

MULTIPURPOSE INSTALLATION SPEAKER

**MS-80LT**



**interM**

# MS-80LT

## Manufacturing Process



CNC 가공



우드조립 준비



우드조립



드라이버 조립



포장

## Hi-Quality Multipurpose Installation Speaker System

MS-80LT is a 5" Passive Loudspeaker of Inter-M with compact exterior design, high output and rich bass. You can express any tone you want beautifully, as it is tuned with flat sound to suit in various circumstances. MS-80LT is applied with high quality woofer driver and soft dorm tweeter that are optimized to maintain consistent tone even in low and high pitch output without compromising. Three insert points and a terminal connector placed on the back panel enable to install at ease. Plus, exclusively provided 'U' shaped bracket helps install MS-80LT on the wall or ceiling closely enough.

## High Sound Quality

- 5" high quality woofer driver
- 1" soft dorm tweeter
- High quality crossover design to provide dynamic performance and output improvement
- Expanded low-pitch response as optimized port design
- Soft and fluent sound delivery and interior filter design to protect units
- Use of 15T high-density environmentally friendly sound-absorbing materials to suppress sound interference.
- Built-in protection circuit to protect treble driver

## Easy Installation

- Integrated panel crossover
- 2P terminal block for price efficiency and easy installation
- Circular 0,8T grill to deliver optimized sound
- Three insert points for various purposed installation
- 'U' shaped bracket accessory provided (exclusively)

# Technical Features



## High Quality Drivers

The MS series speakers are manufactured using high-quality drivers and components. Our custom design and tuned crossover network ensures a smooth frequency responses and maximizes the SPL of the High-frequency and Low-frequency drivers. Internal protection circuitry protects the drivers from damage.



## Crossover Optimization

MS series speaker features bright, distortion-free sound. The crossover is manufactured using high quality components. Its design offers a very smooth frequency response over an expanded frequency range. The crossover mounted on Aluminum panel for better heat dissipation and incorporates speaker protection circuitry.



## Robust Enclosure

The MS Series speaker enclosure is manufactured using a high precision CNC Machinery with 12T Nordic birch Plywood. The panels are assembled using an interlocking joining method which ensures durability and minimizes sound leakage. The entire enclosure including the high quality paint finish comply to ROHS. (Available in Black and White Finish)



## Ease of installation

The MS speaker can be wall or ceiling mounted. 8 inserted rigging points surround the speaker enclosure for ease of installation in a variety of position. An option yoke type bracket is also available.



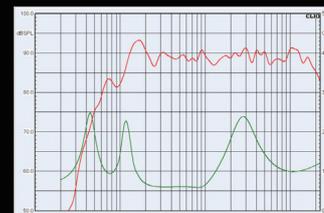
## 5-step High impedance Transformer Tap and 8Ω Low Impedance Tap

8Ω low impedance tap(80W AES Power) that can be used in professional purposes, 125Ω(80W), 250Ω(40W), 500Ω(20W), 1kΩ (10W) and 5-step High impedance transformer tap of 2kΩ(5W) are provided.

# Technical Features

## Natural Sound

The MS series compact loudspeaker has the right sound pressure balance between the drivers offering a crisp high frequency sound with rich base while maintaining a smooth frequency response and high SPL. The MS Speakers are suitable for a variety of applications including voice and music reproduction.



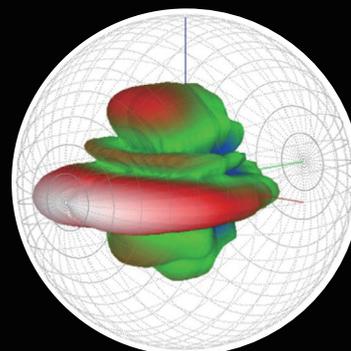
## Acoustical enclosure design

The Enclosure was designed using the latest in simulation software. The port size, length and position were accurately tuned to minimize resonance and maximize base output. The shape and size of the enclosure is optimized to prevent the emitted energy to interfere with the driver's driving factor. The MS Series loudspeaker uses eco-friendly high density sound-absorbing materials to block unwanted internal resonance.



## EASE DATA

Ease data is available for all MS series speakers. Ease data is used to assist in the rendering a simulation speaker performance during the design of a venue. This helps to predict dispersion and intelligibility of the system and assists the designer in the positioning of the drivers prior to installation.



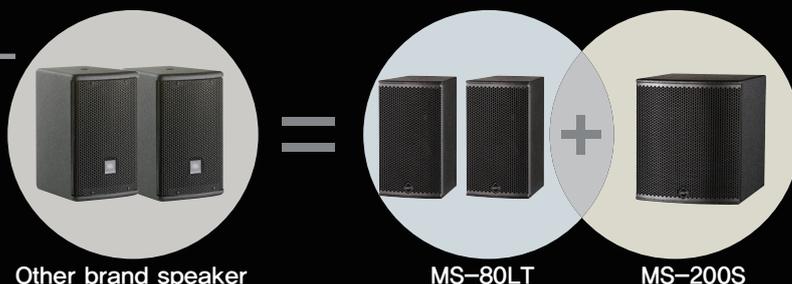
## High Performance product at a reasonable cost

MS-80LT is a high performance product with wider frequency response and higher SPL value compare to other domestic products. You can build effective sound system with much favorable price especially compare to the imported products!

### Performance

	Other brand speaker	MS-80LT(8Ω)
Frequency Response	90Hz ~ 18kHz	60Hz ~ 20kHz
Sensitivity	86dB SPL	88dB SPL
Connector	2xSpeakon 4p Barrier-Strip	2-Screw Type

### Price



# Technology of Inter-M

## STANDARD

Inter-M speakers are certified by KS and meet or exceed all applicable standards. KS/IEC standards ensure quality and durability. Conformity and compatibility to the international IEC standard and AES/EIA testing specification ensures international acceptance.

## R&D

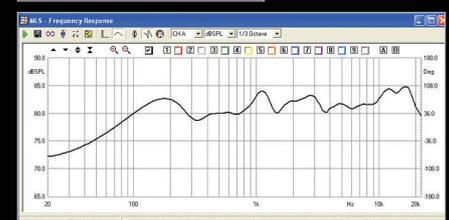
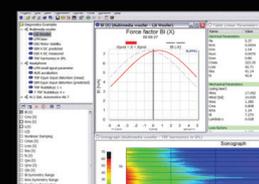
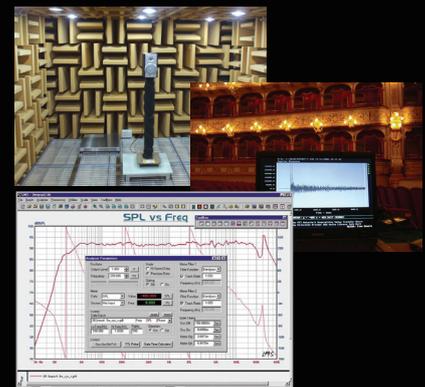
Inter-M ensures conformity in specifications to all international standards including KS, IEC, AES and EIA. All measurements and technical specifications found on data sheets and manuals have been measured using international standardized processes in an anechoic chamber using B&K, CIO, LMS and MLSSA speaker testing equipment. This process also ensures the development of higher quality products and standards.

## FACTORY

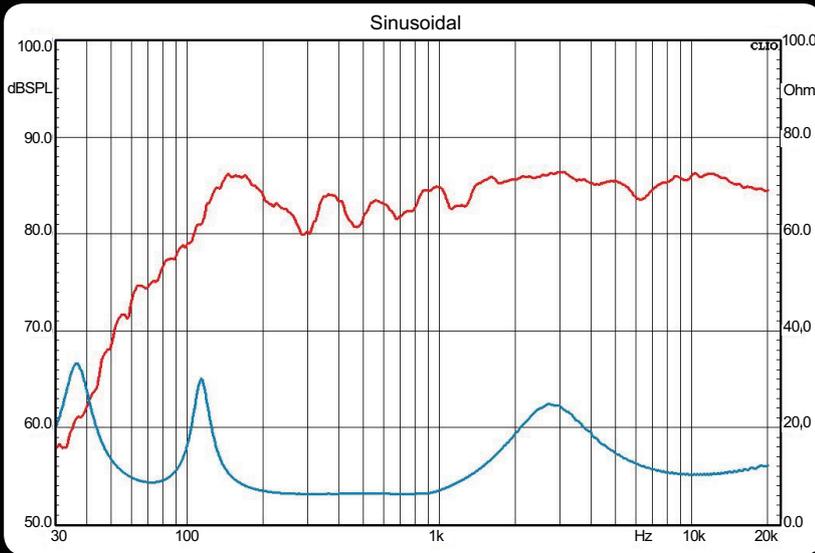
Inter-M is a leading global manufacturer of PA and Sound reinforcement products. All products are designed and built from high quality materials and components. All wood designed speakers are precision manufactured using the latest in CNC machinery. Inter-M produced speakers are ROHS Compliant.

## QC

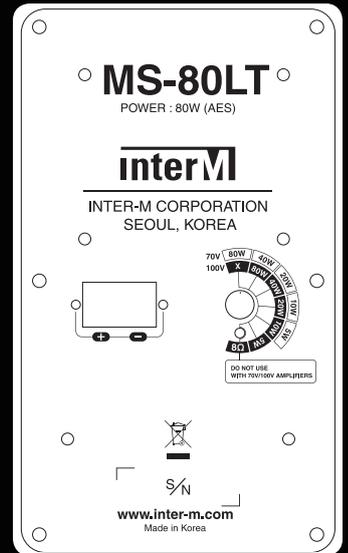
Our rigorous testing and quality control process ensures a uniformity and consistency in frequency, impedance and SPL. Speakers are tested beginning at the component level throughout the assembly process and all the way to the finished product. All test results are stored in a database where the quality process can be tracked. Speakers are tested for power and durability. A 100 hour test to KS Standard and eight hour test to AES standard is also performed. Finally a TRUE-RMS voltage and current is also measured.



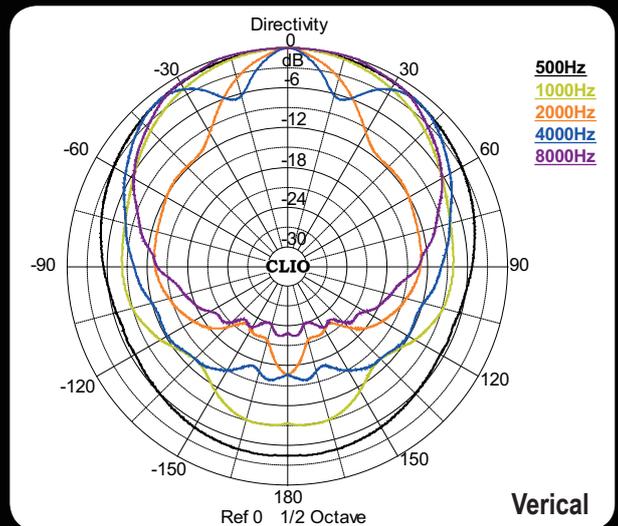
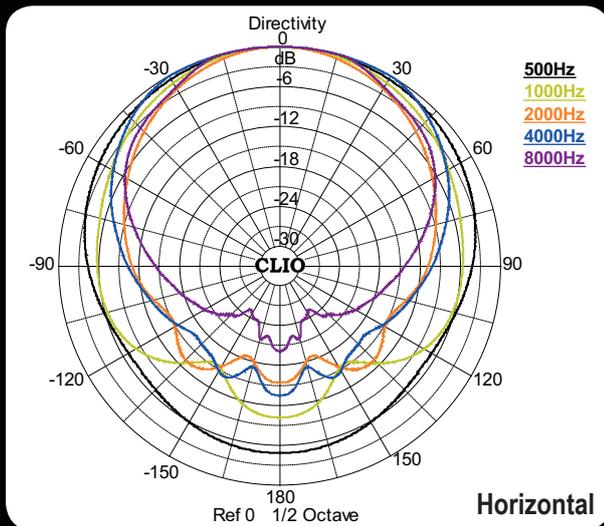
# FREQUENCY RESPONSES



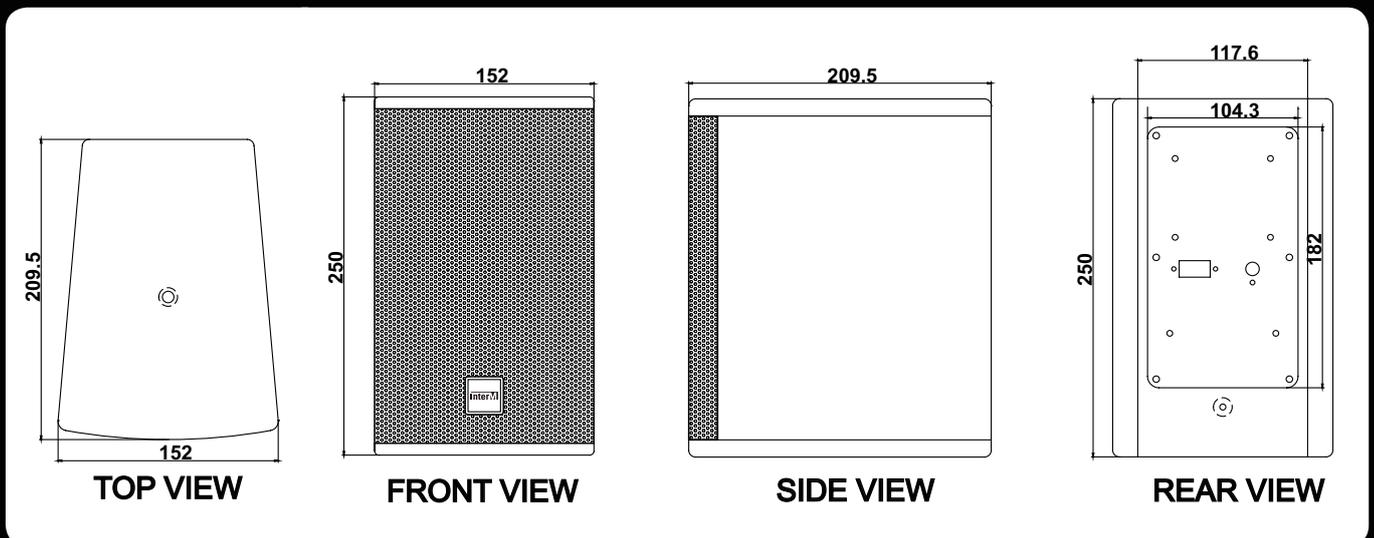
# REAR PANEL



# POLAR PLOTS

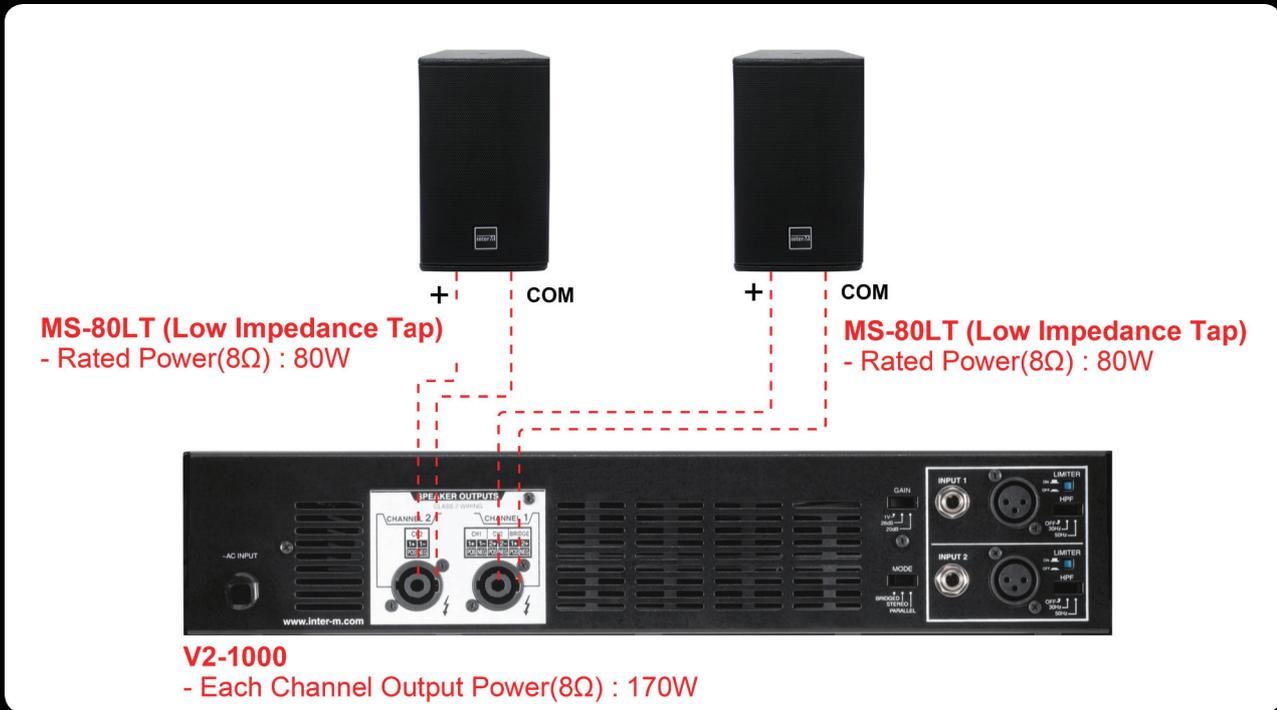


# DIMENSION DRAWINGS

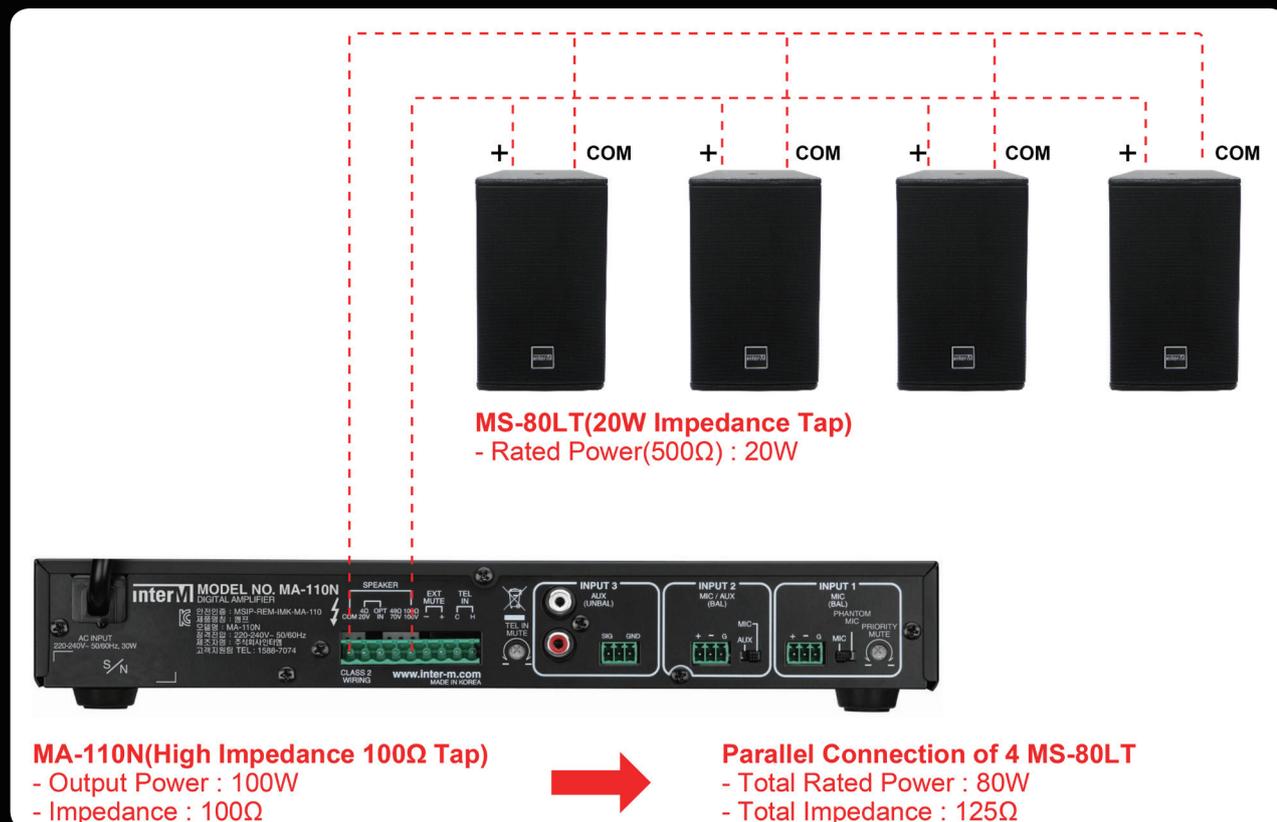


# Recommended Combination of Amplifier

- When low impedance tap(8Ω) is selected and matched with commercial amplifiers  
ex) R-500PLUS, L-800, V2-1000, QD-4960



- When high impedance transformer tap is selected and matched with professional amplifiers  
When overall impedance of serial-parallel connected speaker is connected to load impedance of commercial amplifier, make sure that Total Rated Power of speakers is lower than the Power of commercial amplifier.  
ex) When MA-110N(100W/100Ω) commercial amplifier is connected to MS-80LT(select 20W with a tap)



# SPECIFICATION

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## MS-80LT

Type	Point Source Speaker
Frequency Response (-10 dB)	60 Hz~20 kHz
Transducer	HF : 25 mm(1") Soft Dome Tweeter LF : 130 mm(5") Woofer
Power Handling	80 W
Sensitivity(1m/1W)	88dB
Maximum SPL	107 dB SPL (1 m/1 W)
Nominal Impedance	Low Impedance Tap : 8Ω High Impedance Tap : 62Ω(70 V), 125Ω(100 V), 250Ω, 500Ω, 1kΩ, 2kΩ (for both 70 V and 100 V)
Nominal Dispersion	120° Conical
Connectors	Terminal Block screw 2 PIN
Weight	3.9 kg/8.6 lbs.
Dimension (W×H×D)	152 × 250 × 209.5 mm 6 x 9.8 x 8.2 in



### Inter-M Corp. (IMK)

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※ Design and specification are subject to be changed for the improvement of product quality without pre notice.

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