more fitting for an all-weather use outdoors.

Column speakers are composed by the permutation and combination of several speakers. Column speaker has a similar directivity as the single speaker horizontally, but vertically, their directivity is much improved. They are spread like a fan in the horizontal direction, but they exhibit a strong directivity in the vertical direction because they form a three-dimensional plate-shaped radiation effect that is thin near and thick faraway. If column speakers are installed near the stages' entrance, and the "sound plate" is directed at the audience, the acoustic beams are radiated to the back rows of the auditorium with a strong sound energy. The front rows, however, receive a weakened sound with a lower sound pressure due to the phase separation brought about by the varying vertical distances of the speakers. Thus, the sound field's direct sound is close to an even distribution. In the horizontal direction of column speaker, there should be no "beam confining"; instead, there should remain a relatively big horizontal radiation angle so as to allow the sound field to be distributed evenly in the left and the right directions alike.

**Parameters of Column Speaker MS2210-D/ MS2220-D/ MS2230-D/ MS2240-D**

Body in extruded aluminum.

Front metal-made protection grille.

Equipped with line transformer for 70V/100V constant voltage system.

Model	MS2210-D	MS2220-D	MS2230-D	MS2240-D
RMS Power	10W	20W	30W	40W
Input Voltage	70-100V	70-100V	70-100V	70-100V
Speaker unit	1×4"	2×4"	3×4"	4×4"
Frequency range	200-15kHz	200-15kHz	200-15kHz	200-15kHz
Sensitivity	88dB	89dB	89dB	90dB
Dimension(mm)	130×110×260	130×110×330	130×110×420	130×110×500
Material	Aluminium alloy	Aluminium alloy	Aluminium alloy	Aluminium alloy

ZhenYu electric does not have a gaudy appearance, or an exaggerating look. ZhenYu electric's edge is its excellent craftsmanship, production with sufficient raw materials and no dishonesty during our manufacture. We are the leading producer of megaphones on the market of China. ZhenYu electric is a professional manufacturer and producer of column speaker in China. We have accumulated a wide range of clients and experience over the 15 years of our business. Our column speaker has already been exported to Europe, South America, Middle East, Southeast Asia, and Africa. We have clients in Mexico, Thailand, Russia, Algeria, Philippines, Kazakhstan, Iran, Saudi Arabia, Nigeria, Singapore, Indonesia, Malaysia, The United Arab Emirates, South Africa, Australia, Brazil, and Sudan. High quality products and reasonable pricing is the pillar for us to gain the clients' recognition continually. At the same time, we keep researching and developing column speakers more adaptable to the market demands to gain the recognition of more clients. We can also manufacture the products according to the clients' needs. If you need column speaker, please contact us without hesitation.

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