



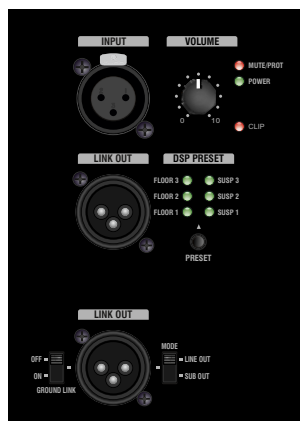
TNA ACTIVE LINE ARRAY SYSTEM

T E S S E N
LIVE SOUND & INSTALLATION

TNA-2120SA

Features

- Ultra compact 2x 12" active subwoofer
- Integrated High Power Class-D amplifier
- 6 Internal DSP presets, optimally voiced for suspended or ground stacked configurations
- Universal switched mode supply with PFC (Power factor correction) and global mains voltage operation
- Drives up to six TNA-2051 cabinets



USER CONTROL FUNCTIONS

Applications

- Bars And Clubs
- Live Sound Reinforcement
- Ballrooms
- Conference / Speech
- Worship
- Corporate AV events



Type	Three Channel Active Subwoofer
Description	The TNA-2120SA is a multi-channel active subwoofer for powering a complete TNA line array system. The TNA-2120SA features two high power 12" low frequency woofers with exceptionally high output. The TNA-2120SA active subwoofer houses three channels of high performance amplification and cutting edge built in DSP presets. As a modular system, the TNA-2120SA is capable of powering up to 6 x TNA-2051 line array satellite cabinets. With Integrated rigging hardware, and optional suspension bracket and dolly board, the TNA-2120SA can be installed quickly and easily. The TNA-2120SA offers a max SPL of 137dB and offers a frequency response as low as 35Hz. When combined upto six TNA-2051s, the TNA-2120SA offers an ideal venue installation or point source solution without the extra expense of rack amplifiers and processors. Ideal for venues, schools, sports, gyms, hotels and more.
Specifications	
Model	TNA-2120SA
System Type	2x12" Active Subwoofer, Bass Reflex, with Three channel internal amplifier (Two HF Amplifier Channels for external satellites)
Frequency Response	52Hz - 200Hz (-10dB) 52Hz - 150Hz (-3dB) * Tuned with internal DSP Presets
LF Driver	2x 12-inch HH designed high performance driver
Max SPL 1m ²	134 dB SPL Continuous, 137 dB SPL Peak
Amplifier	
System Amplifier Power Rating	4800W Peak, 2400W Continuous, 1200W RMS
Subwoofer Amplifier Power Rating	2400W Peak, 1200W Continuous, 600W RMS
Satellite Amplifier Power Rating	Two Channels of 1200W Peak, 600W Continuous, 300W RMS
Input Connectors	Balanced XLR Connector
Output Connectors	1x Balanced XLR Link Out, 1x Balanced XLR Sub out with 2 way/3 way mode switch and Ground Lift Switch. 2x locking speakon connectors for external TNA-2051 cabinets
Signal Indicators	Power, Mute/Protect, Clip Indicator, Preset Mode
DSP	56bit DSP controlling Crossover, EQ, phase and time optimisation for array cabinets. Six built in DSP presets for typical use cases
Protection	Comprehensive protection and clip free limiting + clip indicator
Controls	Master Volume, DPS Preset Switch
Input Impedance	22K Balanced, 10K unbalanced
Power Requirements	
AC Power	~100V-240V 50/60Hz (Locking Powercon)
Typical Power Consumption	250W (1/8th Power)
Enclosure	
Cabinet	15mm Plywood
Finish	Painted Black (White finish optional, subject to MOQ)
Mounting Bracket	TNA-BRK1
Mounting Points	8x M8 fixings for included metal side brackets, and optional TNA-BRK1 flying bracket assembly
Grille	1.5mm Thickness, Hexagonal mesh
Unit dimensions (HWD)	730 x 475 x 460mm, 28.7" x 18.7" x 18.1"
Unit weight	36.7Kg, 80.9 lbs
Carton dimensions (HWD)	910 x 610 x 580mm, 35.8" x 24" x 22.8" , 0.322 M3
Packed weight	42.8Kg, 94.4 lbs
EAN13 Code	5060109457674

1 AES standard Pink Noise 12dB crest factor 2 hours

2 System max SPL based on TNA-2120SA and 6x TNA-2051 (1/2 Space)

POWERCON is a trademark of NEUTRIK AG



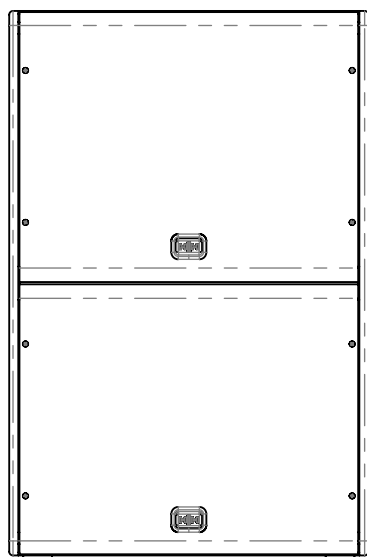


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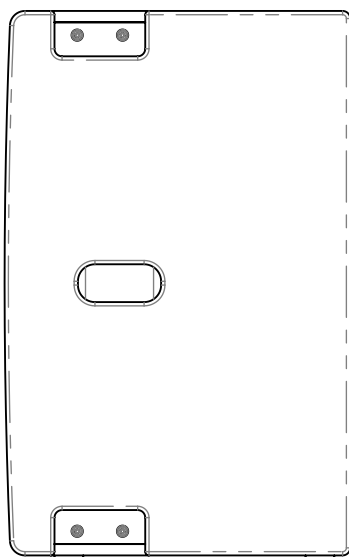
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LIVE SOUND & INSTALLATION

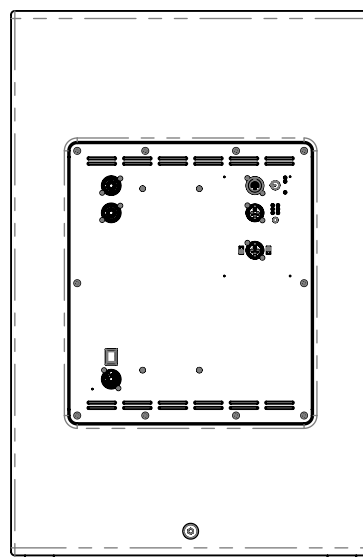
DIMENSIONS (in mm)



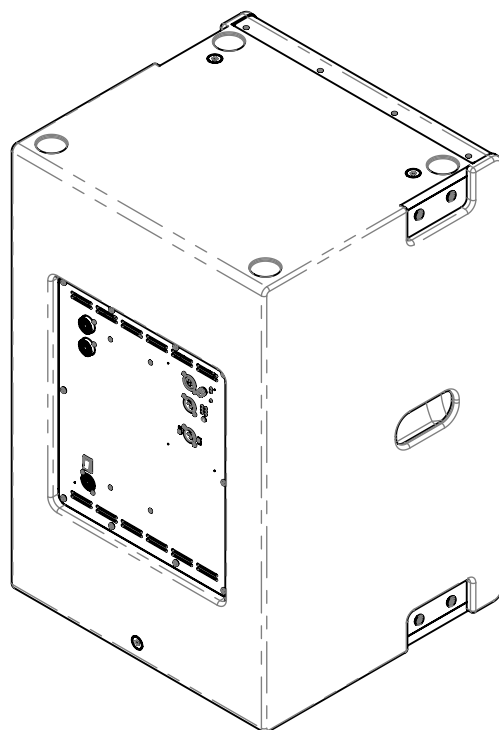
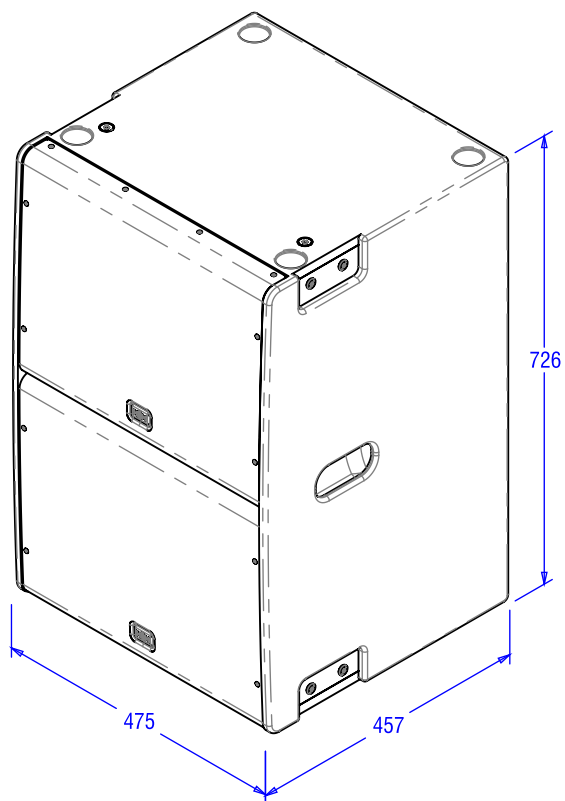
FRONT

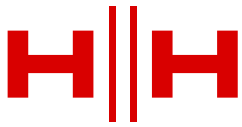


RIGHT

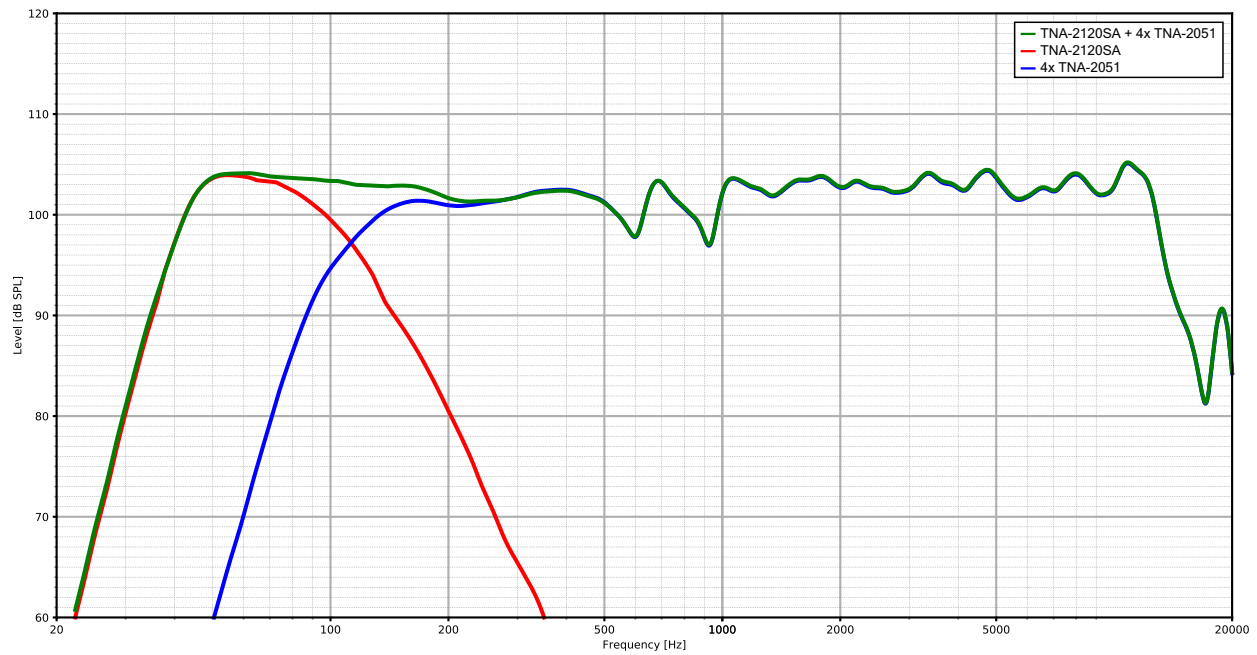


REAR





SYSTEM RESPONSE 1x TNA-2120SA & 4x TNA-2051



INTERNAL CABINET CONFIGURATION





TNA ACTIVE LINE ARRAY SYSTEM

T E S S E N

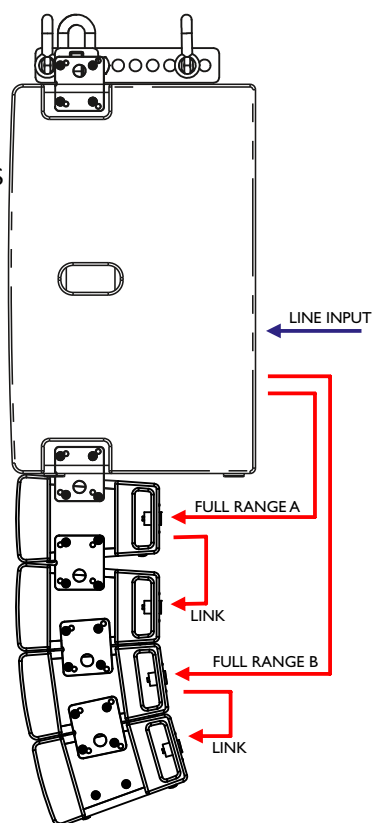
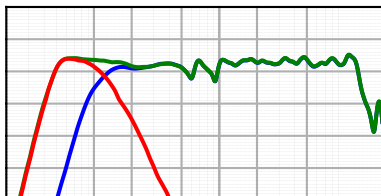
LIVE SOUND & INSTALLATION

TYPICAL SYSTEM CONFIGURATIONS

SUSPENDED SYSTEM

- 1x TNA-BRK1 SUSPENSION FRAME
- 1x TNA-2120SA ACTIVE 3CH SUBWOOFER
- 4-6x TNA-2051 PASSIVE FULL RANGE SATELLITES

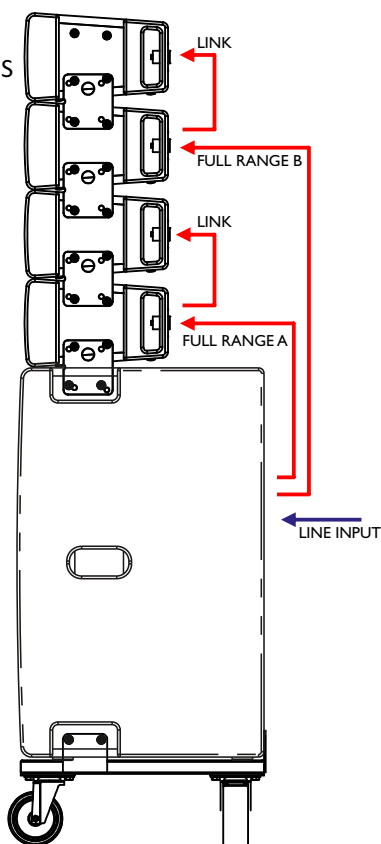
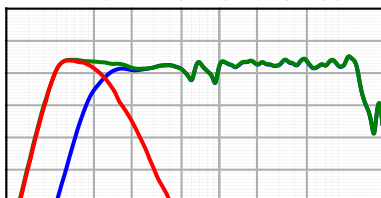
SYSTEM SET FOR TWO WAY OPERATION
TNA-2121SA OPERATING AS LO-PASS SUBWOOFER



FLOOR SYSTEM 1

- 1x TNA-DF1 DOLLY FRAME
- 1x TNA-2120SA ACTIVE 3CH SUBWOOFER
- 4-6x TNA-2051 PASSIVE FULL RANGE SATELLITES

SYSTEM SET FOR TWO WAY OPERATION
TNA-2121SA OPERATING AS LO-PASS SUBWOOFER





TNA ACTIVE LINE ARRAY SYSTEM

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LIVE SOUND & INSTALLATION

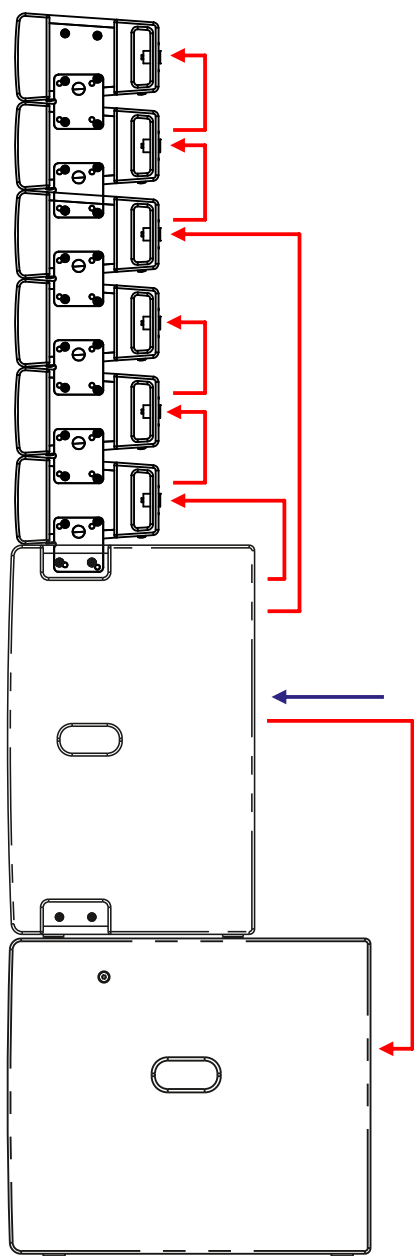
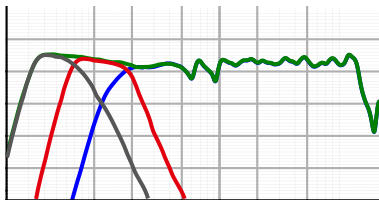
TYPICAL SYSTEM CONFIGURATIONS

FLOOR SYSTEM 2

6X TNA-2051
1X TNA-2120SA
1X TNA-1800SA

PASSIVE FULL RANGE SATELLITES
ACTIVE 3CH SUBWOOFER
18" ACTIVE SUBWOOFER

SYSTEM SET FOR THREE WAY OPERATION.
TNA-2120SA OPERATING AS BANDPASS (MID) SUBWOOFER
WITH TNA-1800SA TAKING CARE OF LO-PASS BASS





TNA ACTIVE LINE ARRAY SYSTEM



OPTIONAL ACCESSORIES

Type	Install Bracket, Suspended
Description	The TNA-BRK1 attaches securely to the the TNS-1200S, TNA-2120SA, OR TNA-2051 to allow secure suspension of the system.
Specifications	
Model	TNA-BRK1
Suspension Type	The bracket allows you to fit upto three D-shackles (included)
Mounting Type	Five M8 mounting points hold the bracket securely to the cabinet
Max Load Weight	120Kg, 264lbs
Max Unit Load	8x TNA-2051 & 2x TNA-1200s OR 4x TNA-1200S
Unit dimensions (HWD)	64 x 451 x 340mm, 2.5" x 17.8" x 13.4"
Unit weight	5.6Kg, 12.3 lbs
Carton dimensions (HWD)	145 x 505 x 430mm, 5.7" x 19.9" x 16.9" , 0.031 M3
Packed weight	6.7Kg, 14.8 lbs



Type	Portable Sytem Wheeled Dolly
Description	The TNA-DF1 attaches securely to the the TNS-1200S OR TNA-2120SA and transforms the array into a fully portable system
Specifications	
Model	TNA-DF1
Mounting Type	Five M8 mounting points hold the frame securely to the cabinet
Castors	100mm heavy duty PU castor. Two fixed, two omni-directional with brakes
Unit dimensions (HWD)	206 x 457 x 453mm, 8.1" x 18" x 17.8"
Unit weight	10.8Kg, 23.8 lbs
Carton dimensions (HWD)	160 x 520 x 520mm, 6.3" x 20.5" x 20.5" , 0.043 M3
Packed weight	12.9Kg, 28.4 lbs



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

