Point Source Speaker

PENTA / HEXA / TETRA Series




PENTA


HEXA


TETRA

Inter-M continues to provide a point source speaker lineup that can deliver optimal performance in a variety of SR environments that require outstanding high-power and high-quality sound. Inter-M's Point Source Speakers provide standardized sound with enclosure tuning and passive network tuning to maximize the performance of the unit, and a clear and rich tone with a flat frequency response. Equipped with high input and efficiency, it not only accurately plays a wide frequency response, but plays powerful source of low frequency sound. In addition, the user-friendly design ensures that there is no compression or distortion at full power, providing the convenience of a multi-purpose speaker. Durability, stability, and solidity ensure high reliability.



PENTA

PENTA SERIES

The PENTA series of pentagon enclosures is versatile, high performance point source speaker that can be used in a variety of installation environments such as ballrooms, exhibition halls, religious facilities and auditoriums that require high output and high quality sound. The PENTA series offers four high power lineup in 8"(250W), 10"(300W), 12"(500W) and 15"(600W). The solid pentagonal enclosure made of birch makes it versatile for main speakers, side fill, front fill speakers, and monitor speakers. The main speaker provides a symmetrical enclosure model for convenient installation, and can be installed or used as a portable speaker with a number of M10 rigging points, pole mount cups, and moving handles.



HEXA

HEXA SERIES

The HEXA series with hexagonal enclosures is multipurpose point source speaker that can be used in a variety of environments such as restaurants, conference rooms, audiovisual rooms, religious facilities, and auditoriums. The HEXA series offers four output-specific lineups of 8"(200W), 10"(250W), 12"(400W) and 15"(500W) and it can be used as main speaker, side-fill speaker, front-fill speaker, etc.
The HEXA Series can be either fixed or portable with M10 rigging points, pole mount cups, and moving handles.



TETRA

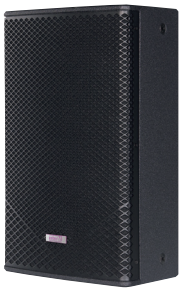
TETRA SERIES

The TETRA series with trapezoid enclosures is fixed point source speaker that can be used in a variety of environments such as conference rooms, lobbies, religious facilities, and multipurpose auditoriums.
The TETRA series offers four output-specific lineups: 8"(130W), 10"(160W), 12"(300W) and 15"(400W). Multiple M10 rigging points, pole mount cups can be used to secure the installation.

PENTA SERIES



PE08(L/R)



PE10(L/R)

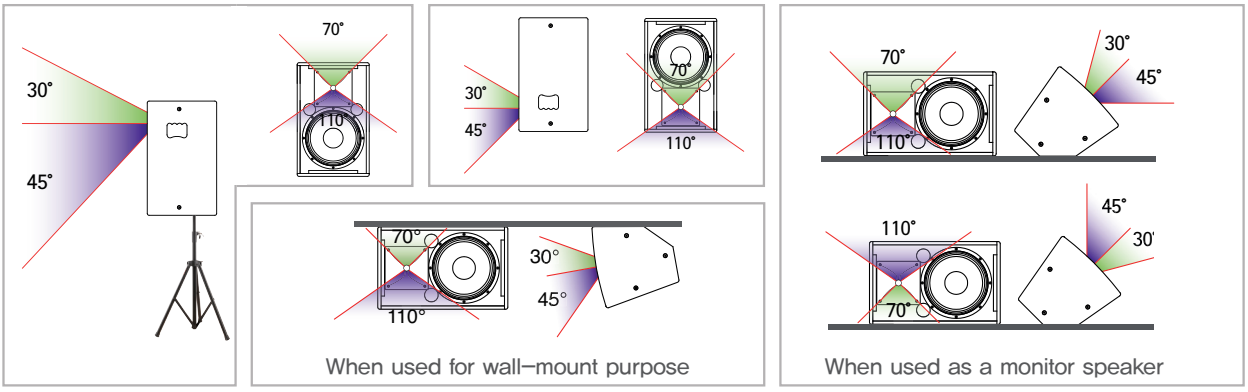


PE12(L/R)



PE15(L/R)

Feature



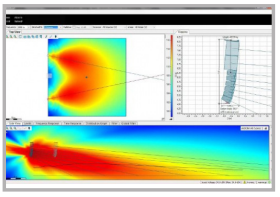


Asymmetric&Rotatable Horn

With asymmetrical horns with a horizontal directivity angle of 70°(narrow) to 110°(wide) and a vertical directivity angle of 30°(up) to 45°(down), even when used as a stand speaker user can cover all your audience accurately. In addition, when fixed with a rotatable horn, accurate coverage can be achieved regardless of whether the enclosure is installed horizontally or vertically. Even when used as a monitor speaker, accurate coverage can be achieved for the number of vocals and lecturers, playing musical instruments, and the stage range.

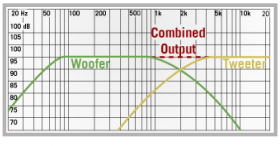
2Way Passive High Power Loudspeaker

The PENTA series is a 2-Way Passive Multi-purpose High Power Loudspeaker with a high power titanium driver that accommodates high performance, and high power woofers. It can cover the broadband, Enclosure & Crossover is made from premium grade grade 15mm birch wood, and it is extremely solid, reducing internal resonance and providing full performance of the unit. Computer-simulated enclosure tuning and passive network tuning allow smooth frequency response and rich bass and uniform tone reproduction. Computer-simulated enclosure tuning and passive network tuning allow smooth frequency response and rich bass, and uniform tone playback.



EASE Data

The sound simulation software EASE Focus offered by AFMG is popular as a standard application software in the acoustic industry. It is possible to simulate the sound pressure distribution of the speaker simply by using the EASE Focus, and it is one of the best systems in the field where the speaker is installed. Inter-M provides speaker data for EASE and EASE Focus.



Crossover

Computer-simulated enclosure tuning and passive network tuning produce smooth frequency response and rich bass, and uniform tone playback.

Specification

Model	PE08(L/R)	PE10(L/R)	PE12(L/R)	PE15(L/R)
Type	8" 2Way Passive Point Source	10" 2Way Passive Point Source	12" 2Way Passive Point Source	15" 2Way Passive Point Source
Frequency Response (±6dB)	110Hz ~ 20kHz	97Hz ~ 20kHz	101Hz ~ 17kHz	71Hz ~ 19kHz
Frequency Range (-10dB)	63Hz ~ 20kHz	67Hz ~ 20kHz	61Hz ~ 19kHz	53Hz ~ 20kHz
Power Handling (AES)	250W	300W	500W	600W
Power Handling (Program)	500W	600W	1000W	1200W
Power Handling (Peak)	1000W	1200W	2000W	2400W
Recommended Amplifier Power	500W	600W	1000W	1200W
Sensitivity (1W/1m)	92dB	94dB	95dB	95dB
Maximum SPL (Peak)	122dB	125dB	128dB	129dB
Nominal Dispersion	110°x133°(1kHz) / 92°x63°(4kHz)	122˚x158˚(1kHz) / 60˚x70˚(4kHz)	119˚x120˚(1kHz) / 91˚x66˚(4kHz)	101˚x47˚(1kHz) / 83˚x56˚(4kHz)
Nominal Impedance	8Ω	8Ω	8Ω	8Ω
Transformer Taps (70V/100V)	-	-	-	-
LF Driver	8" Woofer 2" voice coil	10" Woofer 2.5" voice coil	12" Woofer 3.0" voice coil	15" Woofer 3" voice coil
HF Driver	1" Tweeter 1.4" voice coil	1" Tweeter 1.4" voice coil	1" Tweeter 2.03" voice coil	1" Tweeter 2.03" voice coil
Horn	Asymmetrical Horn (Rotatable)	Asymmetrical Horn (Rotatable)	Asymmetrical Horn (Rotatable)	Asymmetrical Horn (Rotatable)
Enclosure Material	baltic birch plywood 15T, Polyurea Coating	baltic birch plywood 15T, Polyurea Coating	baltic birch plywood 15T, Polyurea Coating	baltic birch plywood 15T, Polyurea Coating
Grille	SECC 1.5t, Powder Coating / BLACK	SECC 1.5t, Powder Coating / BLACK	SECC 1.5t, Powder Coating / BLACK	SECC 1.5t, Powder Coating / BLACK
Connection	2 X SPEAKON(1+,1-) [Parallel]	2 X SPEAKON(1+,1-) [Parallel]	2 X SPEAKON(1+,1-) [Parallel]	2 X SPEAKON(1+,1-) [Parallel]
Fittings/Suspension	10xM10 inserts (2xtop, 2xbottom, 2xrear,	10xM10 inserts (2xtop, 2xbottom, 2xrear,	12xM10 inserts (3xtop, 3xbottom, 2xrear,	12xM10 inserts (3xtop, 3xbottom, 2xrear,
Finish	Polyurea Coating	Polyurea Coating	Polyurea Coating	Polyurea Coating
Color	BLACK	BLACK	BLACK	BLACK
Weights (Net)	11.9kg/26.2lb	15.3kg/33.7lb	23.48kg/51.5lb	29kg/63.9lb
Dimensions (Net, W×H×D)	268×450×258mm 10.6×17.7×10.2in	307×490×289mm 12.1×19.3×11.4in	355×572×338mm 14×22.5×13.3in	425×644×403mm 16.7×25.4×15.9in
Optional Accessories	SB-30HA (Wall Bracket)	SB-30HA (Wall Bracket)	SB-30HA (Wall Bracket)	SB-30HA (Wall Bracket)

Installation guide

Easy Installation

The PENTA series is designed for various environments and can be used for flying, pole mounting and other purposes. A pentagonal shaped enclosure can be used as a monitor speaker. The PENTA series has four models of 8", 10", 12" and 15", so you can use it for various purposes including lectures and performances in various lineups.
When using FAAL (Flexible Angle & Auto Lock) pole mount cup as a 35mm stand, adjustable speaker angle of ± 18° vertically is available. The asymmetrical horn system provides more accurate coverage of the audience, providing high quality sound and clarity.



Pole Mount





Suspended



Floor Standing



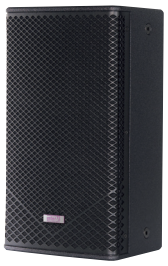
Wall Mount

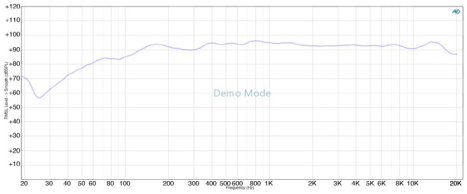
PENTA

PENTA SERIES

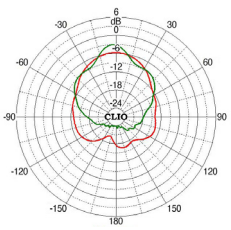
Technical Data

PE08

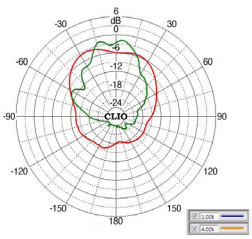




FREQUENCY RANGE & IMPEDANCE

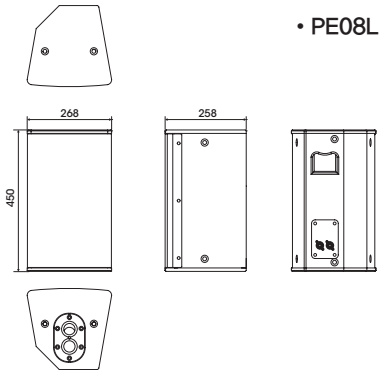


POLAR PATTERN(H)

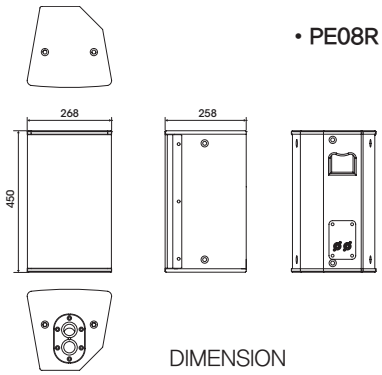


POLAR PATTERN(V)

• PE08L

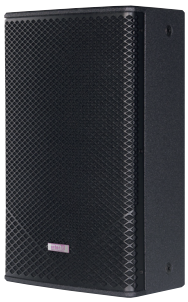


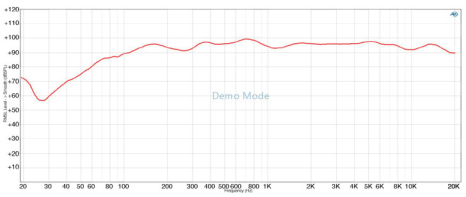
• PE08R



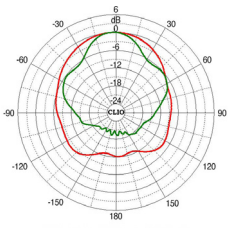
DIMENSION

PE10

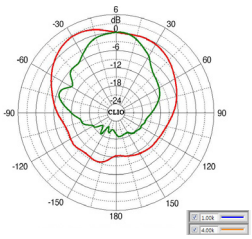




FREQUENCY RANGE & IMPEDANCE

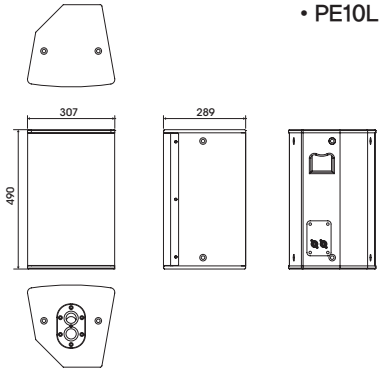


POLAR PATTERN(H)

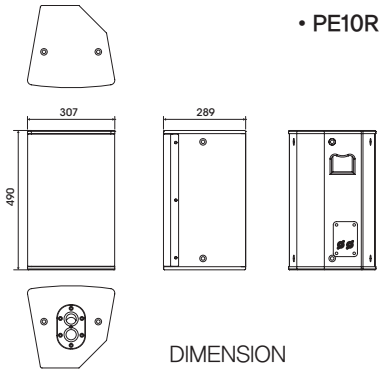


POLAR PATTERN(V)

• PE10L



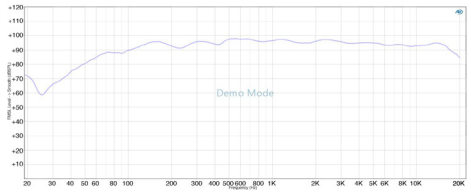
• PE10R



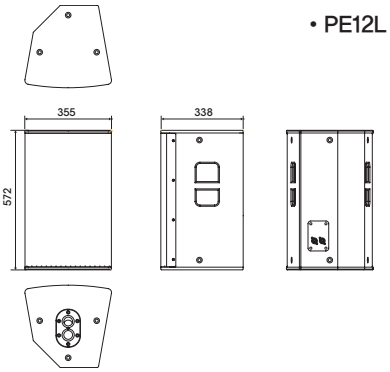
DIMENSION

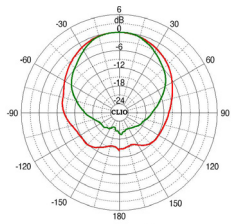
PE12

• PE12L

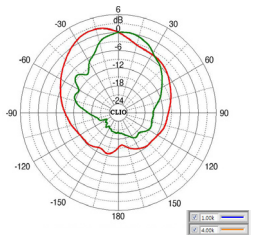


FREQUENCY RANGE & IMPEDANCE



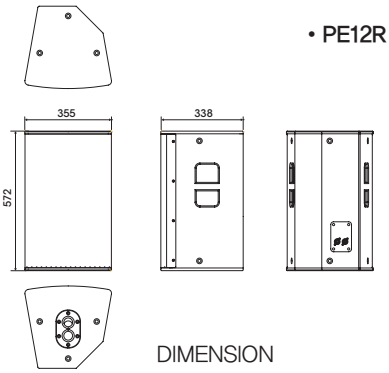


POLAR PATTERN(H)



POLAR PATTERN(V)

• PE12R

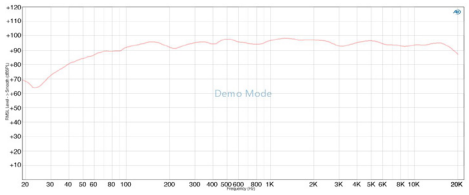


DIMENSION

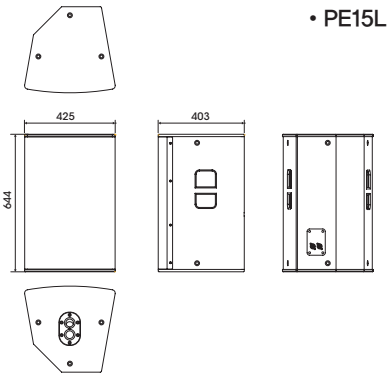


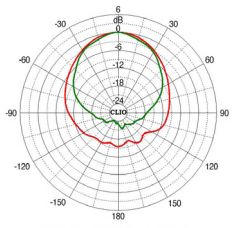
PE15

• PE15L

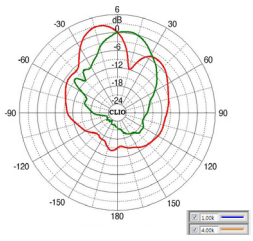


FREQUENCY RANGE & IMPEDANCE



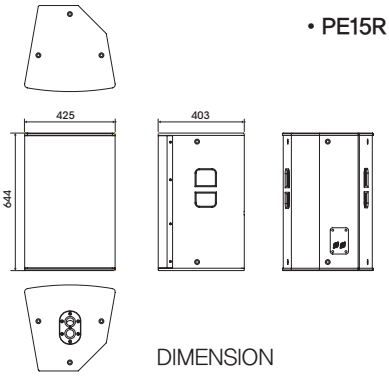


POLAR PATTERN(H)



POLAR PATTERN(V)

• PE15R

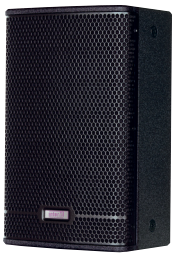


DIMENSION

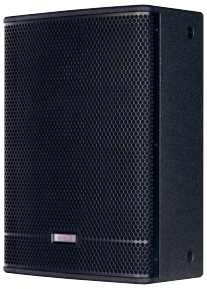


HEXA

HEXA SERIES



HE08



HE10

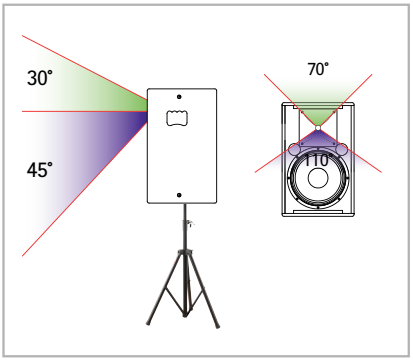


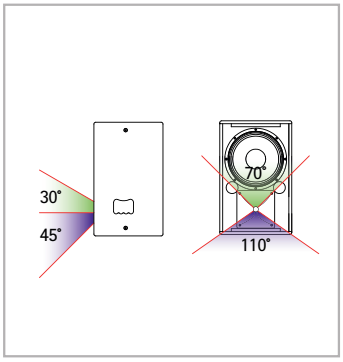
HE12

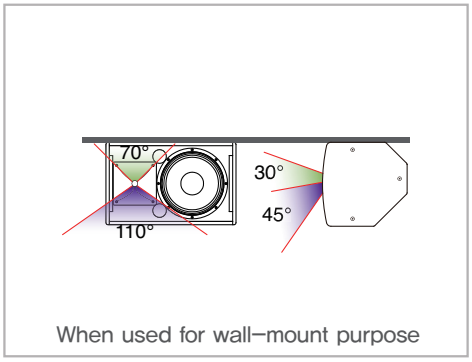


HE15

Feature







When used for wall–mount purpose

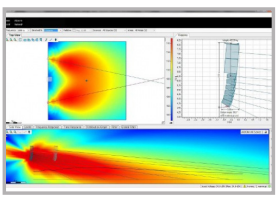


Asymmetric&Rotatable Horn

With asymmetrical horns with a horizontal directivity angle of 70°(narrow) to 110°(wide) and a vertical directivity angle of 30°(up) to 45°(down), even when used as a stand speaker user can cover all audience accurately. In addition, when fixed with a rotatable horn, accurate coverage can be achieved regardless of whether the enclosure is installed horizontally or vertically. Even when used as a monitor speaker, accurate coverage can be achieved for the number of vocals and lecturers, playing musical instruments, and the stage range.

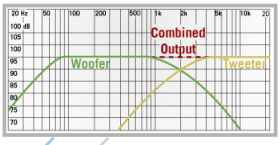
2Way Passive Compact Multi-purpose Loudspeaker

The HEXA series is a 2-way passive full range speaker with a high performance woofer and a high power titanium driver that accommodates a wide frequency range. It is a versatile speaker that can cover broadband and has high quality clarity and can be used in various environments.



EASE Data

The sound simulation software EASE Focus offered by AFMG is popular as standard application software in the acoustic industry. It is possible to simulate the sound pressure distribution of the speaker simply by using the EASE Focus and it is one of the best systems in the field where the speaker is installed. Inter-M provides speaker data for EASE and EASE Focus.



Crossover

Computer-simulated enclosure tuning and passive network tuning allow smooth frequency response and rich bass and uniform tone playback.

Specification

Model	HE08	HE10	HE12	HE15
Type	8" 2Way Passive Point Source	10" 2Way Passive Point Source	12" 2Way Passive Point Source	15" 2Way Passive Point Source
Frequency Response (±6dB)	116Hz ~ 20kHz	114Hz ~ 18kHz	61Hz ~ 20kHz	69Hz ~ 18kHz
Frequency Range (-10dB)	95Hz ~ 20kHz	94Hz ~ 20kHz	51Hz ~ 20kHz	52Hz ~ 20kHz
Power Handling (AES)	200W	250W	400W	500W
Power Handling (Program)	400W	500W	800W	1000W
Power Handling (Peak)	800W	1000W	1600W	2000W
Recommended Amplifier Power	400W	500W	800W	1000W
Sensitivity (1W/1m)	93dB	96dB	94dB	97dB
Maximum SPL (Peak)	122dB	126dB	126dB	130dB
Nominal Dispersion	135°x171°(1kHz) / 91°x77°(4kHz)	118°x148°(1kHz) / 112°x87°(4kHz)	115°x103°(1kHz) / 91°x70°(4kHz)	80°x77°(1kHz) / 89°x70°(4kHz)
Nominal Impedance	8Ω	8Ω	8Ω	8Ω
Transformer Taps (70V/100V)	-	-	-	-
LF Driver	8" Woofer 2" voice coil	10") Woofer 2.5" voice coil	12" Woofer 3" voice coil	15" Woofer 3" voice coil
HF Driver	1" Tweeter 1.4" voice coil	1" Tweeter 1.4" voice coil	1" Tweeter 2.03" voice coil	1" Tweeter 2.03" voice coil
Horn	Asymmetrical Horn (Rotatable)	Asymmetrical Horn (Rotatable)	Asymmetrical Horn (Rotatable)	Asymmetrical Horn (Rotatable)
Enclosure Material	high-density MDF 15T, Polyurea Coating	high-density MDF 15T, Polyurea Coating	high-density MDF 15T, Polyurea Coating	high-density MDF 15T, Polyurea Coating
Grille	SECC 1.5t, Powder Coating/ BLACK	SECC 1.5t, Powder Coating/ BLACK	SECC 1.5t, Powder Coating/ BLACK	SECC 1.5t, Powder Coating/ BLACK
Connection	2 X SPEAKON(1+,1-) [Parallel]	2 X SPEAKON(1+,1-) [Parallel]	2 X SPEAKON(1+,1-) [Parallel]	2 X SPEAKON(1+,1-) [Parallel]
Fittings/Suspension	8xM10 inserts (2xtop, 2xbottom, 2xleft	8xM10 inserts (2xtop, 2xbottom, 2xleft	12xM10 inserts (3xtop, 3xbottom, 2xrear	12xM10 inserts (3xtop, 3xbottom, 2xrear
Finish	Polyurea Coating	Polyurea Coating	Polyurea Coating	Polyurea Coating
Color	BLACK	BLACK	BLACK	BLACK
Weights (Net)	13.5kg/29.7lb	17.15kg/38.5lb	26.44kg/58.2lb	31.52kg/69.4lb
Dimensions (Net, W×H×D)	260×410×260mm 10.2×16.1×10.2in	330×480×330mm 13×18.9×13in	380×570×380mm 15×22.4×15in	450×640×450mm 17.7×25.2×17.7in
Optional Accessories	SB-30HA (Wall Bracket)	SB-30HA (Wall Bracket)	SB-30HA (Wall Bracket)	SB-30HA (Wall Bracket)

Installation guide

Easy Installation

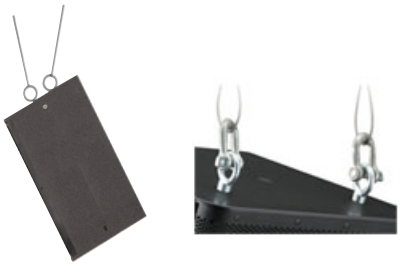
User can use HEXA Series as a stand speaker with the pole mount cup on the bottom of the speaker. In addition, M10 rigging points can be connected by wire using the I bolt on the top, bottom, left and right sides of the speaker, or simply fixed with the SB-30HA (optional). The enclosure has a safety factor of 10:1 for the ANSI standard and a safety factor of 5:1 for the rigging point, providing greater safety and reliability.

Multi-Purpose Speaker

The HEXA series is designed for various environments and can be used for flying, pole mounting and other purposes. The HEXA series has four models of 8", 10", 12 ", and 15", and can be used for various purposes ranging from lectures and performances in various lineups.



Pole Mount



Suspended



Floor Standing

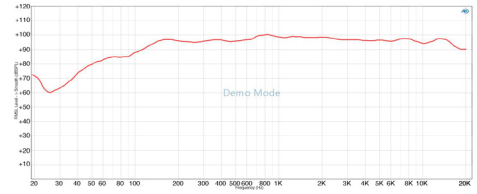


Wall Mount

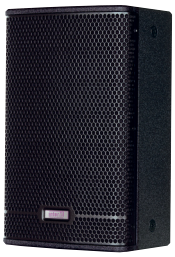
HEXA SERIES

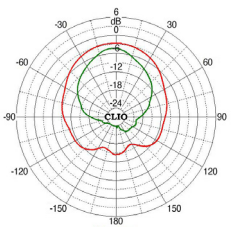
Technical Data

HE08

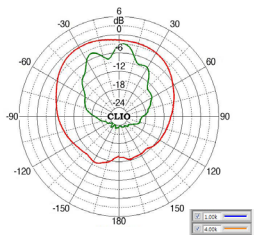


FREQUENCY RANGE & IMPEDANCE

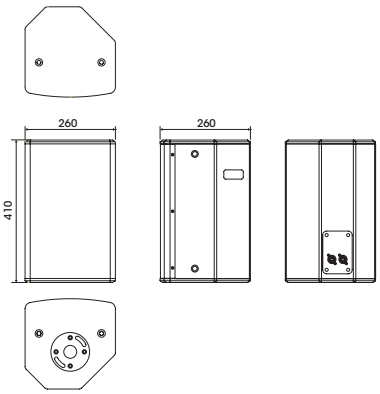




POLAR PATTERN(H)

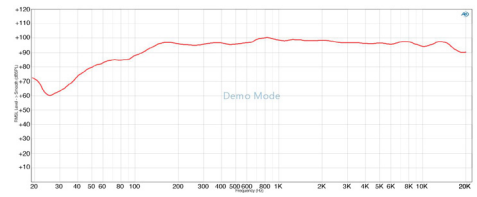


POLAR PATTERN(V)



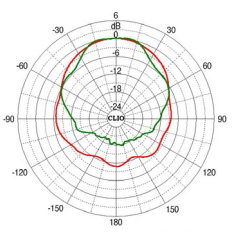
DIMENSION

HE10

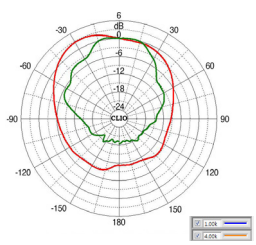


FREQUENCY RANGE & IMPEDANCE

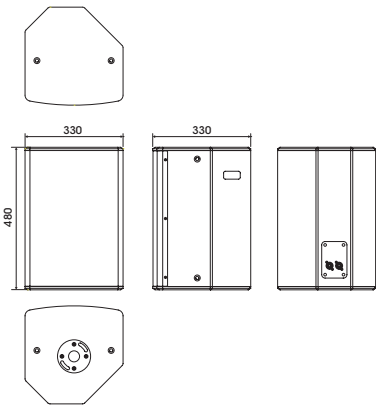




POLAR PATTERN(H)

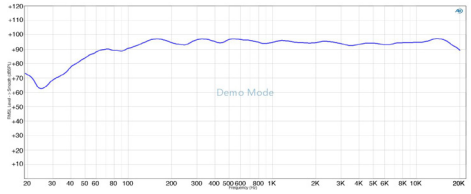


POLAR PATTERN(V)

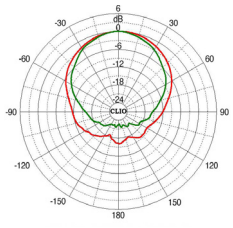


DIMENSION

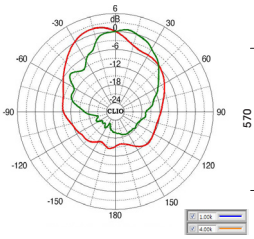
HE12



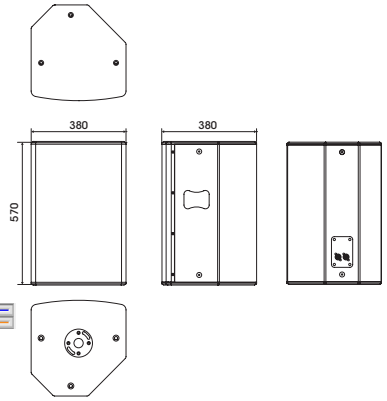
FREQUENCY RANGE & IMPEDANCE



POLAR PATTERN(H)



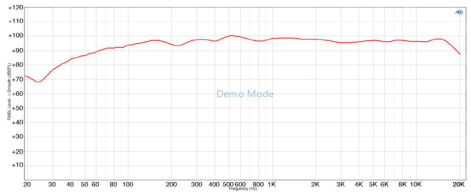
POLAR PATTERN(V)



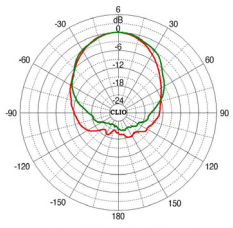
DIMENSION



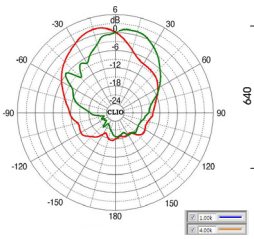
HE15



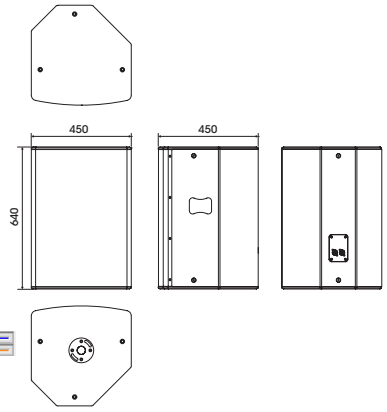
FREQUENCY RANGE & IMPEDANCE



POLAR PATTERN(H)



POLAR PATTERN(V)



DIMENSION



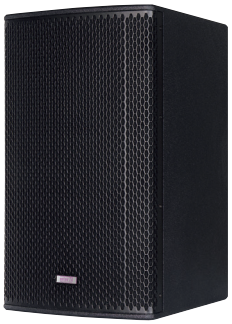
TETRA SERIES



TE08



TE10



TE12



TE15

Feature

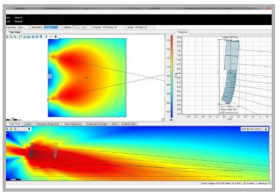


2Way Passive Fixed Installation Loudspeaker

The TETRA series is 2Way Passive Fixed Installation Loudspeaker with a high performance woofer and a high power titanium driver that accommodates a wide range. Covering broadband, it is a versatile speaker that has high-quality and clarity and can be used in various environments.

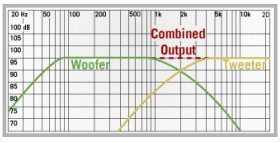
Rotatable Horn

120°(H) × 120°(V) horn can be rotated to change the direction of the horn regardless of the direction of the enclosure.



EASE Data

The sound simulation software EASE Focus offered by AFMG is popular as standard application software in the acoustic industry. It is possible to simulate the sound pressure distribution of the speaker simply by using the EASE Focus and it is one the best systems in the field where the speaker is installed. Inter-M provides speaker data for EASE and EASE Focus.



Crossover

Computer-simulated enclosure tuning and passive network tuning allow smooth frequency response and rich bass and play back uniform tone.

Specification

Model	TE08	TE10	TE12	TE15
Type	8" 2Way Passive Point Source	10" 2Way Passive Point Source	12" 2Way Passive Point Source	15" 2Way Passive Point Source
Frequency Response (±6dB)	114Hz ~ 17kHz	97Hz ~ 16kHz	95Hz ~ 17kHz	82Hz ~ 18kHz
Frequency Range (-10dB)	93Hz ~ 18kHz	71Hz ~ 18kHz	48Hz ~ 18kHz	54Hz ~ 19kHz
Power Handling (AES)	130W	160W	300W	400W
Power Handling (Program)	260W	320W	600W	800W
Power Handling (Peak)	520W	640W	1200W	1600W
Recommended Amplifier Power	260W	320W	600W	800W
Sensitivity (1W/1m)	93dB	95dB	94dB	95dB
Maximum SPL (Peak)	120dB	123dB	125dB	127dB
Nominal Dispersion	153˚x187˚(1kHz) / 65˚x70˚(4kHz)	159˚x169˚(1kHz) / 61˚x78˚(4kHz)	111˚x149˚(1kHz) / 95˚x63˚(4kHz)	124˚x178˚(1kHz) / 75˚x66˚(4kHz)
Nominal Impedance	8Ω	8Ω	8Ω	8Ω
Transformer Taps (70V/100V)	-	-	-	-
LF Driver	8" Woofer 1.46" voice coil	10" Woofer 1.46" voice coil	12" Woofer 2.5" voice coil	15" Woofer 3" voice coil
HF Driver	1" Tweeter 1" voice coil	1" Tweeter 1" voice coil	1" Tweeter 1" voice coil	1" Tweeter 1" voice coil
Horn	Round HORN (Square contour)	Round HORN (Square contour)	Round HORN (Square contour)	Round HORN (Square contour)
Enclosure Material	high-density MDF 15T, Polyurea Coating	high-density MDF 15T, Polyurea Coating	high-density MDF 15T, Polyurea Coating	high-density MDF 15T, Polyurea Coating
Grille	SECC 1.5t, Powder Coating / BLACK	SECC 1.5t, Powder Coating / BLACK	SECC 1.5t, Powder Coating / BLACK	SECC 1.5t, Powder Coating / BLACK
Connection	2 X SPEAKON(1+,1-) [Parallel]	2 X SPEAKON(1+,1-) [Parallel]	2 X SPEAKON(1+,1-) [Parallel]	2 X SPEAKON(1+,1-) [Parallel]
Fittings/Suspension	6xM10 inserts (2xtop, 2xbottom, 2xrear)	6xM10 inserts (2xtop, 2xbottom, 2xrear)	8xM10 inserts (3xtop, 3xbottom, 2xrear)	8xM10 inserts (3xtop, 3xbottom, 2xrear)
Finish	Polyurea Coating	Polyurea Coating	Polyurea Coating	Polyurea Coating
Color	BLACK	BLACK	BLACK	BLACK
Weights (Net)	10.92kg/24lb	13.52kg/29.7lb	21.41kg/47.1lb	25.42kg/55.9lb
Dimensions (Net, W×H×D)	276×435×285mm 10.9×17.1×11.2in	329x482x356mm 13×19×14in	371x582x400mm 14.6×22.9×15.7in	443x632x450mm 17.4×24.9×17.7in
Optional Accessories	SB-30HA (Wall Bracket)	SB-30HA (Wall Bracket)	SB-30HA (Wall Bracket)	SB-30HA (Wall Bracket)

Installation guide

Easy Installation

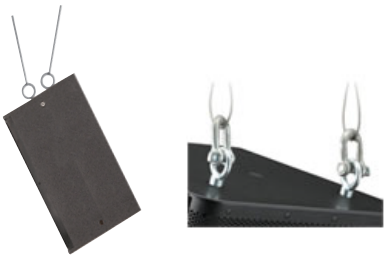
User can use it as a stand speaker through the pole mount cup on the bottom of the speaker. In addition, M10 rigging points can be connected by wire using the I bolt on the top, bottom, left and right sides of the speaker, or simply fixed with the SB–30HA (optional). The enclosure has a safety factor of 10:1 for the ANSI standard and a safety factor of 5:1 for the rigging point, providing greater safety and reliability.

Multi-Purpose Speaker

The TETRA series is designed for various environments and can be used for flying, pole mounting and other purposes.



Pole Mount



Suspended



Floor Standing

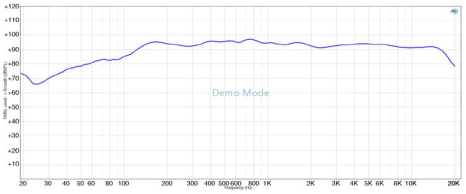


Wall Mount

TETRA SERIES

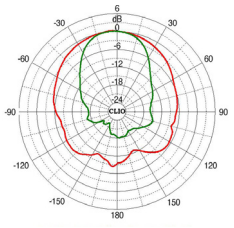
Technical Data

TE08

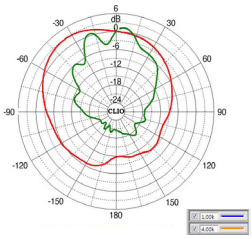


FREQUENCY RANGE & IMPEDANCE

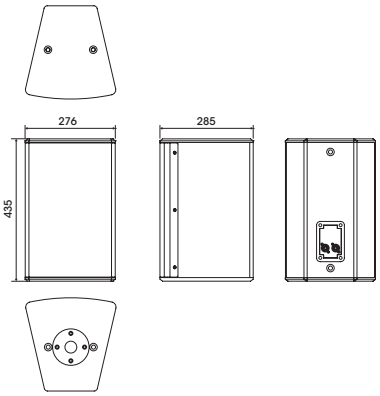




POLAR PATTERN(H)

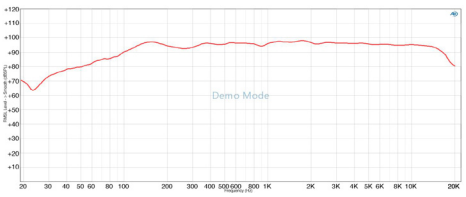


POLAR PATTERN(V)



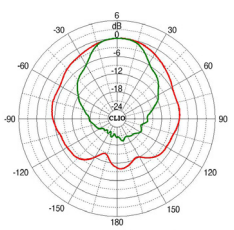
DIMENSION

TE10

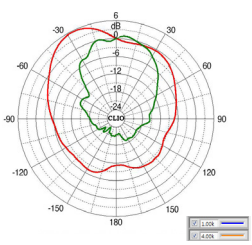


FREQUENCY RANGE & IMPEDANCE

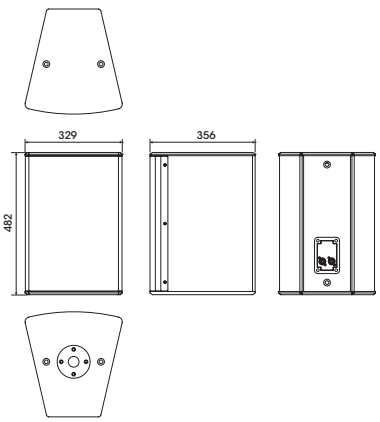




POLAR PATTERN(H)

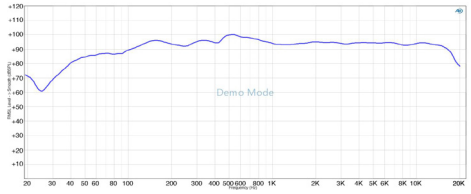


POLAR PATTERN(V)

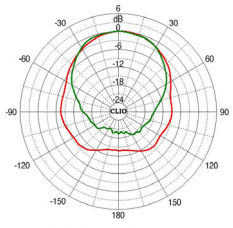


DIMENSION

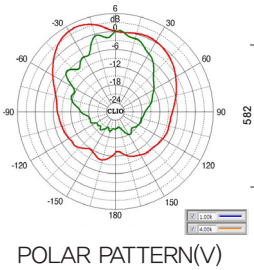
TE12



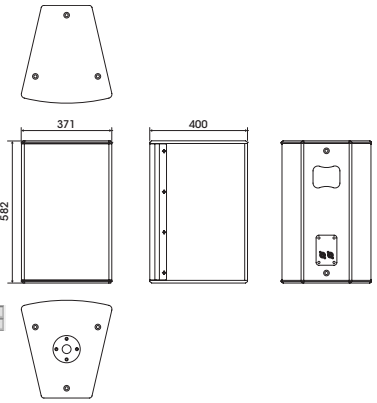
FREQUENCY RANGE & IMPEDANCE



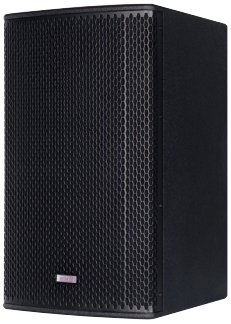
POLAR PATTERN(H)



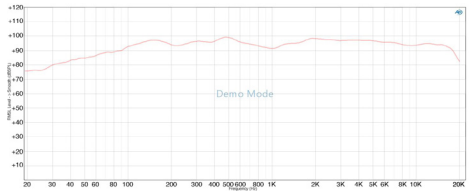
POLAR PATTERN(V)



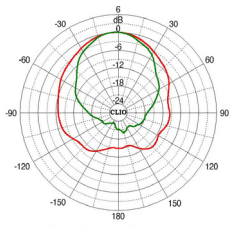
DIMENSION



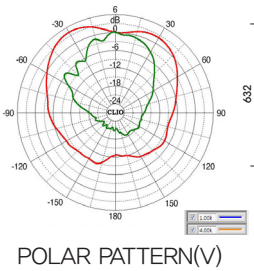
TE15



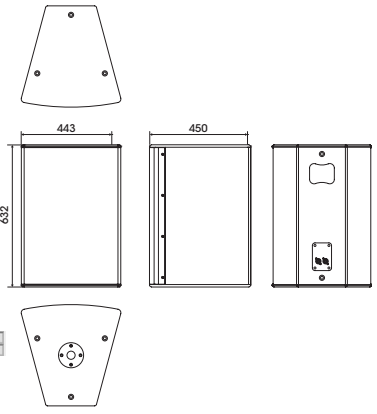
FREQUENCY RANGE & IMPEDANCE



POLAR PATTERN(H)



POLAR PATTERN(V)



DIMENSION



RECOMMEND POWER AMPLIFIER

PENTA Series

		PE08	PE10	PE12	PE15
		250W(8Ω)	300W(8Ω)	500W(8Ω)	600W(8Ω)
V2-3000	500W(8Ω)	O	O		
V2-4000	700W(8Ω)		O	O	
V2-5000	900W(8Ω)			O	O
L-1800	360W(8Ω)	O			
L-2400	500W(8Ω)	O	O		
L-3000	650W(8Ω)		O	O	

HEXA Series

		HE08	HE10	HE12	HE15
		200W(8Ω)	250W(8Ω)	400W(8Ω)	500W(8Ω)
DSA-2000Q	1200W(8Ω)				O
V2-2000	280W(8Ω)	O			
V2-3000	500W(8Ω)		O		
V2-4000	700W(8Ω)			O	O
V2-5000	900W(8Ω)				O
L-1400	280W(8Ω)	O			
L-1800	360W(8Ω)	O			

TETRA Series

		TE08	TE08	TE12	TE15
		130W(8Ω)	160W(8Ω)	300W(8Ω)	400W(8Ω)
DSA-500Q	300W(8Ω)	O	O		
V2-2000	280W(8Ω)	O	O		
V2-3000	500W(8Ω)			O	O
V2-4000	700W(8Ω)				O
L-1400	280W(8Ω)	O	O		
L-1800	360W(8Ω)		O		
L-2400	500W(8Ω)				O
L-3000	650W(8Ω)				O

DSA SERIES : Class-D type multi-channel digital power amplifier



4CH Digital Power Amplifier(300W/8Ω)
DSA-500Q



4CH Digital Power Amplifier(1200W/8Ω)
DSA-2000Q

V2 SERIES : Power Amplifier with high efficiency and light weight with SMPS power supply



2CH Professional Power Amplifier(280W/8Ω)
V2-2000



2CH Professional Power Amplifier(500W/8Ω)
V2-3000



2CH Professional Power Amplifier(700W/8Ω)
V2-4000



2CH Professional Power Amplifier(900W/8Ω)
V2-5000

L SERIES : Solid Power Amplifier with High-Current Toroidal Transformer for stable power supply



2CH Professional Power Amplifier(280W/8Ω)
L-1400



2CH Professional Power Amplifier(360W/8Ω)
L-1800



2CH Professional Power Amplifier(500W/8Ω)
L-2400



2CH Professional Power Amplifier(650W/8Ω)
L-3000



Inter-M Corporation

73, HWAHAP-RO 1402BEON-GIL, YANGJU-SI, GYEONGGI-DO, REPUBLIC OF KOREA

Tel_ +82-2-2289-8141~8 **Fax_** +82-2-2289-8149 **E-mail_** overseas@inter-m.com **www.inter-m.net**

※ The contents stated in this company profile may be subject to change depending on our internal circumstances.

2024. 3. V5