

HX-5 Series
Speaker System Data

SPL Frequency Response<br>Impedance Frequency Response

Polar Pattern
Beam width
Q
EQ Recommendation

## SPL Frequency Response



HX-5B/W (45degree-mode)



HX-5B/W (15degree-mode)


Pair of HX-5B/W (60degree-mode X 2)


Pair of HX-5B/W (45degree-mode $X$ 2)


Pair of HX-5B/W (30degree-mode X 2)


Pair of HX-5B/W (15degree-mode $X$ 2)



HX-5B-WP/W-WP (45degree-mode)

$\qquad$

HX-5B-WP/W-WP (30degree-mode)



Pair of HX-5B-WP/W-WP (60degree-mode X 2)

$\qquad$

Pair of HX-5B-WP/W-WP (45degree-mode X 2)


Pair of HX-5B-WP/W-WP (30degree-mode $X$ 2)


Pair of HX-5B-WP/W-WP (15degree-mode X 2)



FB-120B/W (Full space)


If the FB-120B/W is installed on the wall/ceiling/floor, the SPL is 6 dB plus.

## Impedance Frequency Response

HX-5B/W

$\longrightarrow$ + W5.td1 1 MFEDANCE)

HX-5B-WP/W-WP


FB-120B/W


## Polar Patterns

Vertical Plane

HX-5B/W/B-WP/W-WP (60degree-mode)



hㄱ﹎﹎ㅇdesmode ( $1000 \mathrm{~Hz}, 1 / 3$ Amerase)









-h 5 _60dermode ( $16000 \mathrm{~Hz}, 1 / 3$ Amerase)


## HX-5B/W/B-WP/W-WP (45degree-mode)


—h 5 _45dermode ( $500 \mathrm{H}-\mathrm{z}, 1 / 3$ Amerase)
$\begin{aligned} & \text { h } \times 5 \text { _45desmode }(400 \mathrm{~Hz}, 1 / 3 \text { A merage }) \\ & \mathrm{h} \times 5 \text { _45desmode }(315 \mathrm{~Hz}, 1 / 3 \text { Average })\end{aligned}$

$\rightarrow$ h 10 _ 45 degmode ( $1000 \mathrm{~Hz}, 1 / 3$ Amerage)








-h $\times 5$ _-45dermode ( $16000 \mathrm{~Hz}, 1 / 3$ Amerase)


## HX-5B/W/B-WP/W-WP (30degree-mode)



$$
\begin{aligned}
& \text { —h } 5_{5} \text { _30dermode( } 500 \mathrm{~Hz}, 1 / 3 \text { Amerase) }
\end{aligned}
$$










-h $\times 5$ _3Odermode ( $16000 \mathrm{~Hz}, 1 / 3$ Amerase) h $\times 5$ _3Odegmode ( $12500 \mathrm{~Hz}, 1 / 3$ Awerage)
$\mathrm{h} \times 5$ _30dermode ( $1000 \mathrm{~Hz}, 1 / 3$ Average $)$

## HX-5B/W/B-WP/W-WP (15degree-mode)



> -h×5_15desmode $(500 \mathrm{~Hz}, 1 / 3$ Awerage $)$ $-\mathrm{h} \times 5$ _15desmode $(400 \mathrm{z}, 1 / 3$ Awergese $)$ $\mathrm{h} \times 5$ _15degmode $(315 \mathrm{~Hz}, 1 / 3$ Awerage $)$

hix5_15desmode ( $1000 \mathrm{~Hz}, 1 / 3$ Awerage)




hix 5.15 desmode ( $4000 \mathrm{~Hz}, 1 / 3$ Amerage) h $\times 5$ _15degmode $(3150-\mathrm{H}, 1 / 3$ Awerage $)$
$\mathrm{h} \times 5.15$ desmode $(2500 \mathrm{z}, 1 / 3$ Average $)$



-h $\times 5$ _15dermode ( $16000 \mathrm{~Hz}, 1 / 3$ Amerase) h $\times 5$ _15degmode ( $12500 \mathrm{~Hz}, 1 / 3$ Awerage)
$\mathrm{h} \times 5.15$ desmode $(1000 \mathrm{~Hz}, 1 / 3$ Average $)$

Pair of HX-5B/W/B-WP/W-WP (60degree-mode X 2)

-h $\times 5$ pair_6Odesmode ( $500 \mathrm{~Hz}, 1 / 3$ Amerage)


-hx5pair_60desmode ( $1000 \mathrm{~Hz}, 1 / 3$ Amerage) -h>5pair-60desmode ( $800 \mathrm{~Hz}, 1 / 3$ A мerage)


[^0]
-hヤ5pair_60desmode( $4000 \mathrm{~Hz}, 1 / 3$ Awerage) h $\times$ pair_60desmode ( $3150 \mathrm{~Hz}, 1 / 3$ Amerage)
h $\times 5$ pair_60desmode ( $2500 \mathrm{~Hz}, 1 / 3$ Awerage $)$


[^1]
-h $\times 5$ pair_60desmode ( $16000 \mathrm{~Hz}, 1 / 3$ Amerage) -h×5pair_60desmode ( $12500 \mathrm{~Hz}, 1 / 3$ A,

Pair of HX-5B/W/B-WP/W-WP (45degree-mode X 2)

-h $\times 5$ pair_45degmode ( $500 \mathrm{~Hz}, 1 / 3$ Average)


hix5pair_45desmode ( $1000 \mathrm{~Hz}, 1 / 3$ Amerase)



[^2]
 h $\times 5$ pair_45desmode ( $3150 \mathrm{~Hz}, 1 / 3$ Amerage)
h $\times$ pair_45degmode $2500 \mathrm{~Hz}, 1 / 3$ Amerage $)$


[^3]
-h $\times 5$ pair_45desmode( $16000 \mathrm{~Hz}, 1 / 3$ Amerage)


Pair of HX-5B/W/B-WP/W-WP (30degree-mode X 2)

-h×5pair_30desmode( $500 \mathrm{~Hz}, 1 / 3$ Averase) h $\times 5$ pair 30 desmode $(400 \mathrm{~Hz}, 1 / 3$ Ameraee $)$
$\mathrm{h} \times 5$ pair_30dermode $(315 \mathrm{~Hz}, 1 / 3$ Average $)$

-hx5pair_30desmode( $1000 \mathrm{~Hz}, 1 / 3$ Ajerase)



[^4]




—h $\times 5$ pair_30desmode ( $16000 \mathrm{~Hz}, 1 / 3$ Amerage)


Pair of HX-5B/W/B-WP/W-WP (15degree-mode X 2)

-hx5pair_15desmode( $500 \mathrm{~Hz}, 1 / 3$ Awerase)


-h×5pair_15desmode( $1000 \mathrm{~Hz}, 1 / 3$ Awerage) -h $\times 5$ pair-15desmode $(800 \mathrm{~Hz}, 1 / 3$ Average $)$
h $\times 5$ pair_ 15 desmode $(630 \mathrm{z}, 1 / 3$ Ajergee $)$


[^5]




[^6]
hix5pair_15desmode ( $16000 \mathrm{~Hz}, 1 / 3$ Awerase) -h×कpair_15desmode ( $12500 \mathrm{~Hz}, 1 / 3$ A Merage)



hh﹎﹎60degmode( $1000 \mathrm{~Hz}, 1 / 3$ AMerase)





Th $\times 5$ _60desmode ( $4000 \mathrm{~Hz}, 1 / 3$ Awerage)




-hix5_60desmode ( $16000 \mathrm{~Hz}, 1 / 3$ Averase)


## HX-5B/W/B-WP/W-WP (45degree-mode)



$$
\begin{aligned}
& \text { 一h>5_45dermode( } 500 \mathrm{~Hz}, 1 / 3 \text { Amerase) } \\
& \begin{array}{l}
\text { h } \times 5 \text { _45desmode }(400 \mathrm{~Hz}, 1 / 3 \text { A merage }) \\
\mathrm{h} \times 5 \text { _45desmode }(315 \mathrm{~Hz}, 1 / 3 \text { Average })
\end{array}
\end{aligned}
$$


$\rightarrow$ h 10 _ 45 degmode ( $1000 \mathrm{~Hz}, 1 / 3$ Amerage)








-h $\times 5$ _-45dermode ( $16000 \mathrm{~Hz}, 1 / 3$ Amerase)


## HX-5B/W/B-WP/W-WP (30degree-mode)



$$
\begin{aligned}
& \text {-h×5_30desmode ( } 500 \mathrm{~Hz}, 1 / 3 \text { Amerage) } \\
& \begin{array}{l}
\text { h×5_30desmode ( } 400 \mathrm{~Hz}, 1 / 3 \text { A merage) } \\
\mathrm{h} \times 5 \text { _30desmode }(315 \mathrm{~Hz}, 1 / 3 \text { Average })
\end{array}
\end{aligned}
$$










-h $\times 5$ _3Odermode ( $16000 \mathrm{~Hz}, 1 / 3$ Amerase) h $\times 5$ _3Odegmode ( $12500 \mathrm{~Hz}, 1 / 3$ Awerage)
$\mathrm{h} \times 5$ _30dermode ( $1000 \mathrm{~Hz}, 1 / 3$ Average $)$

## HX-5B/W/B-WP/W-WP (15degree-mode)


一h 5 _15dermode ( $500 \mathrm{~Hz}, 1 / 3$ Amerase)
$\begin{aligned} & \text { h×5_15desmode ( } 400 \mathrm{~Hz}, 1 / 3 \text { A werage) } \\ & \mathrm{h} \times 5 \text { _ } 15 \text { desmode }(315 \mathrm{~Hz}, 1 / 3 \text { Average })\end{aligned}$

$\rightarrow$ h ${ }^{2}$ _15desmode ( $1000 \mathrm{~Hz}, 1 / 3$ Amerage)




-h>5.15desmode ( $4000 \mathrm{~Hz}, 1 / 3$ Amerage) h $\times 5$ _15degmode $(3150-\mathrm{H}, 1 / 3$ Awerage $)$
$\mathrm{h} \times 5.15$ desmode $(2500 \mathrm{z}, 1 / 3$ Average $)$



-h $\times 5$ _15dermode ( $16000 \mathrm{~Hz}, 1 / 3$ Amerase) h $\times 5$ _15degmode ( $12500 \mathrm{~Hz}, 1 / 3$ Awerage)
$\mathrm{h} \times 5.15$ desmode $(1000 \mathrm{~Hz}, 1 / 3$ Average $)$

Pair of HX-5B/W/B-WP/W-WP (60degree-mode X 2)

-h $\times 5$ pair_60desmode( $500 \mathrm{~Hz}, 1 / 3$ Awerase)


-hx5pair_60desmode ( $1000 \mathrm{~Hz}, 1 / 3$ Amerage) h
h


[^7]
-h>5pair_60desmode( $4000 \mathrm{~Hz}, 1 / 3$ Awerage) -hx5pair_60degmode( $3150 \mathrm{~Hz}, 1 / 3$ AMerage)
h $\times$ par_60desmode $(2500 \mathrm{~Hz}, 1 / 3$ Amerage $)$


[^8]
-h×5pair_60desmode( $16000 \mathrm{~Hz}, 1 / 3$ Average) -h×5pair_60desmode ( $12500 \mathrm{~Hz}, 1 / 3$ A,

Pair of HX-5B/W/B-WP/W-WP (45degree-mode X 2)

-h $\times 5$ pair_45degmode ( $500 \mathrm{~Hz}, 1 / 3$ Average)


h $\times 5$ pair_45desmode( $1000 \mathrm{~Hz}, 1 / 3$ Awerage)



[^9]





-hx5pair_45desmode( $16000 \mathrm{~Hz}, 1 / 3$ Averase) h $\times 5$ pair-45degmode $(12500 \mathrm{~Hz}, 1 / 3$ Amerage $)$
h $\times 5$ pair_ 45 desmode $(1000 \mathrm{H}, 1 / 3$ Average $)$

Pair of HX-5B/W/B-WP/W-WP (30degree-mode X 2)

-h $\times 5$ pair_30desmode( $500 \mathrm{~Hz}, 1 / 3$ Awerage) h $\times 5$ pair 30 desmode $(400 \mathrm{~Hz}, 1 / 3$ Ameraee $)$
$\mathrm{h} \times 5$ pair_30dermode $(315 \mathrm{~Hz}, 1 / 3$ Average $)$

huxpair_30desmode( $1000 \mathrm{~Hz}, 1 / 3$ Ajerage)



[^10]
-h×5pair 30demmode ( $4000 \mathrm{~Hz}, 1 / 3$ A, h $1 \times 5$ pair_30desmode ( $3150 \mathrm{~Hz}, 1 / 3$ Amerage)
h $\times$ pair_30degmode $2500 \mathrm{~Hz}, 1 / 3$ Amerage $)$


[^11]
-h $\times 5$ pair_30desmode ( $16000 \mathrm{~Hz}, 1 / 3$ Awerase)


Pair of HX-5B/W/B-WP/W-WP (15degree-mode X 2)

-h $\times 5$ pair_15degmode ( $500 \mathrm{~Hz}, 1 / 3$ Average)


hix5pair_15desmode ( $1000 \mathrm{~Hz}, 1 / 3$ Amerase)



[^12]




[^13]
-hx5pair_15desmode ( $16000 \mathrm{~Hz}, 1 / 3$ Amerage) h×5pair_15desmode ( $12500 \mathrm{H} z, 1 / 3$ A, werage)

## Beam width



Note: The HX-5 series can be used vertically or horizontally.

Vertical Plane


W/B-WP/W-WP (45degree-mode)


HX-5B/W/B-WP/W-WP (30degree-mode)

$\longrightarrow h \times 5.15$ desmode9atdi(1/3Averase)

HX-5B/W/B-WP/W-WP (60degree-mode X 2)


Pair of HX-5B/W/B-WP/W-WP (45degree-mode X 2)


Pair of HX-5B/W/B-WP/W-WP (30degree-mode $\times 2$ )

h $4 \times 5$ pair_30deEmode9atd1 (1/3Averase)

HX-5B/W/B-WP/W-WP (15degree-mode X 2)


Horizontal Plane

HX-5B/W/B-WP/W-WP (60degree-mode)



HX-5B/W/B-WP/W-WP (30degree-mode)


## HX-5B/W/B-WP/W-WP (15degree-mode)



Pair of HX-5B/W/B-WP/W-WP (60degree-mode $X$ 2)


Pair of HX-5B/W/B-WP/W-WP (45degree-mode X 2)


Pair of HX-5B/W/B-WP/W-WP (30degree-mode X 2)


Pair of HX-5B/W/B-WP/W-WP (15degree-mode X 2)


Q

HX-5B/W/B-WP/W-WP (60degree-mode)



HX-5B/W/B-WP/W-WP (30degree-mode)


HX-5B/W/B-WP/W-WP (15degree-mode)


Pair of HX-5B/W/B-WP/W-WP (60degree-mode $X$ 2)


Pair of HX-5B/W/B-WP/W-WP (45degree-mode X 2)


Pair of HX-5B/W/B-WP/W-WP (30degree-mode X 2)


Pair of HX-5B/W/B-WP/W-WP (15degree-mode $\times 2$ )


## EQ Recommendation

For HX-5B/W/B-WP/W-WP

| Filter | Frequency | Gain | Q |
| :--- | :--- | :--- | :--- |
| HPF (12dB/oct) | 60 Hz | - | 2.053 |
| PEQ | 65 Hz | +2 dB | 1.414 |
| PEQ | 800 Hz | -3 dB | 0.7 |
| PEQ | 2.5 kHz | -4 dB | 2.997 |
| PEQ | 5 kHz | +5 dB | 0.305 |


$\qquad$


HX-5B/W (45degree-mode) with EQ


HX-5B/W (30degree-mode) with EQ



Pair of HX-5B/W (60degree-mode X 2) with EQ


Pair of HX-5BM (45degree-mode X 2) with EQ


Pair of HX-5B/W (30degree-mode $X 2$ ) with EQ


Pair of HX-5B/W (15degree-mode X 2) with EQ


HX-5B-WP/W-WP (60degree-mode) with EQ



HX-5B-WP/W-WP (30degree-mode) with EQ

$\qquad$

HX-5B-WP/W-WP (15degree-mode) with EQ


Pair of HX-5B-WP/W-WP (60degree-mode $X 2$ ) with EQ


Pair of HX-5B-WP/W-WP (45degree-mode X 2) with EQ


Pair of HX-5B-WP/W-WP (30degree-mode X 2) with EQ




For HX-5B/W/B-WP/W-WP (low cut) and FB-120

For HX-5B/W/B-WP/W-WP

| Filter | Frequency | Gain | Q |
| :--- | :--- | :--- | :--- |
| HPF BW (24dB/oct) | 90 Hz | - | - |
| PEQ | 800 Hz | -3 dB | 0.7 |
| PEQ | 2.5 kHz | -4 dB | 2.997 |
| PEQ | 5 kHz | +5 dB | 0.305 |

For FB-120B/W

| Filter | Frequency | Q |
| :--- | :--- | :--- |
| HPF (12dB/oct) | 40 Hz | 2.053 |
| LPF BW (24dB/oct) | 100 Hz | - |

Note: When using the processor with HX-5 and FB-120, ensure that the wiring polarity of both units is the same. The level balance shown below is just reference. It should be adjusted.


HX-5B/W (60degree-mode) with EQ and FB-120 with EQ (full space)


HX-5B/W (45degree-mode) with EQ and FB-120 with EQ (full space)


HX-5B/W (30degree-mode) with EQ and FB-120 with EQ (full space)



Pair of HX-5B/W (60degree-mode X 2) with EQ and FB-120 with EQ (full space)


Pair of HX-5B/W (45degree-mode X 2) with EQ and FB-120 with EQ (full space)


Pair of HX-5B/W (30degree-mode $X 2$ ) with EQ and FB-120 with EQ (full space)


Pair of HX-5B/W (15degree-mode $X$ 2) with EQ and FB-120 with EQ (full space)


HX-5B-WP/W-WP (60degree-mode) with EQ and FB-120 with EQ (full space)



HX-5B-WP/W-WP (30degree-mode) with EQ and FB-120 with EQ (full space)


HX-5B-WP/W-WP (15degree-mode) with EQ and FB-120 with EQ (full space)


Pair of HX-5B-WP/W-WP (60degree-mode $X 2$ ) with EQ and FB-120 with EQ (full space)


Pair of HX-5B-WP/W-WP (45degree-mode $X 2$ ) with EQ and FB-120 with EQ (full space)


Pair of HX-5B-WP/W-WP (30degree-mode $X$ 2) with EQ and FB-120 with EQ (full space)


Pair of HX-5B-WP/W-WP (15degree-mode $X$ 2) with EQ and FB-120 with EQ (full space)




[^0]:    -h×5pair_60degmode ( $2000 \mathrm{~Hz}, 1 / 3$ Amerage)
    

[^1]:     -hx5pair_60degmode( $6300 \mathrm{~Hz}, 1 / 3$ Amerage)
    h $\times$ pair_60desmode $5000 \mathrm{~Hz}, 1 / 3$ Aperage $)$

[^2]:    -h×5pair_45degmode( $2000 \mathrm{~Hz}, 1 / 3$ Amerage) h $1 \times 5$ pair_45desmode ( $1600 \mathrm{~Hz}, 1 / 3$ Amerage)
    h $\times$ pair_45desmode( $1250 \mathrm{~Hz}, 1 / 3$ Average $)$

[^3]:     h $1 \times 5$ pair_45degmode ( $6300 \mathrm{~Hz}, 1 / 3$ Amerage)
    h $\times 5$ pair_45desmode $(5000 \mathrm{~Hz}, 1 / 3$ Average $)$

[^4]:    -h×5pair_30degmode( $2000 \mathrm{~Hz}, 1 / 3$ Amerage) h $1 \times 5 \mathrm{pair} 30 \mathrm{degmode}(1600 \mathrm{~Hz}, 1 / 3$ Amerage $)$
    h $\times$ pair_30degmode $(1250 \mathrm{~Hz}, 1 / 3$ Average $)$

[^5]:    -hxpair_15degmode( $2000 \mathrm{~Hz}, 1 / 3$ Amerase)
    

[^6]:    -h×5pair_15desmode( $8000 \mathrm{~Hz}, 1 / 3$ Amerage)
    

[^7]:    -h×5pair_60desmode ( $2000 \mathrm{~Hz}, 1 / 3$ Amerage)
    

[^8]:     -hx5pair_60degmode( $6300 \mathrm{~Hz}, 1 / 3$ Amerage)
    h $\times$ pair_60desmode $5000 \mathrm{~Hz}, 1 / 3$ Aperage $)$

[^9]:    -h×5pair_45degmode( $2000 \mathrm{~Hz}, 1 / 3$ Amerage)
    

[^10]:    -h×5pair_30degmode ( $2000 \mathrm{~Hz}, 1 / 3$ Amerage) h $1 \times 5 \mathrm{pair} 30 \mathrm{degmode}(1600 \mathrm{~Hz}, 1 / 3$ Amerage $)$
    h $\times$ pair_30degmode $(1250 \mathrm{~Hz}, 1 / 3$ Average $)$

[^11]:    h×6pair_30degmode( $8000 \mathrm{~Hz}, 1 / 3$ Amerage)
    

[^12]:    -h×5pair_15desmode( $2000 \mathrm{~Hz}, 1 / 3$ Awerage)
    

[^13]:    -h×5pair_15desmode( $8000 \mathrm{~Hz}, 1 / 3$ Amerage)
    

