





WS-Series is...

All new WS Series is the Installation Speaker which is weather resistant and it also brightens the venue with its elegant design. The speakers can be used in various applications from small-sized venues to mid/large-sized venues.

It particularly fits in facilities that needs to play high quality of background music (cafe, hotel lobby, etc.), educational facilities (auditorium, conference room, etc.), and cultural facilities (exhibition hall, etc.)

WS Series is composed of 4 models from 2.5" Full–Range unit installed compact–sized WS–15T to 6.5" 2way model WS–80T. The WS Series has been applied with newly developed Full–Range unit, HF and LF driver unit to provide powerful and clear sound without distortion. Moreover, 2 way model adopts asymmetrical horn design to cover listening area perfectly. With a speaker terminal on the rear panel of all WS Series models, 100V / 70V line (separate models) and low impedance (8 Ω) output can be adjusted by user. WS Series has obtained 54 IP grade which enables to be used in various indoor and outdoor applications. Install with steel–made durable U bracket or rotatable Knuckle bracket by user's demand. Now, experience Inter–M's WS Series speaker with both eyes and ears.





FEATURES

A Selection of Line-up

The WS Series is 4 models with different sizes and output ranges to suit various purposes. Sizes are from 2.5" to 4", 5" and 6.5" and output of 15 W, 30 W, 50 W and 80 W are available. Plus, there are black and white color available which even gives you more options to satisfy your needs!



WS-15T 15 W, 2.5", 84 dB SPL 1 Way Full Range



WS-30T 30 W, 4", 85 dB SPL 2 Way Passive



WS-50T 50 W, 5", 87 dB SPL 2 Way Passive



WS-80T 80 W, 6.5", 90 dB SPL 2 Way Passive

70V/100V Multi-tap Transformer

It is designed of high/low impedance to be used in any countries around the world.

Using a speaker terminal, 100V / 70V line (separate models) and low impedance(8 Ω) output can be selected. When user uses 100V / 70V line, the rated power can be adjusted 100% to 50%. The WS Series can provide clear background music and paging sound for any type of applications.

		WS-15T	WS-30T	WS-50T	WS-80T
Power Select	8 Ω	15 W	30 W	50 W	80 W
	70 V	15 W	30/15 W	50/25 W	80/40 W
	100 V				

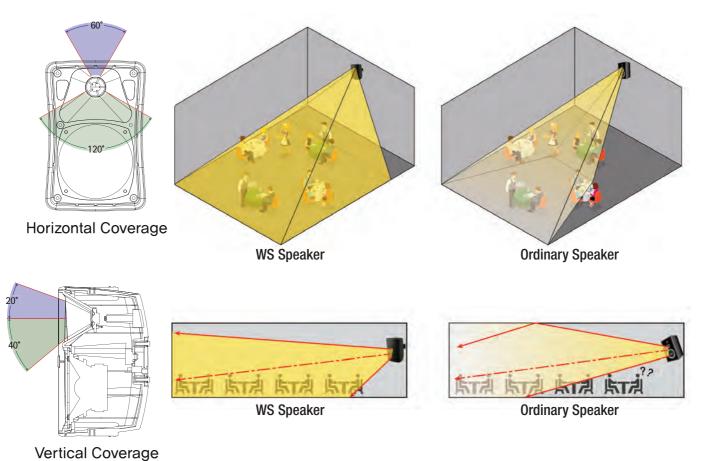


Compact Size with High Power

Depending on the sizes, the series provides high output just with a small unit using 1Way Full Range(WS-15T) or 2Way Passive(WS-30T/50T/80T) speaker system.

Asymmetric Horn for the Optimized Sound System

The asymmetric horn design(except for the WS-15T) of WS Series covers a wider space with clear sound. With Horizontal Coverage Near Field 120° and Far Field 60° for long distance and Vertical Coverage upward +20° downward -40°(on axis) for nearby wide area and it can deliver clear and even sound without having to do unnecessary tilting installation. Plus, EASE and EASE Focus Simulation data is provided to conduct 3D Simulation to design optimized sound system by predicting distribution map of sound pressure and clarity.



Weather Resistant Design

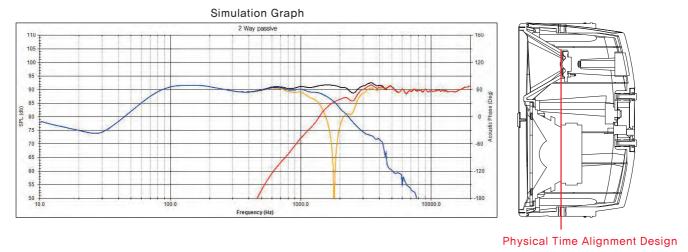
The design of WS Series is made to deliver output of the speaker most efficiently. It brightens the venues not only with its supreme quality sound but also elegant and modern design. Plus, WS Series has obtained IP rate of 54 which enables flexible installation indoors and outdoors.





Sound Quality of Professional Audio

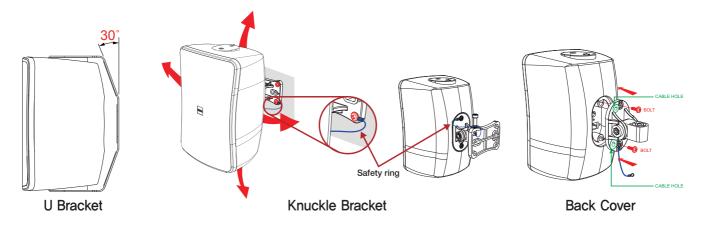
WS Series provides clear and accurate sound with professional audio sound quality. The 2 way loudspeaker of the woofer and tweeter are located in the same physical plane which increases time alignment shifts, lobeing and comb filter distortion, decreasing intelligibility. In the WS Series, the voice coil part of the woofer and the tweeter is physically offset. In this technique of the physical time alignment, the system eliminates the cause of lobe or small shift in polar response on axis at the crossover point.



Ease of Installation

With the steel-made durable U bracket(30° tilted), the users can firmly place the speaker as they want. Moreover, Knuckle Bracket is supplied to turn the speaker left to right and up and down to better suit the needs. In that way, it can be flexibly installed in various venues and used in numerous applications.

*WS-15T: Only Knuckle bracket is provided. U-bracket for WS-15T is not available.



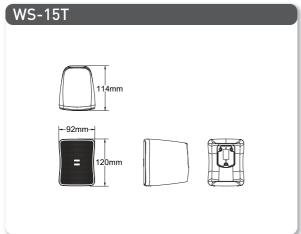
SPECIFICATION

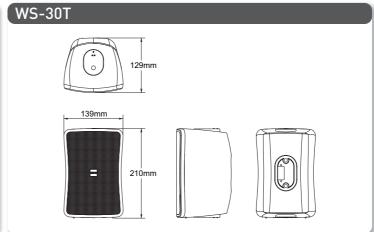
MODEL		WS-15T	WS-30T	WS-50T	WS-80T		
Туре		1 way full range	2 way passive	2 way passive	2 way passive		
Frequency Range(-10 dB)		110 Hz~20 kHz	100 Hz ~20 kHz	100 Hz ~20 kHz	100 Hz ~20 kHz		
Component	LF	2.5" full range	4"	5"	6.5"		
	HF		VC 13 mm	VC 13 mm	VC 13 mm		
Power Rating	Continuous (AES Std)	15 W	30 W	50 W	80 W		
	Program	30 W	60 W	100 W	160 W		
	Peak	60 W	120 W	200 W	320 W		
Sensitivity(1 m/1 W)		84 dB	85 dB	87 dB	90 dB		
Maximum SPL(Peak)		102 dB	106 dB	110 dB	115 dB		
Nominal Coverage(1 kHz)		90°	Asymmetric Horn 90° Horizontal Coverage : Far Field 60°, Near Field 120° Vertical Coverage : upward +20°, downward -40° (On Axis)				
Nominal Impedance (THRU setting)		8Ω					
Power Select	8 Ω	15W	30W	50W	80W		
	70 V	15 W	30/15 W	50/25 W	80/40 W		
	100 V						
Low Frequency Transducer		Paper Cone with impregnation	Polypropylene Cone (PP cone) High stiffness compare to paper cone, low distortion, flat frequency response, low vibration mode than paper cone				
High Frequency Transducer		-	Polyethyleneimine (PEI semidome) High frequency extend with diffuser				
Enclosure Material		ABS RESIN					
Connectors		Screw terminal 3P	Screw terminal 4P				
Agency Rating		R0HS-compliant					
Weather Resistant		IP54 rating					
Colors		Black/White					
Weight		0.9 kg / 1.98 lb	1.72 kg / 3.79 lb	2.37 kg / 5.22 lb	3.57 kg / 7.87 lb		
Dimensions (W x H x D)		92x120x114 mm 3.6x4.7x4.5 in	139x210x129 mm 5.5x8.3x5.1 in	173x250x150 mm 6.8x9.8x5.9 in	210x311x169 mm 8.3x12.2x6.7 in		
Mounting Hardware (Selectable)	U Bracket	-	U-BKT-30	U-BKT-50	U-BKT-80		
	Knuckle Bracket	K-BKT-15	K-BKT-30				

^{*} AES standard, one decade pink noise with 6 dB crest factor within device's operational band, free air. Standard AES 2 hr rating plus long-term 100 hr rating are specified for low-frequency transducers.

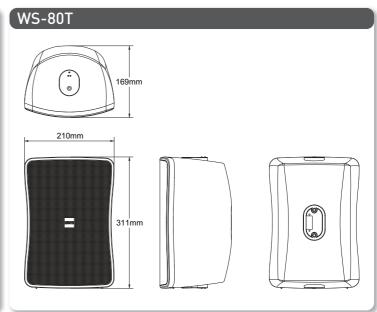
^{*} Continuous program power is a conservative expression of the system's ability to handle normal speech and music program material and is defined as 3 dB above the Continuous Pink Noise Rating (IEC-shaped pink noise with a 6 dB crest factor, for 100 hours continuously).

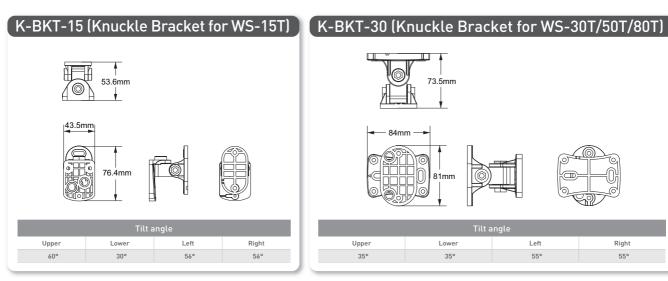
DIMENSIONS

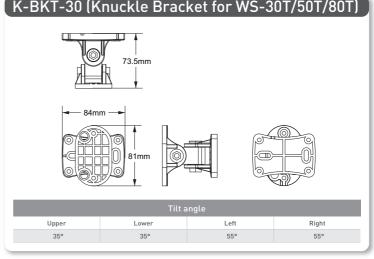


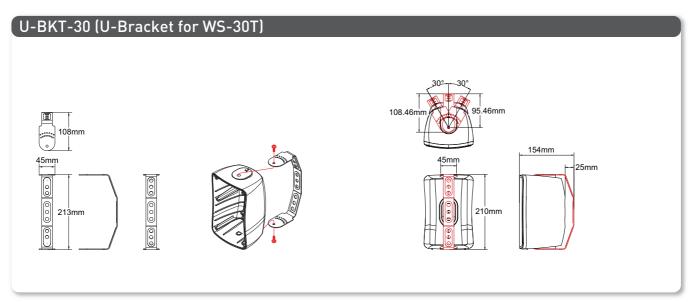


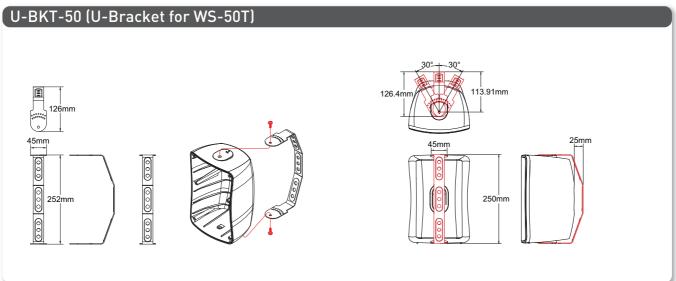


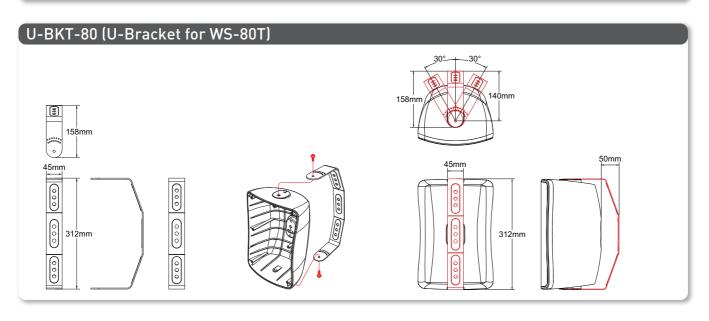












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