



T E S S E N
iNSTALL

TNi-WPRO SERIES CABINETS

USER MANUAL

OVERVIEW

The TNi-WPRO range comprises four sizes of high-power, 2-way, full-range loudspeakers ideally suited for environments where a higher SPL is required. Each TNi-WPRO model features a high-performance HH-designed low-frequency driver paired with a Celestion high-frequency compression driver. The custom-designed rotatable waveguide makes the TNi-WPRO series even more versatile, allowing for vertical or horizontal orientation with a 90°(H) x 60°(V) dispersion angle. All of these features are housed in a robust 15mm plywood enclosure making the TNi-WPRO range the perfect choice for bars, clubs, restaurants, houses of worship, and more.



APPLICATIONS

- Bars and Clubs
- Live Sound Reinforcement
- Restaurants
- Ballrooms
- Corporate AV and Conferences
- Main PA Infill
- Secondary Stages
- Houses of Worship
- Leisure Centres and Retail

INSTALLATION

WALL BRACKET

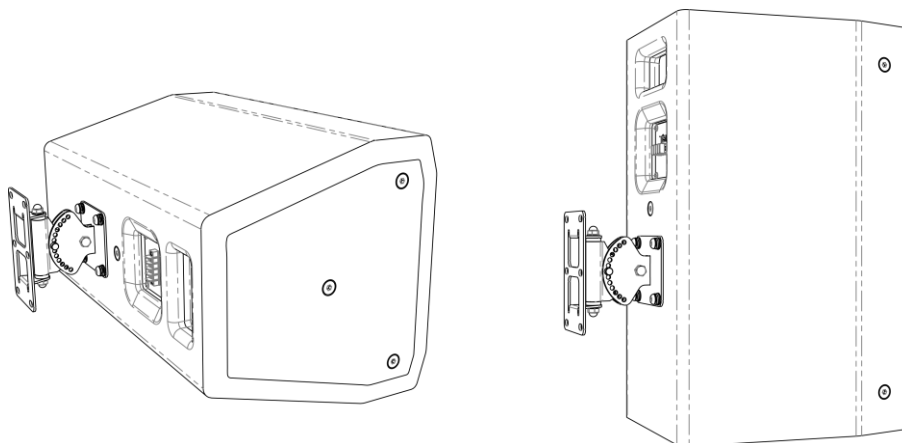
All cabinets in the TNi-WPRO range have four rear mounted M8 fixing points for use with the HH TNi-BRK30 wall bracket (sold separately) or other compatible hardware. TNi-BRK30 provides a solid, adjustable angle fixing in either horizontal or vertical installations and is available in either black or white finishes.

TNi-BRK30-B - Black finish

TNi-BRK30-W - White finish

The wall mounting of cabinets should be performed only by properly qualified persons, in compliance with all local bylaws and using approved hardware.

It is the installer's responsibility to ensure the point of fixing is structurally adequate to support the weight of the cabinet. For added safety, it is strongly recommended that the audio connections, mechanical fixing, and mounting bracket are checked periodically.



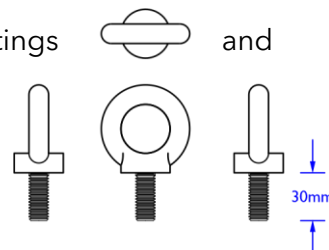
For increased safety, the rear M10 safety harness fixing point (or one of the suspension point fixings) should be used to make an additional separately terminated fixing point.

SUSPENSION

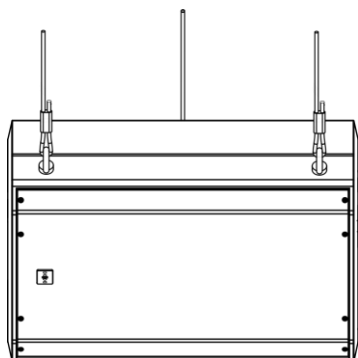
The TNi-WPRO cabinets come equipped with 7x M10 suspension points pre-fitted with travel bolts. These may be removed, and eye bolts inserted for flying cabinets.

EYE BOLTS

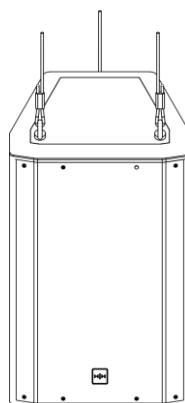
M10 eye bolts (*not included*) must be high quality forged shouldered type fittings specifically rated for the purpose. A minimum thread length of 30mm is mandatory. **Cast steel eye bolts of the type typically available from DIY suppliers are NOT suitable and should not be used under any circumstances.** The suspension points are located on the left, top, rear and base of the cabinet. Prior to fitting, remove the M10x35 travel bolts and store for future use.



HORIZONTALLY SUSPENDED



VERTICALLY SUSPENDED

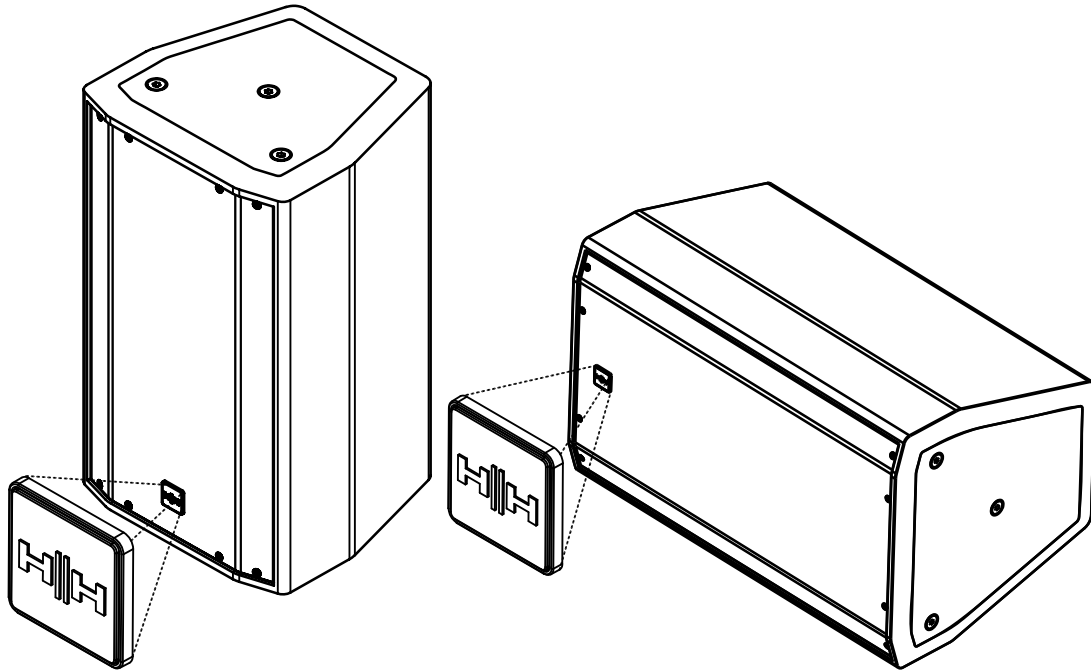


The suspension or 'flying' of cabinets should be performed only by properly qualified persons, in compliance with all local laws and using approved hardware. Failure to do so could result in serious injury or death. If you are not properly qualified or do not know of pertinent regulations, consult qualified personnel for advice and assistance.

It is strongly advised that the audio connections, mechanical fixing, and mounting bracket are checked periodically.

LOGO ORIENTATION

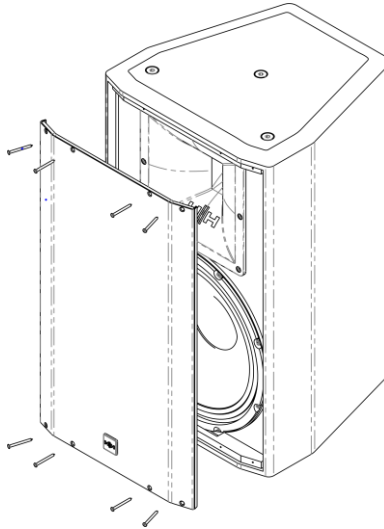
The logo may be rotated depending on your chosen installation orientation. Gently twist to your preferred orientation. The included spring locks will snap to 90-degree increments and hold firmly in place.



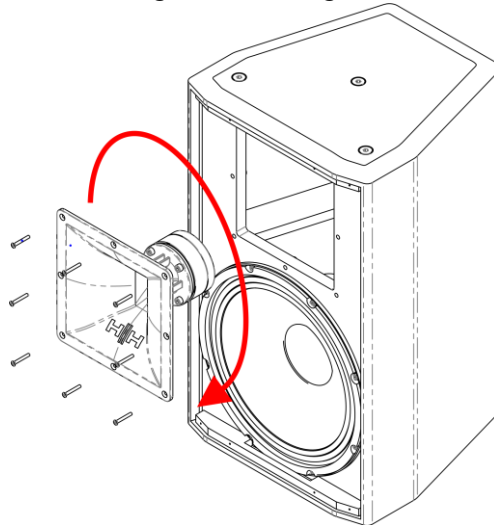
WAVE GUIDE ORIENTATION

The custom-designed waveguide may be rotated to suite your dispersion requirements.

To access the waveguide, the front grille must first be removed by unscrewing the grille mounting screws indicated below.



Next remove the waveguide by unscrewing the 8 waveguide screws and set to required orientation.



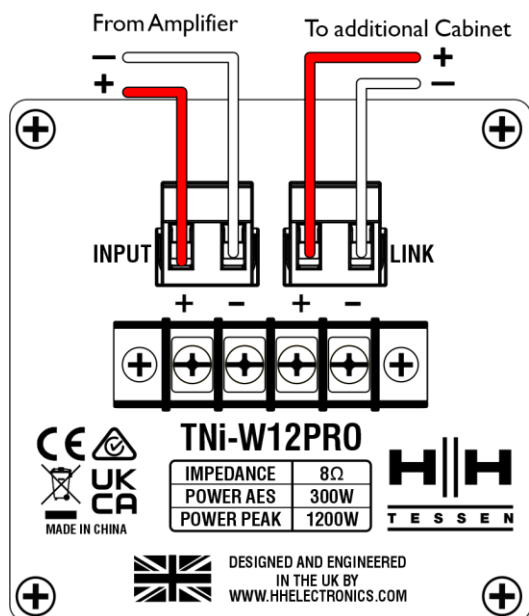
There is no need to remove the horn entirely, just enough for it to be rotated. Re-assemble the cabinet.

The waveguide is factory set for vertical orientation, indicated by the HH logo on the bottom face of the waveguide.

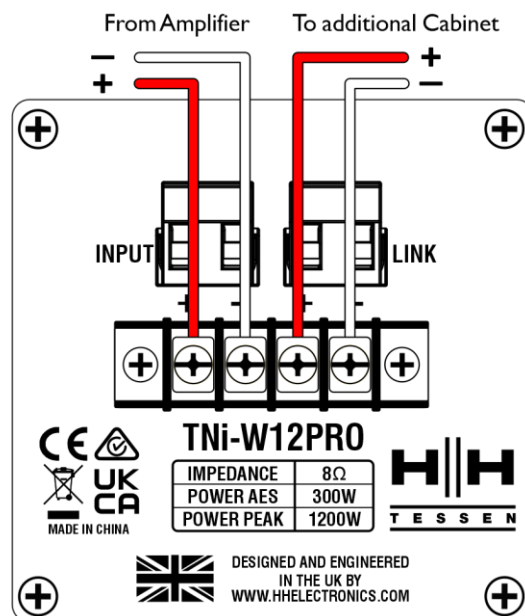
CONNECTIONS

The TNi-WPRO loudspeaker range is fitted with both with Euroblock and M4 screw input/output terminals. The I/O connections are wired in parallel so can be interchanged or used to link additional cabinets.

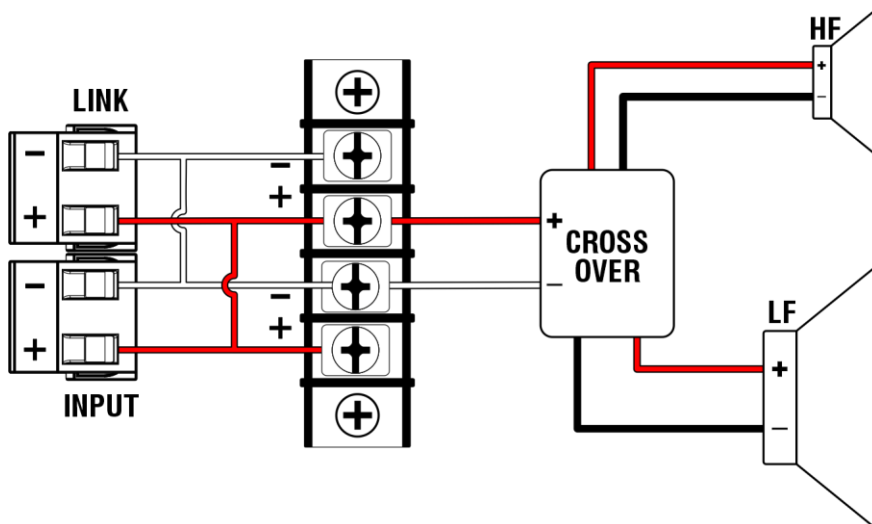
EUROBLOCK CONNECTION



TERMINAL CONNECTION



INTERNAL CONNECTIONS

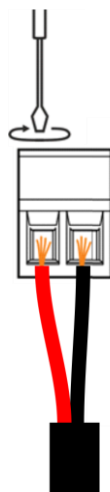


WIRING

EUROBLOCK WIRING

Follow these steps when wiring up a Euroblock connector. You will need a flathead screwdriver with a 1.2mm or smaller head, as well as wire strippers (*not provided*).

1. Strip back the wire insulation using wire strippers, leaving around 7-10mm of exposed cable to allow ample wire to go into the plug. Twist the strands tightly so there are no loose wires.
2. Fully unscrew the plug screws for the pins you will be using.
3. Insert each cable to the correct pin and proceed to tighten the screws for all sockets with wires inside - it is easiest to do one wire at a time.



4. Check there are no stray strands of cable sticking out of the connector that could contact one of the other pins.
5. Test each wire is securely fastened by gently tugging on it. Do not perform this step whilst the connector is plugged into the rear panel of the loudspeaker.
6. Plug in the Euroblock connector to its corresponding socket.
7. Ensure the wires aren't too tight nor pulling on the connector, additional support may be required depending on the installation location and type.

Use either single-core or multi-core cables, avoid plating cables with solder as this can lead to unreliable connections. If a plug is to be frequently connected and disconnected a crimped rod/Ferrule terminal with insulation may be preferred.

For 5.08mm Euroblocks we recommend using wire gauges between 18-14 AWG (1.0 - 2.5mm²). These guides prevent potential loose connections and shorts with cables falling out of pins.

SUGGESTED AMPLIFIER

The spec tables in the manual include suggested amplifiers from the HH range to go along with your TNi-WPRO loudspeakers.

SPECIFICATIONS

TNi-W8PRO

Specifications	
Model	TNi-W8PRO
System type	2-Way Full Range Passive Loudspeaker, 8" LF, Bass Reflex
Woofer Size	8" Black 20050-8 HH Designed High Performance Driver, 2.0" Voice Coil
Tweeter Size	1.0" Celestion CDX1-1070
Nominal System Impedance	8 ohm
Power Rating ¹	200W AES, 400W Continuous, 800W Peak
Recommended Amplifier	HH M-Series M-750D or equivalent with 400-800W @ 8 Ohms
Sensitivity 1W/1m ²	93 dB SPL
Maximum SPL (1m) ³	116 dB SPL, 122 dB SPL (Peak)
Frequency response	62 - 20kHz (-10dB)
	72 - 18kHz (-3dB)
Input / Link Connector	Euroblock Connector and M4 Barrier Strip Terminal (7.62mm Pitch)
Horizontal Dispersion Angle	90°
Vertical Dispersion Angle	60°
Crossover Frequency	2.2KHz
Enclosure	
Main Construction Material	Robust all wood construction (15mm plywood)
Finish	Hard wearing spatter finish (White or Black option)
Grille	Powdercoated steel with acoustic foam backing
Mounting Bracket	4x M8 mounting points for optional HH-BRK30
Mounting Suspension Points	7x M10 Penn-Elcom fly points (3 on top face, 2 on side face, 1 on rear, 1 on bottom)
Unit dimensions (HWD)	474 x 270 x 257mm, 18.7" x 10.6" x 10.1"
Unit weight	9.9Kg, 21.8 lbs
Carton dimensions (HWD)	605 x 370 x 365mm, 23.8" x 14.6" x 14.4", 0.082 M3
Packed weight	12.2Kg, 26.9 lbs
EAN Code	5060109457728 (Black), 5060109457735 (White)
Optional Accessories	
	TNi-BRK30 High Quality Multi Angle Wall Bracket

TNi-W10PRO

Specifications	
Model	TNi-W10PRO
System type	2-Way Full Range Passive Loudspeaker, 10" LF, Bass Reflex
Woofer Size	10" Black 25050-8 HH Designed High Performance Driver, 2.0" Voice Coil
Tweeter Size	1.4" Celestion CDX1-1445
Nominal System Impedance	8 ohms
Power Rating ¹	250W AES, 500W Continuous, 1000W Peak
Recommended Amplifier	HH M-Series M-750D or M-1500D or equivalent with 500-1000W @ 8 Ohms
Sensitivity 1W/1m ²	95 dB SPL
Maximum SPL (1m) ³	119 dB SPL, 125 dB SPL (Peak)
Frequency response	56 - 20kHz (-10dB)
	66 - 18kHz (-3dB)
Input / Link Connector	Euroblock Connector and M4 Barrier Strip Terminal (7.62mm Pitch)
Horizontal Dispersion Angle	90°
Vertical Dispersion Angle	60°
Crossover Frequency	2.2KHz
Enclosure	
Main Construction Material	Robust all wood construction (15mm plywood)
Finish	Hard wearing spatter finish (White or Black option)
Grille	Powdercoated steel with acoustic foam backing
Mounting Bracket	4x M8 mounting points for optional HH-BRK30
Mounting Suspension Points	7x M10 Penn-Elcom fly points (3 on top face, 2 on side face, 1 on rear, 1 on bottom)
Unit dimensions (HWD)	524 x 308 x 297mm, 20.6" x 12.1" x 11.7"
Unit weight	13.2Kg, 29.1 lbs
Carton dimensions (HWD)	665 x 435 x 425mm, 26.2" x 17.1" x 16.7", 0.123 M3
Packed weight	14.8Kg, 32.6 lbs
EAN Code	5060109458954 (Black), 5060109458947 (White)
Optional Accessories	
	TNi-BRK30 High Quality Multi Angle Wall Bracket

TNi-W12PRO

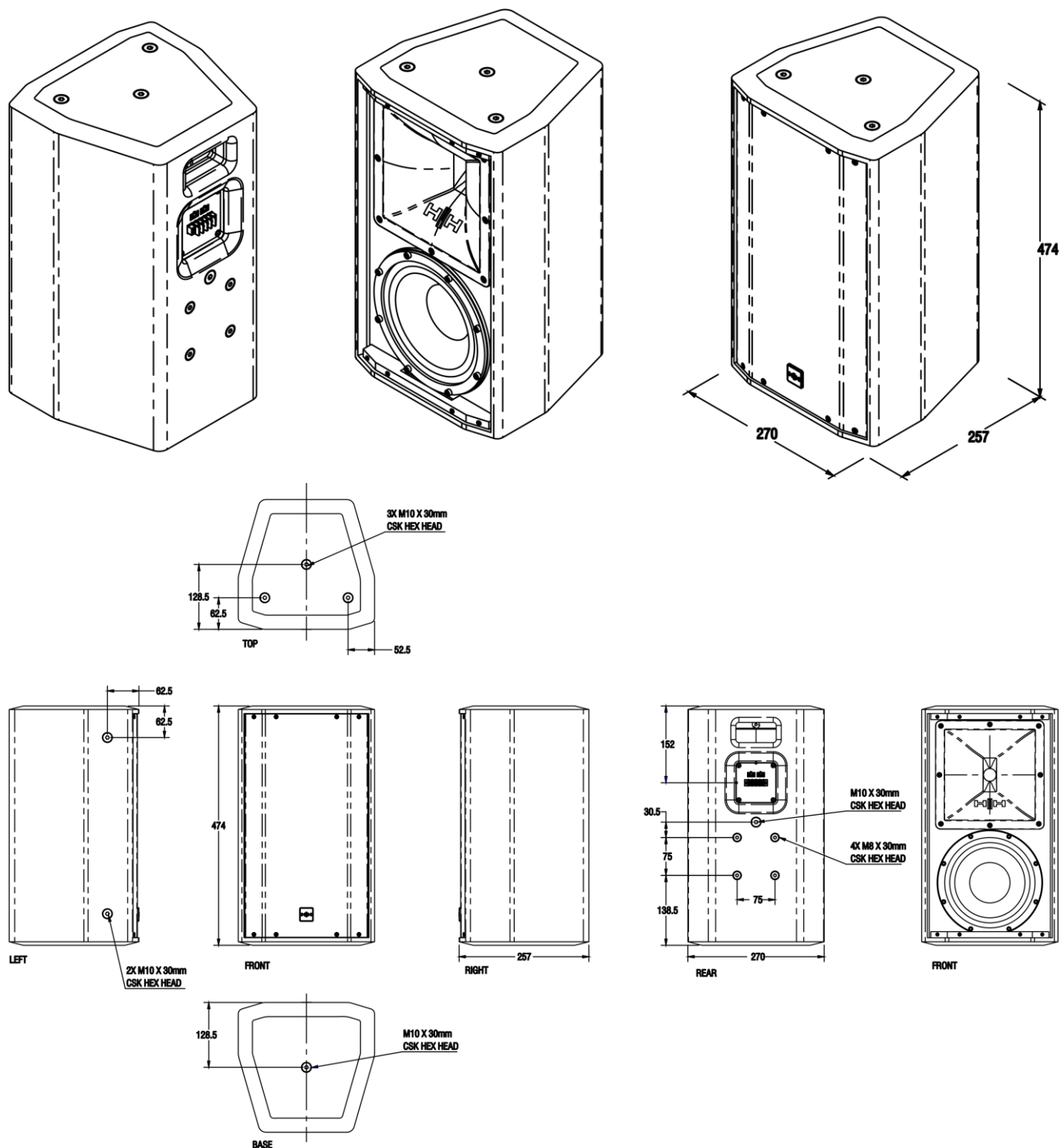
Specifications	
Model	TNi-W12PRO
System type	2-Way Full Range Passive Loudspeaker, 12" LF, Bass Reflex
Woofer Size	12" Black 30065-8 HH Designed High Performance Driver, 2.5" Voice Coil
Tweeter Size	1.4" Celestion CDX1-1445
Nominal System Impedance	8 ohm
Power Rating ¹	300W AES, 600W Continuous, 1200W Peak
Recommended Amplifier	HH M-Series M-750D or M-1500D or equivalent with 600-1200W @ 8 Ohms
Sensitivity 1W/1m ²	97 dB SPL
Maximum SPL (1m) ³	122 dB SPL, 128 dB SPL (Peak)
Frequency response	50 - 20kHz (-10dB) 60 - 18kHz (-3dB)
Input / Link Connector	Euroblock Connector and M4 Barrier Strip Terminal (7.62mm Pitch)
Horizontal Dispersion Angle	90°
Vertical Dispersion Angle	60°
Crossover Frequency	2.2KHz
Enclosure	
Main Construction Material	Robust all wood construction (15mm plywood)
Finish	Hard wearing spatter finish (White or Black option)
Grille	Powdercoated steel with acoustic foam backing
Mounting Bracket	4x M8 mounting points for optional HH-BRK30
Mounting Suspension Points	7x M10 Penn-Elcom fly points (3 on top face, 2 on side face, 1 on rear, 1 on bottom)
Unit dimensions (HWD)	575 x 345 x 337mm, 22.6" x 13.6" x 13.3"
Unit weight	16.2Kg, 35.7 lbs
Carton dimensions (HWD)	700 x 455 x 445mm, 27.6" x 17.9" x 17.5", 0.142 M3
Packed weight	19.6Kg, 43.2 lbs
EAN Code	5060109457742 (Black), 5060109457759 (White)
Optional Accessories	
	TNi-BRK30 High Quality Multi Angle Wall Bracket

TNi-W15PRO

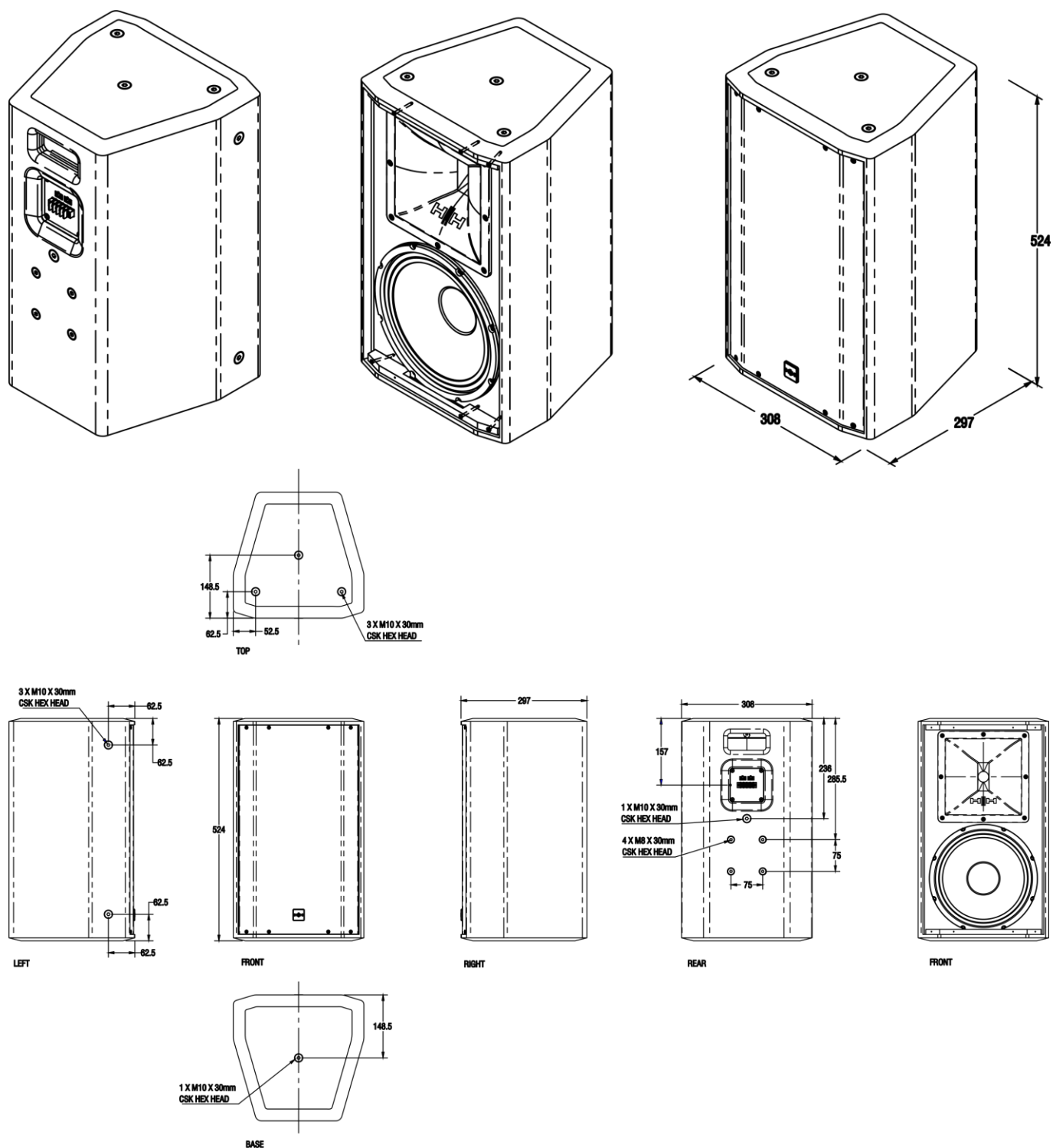
Specifications	
Model	TNi-W15PRO
System type	2-Way Full Range Passive Loudspeaker, 15" LF, Bass Reflex
Woofer Size	15" Black 38080-8 HH Designed High Performance Driver, 3.0" Voice Coil
Tweeter Size	1.75" Celestion CDX1-1742
Nominal System Impedance	8 ohms
Power Rating ¹	450W AES, 900W Continuous, 1800W Peak
Recommended Amplifier	HH M-Series M1500D or equivalent with 600-1200W @ 8 Ohms
Sensitivity 1W/1m ²	98 dB SPL
Maximum SPL (1m) ³	125 dB SPL, 131 dB SPL (Peak)
Frequency response	41 - 20kHz (-10dB)
	51 - 18kHz (-3dB)
Input / Link Connector	Euroblock Connector and M4 Barrier Strip Terminal (7.62mm Pitch)
Horizontal Dispersion Angle	90°
Vertical Dispersion Angle	60°
Crossover Frequency	2.0KHz
Enclosure	
Main Construction Material	Robust all wood construction (15mm plywood)
Finish	Hard wearing spatter finish (White or Black option)
Grille	Powdercoated steel with acoustic foam backing
Mounting Bracket	4x M8 mounting points for optional HH-BRK30
Mounting Suspension Points	7x M10 Penn-Elcom fly points (3 on top face, 2 on side face, 1 on rear, 1 on bottom)
Unit dimensions (HWD)	665 x 430 x 400mm, 26.2" x 16.9" x 15.7"
Unit weight	22.4Kg, 49.4 lbs
Carton dimensions (HWD)	805 x 560 x 530mm, 31.7" x 22" x 20.9", 0.239 M3
Packed weight	26.5Kg, 58.4 lbs
EAN Code	5060109458978 (Black), 5060109458961 (White)
Optional Accessories	
	TNi-BRK30 High Quality Multi Angle Wall Bracket

DIMENSIONS

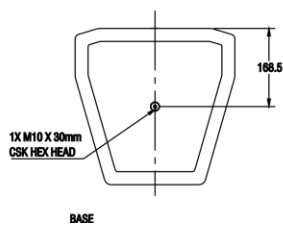
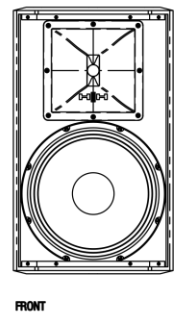
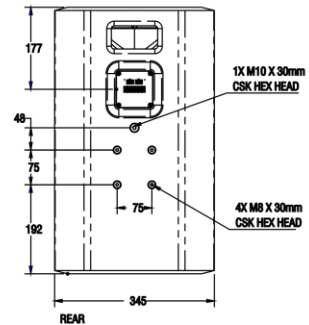
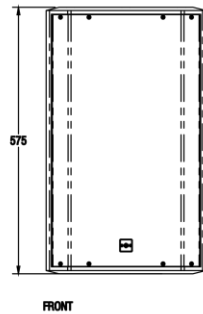
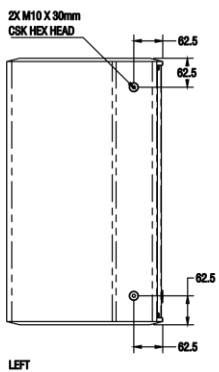
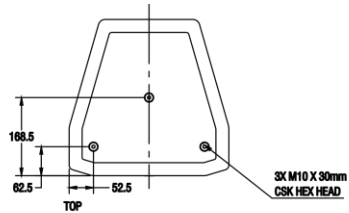
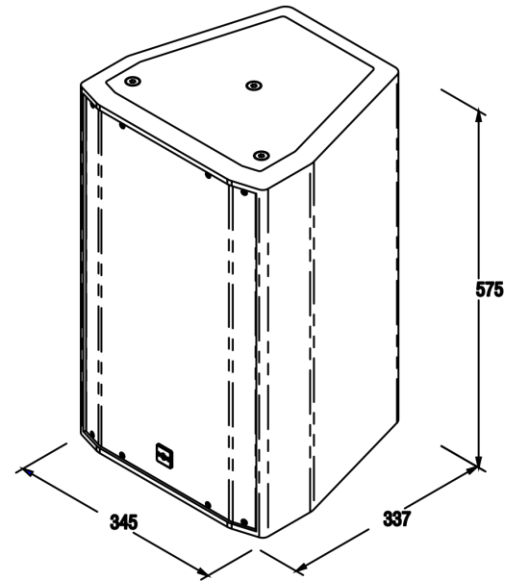
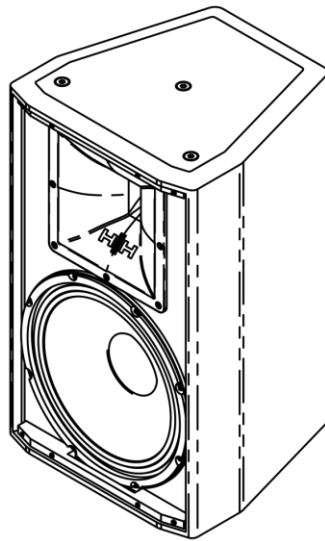
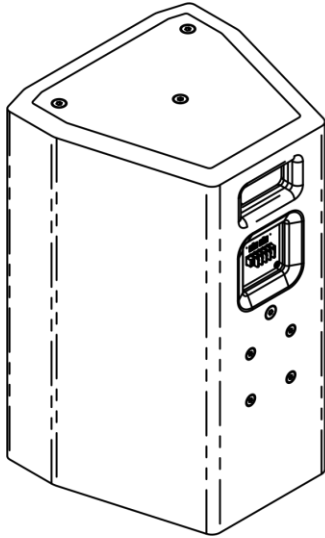
TNi-W8PRO



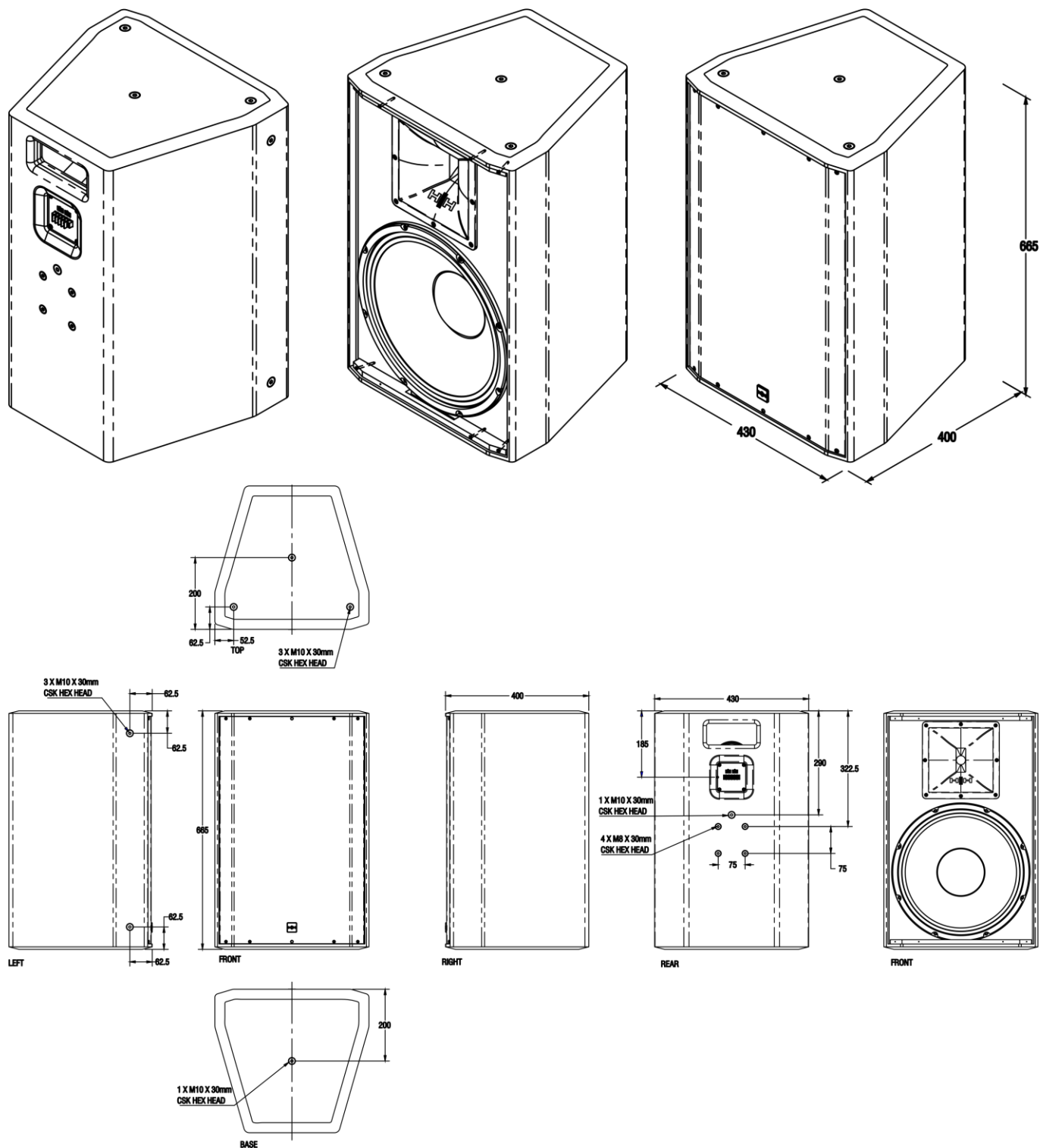
TNi-W10PRO



TNi-W12PRO



TNi-W15PRO








SAFETY AND WARNINGS

To take full advantage of your new product and enjoy long and trouble-free performance, please read this owner's manual carefully, and keep it in a safe place for future reference.

- 1) Unpacking: On unpacking your product, please check carefully for any signs of damage that may have occurred whilst in transit from the HH factory to your dealer. In the unlikely event that there has been damage, please re-pack your unit in its original carton and consult your dealer. We strongly advise you to keep your original transit carton, since in the unlikely event that your unit should develop a fault, you will be able to return it to you dealer for rectification securely packed.
- 2) Amplifier Connection: To avoid damage, generally it is advisable to establish and follow a pattern for turning on and off your system. With all system parts connected, turn on source equipment, mixers, effects processors etc, BEFORE turning on your amplifier. Many products have large transient surges at turn on and off which can cause damage to your speakers. By turning on your amplifier LAST and making sure its level control is set to a minimum, any transients from other equipment should not reach your loudspeakers. Wait till all system parts have stabilised, usually a couple of seconds. Similarly, when turning off your system always turn down the level controls on your amplifier and then turn off its power before turning off other equipment.
- 3) Cables: Never use shielded or microphone cable for any speaker connections as this will not be substantial enough to handle the amplifier load and could cause damage to your complete system. Use good quality shielded cables everywhere else.
- 4) Servicing: The user should not attempt to service these products. Refer all servicing to qualified service personnel.
- 5) Heed all warnings.
- 6) Follow all instructions.
- 7) Do not use this apparatus near water.
- 8) Clean only with a dry cloth.
- 9) Do not block any of the ventilation openings. Install in accordance with manufacturer's instructions.
- 10) Do not install near any heat sources such as radiators, heat registers, stoves or other apparatus (including amplifiers) that produce heat.
- 11) An apparatus with Class I construction shall be connected to a mains socket outlet with a protective connection. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 12) Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point they exit from the apparatus.
- 13) Only use attachments/accessories provided by the manufacturer.
- 14) Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- 15) The mains plug or appliance coupler is used as the disconnect device and shall remain readily operable. The user should allow easy access to any mains plug, mains coupler and mains switch used in conjunction with this unit thus making it readily operable. Unplug this apparatus during lightning storms or when unused for long periods of time.
- 16) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as when power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- 17) Never break off the ground pin. Connect only to a power supply of the type marked on the unit adjacent to the power supply cord.
- 18) If this product is to be mounted in an equipment rack, rear support should be provided.
- 19) Note for UK only: If the colours of the wires in the mains lead of this unit do not correspond with the terminals in your plug, proceed as follows:
 - o The wire that is coloured green and yellow must be connected to the terminal that is marked by the letter E, the earth symbol, coloured green or coloured green and yellow.
 - o The wire that is coloured blue must be connected to the terminal that is marked with the letter N or the colour black.
 - o The wire that is coloured brown must be connected to the terminal that is marked with the letter L or the colour red.
- 20) This electrical apparatus should not be exposed to dripping or splashing and care should be taken not to place objects containing liquids, such as vases, upon the apparatus.
- 21) Exposure to extremely high noise levels may cause a permanent hearing loss. Individuals vary considerably in susceptibility to noise-induced hearing loss, but nearly everyone will lose some hearing if exposed to sufficiently intense noise for a sufficient time. The U.S. Government's Occupational Safety and Health Administration (OSHA) has specified the following permissible noise level exposures: According to OSHA, any exposure more than the above permissible limits could result in some hearing loss. Earplugs or protectors to the ear canals or over the ears must be worn when operating this amplification system to prevent a permanent hearing loss, if exposure is more than the limits as set forth above. To ensure against potentially dangerous exposure to high sound pressure levels, it is recommended that all persons exposed to equipment capable of producing high sound pressure levels such as this amplification system be protected by hearing protectors while this unit is in operation.
- 22) If your appliance features a tilting mechanism or a kickback style cabinet, please use this design feature with caution. Due to the ease with which the amplifier can be moved between straight and tilted back positions, only use the amplifier on a level, stable surface. DO NOT operate the amplifier on a desk, table, shelf, or otherwise unsuitable non-stable platform.
- 23) Symbols & nomenclature used on the product and in the product manuals, intended to alert the operator to areas where extra caution may be necessary, are as follows:

Duration Per Day in Hours	Sound Level dBA, slow response
8	90
6	92
4	95
3	97
2	100
1 1/2	102
1	105
1/2	110
1/4 ou inférieur	115

 CAUTION:	<p>Intended to alert the user to the presence of uninsulated 'Dangerous Voltage' within the products enclosure that may be sufficient to constitute a risk of electrical shock to persons.</p> <p>Ce symbole est utilisé pur indiquer à l'utilisateur de ce produit de tension non-isolée dangereuse pouvant être d'intensité suffisante pour constituer un risque de choc électrique.</p> <p>Este simbolo tiene el proposito de alertar al usuario de la presencia de '(voltaje) peligroso' que no tiene aislamiento dentro de la caja del producto que puede tener una magnitud suficiente como para constituir riesgo de corrientazo.</p> <p>Dieses Symbol soll den Anwender vor unsolierten gefährlichen Spannungen innerhalb des Gehäuses warnen, die von Ausreichender Starke sind, um einen elektrischen Schlag verursachen zu können.</p>
 WARNING:	<p>Intended to alert the user of the presence of important operating and maintenance (Servicing) instructions in the literature accompanying the product.</p> <p>Dieses Symbol soll den Anwender vor unsolierten gefährlichen Spannungen innerhalb des Gehäuses warnen, die von Ausreichender Starke sind, um einen elektrischen Schlag verursachen zu können.</p> <p>Este simbolo tiene el proposito de la alertar al usuario de la presencis de instrucccones importantes sobre la operacion y mantenimiento en la literatura que viene conel producto.</p> <p>Dieses Symbol soll den Benutzer auf wichtige Instruktionen in der Bedienungsanleitung aufmerksam machen, die Handhabung und Wartung des Produkts betreffen.</p>
<p>CAUTION:</p> <p>ATTENTION :</p> <p>PRECAUCION:</p> <p>VORSICHT:</p>	<p>Risk of electrical shock - DO NOT OPEN. To reduce the risk of electrical shock, do not remove the cover. No user serviceable parts inside. Refer servicing to qualified personnel.</p> <p>Risques de choc électrique - NE PAS OUVIRIR. Afin de réduire le risque de choc électrique, ne pas enlever le couvercle. Il ne se trouve a l'intérieur aucune pièce pouvant être réparée par l'utilisateur. Confier l'entretien a un personnel qualifié.</p> <p>Riesgo de descarga eléctrica - NO ABRIR. Para reducir el riesgo de descarga eléctrica, no quite la cubierta. No hay piezas reparables por el usuario en el interior. Remita el servicio a personal calificado.</p> <p>Risiko - Elektrischer Schlag! Nicht offen! Um das Risiko eines elektrischen Schlages zu vermeiden, nicht die Abdeckung entfernen. Es befinden sich keine Teile darin, die vor Anwender repariert werden konnten. Reparaturen nur von qualifiziertem Fachpersonal durchführen lassen.</p>
<p>WARNING:</p> <p>ADVERTISSEMENT :</p> <p>ADVERTENCIA:</p> <p>ACHTUNG:</p>	<p>To prevent electrical shock or fire hazard, do not expose this appliance to rain or moisture. Before using this appliance, please read the operating instructions for further warnings.</p> <p>Afin de prévenir les risques de décharge électrique ou de feu, n'exposez pas cet appareil a la pluie ou a l'humidité. Avant d'utiliser cet appareil, lisez les avertissements supplantais situes dans le guide.</p> <p>Para evitar descargas eléctricas o peligro de incendio, no exponga este aparato a la lluvia ni a la humedad. Antes de usar este aparato, lea las instrucciones de funcionamiento para conocer más advertencias.</p> <p>Um einen elektrischen Schlag oder Feuergefahr zu vermeiden, sollte dieses Gerät nicht dem Regen oder Feuchtigkeit ausgesetzt werden. Vor Inbetriebnahme unbedingt die Bedienungsanleitung lesen.</p>
	<p>This device complies with Part 15 of the FCC rules Operation is subject to the following two conditions:</p> <ol style="list-style-type: none"> 1) This device may not cause harmful interference. 2) This device must accept any interference received, that may cause undesired operation. <p>Warning: Changes or modification to the equipment not approved by HH can void the user's authority to use the equipment.</p> <p>Note: This equipment has been tested and found to comply with the limits for Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try and correct the interference by one or more of the following measures. Reorient or relocate the receiving antenna. Increase the separation between the equipment and receiver. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. Consult the dealer or an experienced radio/TV technician for help.</p>
	<p>This product conforms to the requirements of the following European Regulations, Directives & Rules:</p> <p>CE Mark (93/68/EEC), Low Voltage (2014/35/EU), EMC (2014/30/EU),</p> <p>RoHS (2011/65/EU), ErP (2009/125/EU).</p> <p>https://support.hhelectronics.com/approvals</p>
	<p>The object of the declaration described above is in conformity with the relevant statutory requirement Electrical Equipment (Safety) Regulations 2016, Electromagnetic Compatibility Regulations 2016, The Restriction of the use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012, The Ecodesign for Energy-Related Products and Energy Information, (Amendment) (EU Exit) Regulations 2012</p>
	<p>In order to reduce environmental damage, at the end of its useful life, this product must not be disposed of along with normal household waste to landfill sites. It must be taken to an approved recycling centre according to the recommendations of the WEEE (Waste Electrical and Electronic Equipment) directive applicable in your country.</p>

HH AUDIO
STEELPARK ROAD, COOMBSWOOD BUSINESS PARK WEST, HALESOWEN, B62 8HD
HH AUDIO PART OF HEADSTOCK GROUP
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**IN THE INTEREST OF CONTINUED DEVELOPMENT, HH RESERVES THE RIGHT TO AMEND PRODUCT SPECIFICATION
WITHOUT PRIOR NOTIFICATION.**

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