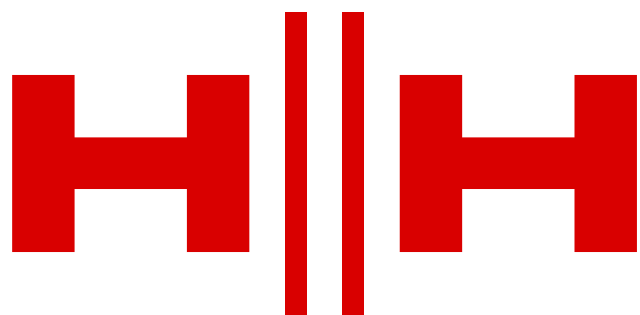




HPT-112

HPT-115

ACTIVE LOUDSPEAKERS



USER MANUAL



Designed and Engineered in the UK by HH Electronics LTD.



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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.

Ce symbole est utilise pur indiquer a l'utilisateur de ce produit de tension non-isolee dangereuse pouvant etre d'intensite suffisante pour constituer un risque de choc electrique.

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.

Dieses Symbol soll den Anwender vor unsolierten gefahrlichen Spannungen innerhalb des Gehauses warnen, die von Ausreichender Starke sind, um einen elektrischen Schlag verursachen zu konnen.



Intended to alert the user of the presence of important operating and maintenance (Servicing) instructions in the literature accompanying the product.

Dieses Symbol soll den Anwender vor unsolierten gefahrlichen Spannungen innerhalb des Gehauses warnen, die von Ausreichender Starke sind, um einen elektrischen Schlag verursachen zu konnen.

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.

Dieses Symbol soll den Benutzer auf wichtige Instruktionen in der Bedienungsanleitung aufmerksam machen, die Handhabung und Wartung des Produkts betreffen.

CAUTION:

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.

ATTENTION:

Risques de choc electrique - NE PAS OUVIRIR

Afin de reduire le risque de choc electrique, ne pas enlever le couvercle. Il ne se trouve a l'interieur aucune piece pouvant etre reparee par l'utilisateur. Confier l'entretien a un personnel qualifie.

PRECAUCION:

Riesgo de corrientazo - no abra

Para disminuir el risego de carrientazo, no abra la cubierta. No hay piezas adentro que el pueda reparar. Deje todo mantenimiento a los tecnicos calificado.

VORSICHT:

Risiko - Elektrischer Schlag! Nicht offen!

Um das Risiko eines elektrischen Schlages zu vermeiden, nicht die Abdeckung entfernen. Es befinden sich keine Teile darin, die vom Anwender repariert werden Konnten. Reparaturen nur von qualifiziertem Fachpersonal durchfuhren lassen.

WARNING:

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.

ADVERTISSEMENT:

Afin de prevenir les risques de decharge electrique ou de feu, n'exposez pas cet appareil a la pluie ou a l'humidite. Avant d'utiliser cet appareil, lisez les advertissements supplentaires situes dans le guide.

ADVERTENCIA:

Para evitar corrientazos o peligro de incendio, no deja expuesto a la lluvia o humedad este aparato Antes de usar este aparato, lea mas advertcias en la guia de operacion.

ACHTUNG:

Um einen elektrischen Schalg oder Feuergefahr zu vermeiden, sollte dieses Gerat nicht dem Regen oder Feuchtigkeit ausgesetzt werden. Vor Inbetriebnahme unbedingt die Bedienungsanleitung lesen.

**EARTH or
GREEN/YELLOW**
NEUTRAL - BLUE
LIVE - BROWN



After unpacking your amplifier check that it is factory fitted with a three pin 'grounded' (or earthed) plug. Before plugging into the power supply ensure you are connecting to a grounded earth outlet.

If you should wish to change the factory fitted plug yourself, ensure that the wiring convention applicable to the country where the amplifier is to be used is strictly conformed to. As an example in the United Kingdom the cable colour code for connections are shown opposite.





ACTIVE LOUDSPEAKER

HPT
PORTABLE SOUND

GENERAL INSTRUCTIONS

In order 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 your dealer for rectification securely packed.

2) Amplifier Connection: In order to avoid damage, 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, tape decks, cd players, 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 bass amplifier LAST and making sure its level control is set to a minimum, any transients from other equipment should not reach your loud speakers. 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 bass 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.

4) Servicing: The user should not attempt to service these products. Refer all servicing to qualified service personnel.

FCC COMPLIANCY STATEMENT



This device complies with Part 15 of the FCC rules Operation is subject to the following two conditions:

- 1) This device may not cause harmful interference
- 2) This device must accept any interference received, that may cause undesired operation.

Warning: Changes or modification to the equipment not approved by HH Electronics Ltd. can void the user's authority to use the equipment.

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.



This product conforms to the requirements of the following European Regulations, Directives & Rules:

CE Mark (93/68/EEC), Low Voltage (2014/35/EU), EMC (2014/30/EU),

RoHS (2011/65/EU), ErP (2009/125/EU).



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.

<http://support.hhelectronics.com/approvals>

1. Read these instructions.
2. Keep these instructions safe.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with a dry cloth.
7. Do not block any of the ventilation openings. Install in accordance with manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves or other apparatus (including amplifiers) that produce heat.
9. 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.
10. Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point they exit from the apparatus.
11. Only use attachments/accessories provided by the manufacturer.
12. 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.
13. 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.
14. 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.
15. 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.
16. If this product is to be mounted in an equipment rack, rear support should be provided.
17. 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:
 - a) The wire that is coloured green and yellow must be connected to the terminal that is marked with the letter E, the earth symbol, coloured green or coloured green and yellow.
 - b) The wire that is coloured blue must be connected to the terminal that is marked with the letter N or the colour black.
 - c) The wire that is coloured brown must be connected to the terminal that is marked with the letter L or the colour red.
18. 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.
19. 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 in excess of 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 in order to prevent a permanent hearing loss, if exposure is in excess of 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.
20. 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:
Intended to alert the user to the presence of high 'Dangerous Voltage' within the products enclosure that may be sufficient to constitute a risk of electrical shock to persons.
Intended to alert the user of the presence of important operating and maintenance (Servicing) instructions in the literature accompanying the product.

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

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.

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.



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.



CONSIGNES DE SÉCURITÉ IMPORTANTES

ATTENTION: L'utilisation de tout appareil électrique doit être soumise aux précautions d'usage incluant:

1. Lisez ces instructions
2. Gardez ce manuel pour de futures références.
3. Prêtez attention aux messages de précautions de ce manuel.
4. Suivez ces instructions.
5. N'utilisez pas cet appareil à proximité de plans d'eau.
6. N'utilisez qu'un tissu sec pour le nettoyage de votre appareil.
7. N'obstruez pas les systèmes de refroidissement de votre appareil et installez votre appareil en fonction des instructions de ce manuel.
8. Ne positionnez pas votre appareil à proximité de toute source de chaleur.
9. Un appareil avec la construction de la classe I sera relié à une prise munie d'une liaison à la terre. Branchez toujours votre appareil sur une alimentation munie de prise de terre utilisant le cordon d'alimentation fourni.
10. Protégez les connecteurs de votre appareil et positionnez les câblages pour éviter toutes déconnexions accidentelles.
11. N'utilisez que des fixations approuvées par le fabricant.
12. Lors de l'utilisation sur pied ou perche de support, assurez dans le cas de déplacement de l'ensemble enceinte/support de prévenir tout basculement intempestif de celui-ci.
13. La fiche secteur est utilisée pour couper l'alimentation de l'appareil et doit rester facilement accessible. Débranchez cet appareil pendant les orages ou s'il est inutilisé pendant de longues périodes.
14. Seul un technicien agréé par le fabricant est à même de réparer/contrôler votre appareil. Celui-ci doit être contrôlé s'il a subi des dommages de manipulation, d'utilisation ou de stockage (humidité, ...).
15. Ne déconnectez jamais la prise de terre de votre appareil.
16. Si votre appareil est destiné à être monté en rack, des supports arrière doivent être utilisés.
17. Note pour le Royaume-Uni : Si les couleurs des fils du câble d'alimentation ne correspondent pas aux fiches de la prise secteur, procédez comme suit:
 - a) Le fil vert et jaune doit être branché sur la borne repérée par la lettre E, ou le symbole de terre, ou par les couleurs vert ou verte et jaune.
 - b) Le fil bleu doit être branché sur la borne repérée par la lettre N, ou par la couleur noire.
 - c) Le fil marron doit être branché sur la borne repérée par la lettre L, ou par la couleur rouge.
18. Cet équipement électrique ne doit en aucun cas être en contact avec un quelconque liquide et aucun objet contenant un liquide, tels qu'un vase ou autre récipient.
19. Une exposition à de hauts niveaux sonores peut entraîner des dommages irréversibles de l'audition. La sensibilité au bruit varie considérablement d'un individu à l'autre, mais la majorité de la population ressentira une perte d'audition après une exposition à une forte puissance sonore pendant une durée prolongée. L'organisme de la santé américaine (OSHA) a produit le guide ci-dessous en rapport à l'exposition autorisée aux niveaux de bruit : D'après les études menées par l'OSHA, toute exposition au delà des limites décrites ci-dessous entraînera des pertes de audition chez la plupart des sujets. Le port de système de protection (casque, oreillette de filtrage, etc...) doit être observé lors de l'utilisation de cet appareil sans quoi des dommages irréversibles peuvent être occasionnés. Le port de ces systèmes doit être observé par toutes personnes susceptibles d'être exposées à des conditions au delà des limites décrites ci-dessous.
20. Symboles utilisés sur les produits et dans les manuels des produits, destinés à alerter l'opérateur des zones ou des précautions supplémentaires pouvant être nécessaires :



Ce symbole est utilisé pour prévenir l'utilisateur de la présence d'une tension non isolée dangereuse à l'intérieur du boîtier de l'appareil, et pouvant être suffisante pour constituer un risque de choc électrique.

Ce symbole est utilisé pour prévenir l'utilisateur de la présence d'instructions d'utilisation et de maintenance dans le mode d'emploi accompagnant l'appareil.

Risque de choc électrique – NE PAS OUVRIR Afin de réduire le risque de choc électrique, ne pas ouvrir le capot. Il n'y a aucune pièce à l'intérieur pouvant être réparée par l'utilisateur. Veuillez confier la maintenance à un personnel qualifié.

Afin de prévenir tout risque de choc électrique et d'incendie, n'exposez pas cet appareil à la pluie ou à l'humidité. Avant d'utiliser cet appareil, lisez attentivement les instructions d'utilisation de ce mode d'emploi.

Si votre appareil est équipé d'un mécanisme de basculement ou si son boîtier est conçu comme retour, veuillez utiliser cette caractéristique avec prudence. En raison de la facilité avec laquelle l'amplificateur peut être basculé entre les positions droite et inclinée, utilisez uniquement l'amplificateur sur une surface plane et stable. NE PAS faire fonctionner l'amplificateur sur un bureau, une table, une étagère ou autre plate-forme inappropriée.

Durée par Jour (heures)	Niveau sonore moyen (dBA)
8	90
6	92
4	95
3	97
2	100
1 1/2	102
1	105
1/2	110
1/4 ou inférieur	115

WICHTIGE SICHERHEITSHINWEISE

ACHTUNG: Beim Einsatz von Elektrogeräten müssen u.a. grundlegende Vorsichtsmaßnahmen befolgt werden:

1. Lesen Sie sich diese Anweisungen durch.
2. Bewahren Sie diese Anweisungen auf.
3. Beachten Sie alle Warnungen.
4. Befolgen Sie alle Anweisungen.
5. Setzen Sie dieses Gerät nicht in der Nähe von Wasser ein.
6. Reinigen Sie es nur mit einem trockenen Tuch.
7. Blockieren Sie keine der Lüftungsöffnungen. Führen Sie die Installation gemäß den Anweisungen des Herstellers durch.
8. Betreiben Sie das Gerät nicht neben Wärmequellen wie Heizungen, Heizgeräten, Öfen oder anderen Geräten (auch Verstärkern), die Wärme erzeugen.
9. Verwenden Sie nur Kaltgeräte-Netzkabel aus dem Fachhandel.
10. Schützen Sie das Netzkabel, sodass niemand darauf tritt oder es geknickt wird, insbesondere an Steckern oder Buchsen am Gerät.
11. Verwenden Sie nur die vom Hersteller erhältlichen Zubehörgeräte oder Zubehöerteile.
12. Verwenden Sie nur einen Wagen, Stativ, Dreifuß, Träger oder Tisch, der den Angaben des Herstellers entspricht oder zusammen mit dem Gerät verkauft wurde. Wird ein Wagen verwendet, bewegen Sie den Wagen mit dem darauf befindlichen Gerät besonders vorsichtig, damit es nicht umkippt und möglicherweise jemand verletzt wird.
13. Der Netzstecker bzw. Gerätestecker wird zum Trennen vom Stromnetz verwendet und muß immer leicht zugänglich sein. Der Benutzer sollte auf einfachen Zugang zu allen Netzsteckern, Gerätesteckern und Netz-Schaltern achten. Ziehen Sie den Netzstecker bei Gewitter heraus oder wenn das Gerät längere Zeit nicht benutzt wird.
14. Lassen Sie sämtliche Wartungsarbeiten von qualifizierten Kundendiensttechnikern durchführen. Eine Wartung ist erforderlich, wenn das Gerät in irgendeiner Art beschädigt wurde, etwa wenn das Netzkabel oder der Netzstecker beschädigt wurden, Flüssigkeit oder Gegenstände in das Gerät gelangt sind, das Gerät Regen oder Feuchtigkeit ausgesetzt wurde, nicht normal arbeitet oder heruntergefallen ist.
15. Schließen Sie das Gerät nur an eine Stromquelle an, die am Gerät neben dem Netzkabel angegeben ist.
16. Wenn dieses Produkt in ein Geräte-Rack eingebaut werden soll, muss eine Versorgung über die Rückseite eingerichtet werden.
18. Dieses Gerät darf nicht ungeschützt Wassertropfen und Wasserspritzern ausgesetzt werden und es muss darauf geachtet werden, dass keine mit Flüssigkeiten gefüllte Gegenstände, wie z. B. Blumenvasen, auf dem Gerät abgestellt werden.
19. Belastung durch extrem hohe Lärmpegel kann zu dauerhaftem Hörverlust führen. Die Anfälligkeit für durch Lärm bedingten Hörverlust ist von Mensch zu Mensch verschieden, das Gehör wird jedoch bei jedem in gewissem Maße geschädigt, der über einen bestimmten Zeitraum ausreichend starkem Lärm ausgesetzt ist. Die US-Arbeitschutzbehörde (Occupational and Health Administration, OSHA) hat die folgenden zulässigen Pegel für Lärmbelastung festgelegt: Laut OSHA kann jede Belastung über den obenstehenden zulässigen Grenzwerten zu einem gewissen Hörverlust führen. Sollte die Belastung die obenstehenden Grenzwerte übersteigen, müssen beim Betrieb dieses Verstärkungssystems Ohrstöpsel oder Schutzhörgeräte im Gehörgang oder über den Ohren getragen werden, um einen dauerhaften Hörverlust zu verhindern. Um sich vor einer möglicherweise gefährlichen Belastung durch hohe Schalldruckpegel zu schützen, wird allen Personen empfohlen, die mit Geräten arbeiten, die wie dieses Verstärkungssystem hohe Schalldruckpegel erzeugen können, beim Betrieb dieses Geräts einen Gehörschutz zu tragen.

20. Symbole und Nomenklatur, die auf dem Produkt und in den Handbüchern stehen, sollen den Bediener auf die Bereiche, in denen besondere Vorsicht notwendig sein kann, alarmieren und sind wie folgt:

Sollen den Benutzer auf das Vorhandensein von "gefährlicher Hoch- Spannung" im Gerätegehäuse hinweisen, um die Gefahr eines elektrischen Schlages für Personen zu vermeiden..



Sollen den Benutzer auf das Vorhandensein wichtiger Betriebs- und Wartungsanweisungen in der beigelegten Dokumentation aufmerksam machen. Gefahr eines elektrischen Schlags - NICHT ÖFFNEN. Um die Gefahr eines elektrischen Schlags zu reduzieren, darf die Abdeckung entfernen. Keine zu wartenden Teile im Inneren. Überlassen Sie die Wartung qualifiziertem Fachpersonal.

Gefahr eines elektrischen Schlags - NICHT ÖFFNEN. Um die Gefahr eines elektrischen Schlags zu vermeiden, darf die Abdeckung nicht geöffnet werden.. Überlassen Sie die Wartung qualifiziertem Fachpersonal.

Wenn Ihr Gerät über einen Kippmechanismus oder eine "Tilt-back"- Funktion verfügt, benutzen Sie diese Funktion mit Vorsicht. Aufgrund der Leichtigkeit, mit der der Verstärker zwischen geraden und schrägen Rücken Positionen bewegt werden kann, verwenden Sie nur den Verstärker auf einer ebenen, stabilen Oberfläche. NICHT den Verstärker auf einem Schreibtisch, Tisch, Regal oder sonst eine ungeeignete nicht stabile Plattform stellen.

Dauer pro Tag in Stunden	Geräuschpegel dBA A langsame Reaktion
8	90
6	92
4	95
3	97
2	100
1 1/2	102
1	105
1/2	110
1/4 oder weniger	115





ACTIVE LOUDSPEAKER

HPT
PORTABLE SOUND

INSTRUCCIONES IMPORTANTES DE SEGURIDAD

CUIDADO: Cuando use productos electrónicos, debe tomar precauciones básicas, incluyendo las siguientes:

1. Lea estas instrucciones.
2. Guarde estas instrucciones.
3. Haga caso de todos los consejos.
4. Siga todas las instrucciones.
5. No usar este aparato cerca del agua.
6. Limpiar solamente con un trapo seco.
7. No bloquear ninguna de las salidas de ventilación. Instalar de acuerdo a las instrucciones del fabricante.
8. No instalar cerca de ninguna fuente de calor como radiadores, estufas, hornos u otros aparatos (incluyendo amplificadores) que produzcan calor.
9. Un aparato con la construcción de clase I deberá conectarse a una toma de corriente que disponga una conexión con protección. No retire la patilla protectora del enchufe polarizado o con conexión a tierra. Un enchufe polarizado tiene dos clavijas, una más ancha que la otra. Un enchufe con toma de tierra tiene dos clavijas y un tercer diente de tierra. La clavija ancha (la tercera) se proporciona para su seguridad. Si el enchufe proporcionado no encaja en su toma de red, consulte a un electricista para que se reemplace por la obsoleta.
10. Proteja el cable de alimentación para que no sea pisado o pinchado, particularmente en los enchufes, hábitáculos y el punto de salida del aparato.
11. Usar solamente componentes y accesorios proporcionados por el fabricante.
12. Usar solamente un carro, pie, tripode, o soporte especificado por el fabricante, o vendido junto al aparato. Cuando se use un carro, tenga cuidado al mover el conjunto carro/aparato para evitar que se dañe en un vuelco.
13. El cable de alimentación o conector del aparato se usa como dispositivo de desconexión y debe permanecer accesible. El usuario debe permitir un acceso fácil a cualquier entrada principal, interruptor haciéndolo así más operativo. Desenchufe este aparato durante tormentas eléctricas o cuando no se use en largos periodos de tiempo.
14. Para cualquier reparación, acuda a personal de servicio cualificado. Se requieren reparaciones cuando el aparato ha sido dañado de alguna manera, como cuando el cable de alimentación o el enchufe se han dañado, algún líquido ha sido derramado o algún objeto ha caído dentro del aparato, el aparato ha sido expuesto a la lluvia o la humedad, no funciona de manera normal, o ha sufrido una caída.
15. Nunca retire la patilla de Tierra. Conecte el aparato sólo a una fuente de alimentación del tipo marcado al lado del cable de alimentación.
16. Si este producto va a ser instalado en una unidad de rack, use algún tipo de apoyo trasero.
17. Nota para el Reino Unido solamente: Si los colores de los cables en el enchufe principal de esta unidad no corresponden con los terminales en su enchufe, proceda de la siguiente manera:
 - a) El cable de color verde y azul debe ser conectado al terminal que está marcado con la letra E, el símbolo de Tierra (earth), coloreado en verde o en verde y amarillo.
 - b) El cable coloreado en azul debe ser conectado al terminal que está marcado con la letra N o el color negro.
 - c) El cable coloreado en marrón debe ser conectado al terminal que está marcado con la letra L o el color rojo.
18. Este aparato eléctrico no debe ser sometido a ningún tipo de goteo o salpicadura y se debe tener cuidado para no poner objetos que contengan líquidos, como vasos, sobre el aparato.
19. La exposición a altos niveles de ruido puede causar una pérdida permanente en la audición. La susceptibilidad a la pérdida de audición provocada por el ruido varía según la persona, pero casi todo el mundo perderá algo de audición si se expone a un nivel de ruido suficientemente intenso durante un tiempo determinado. El Departamento para la Salud y para la Seguridad del Gobierno de los Estados Unidos (OSHA) ha especificado las siguientes exposiciones al ruido permisibles:
De acuerdo al OSHA, cualquier exposición que exceda los límites arriba indicados puede producir algún tipo de pérdida en la audición. Protectores para los canales auditivos o tapones para los oídos deben ser usados cuando se opere con este sistema de sonido para prevenir una pérdida permanente en la audición, si la exposición excede los límites indicados más arriba. Para protegerse de una exposición a altos niveles de sonido potencialmente peligrosa, se recomienda que todas las personas expuestas a equipamiento capaz de producir altos niveles de presión sonora, tales como este sistema de amplificación, se encuentren protegidas por protectores auditivos mientras esta unidad esté operando.
20. Símbolos y nomenclatura utilizada en el producto y en los manuales de producto, destinado a alertar al usuario de las áreas donde la precaución adicional pueden ser necesarias, son las siguientes:

La intención de alertar al usuario de la presencia de "tensión peligrosa" alto dentro del recinto los productos puede ser suficiente para constituir un riesgo de descarga eléctrica para las personas.

La intención de alertar al usuario de la presencia de importantes de operación y mantenimiento (servicio) en la literatura que acompaña al producto.

Riesgo de choque eléctrico - NO ABRIR. Para reducir el riesgo de descarga eléctrica, no retire la cubierta. No hay piezas que el usuario pueda reparar.

Solicite la revisión al personal cualificado.

Para evitar descargas eléctricas o incendios, no exponga este aparato a la lluvia ni a la humedad. Antes de usar este aparato, por favor lea las instrucciones de funcionamiento.

Duración por Día en Horas	Nivel de Sonido dBA, Respuesta Lenta
8	90
6	92
4	95
3	97
2	100
1 1/2	102
1 1/2	105



Si el aparato cuenta con un mecanismo de inclinación o un gabinete estilo de contragolpe, por favor use esta característica con precaución. Debido a la facilidad con que puede ser que el amplificador se mueva entre las posiciones recta e inclinada, utilice sólo el amplificador sobre una superficie nivelada y estable. NO haga funcionar el amplificador en un escritorio, mesa, estantería o plataforma no estable o no apta.

INSTRUÇÕES DE SEGURANÇA

AVISO: Ao usar produtos elétricos, adverte básica devem ser sempre seguidas, incluindo as seguintes:

1. Leia estas instruções.
2. Guarde estas instruções de segurança.
3. Preste atenção a todos os avisos.
4. Siga todas as instruções.
5. Não use este aparelho perto da água.
6. Limpe apenas com um pano seco.
7. Não bloqueie qualquer uma das aberturas de ventilação. Instale de acordo com as instruções do fabricante.
8. Não instale perto de fontes de calor, como radiadores, aquecedores, fogões ou outros aparelhos (incluindo amplificadores) que produzam calor.
9. Um aparelho com a construção de classe I devem ser conectado a uma tomada elétrica com ligação de proteção. Não anule a finalidade de segurança da ficha polarizada ou do tipo terra. Uma ficha polarizada possui duas lâminas, uma mais larga que a outra. Uma ficha do tipo terra tem duas lâminas e um terceiro pino de aterramento. A lâmina larga ou o terceiro pino são fornecidos para sua segurança. Se a ficha fornecida não encaixar na sua tomada, consulte um electricista para a substituição da tomada obsoleta.
10. Proteja o cabo de alimentação de pisadelas ou apertos, especialmente nas fichas, receptáculos de conveniência e no ponto de saída do aparelho.
11. Utilize apenas ligações / acessórios fornecidos pelo fabricante.
12. Use somente com o carrinho, estrutura, tripé, suporte, ou mesa especificados pelo fabricante ou vendidos com o aparelho. Quando utilizar um carrinho, tenha cuidado ao mover o conjunto carrinho / dispositivo para evitar danos provocados pela queda. 13. A ficha da tomada ou aparelho forem utilizados como dispositivo de desconexão e deve estar sempre acessível. O usuário deve permitir o acesso fácil a qualquer ficha, acoplador de alimentação e interruptor de rede usada em conjunto com esta unidade, assim, tornando-o acessível. Desligue o aparelho durante tempestades com raios ou quando não for utilizado por longos períodos de tempo.
14. Solicite a assistência de pessoal qualificado. A manutenção é necessária quando o aparelho tiver sido danificado de qualquer maneira, como quando o cabo de alimentação ou a ficha estiverem danificados, líquido foi derramado ou objetos caídos dentro do aparelho, o aparelho tenha sido exposto à chuva ou umidade, não operar normalmente, ou se tiver caído.
15. Nunca quebre o pino terra. Ligue apenas a uma fonte de energia do tipo marcada na unidade adjacente ao cabo de fornecimento de energia.
16. Se este produto for para ser montado em um bastidor de equipamentos, o suporte traseiro deve ser fornecido. 17. Nota para o Reino Unido: Se as cores dos fios do cabo de alimentação da unidade não correspondem com os terminais na ficha, faça o seguinte:
 - a) O fio que é colorido verde e amarelo tem de ser ligado ao terminal que está marcada com a letra E, o símbolo de terra, de cor verde ou colorido em verde e amarelo.
 - b) O fio é de cor azul, que tem de ser ligado ao terminal que está marcada com a letra N ou a cor preta.
 - c) O fio que é castanho deve ser ligado ao terminal que está marcada com a letra L ou a cor vermelha. Aparelhos elétricos.
18. This não deve ser exposto a respingos e os cuidados devem ser tomados para não colocar objetos que contenham líquidos, tais como vasos, sobre o aparelho.
19. A exposição a níveis de ruído extremamente alta pode causar uma perda permanente da audição. Os indivíduos variam consideravelmente a susceptibilidade ao ruído induzido perda de audição, mas quase todo mundo vai perder alguma audição se expostos a ruído suficientemente intensa durante um tempo suficiente. Segurança do Trabalho do governo dos EUA e Administração de Saúde (OSHA) especificou os seguintes exposições de nível de ruído admissíveis: de acordo com OSHA, a exposição em excesso dos limites admissíveis acima poderia resultar em alguma perda de audição. Tampões ou protectores para o canal auditivo ou sobre as orelhas, deve ser usada quando se opera este sistema de amplificação de modo a evitar a perda permanente da audição, se a exposição for superior a dos limites tal como descrito acima. Para garantir contra a exposição potencialmente perigoso para elevados níveis de pressão de som, recomenda-se que todas as pessoas expostas a um equipamento capaz de produzir níveis elevados de pressão sonora, como este sistema de amplificação de ser protegidos por protetores auditivos enquanto esta unidade está em operação.
20. Símbolos e nomenclatura utilizados no produto e nos manuais de produtos, destinados para alertar o operador para as áreas onde o cuidado extra pode ser necessário, são os seguintes:

duração por Dia em Horas	DBA Nível de som, resposta lenta
8	90
6	92
4	95
3	97
2	100
1 1/2	102
1	105
1/2	110
1/4 or less	115



Com a intenção de alertar o utilizador para a presença de "tensão perigosa" alto dentro do recinto produtos que poderá ser suficiente para constituir um risco de choque elétrico para as pessoas.

Com a intenção de alertar o usuário da presença de importantes de operação e manutenção (assistência) na literatura que acompanha o produto.

Risco de choque elétrico - NÃO ABRA. Para reduzir o risco de choque elétrico, não remover a tampa. Não existem peças no interior. Consulte um técnico qualificado.

Para evitar choque elétrico ou risco de incêndio, não exponha este aparelho à chuva ou umidade. Antes de utilizar este aparelho, leia atentamente as instruções de operação.

Se o seu aparelho possui um mecanismo de inclinação ou um armário estilo propina, por favor, use esse recurso de design com cautela. Devido à facilidade com que o amplificador pode ser movida entre as posições de costas rectas e inclinada, usar apenas o amplificador numa superfície plana e estável. NÃO operar o amplificador em uma escrivaninha, mesa, prateleira ou de alguma forma inadequada plataforma nonstable.





ACTIVE LOUDSPEAKER

HPT
PORTABLE SOUND

IMPORTANTI ISTRUZIONI DI SICUREZZA

AVVERTENZA: Quando si usano prodotti elettrici, alcune precauzioni dovrebbero essere sempre seguite, tra cui le seguenti:

1. Leggere queste istruzioni.
2. Conservare queste istruzioni di sicurezza.
3. Osservare tutte le avvertenze.
4. Seguire tutte le istruzioni.
5. Non utilizzare questo apparecchio vicino all'acqua.
6. Pulire solo con un panno asciutto.
7. Non ostruire le aperture di ventilazione. Installare in conformità con le istruzioni del produttore.
8. Non installare vicino a fonti di calore come radiatori, regolatori di calore, stufe o altri apparecchi (inclusi gli amplificatori) che producono calore.
9. Un apparecchio in Classe I deve essere collegato a una presa di corrente di rete con connessione di protezione. Non annullare l'obiettivo di sicurezza della spina polarizzata o con messa a terra. Una spina polarizzata ha due lame, una più larga dell'altra. Una spina con messa a terra ha due lame e un terzo polo di terra. La lama più larga o il terzo polo servono per la sicurezza. Se la spina fornita non è adatta alla propria presa, consultare un elettricista per la sostituzione della presa obsoleta.
10. Proteggere il cavo di alimentazione venga calpestato o schiacciato, soprattutto in corrispondenza delle spine, delle prese e al punto in cui esce dall'apparecchio.
11. Usare solo dispositivi opzionali / accessori forniti dal produttore.
12. Usare solo con un carrello, supporto, cavalletto, sostegno o tavola specificate dal produttore o venduti con l'apparecchio. Quando si usa un carrello, prestare attenzione, muovendo il carrello / la combinazione di apparecchi, a non ferirsi-over.
13. La spina dell'alimentazione o apparecchio viene utilizzato come dispositivo di scollegamento e deve restare sempre operativo. L'utente deve consentire un facile accesso a qualsiasi presa di rete, accoppiatore di rete e interruttore di rete utilizzato in combinazione con l'unità rendendo così facilmente accessibile. Scollegare l'apparecchio durante i temporali o se non viene utilizzato per lunghi periodi di tempo.
14. Per l'assistenza rivolgersi a personale qualificato. L'assistenza è necessaria quando l'apparecchio è stato danneggiato in qualsiasi modo, come ad esempio quando il cavo di alimentazione o la spina sono danneggiati, è stato versato del liquido o degli oggetti sono caduti all'interno, l'apparecchio è stato esposto a pioggia o umidità, non funziona normalmente, o è stato fatto cadere.
15. Non rompere il pin di terra. Collegare ad una presa di potenza del tipo indicato sull'apparecchio adiacente al cavo di alimentazione.
16. Se il prodotto deve essere montato in un rack, supporto posteriore dovrebbe essere fornito.
17. Nota per solo Regno Unito: Se i colori dei fili del cavo di alimentazione di questa unità non corrispondono con i terminali della spina, procedere come segue:
 - a) Il cavo colorato verde e giallo deve essere collegato al terminale contrassegnato con la lettera E, il simbolo di massa, di colore verde o di colore verde e giallo.
 - b) Il filo che è di colore blu deve essere collegato al terminale contrassegnato con la lettera N o il nero.
 - c) il cavo marrone deve essere collegato al terminale contrassegnato con la lettera L o di colore rosso.
18. This apparecchio elettrico non deve essere esposto a gocce o schizzi e si deve prestare attenzione a non posizionare oggetti contenenti liquidi, come vasi, sopra l'apparecchio.
19. L'esposizione a livelli sonori molto elevati può causare la perdita permanente dell'udito. Gli individui La sensibilità al rumore perdita dell'udito causata, ma quasi tutti si perde un po' di danni in caso di esposizione al rumore sufficientemente intenso per un tempo sufficiente.

Sicurezza sul lavoro del governo degli USA and Health Administration (OSHA) ha elaborato la seguente tabella di tolleranza ai rumori: Secondo l'OSHA, l'esposizione prolungata ai limiti riportati qui a fianco potrebbe causare perdita di udito. Tappi per le orecchie o protezioni per il condotto orecchie o sopra le orecchie devono essere indossati quando si adopera questo sistema di amplificazione, al fine di evitare la perdita permanente dell'udito, se si superano i limiti di cui sopra. Per assicurarsi contro un'esposizione potenzialmente pericolosa ad elevati livelli di pressione sonora, si raccomanda che tutte le persone esposte ad apparecchi in grado di produrre elevati livelli di pressione sonora, come questo sistema di amplificazione essere protetti da dispositivi di protezione dell'udito mentre l'unità è in funzione.

Durée par Jour (heures)	Niveau sonore moyen (dBA)
8	90
6	92
4	95
3	97
2	100
1 1/2	102
1	105
1/2	110
1/4 ou inférieur	115



20. Simboli e nomenclatura utilizzati sul prodotto e nei manuali dei prodotti, finalizzate ad avvisare l'operatore di aree in cui cautela possono essere necessari, sono i seguenti:
Scopo di avvisare l'utente della presenza di 'tensioni pericolose' alta all'interno del prodotto che può essere sufficiente per costituire un rischio di scossa elettrica per le persone. Destinato per avvisare l'utente della presenza di importanti operativi e di manutenzione (assistenza) nella documentazione che accompagna il prodotto.

Rischio di scossa elettrica - NON APRIRE. Per ridurre il rischio di scosse elettriche, non rimuovere il coperchio. Non ci sono parti riparabili dall'utente. Per la manutenzione rivolgersi a personale qualificato.

Per evitare scosse elettriche o incendi, non esporre questo apparecchio alla pioggia o all'umidità. Prima di utilizzare questo apparecchio leggere le istruzioni per l'uso.

Se il vostro apparecchio è dotato di un meccanismo di inclinazione o di un mobile in stile contraccollo, si prega di utilizzare questa caratteristica di design con cautela. A causa della facilità con cui l'amplificatore può essere spostato tra le posizioni schiena dritta e inclinata, utilizzare solo l'amplificatore su una superficie piana e stabile. NON utilizzare l'amplificatore su una scrivania, tavolo, uno scaffale o comunque inadatti piattaforma non stabile.

重要安全说明

警告：使用电器产品时，应始终遵循基本的注意事项，包括以下各项：

1. 阅读这些说明。
2. 确保此类说明放置于安全处。
3. 注意所有警告。
4. 请遵守所有说明。
5. 请勿在近水处使用该电器。
6. 仅可用干布清洁该电器。
7. 请勿堵塞该电器上的任何通风口。根据制造商的说明进行安装。
8. 请勿将该电器安装在靠近热源，如散热器、热风机、炉子或其他发热设备（包括功率放大器）。
9. 与 I 类建筑设备连接时，应连接到带保护的电源插座上。不要忽视极性或接地类型插头的安全作用。极性插头具有两个片状电极，其中一个较宽。接地类型插头具有两个片状电极和第三只接地脚。宽片状电极或第三只接地极用于保证使用者及电器的安全。如所提供的插头不适用于插座，须请专业人员更换，切勿自行更换电源插座。
10. 保护电源线，不被踩踏或挤压，尤其在插头、插座以及电源线的连接处。
11. 仅可采用制造商提供的附件或配件。
12. 仅可使用制造商指定的、或与该电器一同出售的货车、台架、三脚架、支架或台桌。使用货车，及移动货车/搬运该电器时，须注意，避免倾翻产生损坏。
13. 电源插头或该电器的转接插头，应保持其易操作性。用户应使用与该电器匹配的电源插头、连接器和电源开关，应易于操作。在雷雨或长时间不使用时，拔下该电源插头。
14. 当该电器受到任何方式的损坏时，如：电源线或插头被损坏、液体泼溅或物体落入电器内、该电器放置于有雨水或潮湿处、及该电器坠落，无法正常运行，需进行检修时，必须有资格认证的维修人员进行维修。
15. 请勿切断电源插头上的接地极。仅可连接到在插头的片状电极旁边已标注符号的极性上。
16. 如此电器须安装在设备架上，应提供后部支架。
17. 仅适用于英国的注意事项。如该电器的电源线中电缆颜色与插头片状电极不相符，请按照以下步骤进行操作：
 - a) 黄绿色电缆须连接至标有字母“E”的电极，为接地符号。颜色为黄绿色或绿色。
 - b) 蓝色电缆须连接至标有字母“N”的电极，颜色为蓝色或黑色。
 - c) 棕色电缆须连接至标有字母“L”的电极，颜色为棕色或红色。
18. 该电器不能放置于有水滴或有水溅出的地方，须注意，不要将盛有液体的容器，如花瓶放在该电器上。
19. 如果人处于极高噪音级中可能会造成永久失聪。每个人受噪音导致听力损害的差异很大。然而若长时间处于极强噪音中，任何人几乎都会造成不同程度的听力损害。美国政府职业安全健康管理局（OSHA）指定了以下允许范围内的噪音级别，见右表：根据 OSHA，任何超出上述允许的极限范围可导致不同程度的听力损害。在运行该电器时，人体处于超出了以上设定的限制，须佩戴耳塞或配备耳朵的保护装置，以防止永久性听力损害。为避免可能处于强声压程度下的危险，该电器运行时，建议处于强声压程度下的所有人均配备听力保护装置。
20. 用于产品和说明书上的符号和术语是为了提醒操作人员注意需要额外注意的地方，具体如下：

旨在提醒使用者小心产品空箱内的未绝缘“危险电压”，这可能足以对人员构成触电危险。

每天持续时间 (小时)	噪声程度 (dBA) 缓慢反应
8	90
6	92
4	95
3	97
2	100
1 1/2	102
1	105
1/2	110
1/4 或更少	115



旨在提醒使用者与产品一起提供的说明书中的重要操作和维护（保修）说明。小心触电-不能打开

为了降低触电风险，请不要打开盖子。里面不含任何用户可用的配件。请将维修交于被许可的人员。

为避免触电或火灾，请不要将本产品置于雨中或潮湿环境中。在使用本产品前，请仔细阅读该操作说明。

21. 该产品仅适用于海拔2000m以下地区安全使用 该产品仅适用于非热带气候条件下安全使用

如果你的产品是倾斜的结构或是后倾款式的箱体，请小心使用该设计特征。由于功放可以在直立和后倾方式之间转换，请在平坦、牢固的表面使用该产品。请不要在桌子、架子或其它不适合、不牢固的平台上使用该功放。



중요안전수칙

경고: 전기 제품을 사용하는 경우, 다음과 같은 기본적인 수칙을 항상 준수해야 합니다.

1. 지침을 읽으십시오.
2. 지침을 안전하게 보관하십시오.
3. 모든 경고에 유의하십시오.
4. 모든 지침을 따르십시오.
5. 이 제품을 물 근처에서 사용하지 마십시오.
6. 항상 마른 천으로 청소하십시오.
7. 통풍구를 막지 마십시오. 제조사의 지침에 따라 설치하십시오.
8. 난방기, 열 조절 장치, 스토브 또는 다른 장치(앰프 포함) 등 발열 근처에 설치하지 마십시오.
9. Class I 구조의 제품은 보호 커넥션과 함께 전원 콘센트에 연결해야 합니다. 유극 형 또는 접지 형 플러그의 안전수칙을 준수하십시오. 유극형 플러그는 다른 것보다 넓은 두 개의 날이 있습니다. 접지 형 플러그에는 두 개의 날과 세 번째 접지가닥이 있습니다. 넓은 날이나 세 번째 접지용 가닥은 사용자의 안전을 위해 제공됩니다. 제공된 플러그가 사용자의 콘센트와 맞지 않는 경우에는 전기 기술자에게 콘센트 교체를 문의하십시오.
10. 특히 플러그, 콘센트 및 기기에서 나오는 곳에서 전원모드가 밝히거나 꼬이는 것을 방지하십시오.
11. 제조사가 제공하는 부속 및 액세서리만을 사용하십시오.
12. 제조사가 지정한 카트, 스탠드, 삼각대, 받침대 또는 테이블 그리고 제품과 함께 판매된 것들만 사용하십시오. 카트를 제품과 함께 이동할 때 제품이 뒤집어져 부상을 당하지 않도록 카트 사용시 주의하십시오.
13. 전원 플러그나 기기용 커플러는 분리장치로 사용되며 즉시 작동할 수 있는 상태로 유지해야 합니다. 사용자는 모든 전원 플러그에 쉽게 접근이 가능해야 하며 전원 커플러와 전원 스위치가 이 유닛과 잘 결합하여 쉽게 작동해야 합니다. 천둥번개나 장시간 사용하지 않을 경우 장치의 플러그를 뽑으십시오.
14. 자격을 갖춘 서비스 엔지니어에게 모든 서비스를 문의하십시오. 예를 들어 전원 공급 코드나 플러그가 손상되었거나 액체가 제품에 떨어진 경우, 제품에 비 또는 습기에 노출된 경우, 정상적으로 작동하지 않거나 제품을 떨어뜨린 경우에는 서비스가 필요합니다.
15. 그라운드 핀을 억지로 분리하지 마십시오. 전원코드에 인접한 장치에 표시된 유형의 전원에만 연결하십시오.
16. 이 제품을 장비선반에 올릴 경우 뒷면 지지대가 필요합니다.
17. 영국을 위한 노트: 전원 전선의 색상이 사용자 플러그의 터미널과 일치하지 않는다면 다음과 같이 진행하십시오.
a) 녹색과 노랑색 와이어는 E라고 적힌 녹색이나 노랑색 터미널과 연결되어야 합니다.
파란색 와이어는 N이라고 적힌 검은색 터미널과 연결되어야 합니다.
갈색 와이어는 L이라고 적힌 빨간색 터미널과 연결되어야 합니다.
18. 이 전기 제품은 습기나 액체에 노출되지 않아야 하며, 액체를 포함하는 꽃병과 함께 위치하면 안 됩니다.
19. 상당히 높은 노이즈 레벨에 노출되면 청력이 손상될 수 있습니다. 상당한 시간 동안 집중적인 노이즈에 노출되면 거의 모든 사람들이 청력을 상실할 수 있습니다.
미국 정부의 산업안전보건관리 Occupational Safety and Health Administration (OSHA)는 다음과 같은 허용 소음 레벨을 지정하였습니다. OSHA에 따르면 위의 허용 한도를 초과하는 노출은 약간의 청력 손실이 발생할 수 있습니다. 이 앰프 시스템을 작동할 때 노출이 위 명시된 한계를 초과하는 경우, 영구적인 청력 손실을 방지하기 위해선 귀를 보호하기 위한 귀마개 등을 착용해야 합니다. 또한 높은 음압의 잠재적인 위험 노출에 대비하기 위해서는 앰프 같은 높은 음압을 낼 수 있는 기기가 작동되는 동안 귀 보호장비가 필요합니다.
20. 사용자의 주의가 필요한 제품 매뉴얼에서 사용되는 기호 및 명칭은 다음과 같습니다.

하루 평균시간	Sound Level dBA, slow response
8	90
6	92
4	95
3	97
2	100
1 1/2	102
1	105
1/2	110
1/4이하	115



제품에 동봉된 'Dangerous Voltage'는 사람에게 전기적 충격의 위험을 경고하기 위한 것입니다.

제품에 주요 동작 및 유지 보수(서비스) 내용이 포함된 지침서는 사용자를 위한 것입니다.

감전위험- 열지 마십시오. 감전의 위험을 줄이기 위해 커버를 제거하지 마십시오. 자격을 갖춘 엔지니어에게 문의하십시오.

감전이나 화재의 위험을 방지하기 위해서 이 제품을 비나 습기에 노출시키지 마십시오. 이 제품을 사용하기 전에 사용설명서를 읽어보시기 바랍니다.

INTRODUCTION

The HH HPT range of active cabinets, engineered in the UK to deliver power, performance and reliability.

The HPT-112 12-inch active loudspeaker enclosure offers 1400W of Class D power output and an impressive SPL of 130dB with the larger HPT-115 15-inch system providing 1400W of Class D power output and an SPL of 131dB.

Both models feature dual 1/4" & XLR Mic/line input channels with individual gain controls, on-board DSP with 4 audio modes, Master Volume Control, Mix Output, Ground Switch and Illuminating Logo.

The HPT full range enclosures provide flexibility during use, either as a stand alone unit or part of a larger system.

Multiple options are available to the user. These include a 35mm pole mount for use with a HPS active sub cabinet, four M8 integrated fly points for vertical or horizontal suspension, freestanding and kick back 35 degree monitor tilt.

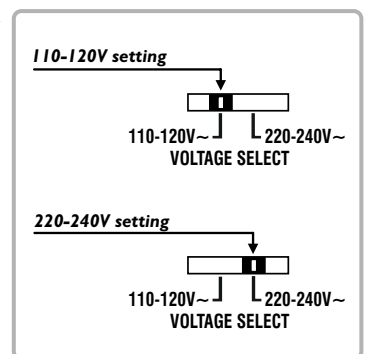
With their elegant design and three integrated carry handles, both models are easily transportable weighing in at 14.4Kg and 18Kg respectively.

GETTING STARTED

This manual contains important information regarding correct and safe operation of your HPT system. Please read it thoroughly in order to get the best performance and reliability from your HH product.

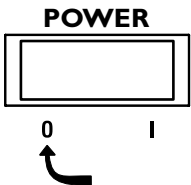
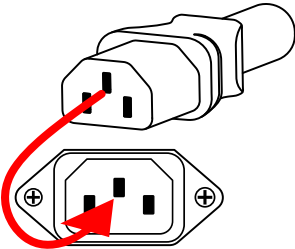
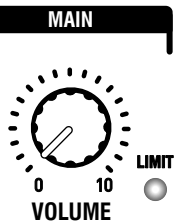
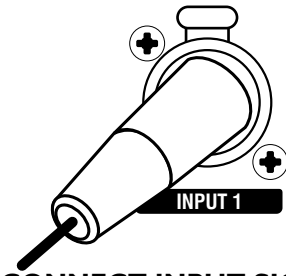
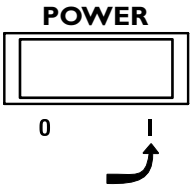
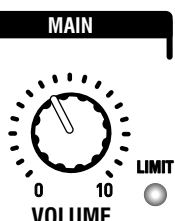
VOLTAGE SELECT SWITCH

Although every effort has been made to select the correct voltage for the region of use, please check before powering up for the first time. **Damage could occur if the voltage is incorrectly set.** If necessary, use a suitable tool to slide the Voltage Selector Switch to the required setting.



POWER CYCLE

Many products have large transient surges at turn on and off which can cause damage to your speakers. Following the sequence below for power-up and the reverse for power down will prevent this from occurring.

1  POWER SWITCH - OFF	2  CONNECT POWER	3  SET VOLUME TO MINIMUM
4  CONNECT INPUT SIGNAL	5  POWER SWITCH - ON	6  SET VOLUME AS REQUIRED



REAR CONTROL PANEL - THIS IS THE SAME FOR BOTH MODELS.

1 & 2. INPUTS: A Combi Input allows for the use of both XLR and 1/4" Jacks and accepts balanced and unbalanced signals.

Note: a stereo signal on a TRS lead cannot be connected directly, and must be split to two mono connectors.

GAIN: Use to set the channel level.

Note: Set the Gain control to minimum before connecting an audio signal.

Once the system is powered up, we recommend that the Gain set to midway is a good starting point.

3. MASTER VOLUME: Controls the overall level of your HPT system.

Note: Set this control to minimum when switching the unit ON or Off.

LIMIT: The HPT cabinets are equipped with an onboard limiter to prevent overload to the power amplifiers and loudspeakers. The Limit led will illuminate when the Limiter is active. Occasional blinking of the Limit led is ok, but continuous illumination could result in damage to the system and Main Volume should be reduced.

4. MIX OUT: A signal feed which can be used to connect a second HPT cabinet (daisy chained - see page 12), active monitor, house PA or recording console for example. The Mix Out signal level is not affected by the Volume Control.

5. EQUALISATION: Four presets are included to optimise the response of the cabinet to suit your needs. Cycle through them using the Mode button.

MUSIC: A bass lift with a flat mid to high response.

LIVE: Similar to the 'MUSIC' response with the LF lift frequency shifted.

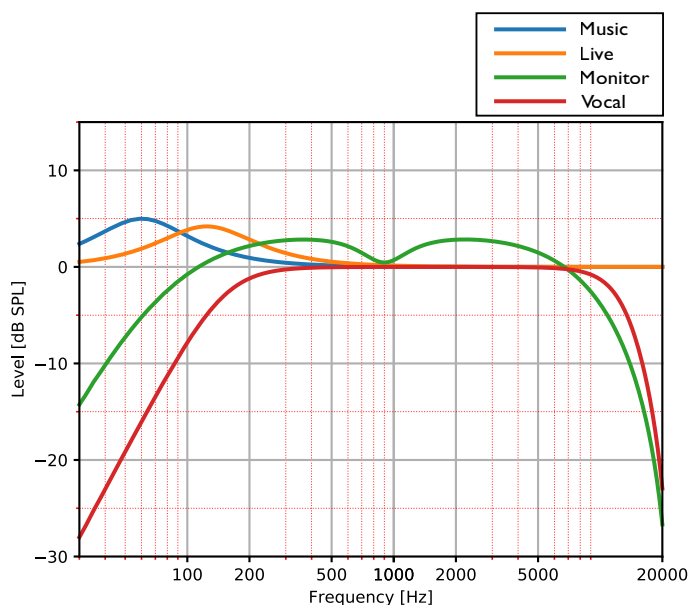
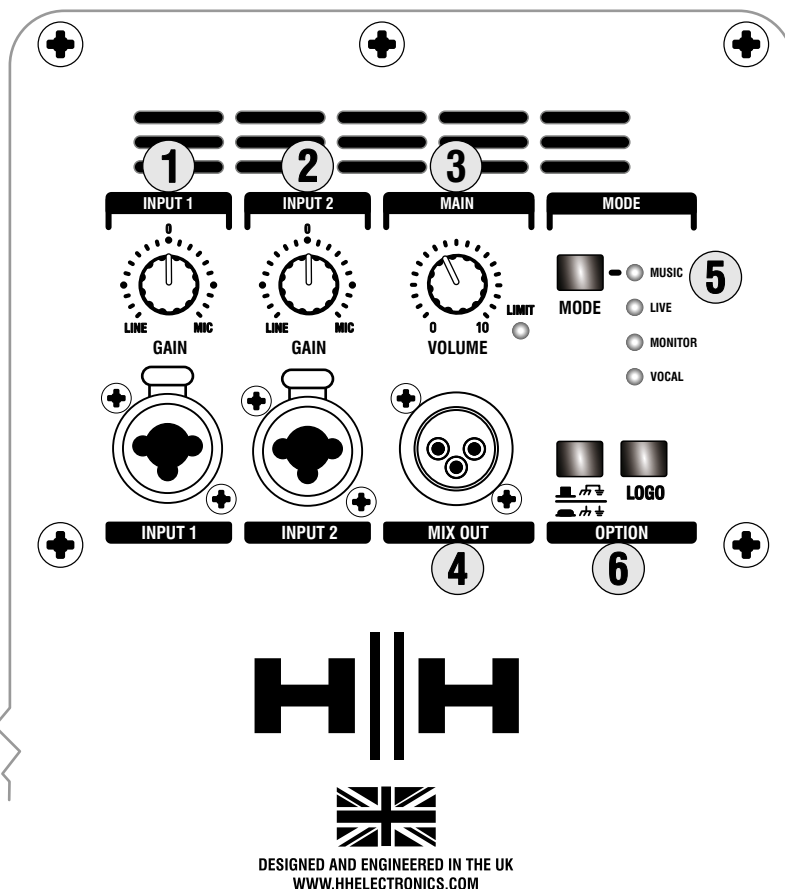
MONITOR: A LF and HF roll-off with a slight mid band cut for clarity.

VOCAL: A bass roll-off with flat mid and upper frequencies.

The EQ setting is stored and recalled following a power cycle. Please note the unit is shipped with the EQ mode set to Music.

6. OPTION: A Ground lift has been provided to reduce the potential problem of earth loops when connecting to other equipment. This control is to be used in conjunction with the MIX OUT.

The Cabinets front logo illumination can be turned ON/Off with the Logo control.





ACTIVE LOUDSPEAKER

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REAR PANEL CONTINUED

7. MAINS INLET SOCKET AND FUSE: IEC input for connection of an appropriate mains lead. Only replace the fuse with the type indicated on the rear panel.

8. MAINS SWITCH: Turns the system on and off. Ensure the Volume controls is set to minimum when switching on and off.

9. VOLTAGE SELECT SWITCH: As previously mentioned, please ensure the setting is correct before powering up to prevent damage to the amplifier.

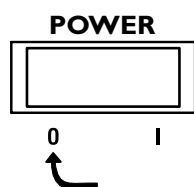
10. INFORMATION: Area relating to the amplifier: Serial Number, operational information, power rating, etc.

11. AIR VENTS: These are critical for the longevity and reliability of the amplifier - DO NOT BLOCK. The same applies to the vents at the top of the control panel.

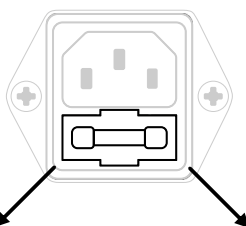


FUSE REPLACEMENT AND VOLTAGE SELECTION

SWITCH OFF AND DISCONNECT THE POWER CORD BEFORE PROCEEDING.



FUSE REPLACEMENT



1. Slide out the fuse holder tray.
2. Only replace fuse with the same type and power rating as specified on the rear panel.

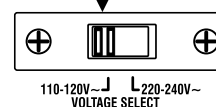
~100-120V 50/60Hz T6.3A L 250V

~220-240V 50/60Hz T3.15A 250V

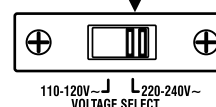
SUPPLY VOLTAGE & FUSE RATING

VOLTAGE SELECTION

110-120V SETTING



220-240V SETTING

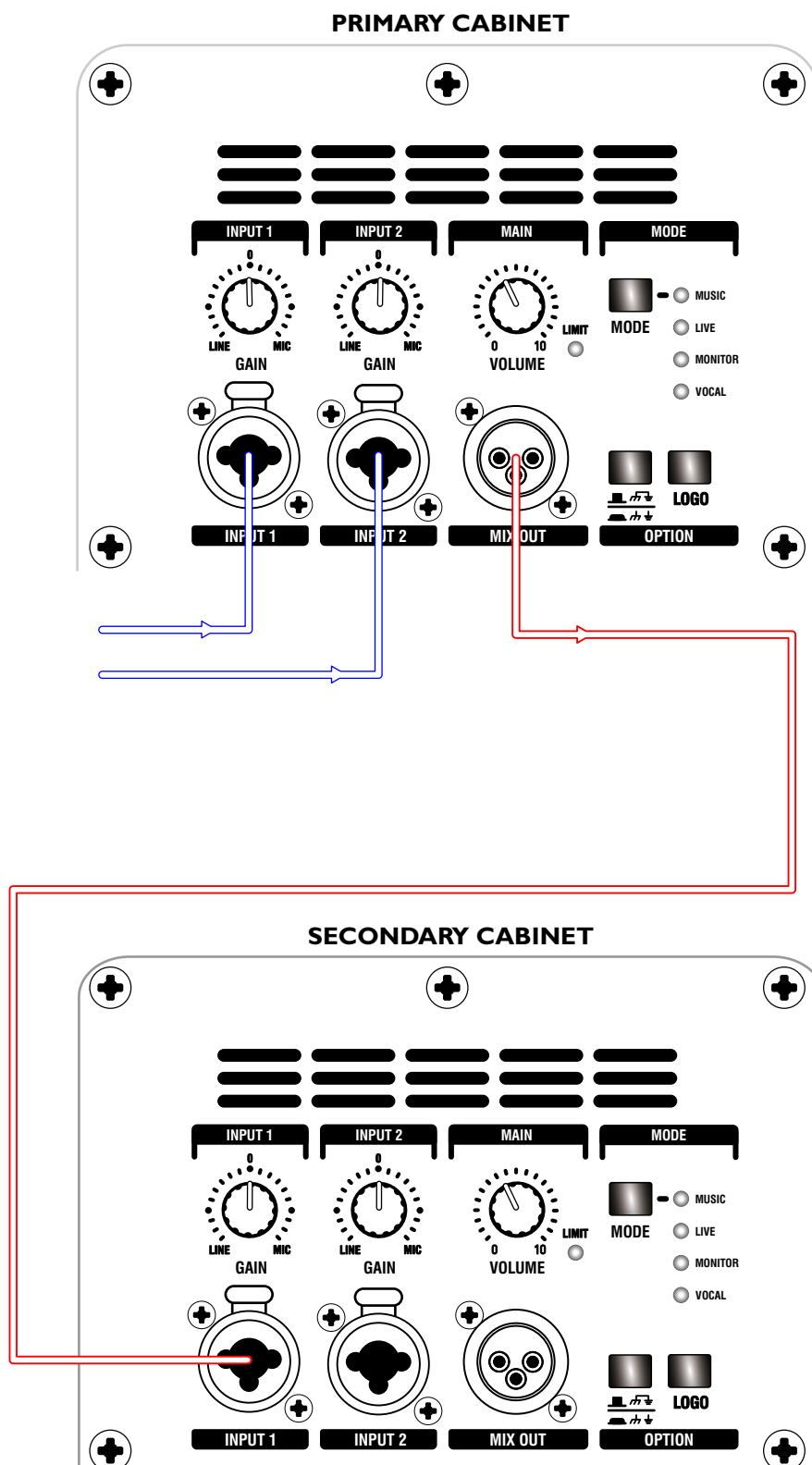


Using a suitable tool, slide the voltage selector switch to the required operating voltage.

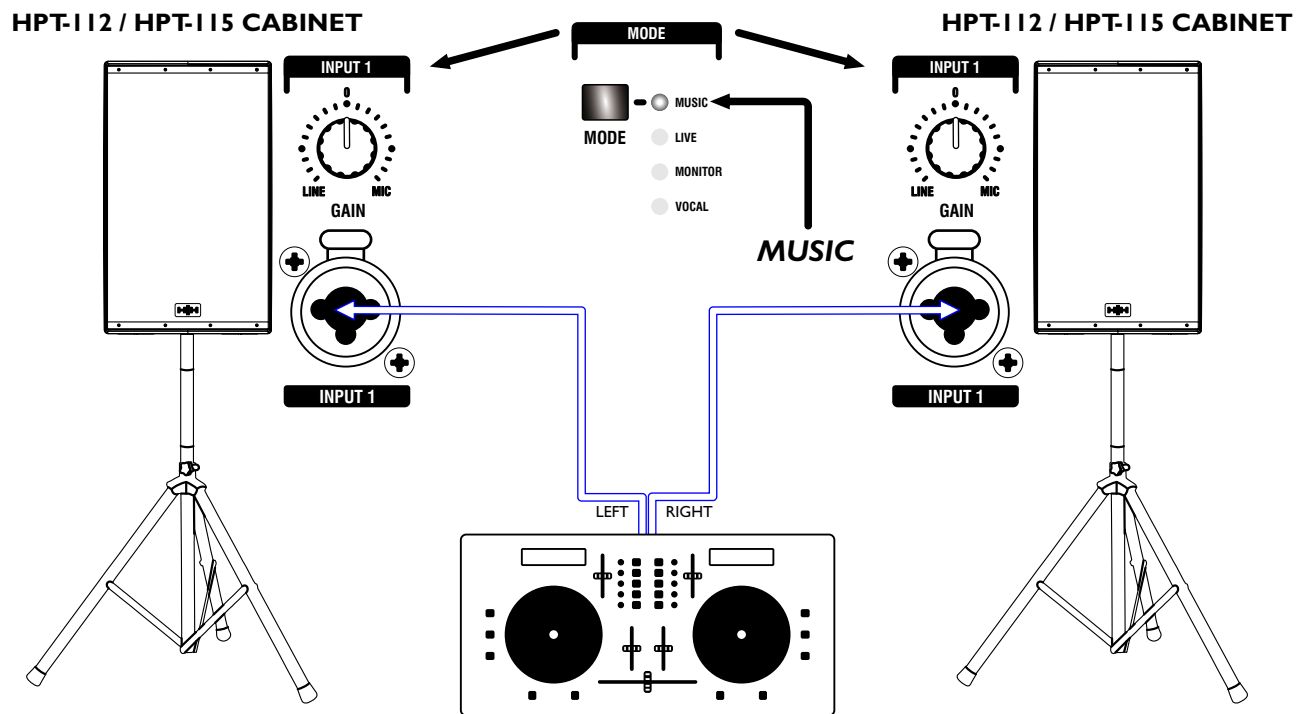


EXAMPLE 1 - Daisy chained

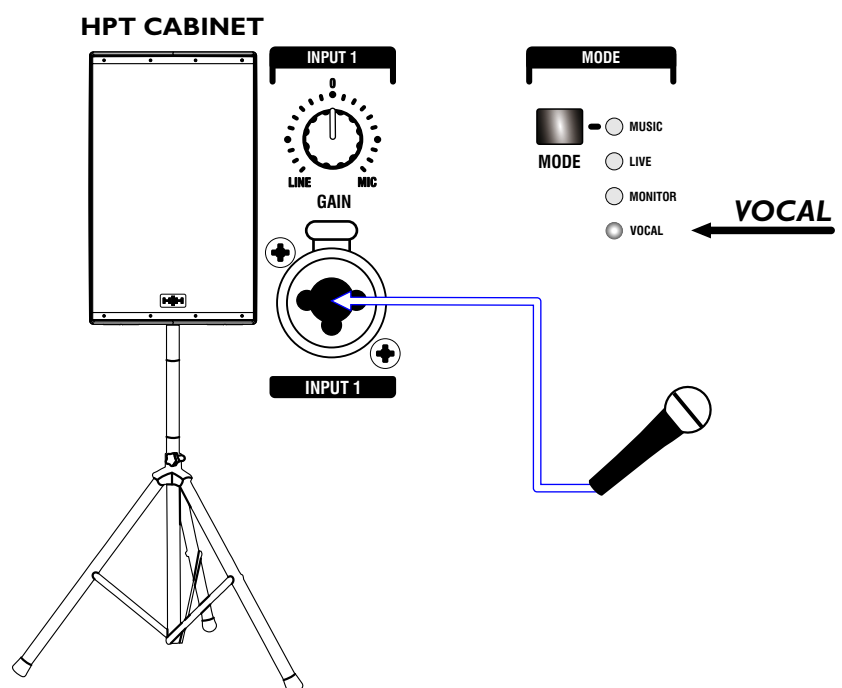
If additional cabinets are required in the signal chain, simply connect the Mix Out of the primary cabinet to the Input of the Secondary cabinet.



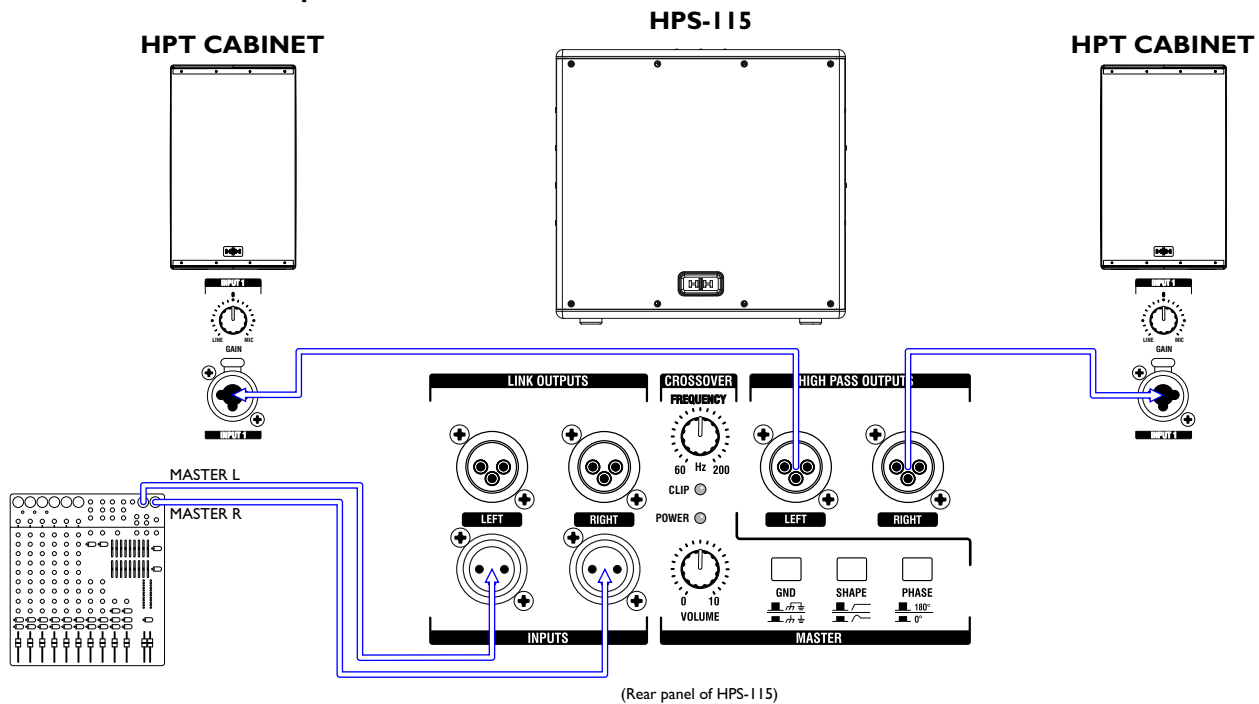
EXAMPLE 2 - A DJ setup



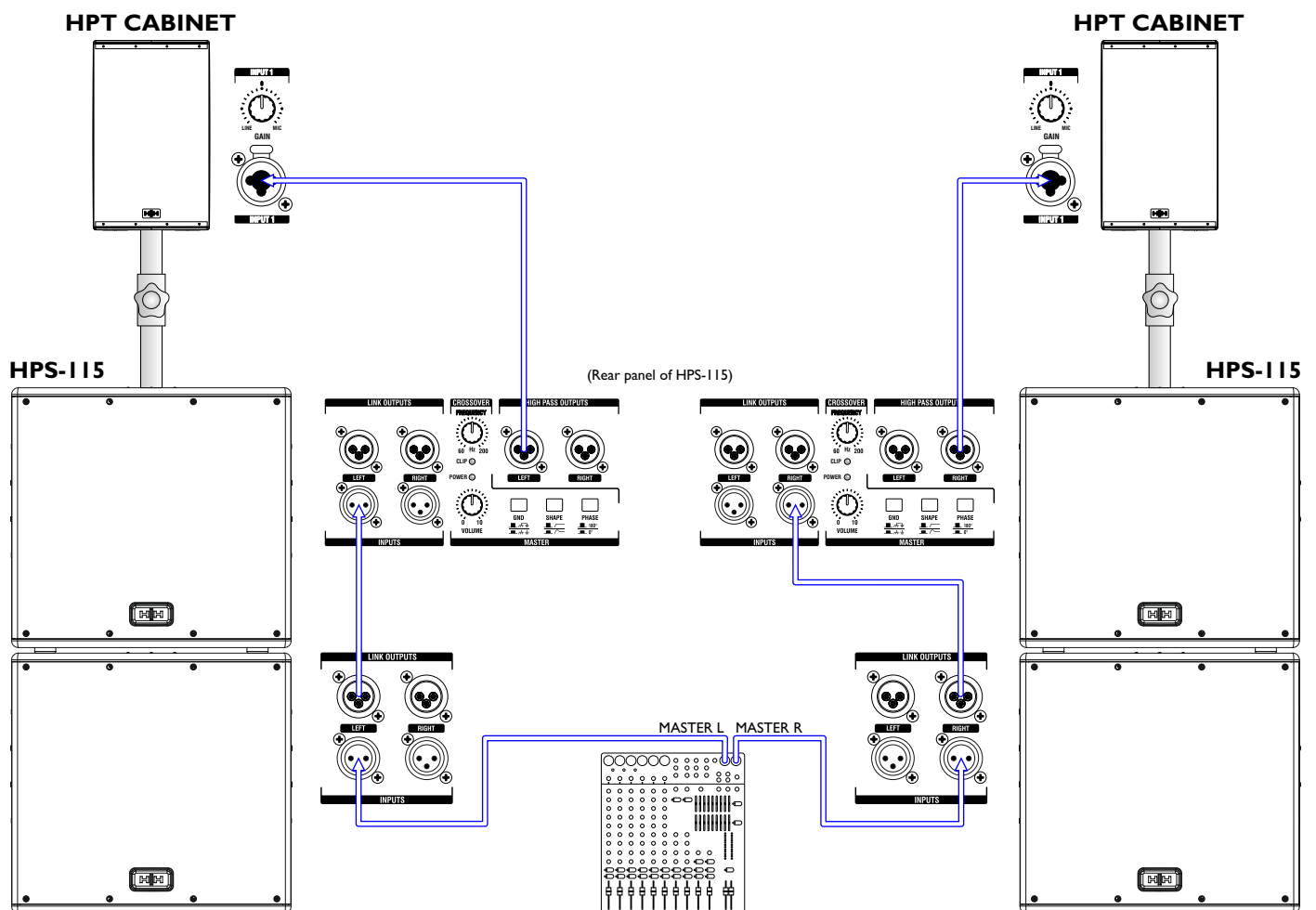
EXAMPLE 3 - A mono PA setup



EXAMPLE 4 - Stereo setup with mono bass



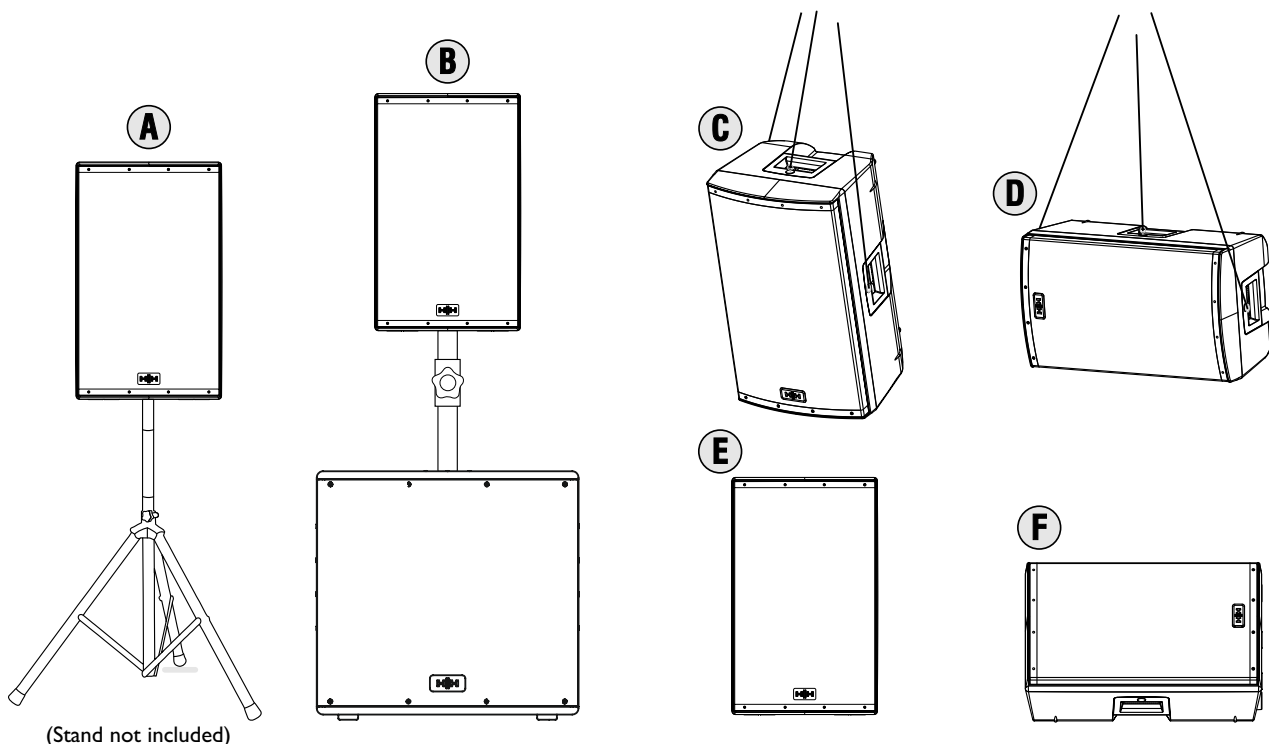
EXAMPLE 5 - Full stereo setup



CONFIGURATIONS

The intuitive design of the HPT cabinets provide user flexibility and a product that will serve in many situations:

- A: Tripod/pole mounting - via the 35mm pole socket.
- B: Pole on sub.
- C: Flown vertically.
- D: Flown horizontally.
- E: Freestanding - on the ground.
- F: Monitor mode - the cabinets shape allows for horizontal/angled position on stage.



IMPORTANT

POLE MOUNT: Don't over-extend poles/tripods; ensure at least 4 x the pole diameter is still inside the outer pole. Make sure the legs have a good splay on tripods, but do not obstruct doorways or other access-ways. Make sure that the thumb screw on the cabinet is tight.

SUSPENDED

WARNING: The suspension or 'flying' of cabinets should be performed only by properly qualified persons, in compliance with all local laws.

The position of installation is also bound by laws and regulations so must be taken into account in the initial planning stages.

Hardware used must be fully approved for its intended use and be rated to support weights greater than that of the cabinet.

All installation equipment used is subject to regular safety checks which must be strictly adhered to.

If any of the hardware shows any signs of wear or damage, it should be replaced immediately.

Failure to do so could result in serious injury or death!



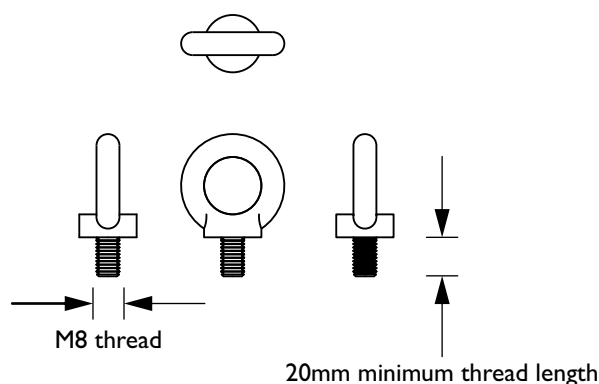
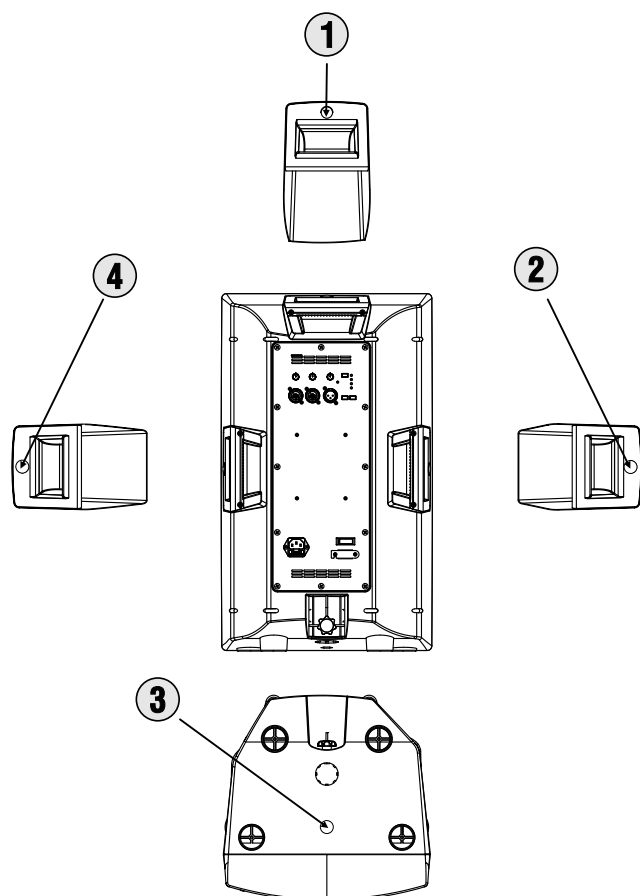
FITTING EYE BOLT

A: To fit the eye bolts, first locate and remove the four rubber protection caps (positions shown below).

B: Replace with a suitable eye bolt. Ensure thread is fully engaged into the insert.

Note that eye bolts for flying systems must be cast, shouldered fittings rated for the purpose.

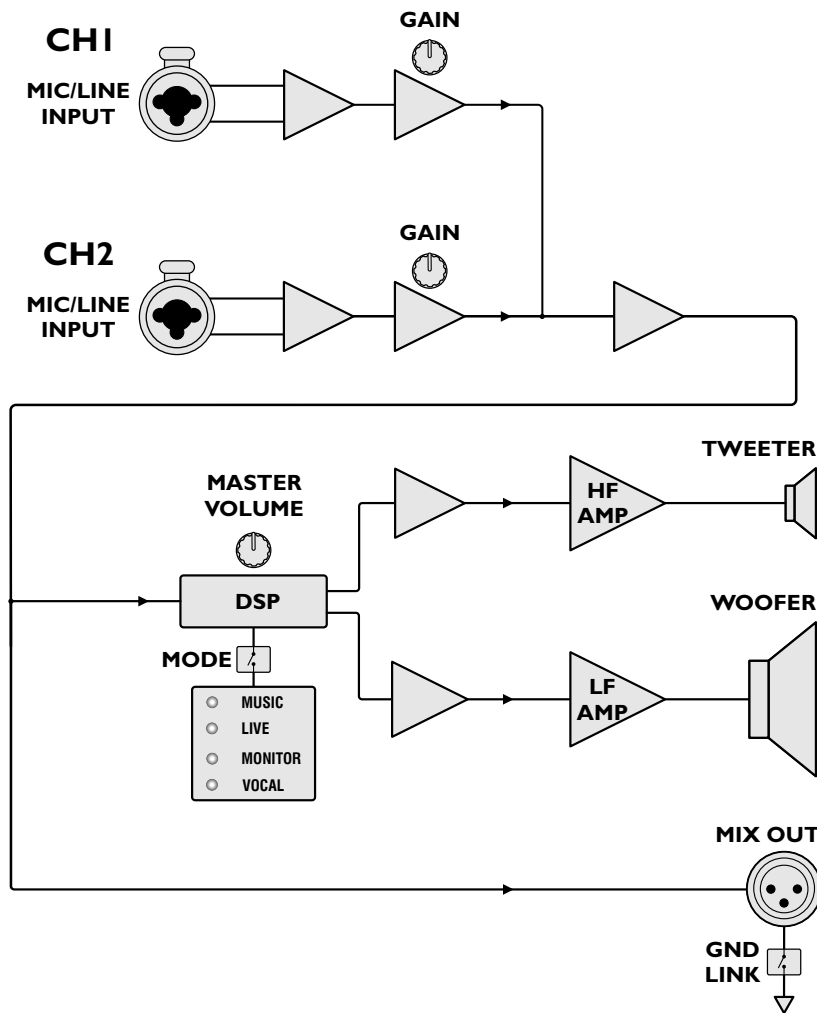
Forged steel eye bolts of the type typically available from DIY suppliers are NOT suitable and should not be used under any circumstances.



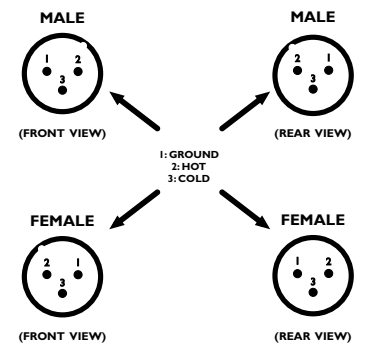
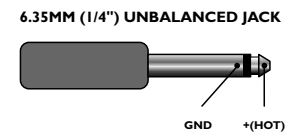
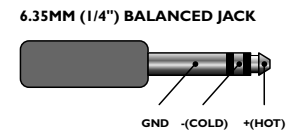
QUICK TIPS

- Use electronic safety devices such as circuit breakers.
- Master volume should be at zero for switch on and off.
- Use input gain to set maximum signal level without distortion.
- Set up microphone levels first, and adjust other equipment to match.
- Avoid very high onstage levels from back-line amps.
- Avoid damp environments and extremes of temperature for storage and use of all audio equipment.
- Look after your cables. Do not stand equipment on, or run cases over them, do not tie knots in them and always use them for the correct application (a signal lead is NOT a speaker lead). Coil and secure with cable ties before storing.
- Ensure your equipment is properly loaded and cannot move around during transit.
- Keep lights away from speakers; heat can cause fires/speaker damage.
- Don't run cables across access-ways; if you have to, run them above doors or use approved cable covers.
- Be aware of total power usage. Overloading a mains socket is potentially dangerous, and likely to cause a power out during use.
- Keep power and signal cables apart.

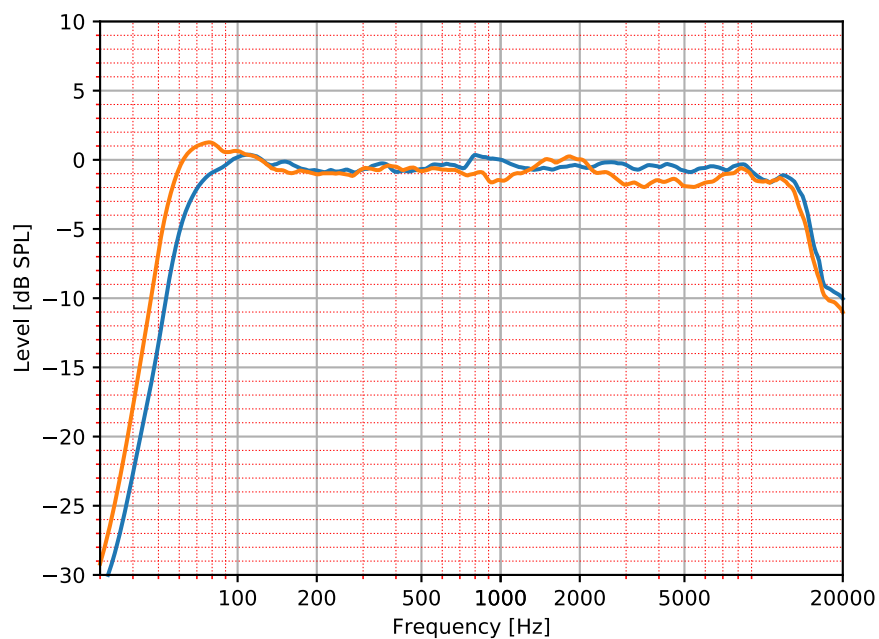
BLOCK DIAGRAM



I/O CONNECTOR WIRING



FREQUENCY RESPONSE





ACTIVE LOUDSPEAKER

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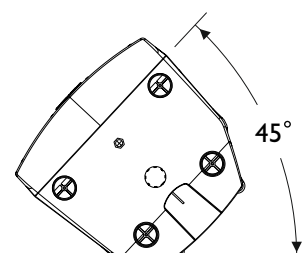
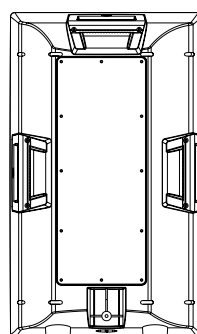
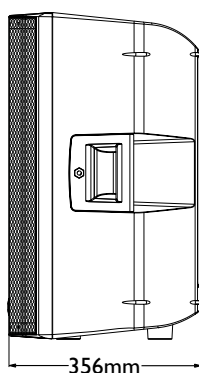
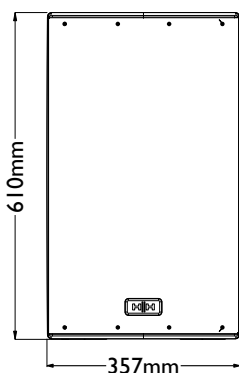
SPECIFICATION: HPT-112

Model	HPT-112
System type	2 way active 12" loudspeaker, Bass reflex
Power Rating	1400W Peak, 700W Continuous
Frequency response	45Hz-20KHz
Max SPL (1M) (Peak)	130 dB SPL
Speaker	
LF Driver	12" HH designed professional low mid driver featuring imported glass reinforced cone
HF Driver	1" Compression Driver
Coverage	90°H X 90°V
Crossover Frequency	2.5KHz
Features	
Input Connectors	2x Balanced Combi XLR/1/4" Jack connectors
Output Connectors	1x Balanced XLR Mix Output
Indicators	Power, Clip Indicator, EQ Mode, Front illuminated logo
EQ	User selectable performance presets for Music, Live, Monitor, Vocal
DSP	Crossover, EQ, Dual Band Limiters, Phase and Time Optimisation
Protection	Comprehensive protection and clip free limiting + clip indicator
Controls	2x channel gain, Master Volume, logo on/off, Ground Lift, EQ Mode
AC Power	User Switchable 100-120 or 220-240V~ 50/60HZ
AC Power Consumption	300W Typical
Enclosure	
Cabinet	Robust polypropylene cabinet with three handles and monitor angle
Finish	Black
Grille	Heavy Gauge powder-coated steel, Black with acoustic foam backing
Other	35mm Distance Pole Socket
Flying points	4 x M8 Mounting Points
Unit dimensions (HWD)	610 x 357 x 356 mm 24" x 14.1" x 14"
Unit weight	14.4Kg, 31.7 lbs
Carton dimensions (HWD)	700 x 450 x 450 mm 27.6" x 17.7" x 17.7"
Packed weight	17.5Kg, 38.6 lbs
EAN13	5060109457629

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

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

- 1 Measured in Full space (4m) conditions
- 2 Calculated maximum SPL based on rated power handling
- 3 AES standard, pink noise with 6 dB crest factor, free air.





ACTIVE LOUDSPEAKER

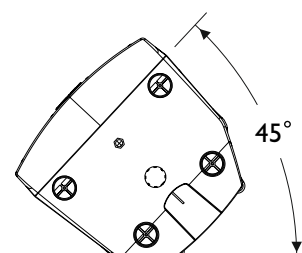
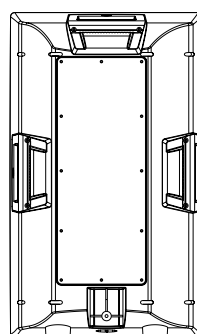
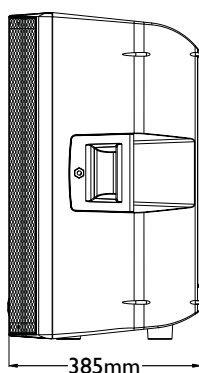
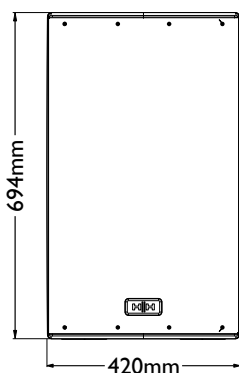
HPT
PORTABLE SOUND

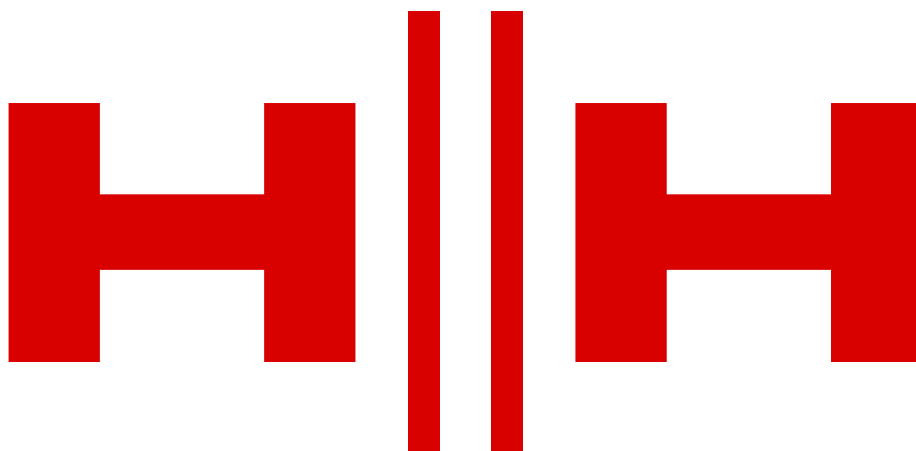
SPECIFICATION: HPT-115

Model	HPT-115
System type	2 way active 15" loudspeaker, Bass reflex
Power Rating	1400W Peak, 700W Continuous
Frequency response	41Hz-20kHz
Max SPL (1M) (Peak)	131 dB SPL
Speaker	
LF Driver	15" HH designed professional low mid driver featuring imported glass reinforced cone
HF Driver	1" Compression Driver
Coverage	90°H X 90°V
Crossover Frequency	2.5kHz
Features	
Input Connectors	2x Balanced Combi XLR/1/4" Jack connectors
Output Connectors	1x Balanced XLR Mix Output
Indicators	Power, Clip Indicator, EQ Mode, Front illuminated logo
EQ	User selectable performance presets for Music, Live, Monitor, Vocal
DSP	Crossover, EQ, Dual Band Limiters, Phase and Time Optimisation
Protection	Comprehensive protection and clip free limiting + clip indicator
Controls	2x channel gain, Master Volume, logo on/off, Ground Lift, EQ Mode
AC Power	User Switchable 100-120 or 220-240V~ 50/60HZ
AC Power Consumption	300W Typical
Enclosure	
Cabinet	Robust polypropylene cabinet with three handles and monitor angle
Finish	Black
Grille	Heavy Gauge powder-coated steel, Black with acoustic foam backing
Other	35mm Distance Pole Socket
Flying points	4 x M8 Mounting Points
Unit dimensions (HWD)	694 x 420 x 385 mm 27.3" x 16.5" x 15.2"
Unit weight	18Kg, 39.7 lbs
Carton dimensions (HWD)	800 x 500 x 480 mm 31.5" x 19.7" x 18.9"
Packed weight	21.8Kg, 48.1 lbs
EAN13	5060109457636
In the interest of continued development, HH reserves the right to amend product specification without prior notification.	

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

- 1 Measured in Full space (4m) conditions
- 2 Calculated maximum SPL based on rated power handling
- 3 AES standard, pink noise with 6 dB crest factor, free air.





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Model number:

Serial number:

Place of purchase:

Date of purchase: