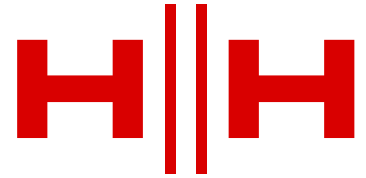


TNX-I581

15"/8" Three-Way Powered Loudspeaker

T E S S E N



SPEC SHEET



The TNX-I581 is a compact and versatile loudspeaker in the Tessen-X range. It has been designed to deliver maximum performance for its size and is suitable for front of house PA, or install use.

Key Features:

- Premium high sensitivity, long throw CELESTION 15" woofer
- Premium HH 8" midrange driver, voiced for the vocal range
- Premium high performance, CELESTION 1.4" compression driver.
- 2600W asymmetric highly efficient Class D bi-amp
- 7 x M10 fly points for horizontal or vertical suspension
- 35mm pole mount
- Custom designed DSP engine
- EQ pre-sets for room/application optimisation
- Variable EQ for instant fine tuning for venue/audience size
- Auto-ranging feedback suppression
- Inbuilt 2 channel mixer
- Extensive protection
- Multilayer plywood construction with hardwearing black finish
- 1.5mm steel grille with acoustic foam backing for maximum driver protection
- Frequency range: (-10) 40-20KHz
- Frequency range: (-3) 50-20KHz

Applications:

- Live sound venues
- Dance clubs
- Worship facilities
- Sports facilities
- General sound reinforcement

Control Panel:



System

Model :	TNX-1581
System type :	3 way active loudspeaker, Bass reflex
Frequency response (-10) :	40 - 20kHz
Frequency response (-3) :	52 - 20KHz
Max SPL (Peak) :	134dB

Amplifier

Power Rating :	2600W Peak, 1300W Continuous
Input Impedance :	22K Balanced, 10K unbalanced
Gain :	20dBu
Maximum Input Level : Mic/Line :	21dBu
Input Connectors :	2x Balanced Combi XLR/1/4" Jack connectors
Output Connectors :	1x Balanced XLR output (Switchable CH1/CH1+2)
Signal Indicators :	Power, Standby, Anti-Feedback, Signal Present, Clip Indicator, EQ Mode
EQ :	User selectable performance presets for Flat, Bass, Monitor, Vocal plus HF/LF fine trim.
DSP :	Crossover, EQ, phase and time optimisation
Protection :	Comprehensive protection and clip free limiting + clip indicator
Feedback Suppression :	Auto ranging 12-frequency auto notch anti-feedback
Other :	2x channel gain, logo on/off
AC Power :	~100V-240V 50/60Hz
AC Power Consumption :	150W (1/8th Power)

Speaker

HF Driver :	1.4" Celestion CDX1 compression driver
Mid Driver :	8" HH MD-428DN
LF Driver :	15" Celestion TF1525e
Coverage :	70H x 70V nominal
Crossover Frequency :	3KHz

Enclosure

Cabinet :	Lightweight multilayer plywood
Finish :	Hard wearing black finish
Flying points :	7 x M10 Penn-Elcom fly points
Pole mount :	35mm
Grille :	Heavy gauge 1.5mm powdercoated steel with acoustic foam backing
Logo :	Illuminating with on/off switch
Monitor Angle :	n/a
Unit dimensions (mm) (HWD) :	885x448x390
Unit weight (Kg) :	29.6
Carton dimensions (mm) (HWD) :	960x535x480
Packed weight (Kg) :	33.8

In the interest of continued development, HH reserves the right to amend product specification without prior notification.

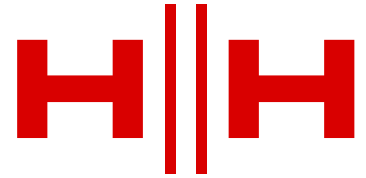


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TNX-1581

15"8" Three-Way Powered Loudspeaker

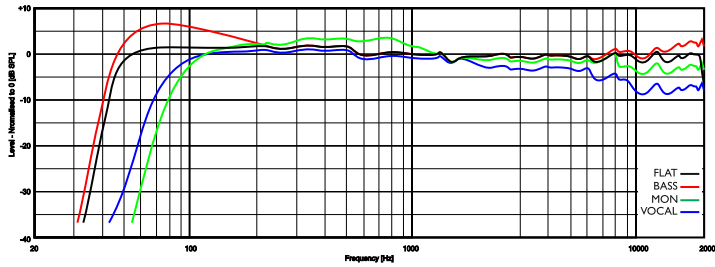
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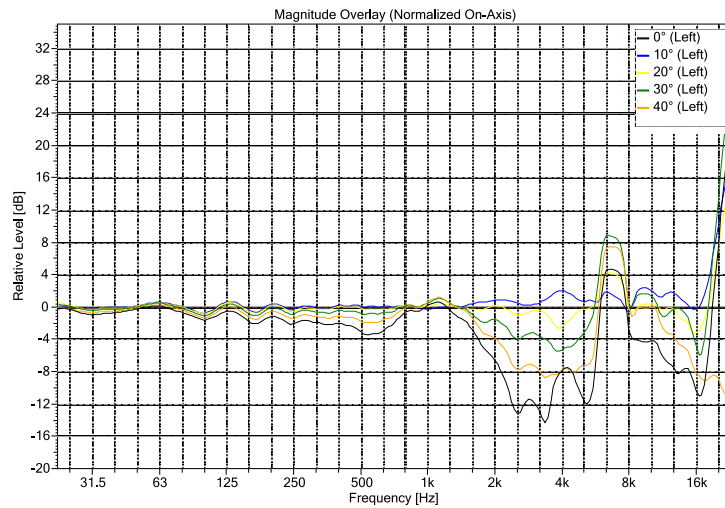
FREQUENCY RESPONSE

Display Parameters: Frequency: (1/3rd Octave) Mer: 0° Par: 0°



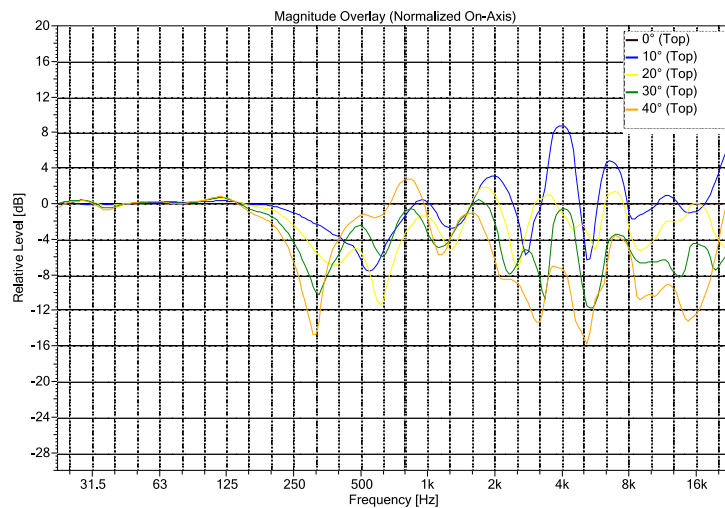
HORIZONTAL OFF-AXIS RESPONSE

Data Shown: TNX-1581 (HH Electronics) Resolution: High Res. Mer 30° Par 5° Symmetry: Horizontal
Display Parameters: Frequency: 1000Hz (1/3rd Octave) Mer: 0° Par: 0°



VERTICAL OFF-AXIS RESPONSE

Data Shown: TNX-1581 (HH Electronics) Resolution: High Res. Mer 30° Par 5° Symmetry: Horizontal
Display Parameters: Frequency: 1000Hz (1/3rd Octave) Mer: 0° Par: 0°

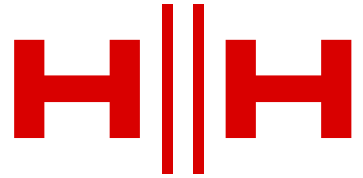


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TNX-1581

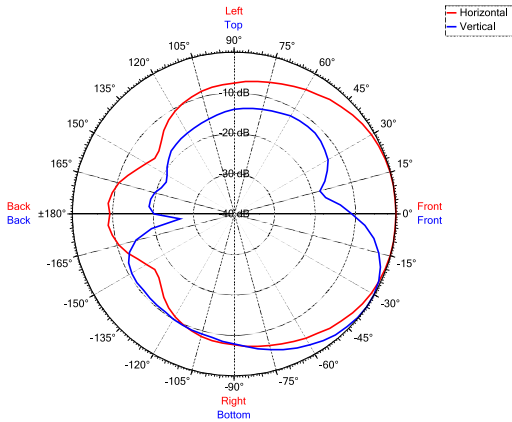
15"/8" Three-Way Powered Loudspeaker

T E S S E N

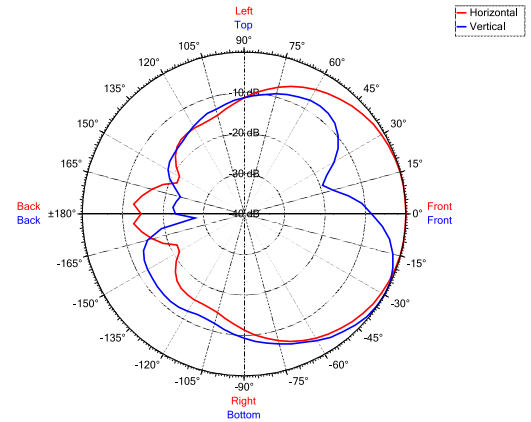


SPEC SHEET

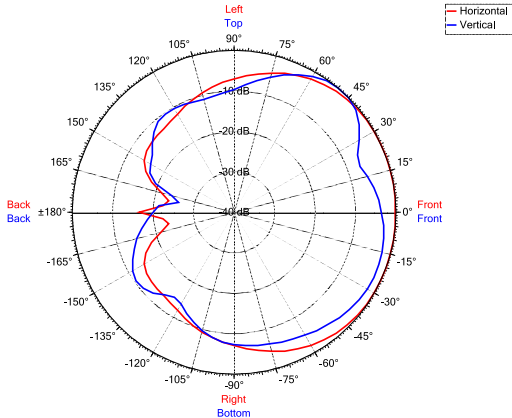
Data Show: TNX-1581 (HH Electronics) Resolution: High Res. Mer 30° Par 5° Symmetry: Horizontal
Display Parameters: Frequency: 500Hz (1/3rd Octave)



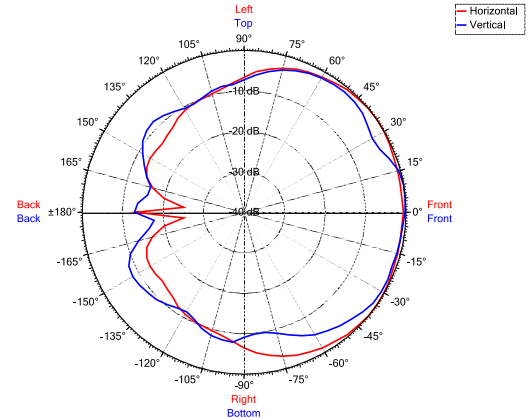
Data Show: TNX-1581 (HH Electronics) Resolution: High Res. Mer 30° Par 5° Symmetry: Horizontal
Display Parameters: Frequency: 630Hz (1/3rd Octave)



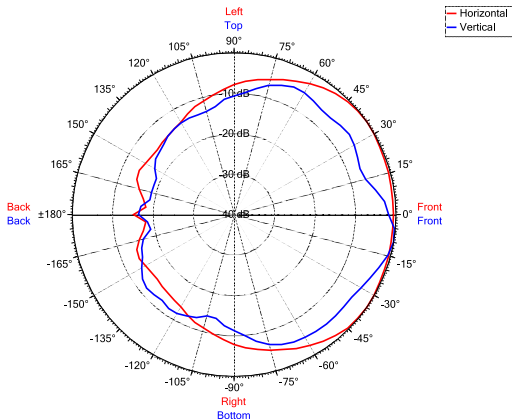
Data Show: TNX-1581 (HH Electronics) Resolution: High Res. Mer 30° Par 5° Symmetry: Horizontal
Display Parameters: Frequency: 800Hz (1/3rd Octave)



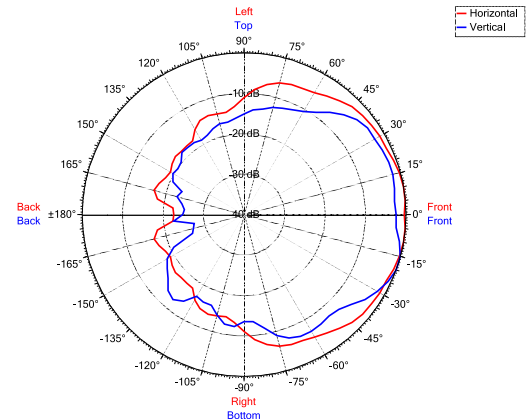
Data Show: TNX-1581 (HH Electronics) Resolution: High Res. Mer 30° Par 5° Symmetry: Horizontal
Display Parameters: Frequency: 1000Hz (1/3rd Octave)



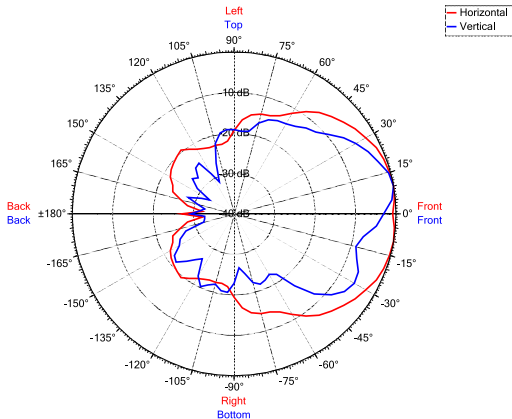
Data Show: TNX-1581 (HH Electronics) Resolution: High Res. Mer 30° Par 5° Symmetry: Horizontal
Display Parameters: Frequency: 1250Hz (1/3rd Octave)



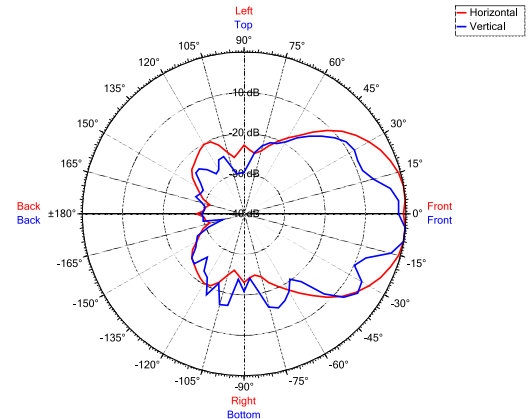
Data Show: TNX-1581 (HH Electronics) Resolution: High Res. Mer 30° Par 5° Symmetry: Horizontal
Display Parameters: Frequency: 1600Hz (1/3rd Octave)



Data Show: TNX-1581 (HH Electronics) Resolution: High Res. Mer 30° Par 5° Symmetry: Horizontal
Display Parameters: Frequency: 2000Hz (1/3rd Octave)



Data Show: TNX-1581 (HH Electronics) Resolution: High Res. Mer 30° Par 5° Symmetry: Horizontal
Display Parameters: Frequency: 2500Hz (1/3rd Octave)

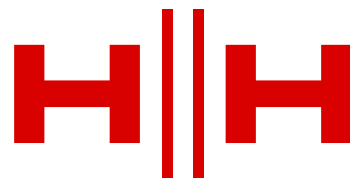


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TNX-1581

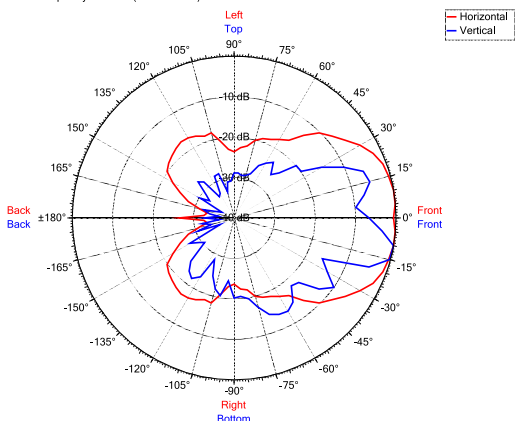
15"/8" Three-Way Powered Loudspeaker

T E S S E N

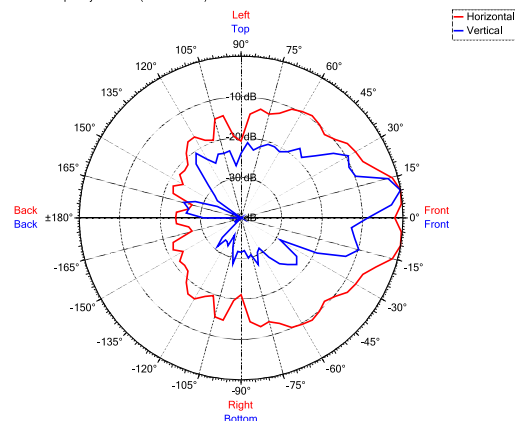


SPEC SHEET

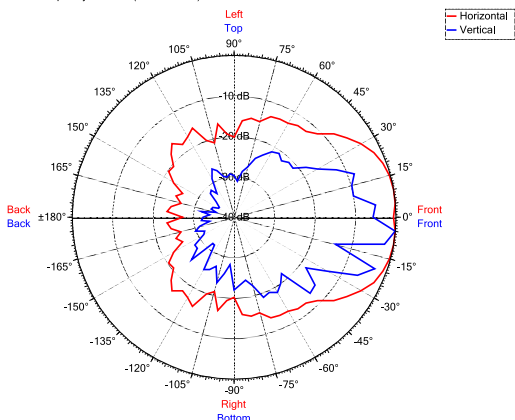
Data Show: TNX-1581 (HH Electronics) Resolution: High Res, Mer 30° Par 5° Symmetry: Horizontal
 Display Parameters: Frequency: 3150Hz (1/3rd Octave)



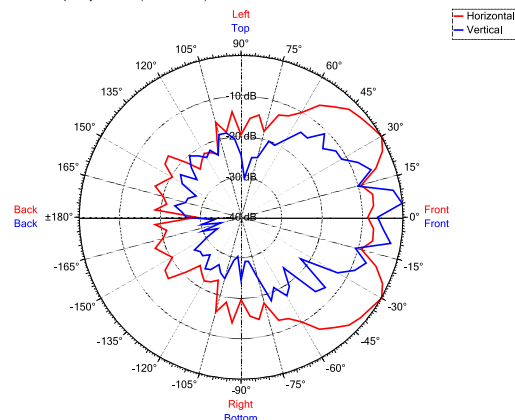
Data Show: TNX-1581 (HH Electronics) Resolution: High Res, Mer 30° Par 5° Symmetry: Horizontal
 Display Parameters: Frequency: 4000Hz (1/3rd Octave)



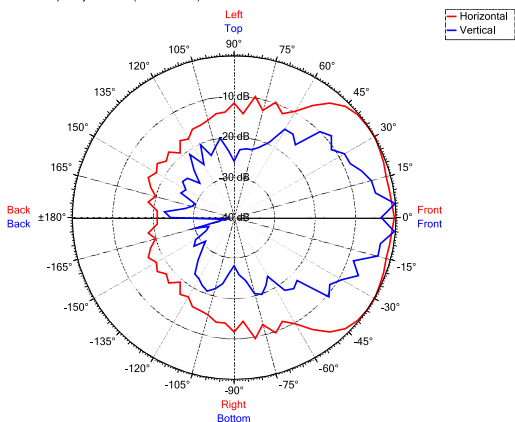
Data Show: TNX-1581 (HH Electronics) Resolution: High Res, Mer 30° Par 5° Symmetry: Horizontal
 Display Parameters: Frequency: 5000Hz (1/3rd Octave)



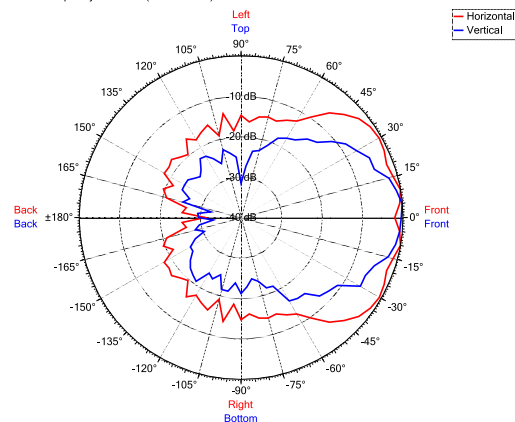
Data Show: TNX-1581 (HH Electronics) Resolution: High Res, Mer 30° Par 5° Symmetry: Horizontal
 Display Parameters: Frequency: 6300Hz (1/3rd Octave)



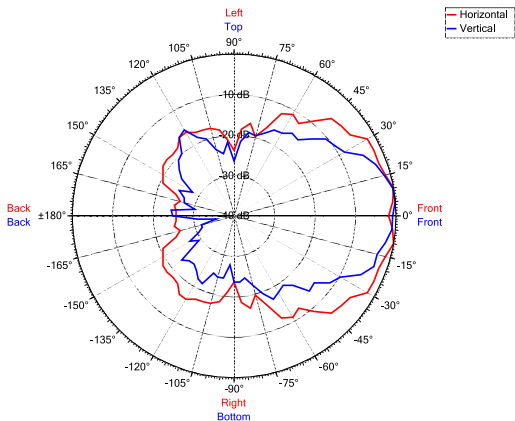
Data Show: TNX-1581 (HH Electronics) Resolution: High Res, Mer 30° Par 5° Symmetry: Horizontal
 Display Parameters: Frequency: 8000Hz (1/3rd Octave)



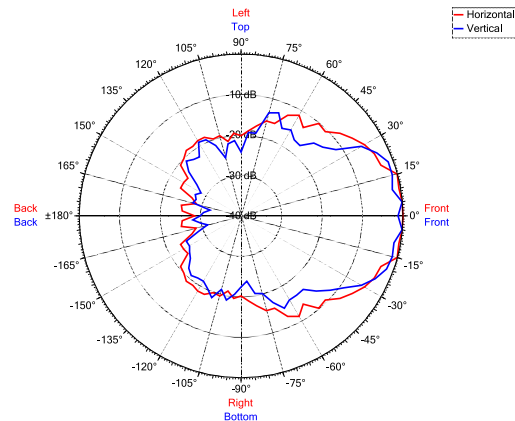
Data Show: TNX-1581 (HH Electronics) Resolution: High Res, Mer 30° Par 5° Symmetry: Horizontal
 Display Parameters: Frequency: 10000Hz (1/3rd Octave)



Data Show: TNX-1581 (HH Electronics) Resolution: High Res, Mer 30° Par 5° Symmetry: Horizontal
 Display Parameters: Frequency: 12500Hz (1/3rd Octave)



Data Show: TNX-1581 (HH Electronics) Resolution: High Res, Mer 30° Par 5° Symmetry: Horizontal
 Display Parameters: Frequency: 16000Hz (1/3rd Octave)

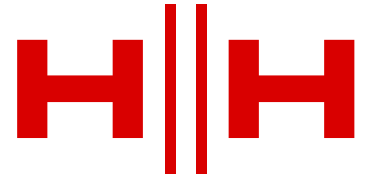


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TNX-1581

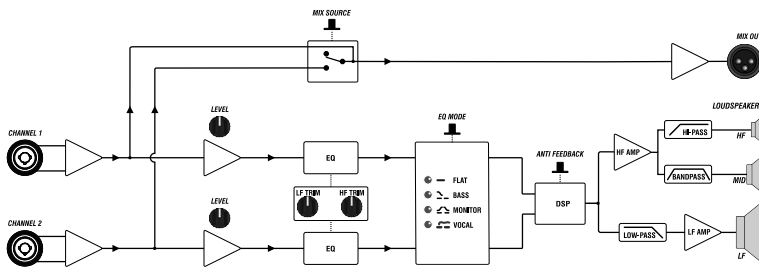
15"8" Three-Way Powered Loudspeaker

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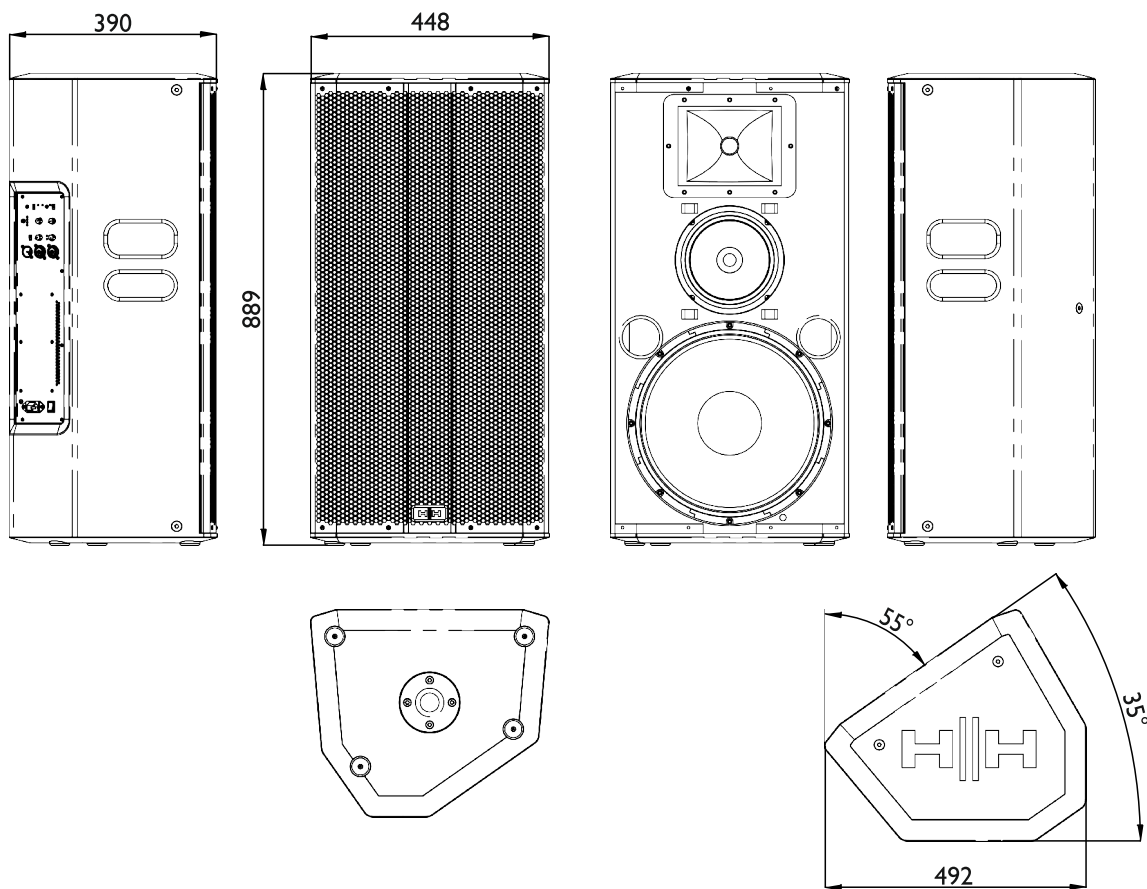


SPEC SHEET

BLOCK DIAGRAM



DIMENSIONS (in mm)



For additional polar plots, EASE modelling files, 2D and 3D drawings files, please check www.hhelectronics.com



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