



# IPR2™ 5000/7500 IPR2™ 5000/7500 DSP Power Amplifiers

## Operating Manual





Intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



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

**CAUTION:** Risk of electrical shock — DO NOT OPEN!

**CAUTION:** To reduce the risk of electric shock, do not remove cover. No user serviceable parts inside. Refer servicing to qualified service personnel.

**WARNING:** To prevent electrical shock or fire hazard, this apparatus should not be exposed to rain or moisture, and objects filled with liquids, such as vases, should not be placed on this apparatus. Before using this apparatus, read the operating guide for further warnings.



**Protective earthing terminal.** The apparatus should be connected to a mains socket outlet with a protective earthing connection.



Este símbolo tiene el propósito, de alertar al usuario de la presencia de "voltaje peligroso" sin aislamiento dentro de la caja del producto y que puede tener una magnitud suficiente como para constituir riesgo de descarga eléctrica.



Este símbolo tiene el propósito de alertar al usuario de la presencia de instrucciones importantes sobre la operación y mantenimiento en la información que viene con el producto.

**PRECAUCION:** Riesgo de descarga eléctrica ¡NO ABRIR!

**PRECAUCION:** Para disminuir el riesgo de descarga eléctrica, no abra la cubierta. No hay piezas útiles dentro. Deje todo mantenimiento en manos del personal técnico cualificado.

**ADVERTENCIA:** Para prevenir choque eléctrico o riesgo de incendios, este aparato no se debe exponer a la lluvia o a la humedad. Los objetos llenos de líquidos, como los floreros, no se deben colocar encima de este aparato. Antes de usar este aparato, lea la guía de funcionamiento para otras advertencias.



**Terminal de puesta a tierra de protección.** El aparato debe estar conectado a una toma de corriente con conexión a tierra de protección.



Ce symbole est utilisé dans ce manuel pour indiquer à l'utilisateur la présence d'une tension dangereuse pouvant être d'amplitude suffisante pour constituer un risque de choc électrique.



Ce symbole est utilisé dans ce manuel pour indiquer à l'utilisateur qu'il ou qu'elle trouvera d'importantes instructions concernant l'utilisation et l'entretien de l'appareil dans le paragraphe signalé.

**ATTENTION:** Risques de choc électrique — NE PAS OUVRIR!

**ATTENTION:** Afin de réduire le risque de choc électrique, ne pas enlever le couvercle. Il ne se trouve à l'intérieur aucune pièce pouvant être réparée par l'utilisateur. Confiez l'entretien et la réparation de l'appareil à un réparateur Peavey agréé.

**AVIS:** Dans le but de réduire les risques d'incendie ou de décharge électrique, cet appareil ne doit pas être exposé à la pluie ou à l'humidité et aucun objet rempli de liquide, tel qu'un vase, ne doit être posé sur celui-ci. Avant d'utiliser de cet appareil, lisez attentivement le guide fonctionnant pour avertissements supplémentaires.



**Borne de terre de protection.** L'appareil doit être connecté à une prise secteur avec une connexion à la terre.



Dieses Symbol soll den Anwender vor unisolierten gefährlichen Spannungen innerhalb des Gehäuses warnen, die von Ausreichender Stärke sind, um einen elektrischen Schlag verursachen zu können.



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

**VORSICHT:** Risiko — Elektrischer Schlag! Nicht öffnen!

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

**WARNUNG:** Um elektrischen Schlag oder Brandgefahr zu verhindern, sollte dieser Apparat nicht Regen oder Feuchtigkeit ausgesetzt werden und Gegenstände mit Flüssigkeiten gefüllt, wie Vasen, nicht auf diesen Apparat gesetzt werden. Bevor dieser Apparat verwendet wird, lesen Sie bitte den Funktionsführer für weitere Warnungen.



**Schutzerdung Terminal.** Das Gerät nur an Steckdose mit Schutzleiter angeschlossen werden.



Tarkoitettu kiinnittämään käyttäjän huomio sellaiseen eristämättömään vaaralliseen jännitteeseen tuotteen kotelossa, joka saattaa olla riittävän suuri aiheuttaakseen sähköiskuvaaran.



Tarkoitettu kiinnittämään käyttäjän huomio tärkeisiin käyttö- ja huolto-ohjeisiin tuotteen mukana seuraavassa ohjeistuksessa.

**VAROITUS:** Sähköiskun vaara — ÄLÄ AVAA!

**VAROITUS:** Sähköiskuvaaran vuoksi älä poista kantta. Ei sisällä käyttäjän huollettavissa olevia osia. Huoltaminen tulee jättää pätevä huoltohenkilöstön tehtäväksi.

**VAARA:** Sähköiskun tai tulipalon vaaran estämiseksi tätä laitetta ei saa altistaa sateelle tai kosteudelle, eikä sen päälle saa asettaa nesteellä täytettyjä esineitä, kuten maljakoita. Ennen laitteen käyttöä lue muut varoitukset käyttöohjeesta.



**Suojamaadoitus terminaali.** Laite tulee kytkeä sähköverkkoon suojajohtimella.

Laite on liitettävä suojamaadoituskoskettimilla varustettuun pistorasiaan.



Är avsedd att varna användaren för förekomsten av oisolerad "farlig spänning" inom produktens hölje som kan vara av tillräcklig nivå för att personer ska riskera elektrisk stöt.



Är avsedd att uppmärksamma användaren på förekomsten av viktiga handhavande- och underhållsinstruktioner (service) i den litteratur som medföljer produkten.

**OBSERVERA:** Risk för elektrisk stöt – ÖPPNA INTE!

**OBSERVERA:** För att minska risken för elektrisk stöt, avlägsna inte höljet. Inga delar inuti kan underhållas av användaren. Låt kvalificerad servicepersonal sköta servicen.

**WARNING:** För att förebygga elektrisk stöt eller brandrisk bör apparaten inte utsättas för regn eller fukt, och föremål fyllda med vätskor, såsom vaser, bör inte placeras på denna apparat. Läs bruksanvisningen för ytterligare varningar innan denna apparat används.



**Skyddsjordning terminalen.** Apparaten skall anslutas till ett uttag med skyddande jordanslutning.

Apparaten skall anslutas till jordat uttag.



Har til hensikt å advare brukeren om tilstedeværelse av uisolert "farlig spenning" inne i produktet, som kan ha tilstrekkelig styrke til å medføre risiko for elektrisk støt for en person.



Har til hensikt å informere brukeren om tilstedeværelsen av viktige bruks- og vedlikeholds (service)-instruksjoner i litteraturen som følger med produktet.

**ADVARSEL:** Risiko for elektrisk støt — MÅ IKKE ÅPNES!

**ADVARSEL:** For å redusere risikoen for elektrisk støt må ikke dekslet fjernes. Det finnes ingen deler på innsiden som brukeren kan justere. Overlat servicearbeidet til kvalifisert servicepersonell.

**ADVARSEL:** For å hindre elektrisk støt eller brannfare må ikke dette apparatet utsettes for regn eller fuktighet, og gjenstander fylt med væske, som en vase, må ikke settes på apparatet. Før du tar apparatet i bruk må du lese bruksanvisningen for ytterligere advarsler.



**Beskyttende jordningsterminal.** Apparatet må kobles til en elektrisk kontakt med et støpsel som har skjernet jordkontakt.

Apparatet må tilkoples jordet stikkontakt.



Bedoeld om de gebruiker te attenderen op de aanwezigheid van ongeïsoleerde "gevaarlijke spanning" binnen de behuizing van het product dat van voldoende omvang kan zijn om een risico op elektrische schokken te vormen.



Bedoeld om de gebruiker te attenderen op de aanwezigheid van belangrijke gebruiks- en onderhoudsinstructies in de literatuur bij het product.

**OPGELET:** Risico op een elektrische schok - NIET OPENEN

**OPGELET:** Om het risico op elektrische schokken te verkleinen, verwijder niet het deksel. Er zijn geen voor de gebruiker bruikbare onderdelen binnenin aanwezig. Verwijs onderhoud door naar gekwalificeerd onderhoudspersoneel.

**WAARSCHUWING:** Om elektrische schokken of brandgevaar te voorkomen, stel dit apparaat mag niet bloot aan regen of vocht ' en voorwerpen gevuld met vloeistoffen, zoals vazen mogen niet op dit apparaat worden geplaatst. Lees de gebruiksaanwijzingen voor nadere waarschuwingen voordat u dit apparaat gebruikt.



**Beschermende aardklem.** Het apparaat dient te worden aangesloten op een stopcontact met een beschermend aardcontact.



Atto ad avvisare l'utente in merito alla presenza "voltage pericoloso" non isolato all'interno della scatola del prodotto che potrebbe avere una magnitudine sufficiente a costituire un rischio di scossa elettrica per le persone.



Atto ad avvisare l'utente in merito alla presenza di istruzioni operative e di assistenza importanti (manutenzione) nel libretto che accompagna il prodotto.

**ATTENZIONE:** Rischio di scossa elettrica — NON APRIRE!

**ATTENZIONE:** per ridurre il rischio di scossa elettrica, non rimuovere il coperchio. Non vi sono parti utili all'utente all'interno. Fare riferimento a personale addetto qualificato.

**AVVERTENZA:** per prevenire il rischio di scossa o il rischio di incendio, questo apparecchio non dovrebbe essere esposto a pioggia o umidità, e oggetti riempiti con liquidi, come vasi, non dovrebbero essere posizionati sopra questo apparecchio. Prima di usare questo apparecchio, leggere la guida operativa per ulteriori informazioni.



**Morsetto di terra di protezione.** L'apparecchio deve essere collegato a una presa di corrente di rete con un conduttore di terra.



Destinado a alertar o usuário da presença de "voltage perigosa" não isolada dentro do receptáculo do produto que pode ser de magnitude suficiente para constituir um risco de choque elétrico a pessoas.



Destinado a alertar o usuário da presença de instruções importantes de operação e manutenção (conserto) na literatura que acompanha o produto.

**CUIDADO:** Risco de choque elétrico — NÃO ABRA!

**CUIDADO:** Para evitar o risco de choque elétrico, não remova a cobertura. Contém peças não reparáveis pelo usuário. Entregue todos os consertos apenas a pessoal qualificado.

**ADVERTÊNCIA:** Para evitar choques elétricos ou perigo de incêndio, este aparelho não deve ser exposto à chuva ou umidade e objetos cheios de líquidos, tais como vasos, não devem ser colocados sobre ele. Antes de usar este aparelho, leia o guia de operação para mais advertências.



人体への電気ショックの危険が考えられる製品筐体内の非絶縁「危険電圧」の存在をユーザーに警告するものです。  
製品に付属している説明書に記載の重要な操作およびメンテナンス(サービス)要領の存在をユーザーに警告するものです。



注意: 電気ショックの危険あり — 開けないでください!

注意: 電気ショックの危険を低減するため、カバーを外さないでください。内部部品はユーザーによるサービス不可。資格のあるサービス要因のサービスを要請してください。

警告: 電気ショックまたは火災の危険を避けるため、この装置を雨または湿気にさらしてはなりません。また、過敏など液体を含む物をこの装置上に置いてはなりません。この装置を使用する前に、警告事項について操作ガイドをお読みください。



保護接地端子。装置は保護接地に接続している電源コンセントに接続する必要があります



三角形内帶有箭头闪电状符号意在敬告用户，表明产品内部有非绝缘的“危险电压”存在，而且具有足以致人触电的危险。



三角形内的感叹号意在警告用户，表明与机器的操作和维护（维修）有关的重要说明。

警告：触电危险—勿打开！

警告：为了避免触电危险，请勿打开机壳。机内无用户可以维修的部件。需要维修时，请与指定的专业维修人员联系。

警告：为了避免触电或火灾危险，请勿将本机置于雨中或潮湿之处。请勿将装满液体的物体，例如花瓶等置于本机之上。使用本机之前，请仔细阅读本操作说明书中的安全说明。



保 保护接地端子。设备应该连接到带有保护接地连接的电源插座。



제품의 케이스 내에 감전을 유발할 수 있는 절연되지 않은 "위험한 전압" 이 존재함을 사용자에게 알립니다. 제품과 함께 제공되는 인쇄물에 중요



한 작동 및 유지 보수 (서비스) 지침이 있음을 사용자에게 알립니다.

**주의:** 감전 위험 — 열지 마십시오!

**주의:** 감전 위험을 낮추기 위해 덮개를 제거하지 마십시오. 장치 내부에는 사용자가 직접 수리할 수 있는 부품이 없습니다. 자격을 갖춘 서비스 요원에게 서비스를 의뢰하십시오.

**경고:** 감전 또는 화재 위험을 예방하기 위해 본 기기를 비 또는 습기에 노출하거나 꽃병과 같이 액체가 들어 있는 물체를 본 기기 위에 올려놓지 마십시오. 본 기기를 사용하기 전에 추가 경고 사항에 대한 작동 설명서를 읽어 주십시오.



보호 접지 단자. 장치는 보호 접지 연결 전원 소켓 콘센트에 연결되어야



تشير لنتبيه المستخدم لوجود "تيارات كهربية خطيرة" غير معزولة داخل محتويات المنتج والتي قد تكون كافية لتسبب في تعرض الأشخاص لصدمة كهربية.

تشير لنتبيه المستخدم لوجود تعليمات تشغيل وصيانة (صيانة) مهمة داخل الكتيب المرفق مع هذا المنتج.



تحذير: خطر التعرض لصدمة كهربية - لا تفتح!

تحذير: لتقليل مخاطر التعرض لصدمة كهربية، لا تقم بإزالة الغطاء. لا توجد أجزاء قابلة للاستعمال للمستخدم بالداخل. ارجع إلى الصيانة للحصول على خدمة من الموظفين المؤهلين.


تحذير: لمنع حدوث صدمة كهربية أو مخاطر حريق، لا يجب تعريض هذا الجهاز للمطر أو الرطوبة، ولا يجب وضع الأشياء المملوءة بالسوائل، مثل الزهريات، فوقه. قبل استخدام هذا الجهاز، اقرأ دليل التشغيل لمزيد من التحذيرات.

ةقياو ضيرأتل لاصرتا عم يىأبرهكلا رايتلا نذخأم نفنم ىلإ زا هجال الصرتم نولت نأ بجي .ةيىأقولا تيضرأ قطحم



# IMPORTANT SAFETY INSTRUCTIONS

**WARNING:** When using electrical products, basic cautions should always be followed, including the following:

1. Read these instructions.
2. Keep these instructions.
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. 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 plug. 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. 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 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. Write for our free booklet "Shock Hazard and Grounding." 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 colors 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 colored green and yellow must be connected to the terminal that is marked by the letter E, the earth symbol, colored green or colored green and yellow. b) The wire that is colored blue must be connected to the terminal that is marked with the letter N or the color black. c) The wire that is colored brown must be connected to the terminal that is marked with the letter L or the color 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. The on/off switch in this unit does not break both sides of the primary mains. Hazardous energy can be present inside the chassis when the on/off switch is in the off position. The mains plug or appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.
20. 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:




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 or less	115

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.

**SAVE THESE INSTRUCTIONS!**

# INSTRUCCIONES IMPORTANTES PARA SU 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 una tela seca.
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. No retire la patilla protectora del enchufe polarizado o de tipo "a Tierra". Un enchufe polarizado tiene dos puntas, una de ellas más ancha que la otra. Un enchufe de tipo "a Tierra" tiene dos puntas y una tercera "a Tierra". La punta ancha (la tercera) se proporciona para su seguridad. Si el enchufe proporcionado no encaja en su enchufe de red, consulte a un electricista para que reemplaze su enchufe obsoleto.
10. Proteja el cable de alimentación para que no sea pisado o pinchado, particularmente en los enchufes, huecos, y los puntos que salen del aparato.
11. Usar solamente añadidos/accesorios proporcionados por el fabricante.
12.  Usar solamente un carro, pie, trípode, 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. No suspenda esta caja de ninguna manera.
13. Desenchufe este aparato durante tormentas o cuando no sea usado durante 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. Escribanos para obtener nuestro folleto gratuito "Shock Hazard and Grounding" ("Peligro de Electrocuación y Toma a 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 enracado con más equipo, 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 amarillo 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. El interruptor de en/lejos en esta unidad no rompe ambos lados de la red primaria. La energía peligrosa puede ser presente dentro del chasis cuando el interruptor de en/lejos está en el de la posición. El tapón de la red o el acoplador del aparato son utilizados como el desconecta dispositivo, el desconecta dispositivo se quedará fácilmente operable.
20. 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:



Duración por Día en Horas	Nivel de Sonido dBA, Respuesta Lenta
8	90
6	92
4	95
3	97
2	100
1 ½	102
1	105
½	110
¼ o menos	115


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.

**GUARDE ESTAS INSTRUCCIONES!**

## INSTRUCTIONS IMPORTANTES DE SECURITE

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



1. Lire 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 cette unité proche de plans d'eau.
6. N'utilisez qu'un tissu sec pour le nettoyage de votre unité.
7. N'obstruez pas les systèmes de refroidissement de votre unité et installez votre unité en fonction des instructions de ce manuel.
8. Ne positionnez pas votre unité à proximité de toute source de chaleur.
9. Connectez toujours votre unité sur une alimentation munie de prise de terre utilisant le cordon d'alimentation fourni.
10. Protégez les connecteurs de votre unité et positionnez les cablages pour éviter toutes déconnexions accidentelles.
11. N'utilisez que des fixations approuvées par le fabricant.
12.  Lors de l'utilisation sur pied ou poteau de support, assurez dans le cas de déplacement de l'ensemble enceinte/support de prévenir tout basculement intempestif de celui-ci.
13. Il est conseillé de déconnecter du secteur votre unité en cas d'orage ou de durée prolongée sans utilisation.
14. Seul un technicien agréé par le fabricant est à même de réparer/contrôler votre unité. Celle-ci doit être contrôlée si elle a subi des dommages de manipulation, d'utilisation ou de stockage (humidité,...).
15. Ne déconnectez jamais la prise de terre de votre unité.
16. Si votre unité est destinée à être montée en rack, des supports arrière doivent être utilisés.
17. Note pour les Royaumes-Unis: Si les couleurs de connecteurs du câble d'alimentation ne correspondent pas au guide de la prise secteur, procédez comme suit: a) Le connecteur vert et jaune doit être connecté au terminal noté E, indiquant la prise de terre ou correspondant aux couleurs verte ou jaune du guide. b) Le connecteur Bleu doit être connecté au terminal noté N, correspondant à la couleur noire du guide. c) Le connecteur marron doit être connecté au terminal noté L, correspondant à la couleur rouge du guide.
18. Cet équipement électrique ne doit en aucun cas être en contact avec un quelconque liquide et aucun objet contenant un liquide, vase ou autre ne devrait être posé sur celui-ci. 1
9. L'interrupteur (on-off) dans cette unité ne casse pas les deux côtés du primaire principal. L'énergie hasardeuse peut être présente dans le châssis quand l'interrupteur (on-off) est dans le de la position. Le bouchon principal ou atelage d'appareil est utilisé comme le débrancher l'appareil restera facilement opérable.
20. Une exposition à de hauts niveaux sonores peut conduire à des dommages de l'écoute irréversibles. La susceptibilité au bruit varie considérablement d'un individu à l'autre, mais une large majorité de la population expérimentera une perte de l'écoute après une exposition à une forte puissance sonore pour une durée prolongée. L'organisme de la santé américaine (OSHA) a produit le guide ci-dessous en rapport à la perte occasionnée:


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

D'après les études menées par le OSHA, toute exposition au delà des limites décrites ci-dessus entraînera des pertes de l'écoute chez la plupart des sujets. Le port de système de protection (casque, oreillette de filtrage,...) doit être observé lors de l'opération cette unité ou 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-dessus.

**GARDEZ CES INSTRUCTIONS!**

## WICHTIGE SICHERHEITSHINWEISE

**SICHERHEITSHINWEISEACHTUNG:** 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. Installieren Sie das Gerät nicht neben Wärmequellen wie Heizungen, Heizgeräten, Öfen oder anderen Geräten (auch Verstärkern), die Wärme erzeugen.
9. Beeinträchtigen Sie nicht die Sicherheitswirkung des gepolten Steckers bzw. des Erdungssteckers. Ein gepolter Stecker weist zwei Stifte auf, von denen einer breiter ist als der andere. Ein Erdungsstecker weist zwei Stifte und einen dritten Erdungsstift auf. Der breite Stift bzw. der dritte Stift dient Ihrer Sicherheit. Sollte der beiliegende Stecker nicht in Ihre Steckdose passen, wenden Sie sich bitte an einen Elektriker, um die ungeeignete Steckdose austauschen zu lassen.
10. Schützen Sie das Netzkabel, sodass niemand darauf tritt oder es geknickt wird, insbesondere an Steckern oder Buchsen und ihren Austrittsstellen aus dem Gerät.
11. Verwenden Sie nur die vom Hersteller erhältlichen Zubehörgeräte oder Zubehörteile.
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 er nicht umkippt und möglicherweise jemand verletzt wird.
13. Trennen Sie das Gerät während eines Gewitters oder während längerer Zeiträume, in denen es nicht benutzt wird, von der Stromversorgung.
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. Der Erdungsstift darf nie entfernt werden. Auf Wunsch senden wir Ihnen gerne unsere kostenlose Broschüre „Shock Hazard and Grounding“ (Gefahr durch elektrischen Schlag und Erdung) zu. Schließen Sie nur an die Stromversorgung der Art 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.
17. Hinweis – Nur für Großbritannien: Sollte die Farbe der Drähte in der Netzleitung dieses Geräts nicht mit den Klemmen in Ihrem Stecker übereinstimmen, gehen Sie folgendermaßen vor: a) Der grün-gelbe Draht muss an die mit E (Symbol für Erde) markierte bzw. grüne oder grün-gelbe Klemme angeschlossen werden. b) Der blaue Draht muss an die mit N markierte bzw. schwarze Klemme angeschlossen werden. c) Der braune Draht muss an die mit L markierte bzw. rote Klemme angeschlossen 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. Der Netzschalter in dieser Einheit bricht beide Seiten von den primären Hauptleitungen nicht. Gefährliche Energie kann anwesend innerhalb des Chassis sein, wenn der Netzschalter im ab Position ist. Die Hauptleitungen stöpseln zu oder Gerätekupplung ist benutzt, während die Vorrichtung abschaltet, das schaltet Vorrichtung wird bleiben sogleich hantierbar ab.
20. 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-Arbeitsschutzbehörde (Occupational and Health Administration, OSHA) hat die folgenden zulässigen Pegel für Lärmbelastung festgelegt:



Dauer pro Tag in Stunden	Geräuschpegel dBA, 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


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 Schutzvorrichtungen 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.

**BEWAHREN SIE DIESE SICHERHEITSHINWEISE AUF!**



# TÄRKEÄT TURVALLISUUSOHJEET

**VAARA:** Käytettäessä sähkölaitteita tulee aina huomioida mm. seuraavat turvallisuusohjeet:

1. Lue nämä ohjeet.
2. Säilytä nämä ohjeet.
3. Huomioi kaikki varoitukset.
4. Noudata kaikkia ohjeita.
5. Älä käytä laitetta veden lähellä.
6. Puhdista vain kuivalla kankaalla.
7. Älä tuki mitään tuuletusaukkoja. Asenna valmistajan ohjeiden mukaisesti.
8. Älä asenna lämpölähteiden, kuten pattereiden, liesien tai muiden lämpöä tuottavien laitteiden (kuten vahvistinten) lähelle.
9. Älä poista polarisoidun tai maadoitustyyppisen tulpan suojausta. Polaroidun tulpan toinen napa on leveämpi kuin toinen. Maadoitustulpassa on kaksi napaa ja kolmas maadoitusnapa. Leveä napa ja maadoitusnapa on tarkoitettu turvaamaan laitteen käyttöä. Jos mukana toimitettu tulppa ei sovi pistorasiaan, kutsu sähkömies vaihtamaan pistorasia, sillä se on vanhentunut.
10. Suojaa virtajohto päälle kävelemiseltä ja nipistykseltä, erityisesti pistotulppien, pistorasioiden sekä laitteen ulosvientien kohdalla.
11. Käytä vain valmistajan toimittamia lisälaitteita.
12.  Käytä vain valmistajan määrittämän tai laitteen mukana myydyin vaunun, jalustan, kolmijalan, kiinnikkeen tai pöydän kanssa. Käytettäessä vaunua liikuta vaunun ja laitteen yhdistelmää varovasti, jotta vältetään loukkaantumiset kaatumisesta johtuen.
13. Irrota laite sähköverkosta ukkosmyrskyjen aikana tai jos laitetta ei käytetä pitkään aikaan.
14. Huoltaminen tulee jättää pätevän huoltohenkilöstön tehtäväksi. Huoltoa tarvitaan, kun laite on jollakin tavoin vioittunut, esim. virtalähteen johto tai pistoke on vioittunut, laitteen sisään on joutunut nestettä tai esineitä, laite on altistettu sateelle tai kosteudelle, laite ei toimi normaalisti tai se on pudonnut.
15. Älä koskaan katkaise maadoitusnastaa. Ottamalla meihin yhteyttä saat kirjasen "Sähköiskuvaara ja maadoitus". Kytke vain virtalähteeseen, joka vastaa laitteen virtajohtoon viereen merkittyä tyyppiä.
16. Jos laite kiinnitetään laiteräkkiin, tulee se tukea takaosastaan.
17. Note for UK only: If the colors 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 colored green and yellow must be connected to the terminal that is marked by the letter E, the earth symbol, colored green or colored green and yellow.
  - b) The wire that is colored blue must be connected to the terminal that is marked with the letter N or the color black.
  - c) The wire that is colored brown must be connected to the terminal that is marked with the letter L or the color red.
18. Tätä sähkölaitetta ei tule altistaa nestetipoille tai roiskeille, eikä laitteen päälle saa asettaa nestettä sisältäviä esineitä, kuten maljakoita.
19. Laitteen virtakytkin ei katkaise ensiövirran molempia puolia. Laitteen sisällä voi olla vaarallinen jännite, kun virtakytkin on pois-asennossa. Virtajohto toimii pääkytkimenä, ja sen pitää olla aina käytettävissä.
20. Altistus erittäin korkeille äänitasoille voi aiheuttaa pysyvän kuulovaurion. Henkilöiden alttius melun aiheuttamille kuulovaurioille vaihtelee, mutta lähes kaikkien kuulo vaurioituu altistuttaessa riittävän kovalle melulle riittävän kauan. Yhdysvaltain hallituksen työturvallisuus- ja terveyshallinto (OSHA) on määrittänyt seuraavat hyväksyttävät melutasoaltistukset:

Kesto päivää kohti tunteina	Äänitaso dBA, hidas vaste
8	90
6	92
4	95
3	97
2	100
1 1/2	102
1	105
1/2	110
1/4 tai alle	115

OSHA:n mukaan altistus yo. tasoja korkeammalle määrälle voi aiheuttaa osittaisen kuulon menetyksen. Käytettäessä vahvistinjärjestelmää tulee kuulovaurioiden estämiseksi käyttää korvatulppia tai kuulosuojaimia, mikäli altistus ylittää yllä asetetut rajat. Jotta vältetään mahdollisesti vaarallinen altistus korkeille äänenpaineen tasoille, suositellaan, että kaikki korkeaa äänenpainetta tuottavien laitteiden, kuten tämän vahvistimen, lähistöllä olevat henkilöt suojaavat kuulonsa, kun laite on käytössä.

## SÄILYTÄ NÄMÄ OHJEET!



# VIKTIGA SÄKERHETSINSTRUKTIONER

**VARNING:** När du använder elektriska produkter ska grundläggande försiktighetsåtgärder iakttas, inklusive följande:

1. Läs dessa instruktioner.
2. Behåll dessa instruktioner.
3. Iakttag alla varningar.
4. Följ alla instruktioner.
5. Använd inte apparaten i närheten av vatten.
6. Rengör endast med en torr trasa.
7. Blockera inte ventilationsöppningarna. Installera i enlighet med tillverkarens instruktioner.
8. Installera inte i närheten av värmekällor som radiatorer, varmluftsventiler, spisar eller andra apparater (inklusive förstärkare) som ger ifrån sig värme.
9. Motverka inte säkerhetsfunktionen hos en jordad stickkontakt. En jordad stickkontakt har två stift och metallbleck på sidorna. Metallblecket finns där för din säkerhet. Kontakta en elektriker för utbyte av det föråldrade vägguttaget om den medföljande stickkontakten inte passar i ditt vägguttag.
10. Skydda strömsladden från att klivas på eller klämmas, särskilt vid kontakten, grenuttag och platsen där den lämnar apparaten.
11. Använd enbart tillsatser/tillbehör som tillhandahålls av tillverkaren.
12.  Använd endast med en kärra, ställ, trefot, fäste eller bord i enlighet med tillverkarens specifikationer, eller som säljs tillsammans med apparaten. Var försiktig när du använder en kärra så att inga personskador uppstår på grund av att kombinationen kärra-apparat välter när den flyttas.
13. Koppla ur apparaten vid åskväder eller när den inte används under en längre tid.
14. Låt kvalificerad servicepersonal sköta all service. Service krävs om apparaten har skadats på något vis, till exempel om strömsladden eller stickkontakten har skadats, vätska har spillts eller föremål har fallit ner i apparaten, apparaten har utsatts för regn eller fukt, inte fungerar normalt eller har tappats.
15. Anslut aldrig till ojordade uttag. Skriv till oss för vårt gratishäfte "Stötrisk och jordning". Anslut endast till en strömkälla av samma typ som enhetens märkning anger (bredvid strömsladden).
16. Om produkten ska monteras i ett utrustningsrack bör bakre stöd användas.
17. Note for UK only: If the colors 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 colored green and yellow must be connected to the terminal that is marked by the letter E, the earth symbol, colored green or colored green and yellow.
  - b) The wire that is colored blue must be connected to the terminal that is marked with the letter N or the color black.
  - c) The wire that is colored brown must be connected to the terminal that is marked with the letter L or the color red.
18. Denna elektriska apparat bör inte utsättas för dropp eller stänk och försiktighet bör iakttas så att inte föremål som innehåller vätskor, såsom vaser, placeras ovanpå apparaten.
19. Enhetens strömbrytare bryter inte båda sidor av strömkretsen. Farlig energi kan förekomma inuti höljet när strömbrytaren är i av-läget. Stickkontakten eller apparatkontakten fungerar som bortkopplingsenhet, bortkopplingsenheten ska hållas lättillgänglig.
20. Extremt höga ljudnivåer kan orsaka permanent hörselskada. Olika personer skiljer sig åt i benägenhet att få hörselskador av ljud, men i princip alla får hörselskador om de utsätts för tillräckligt höga ljud under tillräcklig tid. Den amerikanska regeringens arbets- och hälsoförvaltning (OSHA) har angivit följande maxnivåer för tillåten exponering för ljud:




Längd per dag i timmar	Ljudnivå dBA, långsam svarstid
8	90
6	92
4	95
3	97
2	100
1 1/2	102
1	105
1/2	110
1/4 eller mindre	115

Enligt OSHA kan exponering utöver ovanstående tillåtna gränser orsaka hörselskador. Öronproppar eller skydd för hörselgången eller över öronen måste bäras när detta förstärkarsystem används för att förebygga permanenta hörselskador, om exponeringen överskrider gränsvärdena enligt ovan. För att skydda mot potentiellt farlig exponering för höga ljudtrycksnivåer rekommenderas det att personer som exponeras för utrustning som kan producera höga ljudtrycksnivåer såsom detta förstärkarsystem skyddas med hörselskydd när enheten är i drift.

**SPARA DESSA INSTRUKTIONER!**

# VIKTIGE SIKKERHETSINSTRUKSJONER

**ADVARSEL:** Ved bruk av et elektrisk apparat må grunnleggende forsiktighetsregler følges, inklusive de følgende:

1. Les disse instruksjonene.
2. Ta vare på disse instruksjonene.
3. Følg alle advarslene.
4. Følg alle instruksjoner.
5. Ikke bruk apparatet i nærheten av vann.
6. Rengjør bare med en tørr klut.
7. Ikke blokker noen av ventilasjonsåpningene. Installer i henhold til produsentens instruksjoner.
8. Ikke installer i nærheten av en varmekilde som radiatorer, varmekanaler, ovn er eller andre apparater (inklusive forsterkere) som utvikler varme.
9. Ikke reduserer sikkerhetshensiktene med polariserte eller jordede støpsler. Et polarisert støpsel har to blader, der det ene er bredere enn det andre. Et støpsel med jording har to blader og en tredje jordingsplugg. Det brede bladet eller den tredje pluggen er der for å gi deg beskyttelse. Hvis det medfølgende støpslet ikke passer inn i den elektriske kontakten der du bor, kontakt en elektriker for å få støpslet skiftet.
10. Beskytt den elektriske ledningen mot å bli trådt på eller klemt, spesielt ved støpslet, stikkkontakten og punktet der den kommer ut av apparatet.
11. Bruk bare tilkoblinger/tilbehør som er levert av produsenten.
12.  Bruk bare med vogn, stativ, tripod, brakett eller bord spesifisert av produsenten eller solgt sammen med apparatet. Når det benyttes en vogn, vis forsiktighet når vogn/apparat flyttes for å unngå skade som følge av et felt.
13. Trekk ut ledningen til apparatet under tordenvær eller når det skal stå ubrukt over en lengre periode.
14. Overlat servicearbeidet til kvalifisert servicepersonell. Service er påkrevet når apparatet har vært utsatt for skade, som at den elektriske ledningen eller støpslet er skadet, væske er blitt sølt over apparatet eller en gjenstand har falt ned i apparatet, apparatet har vært utsatt for regn eller fuktighet, at det ikke virker normalt eller har falt i gulvet.
15. Bryt aldri av jordingsspinnen. Skriv etter gratis hefte "Shock Hazard and Grounding" (Fare for elektrisk støt og jording). Tilkoble bare elektriske anlegg av den typen som er angitt på enheten ved siden av den elektriske ledningen.
16. Hvis dette produktet skal plasseres i en utstyrreol må det etableres støtte på baksiden.
17. Note for UK only: If the colors 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 colored green and yellow must be connected to the terminal that is marked by the letter E, the earth symbol, colored green or colored green and yellow. b) The wire that is colored blue must be connected to the terminal that is marked with the letter N or the color black. c) The wire that is colored brown must be connected to the terminal that is marked with the letter L or the color red.
18. Dette elektriske apparatet må ikke utsettes for drypp eller sprut fra væske, og det må utvises forsiktighet slik at det ikke plasseres gjenstander fylt med vann - som en vase - på apparatet.
19. På/av-bryteren på denne enheten bryter ikke begge sider av den primære strømkretsen. Farlig strøm kan finnes på innsiden av chassiset også når På/Av-bryteren er i posisjon Av. Det elektriske støpslet eller utstyrskoblingen brukes som frakoblingsutstyr, frakoblingsutstyret skal være lett å komme til og bruke.
20. Eksposering mot ekstremt høyt støynivå kan føre til permanent tap av hørsel. Det er betydelige individuelle forskjeller hva gjelder den enkeltes ømfintlighet hva gjelder støypåført tap av hørsel, men nesten alle vil tape noe hørsel dersom de utsettes for tilstrekkelig intens støy over en tilstrekkelig lang periode. U.S. Governments Occupational Safety and Health Administration (OSHA) har spesifisert følgende tillatte støynivåeksponeringer:



Varighet pr. dag i timer	Lydnivå dBA, sakte respons
8	90
6	92
4	95
3	97
2	100
1 1/2	102
1	105
1/2	110
1/4 eller mindre	115

I henhold til OSHA vil enhver eksponering ut over de ovenstående tillatte grensene kunne føre til noe tap av hørsel. Ørepropper eller beskyttelse av ørekanalene eller over ørene må anvendes når dette forsterkersystemet brukes for å hindre permanent tap av hørsel dersom eksponeringen overskrider grensene som vises ovenfor. For å beskytte mot potensielt farlig eksponering til høyt lydtryknivåer anbefales det at alle personer som eksponeres mot utstyr som er i stand til å produsere høye lydtryknivåer som dette forsterkersystemet må beskyttes av hørselsvern mens denne enheten er i bruk.

**OPPBEVAR DISSE INSTRUKSJONENE**

# BELANGRIJKE VEILIGHEIDSINSTRUCTIES

**WAARSCHUWING:** Bij gebruik van elektrische producten, moeten elementaire voorzorgsmaatregelen altijd worden opgevolgd, waaronder het volgende:

1. Lees deze gebruiksaanwijzing.
2. Bewaar deze gebruiksaanwijzing.
3. Besteed aandacht aan alle waarschuwingen.
4. Volg alle instructies op.
5. Gebruik dit apparaat niet in de buurt van water.
6. Reinig het alleen met een droge doek.
7. Blokkeer geen ventilatieopeningen. Installeer volgens de instructies van de fabrikant.
8. Installeer niet in de buurt van warmtebronnen zoals radiatoren, kachels, ovens of andere apparaten (inclusief versterkers) die warmte produceren.
9. Omzeil nooit de veiligheidsvoorziening van de gepolariseerde of geaarde stekker. Een gepolariseerde stekker heeft twee bladen, waarvan er één breder is dan de andere. Een geaarde stekker heeft twee bladen en een derde aardingspen. Het bredere blad of de derde pen is bedoeld voor uw veiligheid. Mocht de geleverde stekker niet in uw stopcontact passen, raadpleeg dan een elektricien voor het vervangen van het verouderde stopcontact.
10. Bescherm het netsnoer zodat er niet over gelopen kan worden of bekneeld kan raken, vooral bij stekkers, stopcontacten en het punt waar ze het apparaat verlaten.
11. Gebruik alleen aansluitstukken/accessoires geleverd door de fabrikant.
12.  Gebruik uitsluitend een wagentje, standaard, statief, beugel of tafel die door de fabrikant wordt aanbevolen of bij het apparaat wordt verkocht. Wanneer u een wagentje gebruikt, wees dan voorzichtig bij het verplaatsen van de combinatie wagen/apparaat en voorkom letsel door omvallen.
13. Haal de stekker van dit apparaat uit het stopcontact tijdens bliksem of wanneer het apparaat gedurende lange perioden niet gebruikt wordt.
14. Laat al het onderhoud uitvoeren door gekwalificeerd onderhoudspersoneel. Onderhoud is nodig wanneer het apparaat op enige wijze beschadigd is, zoals het netsnoer of de stekker is beschadigd, er vloeistof in het apparaat is gemorst of voorwerpen in zijn terechtgekomen, het apparaat aan regen of vocht is blootgesteld, niet normaal werkt, of is gevallen.
15. Breek nooit de aardingspen af. Raadpleeg ons gratis boekje "Schokgevaar en aarding". Sluit alleen op een voedingsspanning aan van het type aangegeven op het apparaat naast het netsnoer.
16. Als dit product in een apparatuurrek gemonteerd moet worden, moet voor achterondersteuning worden verzorgd.
17. Note for UK only: If the colors 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 colored green and yellow must be connected to the terminal that is marked by the letter E, the earth symbol, colored green or colored green and yellow. b) The wire that is colored blue must be connected to the terminal that is marked with the letter N or the color black. c) The wire that is colored brown must be connected to the terminal that is marked with the letter L or the color red.
18. Dit elektrisch apparaat mag niet aan drui- of spatwater worden blootgesteld en er moet op gelet worden dat geen voorwerpen gevuld met vloeistoffen, zoals vazen, op het apparaat worden geplaatst.
19. De aan/uit-schakelaar van dit apparaat onderbreekt niet beide contacten van het lichtnet. Gevaarlijke spanning kan binnenin het chassis aanwezig zijn ondanks dat de aan/uit-schakelaar op uit staat. De stekker van het apparaat wordt gebruikt als onderbrekingsmechanisme, het onderbrekingsmechanisme dient eenvoudig bedienbaar te blijven.
20. Blootstelling aan extreem hoge geluidsniveaus kan permanent gehoorverlies veroorzaken. Individuen verschillen in gevoeligheid voor gehoorverlies door lawaai geïnduceerd, maar bijna iedereen zal enig gehoor verliezen indien voor een bepaalde duur aan voldoende intens lawaai blootgesteld. De Occupational Safety and Health Administration (OSHA) van de Amerikaanse regering heeft de volgende blootstellingen aan toelaatbaar lawaainiveau gespecificeerd:




Duur per dag In uren	Geluidsniveau dBA, trage reactie
8	90
6	92
4	95
3	97
2	100
1 1/2	102
1	105
1/2	110
1/4 of minder	115

Volgens OSHA, kan elke blootstelling boven de bovengenoemde toelaatbare grenswaarden tot enige gehoorverlies leiden. Oordoppen of -beschermers in de oorkanalen of over de oren moeten bij het bedienen van dit versterkersysteem worden gedragen om een permanent gehoorverlies te voorkomen, indien blootstelling boven de grenzen zoals hierboven zijn vermeld. Om potentieel gevaarlijke blootstelling aan hoge geluidsdruk te voorkomen, is het raadzaam om alle personen die aan apparatuur worden blootgesteld die in staat is om hoge geluidsdruk te produceren, zoals dit versterkersysteem, met gehoorbeschermers te beschermen wanneer dit apparaat in bedrijf is.

**BEWAAR DEZE INSTRUCTIES!**

**IMPORTANTI NORME DI SICUREZZA:**

**ATTENZIONE:** Durante uso di apparecchiature elettriche vanno osservate alcune precauzioni basilari, tra cui le seguenti:

1. Leggete queste istruzioni.
2. Conservate le istruzioni.
3. Rispettate tutte le avvertenze.
4. Seguite le istruzioni.
5. Non usate questo prodotto vicino all'acqua.
6. Pulite esclusivamente con un panno asciutto.
7. Non ostruite le fessure di ventilazione. Installate il dispositivo seguendo le istruzioni del produttore.
8. Il prodotto va collocato lontano da sorgenti di calore quali radiatori, pompe di calore, stufe o altri dispositivi che generano calore (compresi gli amplificatori).
9. Non eliminate i dispositivi di sicurezza come spine polarizzate o con messa a terra. La spina polarizzata ha due lame, una più grande dell'altra. La spina con messa a terra ha due contatti più un terzo per la terra. Il contatto più largo o terzo polo è indispensabile per la vostra sicurezza. Se la spina fornita non adatta alla vostra presa, mettetevi in contatto con un elettricista per la sostituzione della presa obsoleta.
10. Fate attenzione a non camminare o incastrare il cavo di alimentazione, soprattutto in prossimità della spina o del punto in cui si collega all'apparecchiatura.
11. Usate solo accessori originali forniti dal costruttore.
12.  L'apparato va usato esclusivamente con il supporto indicato dal produttore o venduto con l'apparato. Se intendete adoperare un carrello su ruote, fate attenzione quando spostate apparecchio e supporto per evitare che la loro caduta possa causare danni a cose o persone.
13. Scollegatelo l'apparecchio dalla presa di corrente durante un temporale con fulmini o quando non s'intende usare per un lungo periodo.
14. L'assistenza va eseguita esclusivamente da personale autorizzato. È necessario ricorrere all'assistenza se il dispositivo ha subito danni, per esempio si sono rovinati il cavo di alimentazione o la spina, all'interno è caduto del liquido o un oggetto, il dispositivo è rimasto esposto alla pioggia o all'umidità, non funziona normalmente o è caduto a terra.
15. Non rimuovete lo spinotto della terra. Collegate il dispositivo esclusivamente a una presa di corrente del tipo indicato accanto alla targhetta posta vicino al cavo di alimentazione.
16. Se questo prodotto deve essere montato a rack, è necessario sostenerlo anche nella parte posteriore.
17. Nota per UK: Se i colori dei fili nel cavo di alimentazione per questa unità non corrispondono con i terminali della vostra spina, procedere come segue: a) Il filo di colore verde/giallo deve essere collegato al terminale che marcato con lettera E, o simbolo di terra, o colore verde o verde/giallo. b) Il filo di colore blu deve essere collegato al terminale marcato con la lettera N o di colore Nero. c) Il filo di colore marrone deve essere collegato al terminale marcato con la lettera L o di colore Rosso.
18. Questo apparato elettrico non deve essere esposto a gocce o schizzi, va in ogni caso evitato di appoggiare oggetti contenenti liquidi, come bicchieri, sull'apparecchio.
19. L'interruttore on/off in questa unità non interrompe entrambi i lati della rete di alimentazione. All'interno dell'apparecchio può essere presente elettricità anche con interruttore on/off in posizione off. La spina o il cavo di alimentazione è utilizzato come sezionatore, il dispositivo di sezionamento deve restare sempre operativo.
20. L'esposizione a livelli di volume molto elevati può causare la perdita permanente dell'udito. La predisposizione alla perdita dell'udito causata da livelli elevati di volume varia notevolmente da persona a persona, ma quasi tutti subiscono una perdita di udito almeno parziale se soggetti a volume di livello elevato per un tempo sufficientemente lungo. L'ufficio Lavoro e Salute del governo degli USA (OSHA) ha elaborato la seguente tabella di tolleranza ai rumori:




Esposizione giornaliera in ore	Livello sonoro dBA, Slow response
8	90
6	92
4	95
3	97
2	100
1 1/2	102
1	110
1/4 o minore	115

Secondo l'OSHA, l'esposizione a livelli di volume al di sopra dei limiti stabiliti può causare una perdita almeno parziale dell'udito. Quando si adopera questo sistema di amplificazione, è necessario indossare auricolari o apposite protezioni per il condotto auditivo, per evitare la perdita permanente dell'udito se l'esposizione supera i limiti sopra riportati. Per evitare di esporvi al rischio di danni derivanti da elevati livelli di pressione sonora, si raccomanda di adoperare delle protezioni per gli orecchi quando si usano attrezzature in grado di produrre elevati livelli sonori, come quest'amplificatore.

**CONSERVATE QUESTE ISTRUZIONI!**

## INSTRUÇÕES IMPORTANTES DE SEGURANÇA

**ADVERTÊNCIA:** Ao usar eletrodomésticos, precauções básicas devem sempre ser seguidas, incluindo as seguintes:

1. Leia estas instruções.
2. Mantenha estas instruções.
3. Preste atenção a todas as advertências.
4. Siga todas as instruções.
5. Não use este aparelho perto d'água.
6. Limpe somente com um pano seco.
7. Não obstrua nenhuma das aberturas de ventilação. Instale de acordo com as instruções do fabricante.
8. Não instale perto de nenhuma fonte de calor tais como radiadores, registros de calor, fogões ou outros aparelhos (incluindo amplificadores) que produzam calor.
9. Não desafie o propósito de segurança do plugue polarizado ou do tipo aterrado. Um plugue polarizado tem duas lâminas com uma mais larga que a outra. Um plugue do tipo aterrado tem duas lâminas e um terceiro plugue terra. A lâmina larga ou o terceiro pino são fornecidos para sua segurança. Se o plugue disponibilizado não couber em sua tomada, consulte um electricista para troca da tomada obsoleta.
10. Proteja o cabo de energia para não ser pisado ou espremido principalmente em plugues, recipientes e o ponto de onde sai do aparelho.
11. Use apenas conexões/acessórios fornecidos pelo fabricante.
12.  Use apenas um carrinho, banqueta, tripé, suporte, ou mesa especificado pelo fabricante, ou vendido com o aparelho. Quando um carrinho for usado, tome cuidado ao mover a combinação carrinho/aparelho para evitar ferimentos por tombamento.
13. Tire esse aparelho da tomada durante tempestades de raios ou quando for ficar sem usar por longos períodos de tempo.
14. Entregue todos os consertos apenas a pessoal qualificado. O conserto é necessário quando o aparelho tiver sofrido qualquer dano, tais como o cabo de energia ou plugue estiverem danificados, líquidos tenham sido derramados ou objetos tenham caído no aparelho, o aparelho tenha sido submetido à chuva ou umidade, não funcionar normalmente, ou tenha sido deixado cair.
15. Nunca quebre fora o pino terra. Escreva pedindo nosso livreto grátis "Perigos de Choque e Aterramento." Ligue apenas a um suprimento de energia do tipo marcado na unidade adjacente ao fio de fornecimento de energia.
16. Se este produto for ser montado em uma estante para equipamentos, deve ser montado um suporte traseiro.
17. Note for UK only: If the colors 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 colored green and yellow must be connected to the terminal that is marked by the letter E, the earth symbol, colored green or colored green and yellow.
  - b) The wire that is colored blue must be connected to the terminal that is marked with the letter N or the color black.
  - c) The wire that is colored brown must be connected to the terminal that is marked with the letter L or the color red.
18. Este aparelho elétrico não deve ser exposto a pingos ou respingos e deve ser tomado cuidado para não colocar objetos contendo líquidos, tais como vasos, sobre o aparelho.
19. O comutador liga/desliga nesta unidade não interrompe ambos os lados da rede elétrica primária. Energia perigosa pode estar presente dentro do chassi quando o comutador liga/desliga estiver na posição desligado. O plugue de alimentação ou um dispositivo de união é usado como dispositivo de desligamento, o dispositivo de desligamento deve permanecer pronto para funcionar.
20. Exposição a níveis de barulho extremamente altos podem causar perda permanente de audição. As pessoas variam consideravelmente em susceptibilidade a perda de audição causada por ruídos, mas quase todo mundo vai perder algo da audição se exposto a ruído suficientemente intenso por tempo suficiente. A Administração de Segurança Ocupacional e Saúde americana (OSHA) especificou os seguintes níveis permissíveis de exposição a ruído:

Duração Por Dia Em Horas	dBA de 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 ou menos	115


De acordo com a OSHA, qualquer exposição excedente aos limites permissíveis acima pode resultar em alguma perda de audição. Tampões de ouvido ou protetores sobre os canais do ouvido ou sobre as orelhas precisam ser usados ao operar este sistema de amplificação para poder evitar uma perda permanente de audição, se a exposição for em excesso aos limites acima estabelecidos. Para assegurar contra exposição perigosa potencial a níveis de alta pressão de ruído, é recomendado que todas as pessoas expostas a equipamento capaz de produzir níveis de alta pressão de ruído tais como este sistema de amplificação estejam protegidas por protetores de ouvido enquanto esta unidade estiver em funcionamento.

**GUARDE ESSAS INSTRUÇÕES!**



# 安全のための重要事項

警告: 電気製品を使用するときは、次の項目を含め、基本的な注意事項を常にお守りください。

1. 本書の指示内容をお読みください。
2. 本書は保管してください。
3. すべての警告に注意してください。
4. すべての指示に従ってください。
5. 本装置を水の近くで使用しないでください。
6. お手入れには乾いた布をお使いください。
7. 開口部をふさがないようにください。メーカーの指示に従って設置してください。
8. ラジエータ、ストーブなど (アンプを含む)、発熱体の近くに設置しないでください。
9. 分極プラグや接地プラグの安全性を損なわないようにしてください。分極プラグの2つのブレードは、一方が他より幅広くなっています。接地式のプラグには2つのブレードと接地プラグがあります。幅広のブレードや接地プラグは安全のために付けられています。所定のプラグがコンセントなどに合わない場合、旧式のコンセントなどの交換について技術者に問い合わせてください。
10. 電源コードを踏んだり挟んだりしないように保護してください。特にプラグ、コンセント、装置から出る部分を保護してください。
11. 備品/付属品はメーカーのものを使用してください。
12.  カート、スタンド、三脚、ブラケット、テーブルなどは、メーカー指定のもの、または装置とともに販売されているものを使用してください。カートを使用するときは、カートと装置を動かしたときに横転などでケガをしないよう注意してください。
13. 落雷の恐れのある嵐のとき、または長期間使用しないときは本装置の電源を外してください。
14. 保守作業はすべて資格のあるサービス担当者に依頼してください。保守作業が必要になるのは、装置が故障した場合、たとえば、電源コードやプラグが破損、装置に液体がかかる。物が落ちる、雨など湿度の影響を受ける、正常に動作しない、落下した場合などです。
15. グランドピン (接地ピン) は決して取り外さないでください。フリーブックレット「感電と接地」を入手してください。装置の電源コードの横に記載されているタイプの電源にのみ接続してください。
16. 本製品をラックに載せる場合は、背面を支持するものがが必要です。
17. Note for UK only: If the colors 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 colored green and yellow must be connected to the terminal that is marked by the letter E, the earth symbol, colored green or colored green and yellow. b) The wire that is colored blue must be connected to the terminal that is marked with the letter N or the color black. c) The wire that is colored brown must be connected to the terminal that is marked with the letter L or the color red.
18. 電気機器に水がかからないようにしてください。花瓶など液体の入ったものを装置に置かないように注意してください。
19. オン/オフスイッチは、主電源のどちらの側も切断しません。オン/オフスイッチがオフ位置のとき、シャシー内部のエネルギー (高電圧) は危険なレベルにあります。主電源プラグまたは機器のカプラが切断装置になっています。切断装置はすぐに動作し使用できる状態にしておく必要があります。
20. 極めて高い騒音レベルは聴覚を永久に損なう原因になることがあります。騒音による聴覚障害の可能性は人によって異なりますが、十分に高い騒音を十分長い時間浴びた場合には、ほぼすべての人が何らかの障害を被ります。米国労働安全衛生庁 (OSHA) は、許容できるノイズレベル (騒音暴露レベル) を次のように定めています。



1日当たりの時間	サウンドレベルdBA、スローレスポンス
8	90
6	92
4	95
3	97
2	100
1½	102
1	105
½	110
¼ 以下	115

OSHAによると、上記許容限度を超える場合は聴覚障害の原因になります。騒音が上記限度を超える場合は、永久的な聴覚障害を避けるため、このアンプシステムの操作時に、外耳道または耳全体にイヤプラグやプロテクタを装着する必要があります。高音圧レベルによる危険な状態を避けるため、このアンプシステムのような高音圧レベルを出力する機器に触れる人はすべて、本機を使用中はプロテクタにより聴覚を保護することをおすすめします。

**本書は保管してください!**

## 重要安全事项

**警告：**操作电器产品时，请务必遵守基本安全注意事项，包括：

1. 阅读说明书。
2. 妥善保管说明书。
3. 注意所有安全警告。
4. 按照要求和指示操作。
5. 请勿在靠近水（或其它液体）的地方使用本机。
6. 本机只能用干燥布料擦拭。
7. 请勿遮盖任何通散热口。确实依照本说明书安装本机。
8. 请勿将本机安装在任何热源附近，例如电暖器、蓄热器件、火炉或其他发热电器（包括功率放大器）。
9. 请勿破坏两脚型插头或接地型插头的安全装置。两脚型插头有两个不同宽度的插头片，一个窄，另一个宽一点。接地型插头有两个相同的插头片和一个接地插脚。两脚型插头中宽的插头片和接地型插头接地插脚起着保障安全的作用。如果所附带的插头规格与您的插座不匹配，请让电工更换插座以保证安全。
10. 请勿踩踏或挤压电源线，尤其是插头、插座、设备电源输入接口或者电源线和机身连接处。
11. 本机只可以使用制造商指定的零件 / 配件。
12.  本机只可以使用与本机搭售或由制造商指定的机柜、支架、三角架、托架或桌子。使用机柜时，请小心移动已安装设备的机柜，以避免机会推翻造成身体伤害。
13. 在雷雨天或长期不使用的情况下，请拔掉电源插头。
14. 所有检查与维修都必须由指定的专业维修人员进行。如本机的任何形式的损伤都须检修，例如电源线或插头受损，有液体或物体落入机身内，曾暴露于雨天或潮湿的地方，不能正常运作，或曾掉落损坏等。
15. 不得拔出接地插脚。请写信索取免费手册《Shock Hazard and Grounding》。使用前，请仔细检查确认所使用的电源电压是否匹配设备上标注的额定电压。
16. 如果本机装在机柜中，其后部也应给予相应的支撑固定。
17. **Note for UK only:** If the colors 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 colored green and yellow must be connected to the terminal that is marked by the letter E, the earth symbol, colored green or colored green and yellow.
  - b) The wire that is colored blue must be connected to the terminal that is marked with the letter N or the color black.
  - c) The wire that is colored brown must be connected to the terminal that is marked with the letter L or the color red.
18. 本机不得暴露于滴水或溅水中。请勿将诸如花瓶等装有液体的物体放置于本机上。
19. 本机电源开关不能同时断开两端的电源，完全切断外部电源。因此当开关位于“OFF”位置时，本机外壳仍有可能带有触电的危险。电源插头或耦合器能够与设备或者电源容易分开，保证电源的完全切断，从而保证安全。
20. 声压级较高的噪音容易造成听力的永久性损失。因噪声而造成的听力损失程度，个体间的差异较大，但几乎每个人在声压级较高的噪音环境里一定时间，都会有不同程度的听力损失。美国政府职业安全与保健管理局（OSHA）就此规定了下列容许噪声级：

每天持续小时数	声压级 (dBA) 慢反应
8	90
6	92
4	95
3	97
2	100
1½	102
1	105
½	110
¼ 或更少	115

据 OSHA, 任何超出以上所允许的范围，都会造成部分听力的损失。使用本功放系统时，必须佩戴如耳塞等保护耳朵的器件，防止长时间处于上述限制级以上的环境而引起永久性听力受损。本机运行时，如果超过上述所规定的最大限制，为了抵御较高的声压对于听受损所造成的潜在危险，建议使用诸如功放系统等引起高声压级噪声的所有人均佩戴保护耳朵的器件。


**请妥善保管本说明书！**





## 중요 안전 지침

**경고:** 전기 제품 사용 시 다음 사항을 포함해 기본적인 주의 사항을 항상 따라야 합니다.

1. 이 지침을 읽어 주십시오.
2. 이 지침을 준수하여 주십시오.
3. 모든 경고 사항에 주의해 주십시오.
4. 모든 지침을 따라 주십시오.
5. 물기가 있는 근처에서 이 기기를 사용하지 마십시오.
6. 마른 헝겊으로만 청소해 주십시오.
7. 통풍구를 막지 마십시오. 제조업체의 지침에 따라 설치해 주십시오.
8. 라디에이터, 가열기, 난로 또는 열을 발산하는 기타 기기(앰프 포함) 근처에 설치하지 마십시오.
9. 극성 플러그나 접지형 플러그의 안전 용도를 무시하지 마십시오. 극성 플러그는 한쪽 날이 다른 쪽보다 더 넓습니다. 접지형 플러그에는 2개의 날과 1개의 접지 플러그가 있습니다. 넓은 날 또는 1개의 접지 플러그는 안전을 위해 제공됩니다. 제공된 플러그가 사용자의 콘센트에 맞지 않으면 구식 콘센트의 교체에 대해 전기 기술자에게 문의하십시오.
10. 전원 코드 특히, 플러그, 소켓 및 기기에서 나오는 지점이 밝히거나 집히지 않도록 보호하십시오.
11. 제조업체에서 제공하는 부착 장치/액세서리만을 사용하십시오.
12.  제조업체에서 지정하거나 기기와 함께 판매되는 카트, 스탠드, 삼각대, 브래킷 또는 테이블만을 사용하십시오. 카트 사용 시 카트/기기 결합물을 움직일 때 전복으로 인해 부상을 입지 않도록 주의해 주십시오.
13. 번개와 폭풍이 올 때 그리고 장기간 사용하지 않을 때는 이 기기의 플러그를 뽑아 놓으십시오.
14. 자격을 갖춘 서비스 요원에게 모든 서비스를 의뢰하십시오. 전원 공급 코드 또는 플러그가 손상되거나 액체를 엮지르거나 기기 안에 이물질이 떨어뜨리거나 비 또는 습기에 기기를 노출하거나 정상적으로 작동하지 않거나 기기를 떨어뜨린 경우와 같이 기기가 손상된 경우에는 서비스를 받아야 합니다.
15. 접지 핀을 제거하지 마십시오. 당사의 무료 소책자인 “감전 위험 및 접지”을 우편으로 주문해 주십시오. 전원 공급 코드의 기기에 표시된 유형의 전원 공급 장치만 연결해 주십시오.
16. 이 제품을 장비 랙에 장착할 경우에는 후면 지지대를 설치해야 합니다.
17. Note for UK only: If the colors 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 colored green and yellow must be connected to the terminal that is marked by the letter E, the earth symbol, colored green or colored green and yellow. b) The wire that is colored blue must be connected to the terminal that is marked with the letter N or the color black. c) The wire that is colored brown must be connected to the terminal that is marked with the letter L or the color red.
18. 전기 기기가 비나 물방울에 노출되지 않도록 주의하고 꽃병과 같이 용액이 들어 있는 물체를 기기 위에 놓지 않도록 주의해 주십시오.
19. 본 기기의 ON/OFF 스위치는 양쪽의 주 기기 전원을 차단하지 않습니다. ON/OFF 스위치가 OFF 위치에 있더라도 새시 내부에 위험한 전기가 흐를 수 있습니다. 기본 플러그 또는 기기 커플러는 분리 장치로 사용됩니다. 분리 장치는 바로 사용 가능한 상태로 두어야 합니다.
20. 매우 높은 소음에 노출되면 영구적으로 청각이 손상될 수 있습니다. 소음으로 인한 청각 손상 가능성은 개인별로 매우 다르지만 장시간 매우 강한 소음에 노출되면 거의 모든 사람들에게 어느 정도의 청각 손상이 발생합니다. 미국 정부의 OSHA(작업 안전 및 건강 관리국)은 다음과 같이 용인 가능한 소음 노출을 규정하고 있습니다.

일별 지속 시간	소음 수준 dBA, 저속 반응
8	90
6	92
4	95
3	97
2	100
1½	102
1	105
½	110
¼ 이하	115

OSHA에 따르면 용인 가능한 위 제한 수치를 초과하여 노출된 경우 일부 청각이 손상될 수 있습니다. 위에 명시된 제한치를 초과하여 노출되는 경우 영구적인 청각 손상을 예방하려면 이 앰프 시스템 사용 시 귀마개 또는 귀 전체를 덮는 보호구를 착용해야 합니다. 잠재적으로 위험한 높은 음압에 노출되지 않도록 하려면 이 앰프 시스템과 같이 높은 음압을 생성할 수 있는 장비에 노출되는 모든 사람이 기기가 작동하는 동안 청각 보호구를 착용하는 것이 좋습니다.

**이 지침을 잘 보관해 주십시오**

CE

## تعليمات الأمان المهمة

تحذير: عند استخدام المنتجات الكهربائية، يجب اتباع الاحتياطات الأساسية دائماً، والتي تشمل التالي:



1. قراءة هذه التعليمات.
2. الحفاظ على هذه التعليمات.
3. الانتباه لجميع التحذيرات.
4. اتباع هذه التعليمات.
5. عدم استخدام هذا الجهاز على مقربة من الماء.
6. ينظف فقط بقطعة قماش جافة.
7. لا تقم بسد أي فتحات تهوية. يتم التثبيت وفقاً لتعليمات المصنع.
8. لا تضع الجهاز بالقرب من أي مصادر حرارة مثل المبردات، والمدفآت، أو المواقد أو أي أجهزة أخرى (بما فيها مكبرات الصوت) التي يصدر عنها حرارة.
9. لا تتسبب في فشل الغرض من أمان قابس الكهرباء القطبي أو من النوع الأرضي. القابس القطبي به سنان أحدهما أعرض من الثاني. القابس من النوع الأرضي به سنان وقابس أرضي ثالث. القابس مزود بسن عريضة أو يتم توفير السن الثالث من أجل سلامتك. إذا لم يناسب القابس الثالث مقبس الحائط الخاص بك، استشر فني كهرباء لاستبدال المقبس القديم.
10. قم بحماية كبل الكهرباء من المشي عليه أو ضغطه، خاصة في القوابس، والمقابس الملائمة، وموضع خروجها من الجهاز.
11. استخدم المرفقات / الملحقات المقدمة من المصنع فقط.
12. استخدمه فقط مع الحامل، والمنضدة، والمحمل، والمسند، أو الطاولة التي حددها المصنع، أو التي تباع مع الجهاز. عند استخدام العربة، خذ حذرك عند تحريك العربة / مجموعة الجهاز لتجنب إصابتك عند الانقلاب.
13. انزع قابس الجهاز أثناء عواصف البرق أو عند عدم استخدامه لفترات طويلة.
14. ارجع في جميع أعمال الصيانة للموظفين المؤهلين. يجب إجراء الصيانة عند تعرض الجهاز للتلف بأي طريقة، مثل تلف كبل مزود الكهرباء أو القابس، أو عند سقوط سائل أو أشياء على الجهاز، أو عند تعرض الجهاز للمطر أو للرطوبة، أو إذا لم يعمل بصورة طبيعية، أو في حالة سقوطه على الأرض.
15. لا تقم أبداً بقطع الموصل الأرضي. راسلنا للحصول على كتيب "خطر الإصابة بالصواعق والأطراف الكهربائية الأرضية" المجاني الخاص بنا. وصل الجهاز فقط بمزود كهرباء من النوع المحدد على الوحدة المجاورة لكبل مزود الطاقة.
16. يجب توفير الدعم الخلفي عند تركيب الجهاز على رف معدات.
17. ملاحظة للمملكة المتحدة فقط: إذا كانت ألوان الأسلاك في الأطراف الرئيسية لهذه الوحدة لا تتوافق مع العلامات الملونة المحددة للأطراف في المقبس الخاص بك، اتبع ما يلي:
  - (أ) يجب توصيل السلك الملون بالأخضر والأصفر بالطرف المميز بالحرف E، أو رمز الأرضي أو الملون بالأخضر أو الأصفر.
  - (ب) يجب توصيل السلك الملون باللون الأزرق بالطرف المميز بالحرف N، أو ذو اللون الأسود.
  - (ج) يجب توصيل السلك الملون بالبنّي بالطرف المميز بالحرف L، أو ذو اللون الأحمر.
18. لا يجب تعريض هذا الجهاز الكهربائي لتفقيط أو رش السوائل، كما يجب العناية به بعدم وضع الأشياء التي تحتوي على سوائل، مثل الزهريات، فوق الجهاز.
19. لا يعطل مفتاح التشغيل/الإيقاف بهذه الوحدة جانبي الأطراف الرئيسية الأولية. قد توجد شحنات كهربائية خطيرة داخل هيكل الجهاز عندما يكون مفتاح التشغيل/الإيقاف في وضع الإيقاف. يتم استخدام قابس الأطراف الرئيسية أو وصلة الجهاز كجهاز قطع الاتصال، الذي يجب أن يظل قابل للتشغيل.
20. قد يسبب التعرض لمستويات ضوضاء عالية جداً إلى فقدان سمع دائم. يختلف الأشخاص في مدى حساسيتهم للضوضاء التي تؤدي لفقدان السمع لحد بعيد، لكن تقريباً قد يفقد الشخص بعض من سمعه إذا تعرض لعدد كافي من الضوضاء الشديدة وذلك لوقت كافي. وقد حددت إدارة الصحة والأمان المهني بالحكومة الأمريكية مستوى التعرض المسموح به للضوضاء:

المدة يوميا بالساعات	مستوي الصوت بالديسيبل، الاستجابة التدرجية
8	90
6	92
4	95
3	97
2	100
2/1 1	102
1	105
2/1	110
4/1 أو أقل	115

وفقاً لإدارة الصحة والأمان المهني، فإن أي تعرض أعلى من الحدود المسموح بها يمكن أن يؤدي إلى فقدان جزئي للسمع. يجب ارتداء سدادات الأذن أو واقبات قنوات الأذن أو فوق الأذن عند تشغيل أنظمة تكبير الصوت وذلك لمنع فقدان السمع الدائم، إذا كان التعرض يزيد على الحدود التي تم عرضها في النقطة الرابعة أعلاه. للضمان من التعرض الخطر المحتمل لمستويات ضغط صوتي عالية، ينصح جميع الأشخاص المعرضين لمعدات قادرة على إصدار مستويات ضغط صوتي عالية مثل أنظمة مكبرات الصوت أن يستخدموا واقبات الأذن لحمايتهم أثناء التشغيل.

**احفظ هذه التعليمات!**



Logo referenced in Directive 2002/96/EC Annex IV (OJ(L)37/38, 13.02.03 and defined in EN 50419: 2005

The bar is the symbol for marking of new waste and is applied only to equipment manufactured after 13 August 2005

Correct Disposal of this product. This marking indicates that this product should not be disposed with other household wastes throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems, or contact the retailer where the product was purchased. They can take this product for environmental safe recycling.



Logotipo al que se hace referencia en la Directiva 2002/96/EC Anexo IV (OJ(L)37/38, 13.02.03 and definido en EN 50419: 2005

La barra es el símbolo para marcar los nuevos desechos y se aplica solamente a equipamiento fabricado después del 13 de agosto de 2005

Forma correcta de deshacerse de este producto. Esta marca indica que este producto no debe arrojarse junto con otros desperdicios domésticos en ningún lugar de la Unión Europea. Para evitar posibles daños al medio ambiente o a la salud humana debidos a desechos no controlados de desperdicios, reciclelo responsablemente para promover la reutilización sostenible de los recursos materiales. Para devolver su dispositivo usado, utilice los sistemas de devolución recolección, o contacte con el vendedor minorista donde compró el producto. Ellos pueden llevar este producto al reciclado seguro para el medio ambiente.



Logo documenté dans l'annexe de la Directive 2002/96/EC IV (OJ(L)37/38, 13.02.03 et défini par la norme EN 50419:2005

La barre est le symbole de signalisation des nouveaux déchets qui s'applique uniquement aux équipements fabriqués après le 13 août 2005

Recyclez correctement ce produit. Cette signalisation indique que ce produit ne doit pas être jeté avec les autres déchets domestiques dans les pays de l'UE. Pour éviter toute atteinte à l'environnement ou à la santé humaine par des décharges sauvages, recyclez ce produit de manière responsable pour encourager la réutilisation durable des ressources matérielles. Pour retourner votre appareil usé, veuillez utiliser les systèmes de collecte et de retour, ou contactez le revendeur à qui vous avez acheté le produit. Il prendra en charge ce produit de manière à protéger l'environnement.



Logo eingetragen in Richtlinie 2002/96/EC Anhangl IV (OJ(L)37/38, 13.02.03 und definiert in EN 50419: 2005

Der Balken ist das Symbol zur Kennzeichnung neuen Abfalls und wird nur auf Geräten angebracht, die nach dem 13. August 2005 gefertigt wurden

Entsorgen Sie dieses Produkt umweltgerecht. Diese Kennzeichnung bedeutet, dass das Produkt innerhalb der EU nicht mit dem Hausmüll entsorgt werden darf. Zur Vermeidung von Umwelt- und Gesundheitsschäden durch unkontrollierte Entsorgung recyceln Sie das Gerät bitte. Geben Sie das Gerät an einer Sammelstelle für Elektrogeräte ab oder wenden Sie sich an Ihren Fachhändler.



Logo viitattu direktiivin 2002/96/EY liitteen IV (OJ(L)37/38, 13.02.03 mukaisesti, määritelty standardissa EN 50419: 2005

Palkki on uuden jätteen merkintäsymboli ja sitä käytetään vain 13. elokuuta 2005 jälkeen valmistetuissa laitteissa

Tuotteen oikea hävittäminen. Tämä merkki ilmaisee, että tuotetta ei saa hävittää muun talousjätteen mukana EU:n alueella. Jotta estetään mahdolliset valvomattoman jätteiden hävittämisen haitat ympäristölle tai ihmisten terveydelle, kierrätä tuote vastuullisesti ja edistä materiaalien kestävää uudelleenkäyttöä. Voit palauttaa käytetyn laitteen käyttämällä keräysjärjestelmiä tai ottamalla yhteyttä jälleenmyyjään, jolta laite ostettiin. He voivat toimittaa tuotteen ympäristön kannalta turvalliseen kierrätykseen.



Logotyp som hänvisas till i direktiv 2002/96/EG bilaga IV (OJ(L)37/38, 13.02.03 och definieras i EN 50419: 2005

Stapeln är symbolen för märkning av nytt avfall och är endast tillämplig på utrustning som tillverkats efter 13 augusti, 2005

Korrekt bortskaffande av denna produkt. Denna märkning betyder att produkten inte skall bortskaffas tillsammans med annat hushållsavfall i hela EU. För att förhindra eventuella skador för miljön eller människors hälsa från okontrollerat bortskaffande av avfall, återvinn det ansvarsfullt för att främja hållbar återanvändning av materiella resurser. För att returnera din använda enhet, använd återanvändnings- och uppsamlingsystem, eller kontakta den återförsäljare där produkten köptes. De kan ta hand om denna produkt för miljösäker återvinning.



Het logo waarnaar wordt verwezen in de bijlage van Richtlijn 2002/96/EG IV (OJ(L)37/38, 13.02.03 en omschreven in EN 50419: 2005

De balk is het symbool voor het markeren van nieuw afval en wordt alleen toegepast op apparatuur dat is vervaardigd na 13 augustus 2005

Juiste verwijdering van dit product. Deze markering geeft aan dat dit product nergens in de Europese Unie met ander huishoudelijk afval mag worden afgevoerd. Om mogelijke schade aan het milieu of gezondheid door ongecontroleerde afvalverwijdering te voorkomen, recycle het op een verantwoorde wijze om het duurzame hergebruik van materiaalgrondstoffen te bevorderen. Om uw gebruikte apparaat in te leveren, kunt u gebruik maken van de inlever- en verzamelsystemen of contact opnemen met de verkoper waar het product is gekocht. Zij kunnen dit product innemen voor het milieuvriendelijk recycling.



Simbolo presente nell'allegato IV (OJ(L)37/38, 13.02.03 della direttiva 2002/96/CE e definito nello standard EN 50419: 2005

La barra è il simbolo indicante un nuovo rifiuto ed è applicata esclusivamente ad apparecchiature prodotte successivamente al 13 agosto 2005

Corretto smaltimento di questo prodotto. Questo simbolo indica che questo prodotto non deve essere smaltito insieme ad altri rifiuti domestici in tutta Europa. Per prevenire possibili danni all'ambiente o alla salute umana dovuti allo smaltimento non regolamentato dei rifiuti, è necessario riciclarlo responsabilmente al fine di promuovere il riutilizzo sostenibile delle risorse materiali. Per restituire il dispositivo usato, utilizzare i sistemi di restituzione e raccolta o contattare il rivenditore presso il quale il prodotto è stato acquistato. Quest'ultimo può occuparsi del riciclaggio ambientale sicuro di questo prodotto.



标志参照 2002/96/EC 指令附录 IV (OJ(L)37/38, 13.02.03 和 EN 50419: 2005 定义

条码符号标示新废弃物, 仅适用于 2005 年 8 月 13 日后生产的设备

正确处理此产品。此标志表明该产品在整个欧盟区内不应该与其他家居生活废弃物一同处置。为防止因无控废弃物处置对环境或人类健康可能造成的危害, 请负责地回收并促进可重复使用的物质资源。要返还旧设备, 请使用退还收集系统, 或联系购买此产品的零售商。他们会为环境安全回收此产品。



## FCC Compliancy Statement

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

**Warning:** Changes or modifications to the equipment not approved by Peavey Electronics Corp. can void the user's authority to use the equipment.



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CAN ICES-3 B/NMB/3B

## IPR2™ 5000 / 7500 Power Amplifier

Congratulations on your purchase of an IPR2™ power amplifier, designed for years of reliable, flawless operation under rigorous use. The groundbreaking IPR series utilizes an advanced design that allows Peavey engineers to dramatically reduce weight while increasing output power, reliability and thermal efficiency. IPR Series amplifiers are designed with a resonant switch-mode power supply and a high-speed class D topology that yields the highest audio resolution and efficiency available. This revolutionary amplifier offers the sonic superiority and unsurpassed reliability for which Peavey is famous, in an extremely efficient and lightweight design. Advanced technology and extensive protection circuitry allow operation with greater efficiency into difficult loads and power conditions. The DDT™ (Distortion Detection Technique) circuitry ensures trouble-free operation into loads as low as 2 ohms. DDT protects drivers and ensures that sonic integrity is maintained, even in extreme overload conditions. The IPR's high-efficiency design allows the amplifier to operate at very low temperatures, and does not require massive heat sinks to cool. For your safety, read the important precautions section, as well as input, output and power connection instructions.

Although the IPR amplifier is simple to operate and housed in an ultra-strong, ultra-lightweight chassis, improper use can be dangerous. This amplifier is very high-powered and can put out high voltages and sizable currents at frequencies up to 30 kHz. Always use safe operating techniques when operating this amplifier.

Before you send signal through your amplifier, it is very important to ensure that the product has the proper AC line voltage supplied. You can find the proper voltage for your amp printed next to the IEC line (power) cord on the rear panel of the unit. Each product feature is numbered. Refer to the front-panel diagram in this manual to locate the particular features next to its number.



**Please read this guide carefully to ensure your personal safety as well as the safety of your amplifier.**

### FEATURES:

- 2 channel independent crossovers
- DDT protection
- Revolutionary IPR class D topology
- Detented input controls
- Combination XLR 1/4" inputs
- 4 pole twist lock output connectors
- Ultra-light weight
- Individual signal pass 1/4" jacks on each channel
- LED illuminated
- Standby, LED power present indication



**VENTILATION:** For proper ventilation, allow 12" clearance from nearest combustible surface.

**Make sure that vents are not blocked and air can flow freely through the unit.**



**WARNING:** Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

**NOTE:** This equipment has been tested and found to comply with the limits for a Class A 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 to 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.

## Front Panel



IPR2™ 7500



IPR2™ 5000

### 1 AC POWER SWITCH

This button triggers the relay that provides power to the amplifier. This unique power switch will glow blue dimly. When turned on, it illuminates brightly.

### 2 INDICATORS

The IPR2™ amplifiers feature five front-panel LED indicators per channel: ACTIVE, SIGNAL, DDT™, TEMP and DC. These LED indicators inform the user of each channel's operating status and warn of possible abnormal conditions.

### 3 ACTIVE LED

The Active LED indicates that its channel's output is closed and the channel is operational. It lights under normal operation and remains on, even when the channel is in DDT gain reduction. These protection features leave the output relay closed. If the Active LED goes off, there is no signal at the output connectors.

### 4 SIGNAL LED

This LED lights when its channel produces an output signal of about 4 volts RMS or more (0.1 volt or more at the input, with 0 dB attenuation and standard x40 voltage gain). This signal indicates whether a signal is reaching and being amplified by the amplifier.

### 5 DDT™ (DISTORTION DETECTION TECHNIQUE) LED

A channel's DDT™ LED will light at the onset of clipping. If the LEDs are flashing quickly and intermittently, the channel is just at the clip threshold. A steady, bright glow means the amp is clip limiting, or reducing gain to prevent severely clipped waveforms from reaching the loudspeakers. See the Distortion Detection Technique section for more information. During initial power-up the DDT LED will light to indicate that the gain reduction circuitry is activated. This prevents sudden signal bursts when the speaker relays are closed.

### 6 TEMP LED

In the unlikely event of an unstable thermal condition, amplifier protection will be activated and will shut down the offending channel. The Temp LED will remain illuminated until safe operating temperatures have returned.

### 7 DC LED

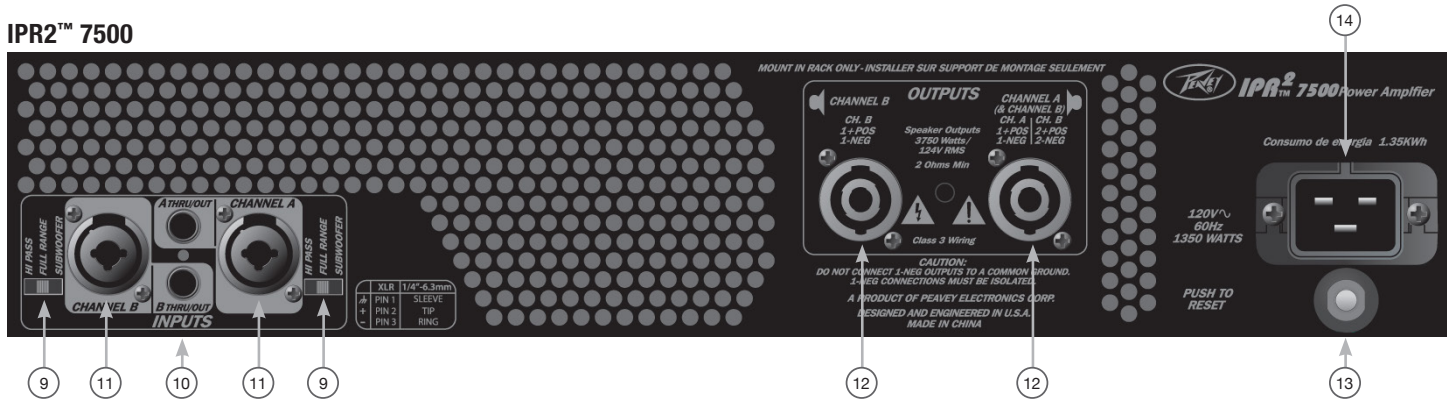
In the event of abnormal operating conditions, the IPR has built-in amplifier protection. Under conditions that would normally damage the power amplifier, the DC LED will illuminate and the amp will automatically attempt to restart to correct the condition. If the amplifier does not return to normal operating status, contact your local authorized service center.

### 8 INPUT ATTENUATORS

Whenever possible, set the attenuators fully clockwise to maintain optimum system headroom. The input attenuator controls, located at the front panel (one for channel A, one for channel B), adjust gain for their respective amplifier channels in all modes. See the specifications at the end of this manual for standard voltage gain and input sensitivity information.

## Rear Panel

### IPR2™ 7500



#### 9 CHANNEL MODE SWITCH:

##### HIGH PASS

This position is used to activate the HIGH PASS filter for the corresponding channel. This filter will limit the frequencies sent to the associated amplifier channel to frequencies above 100 Hz. In situations where separate subwoofer cabinets are being used, this position would indicate connecting the mid-high frequency speaker cabinet to the channel associated with the HIGH PASS switch.

##### FULL RANGE

As the name implies, the Full Range position on this switch allows all frequencies to pass to the amplifier. Normally used when connecting a full range speaker enclosure to the amplifier's output.

##### SUBWOOFER

This position is used to activate the LOW PASS filter for the corresponding channel. This filter will limit the frequencies sent to the associated amplifier channel to frequencies below 100 Hz. In situations where separate subwoofer cabinets are being used, this position would indicate connecting the subwoofer speaker cabinet to the channel associated with the Subwoofer switch.

#### 10 THRU/OUT JACKS

This 1/4" jack supplies parallel output signals from the associated channel for patching to this amplifier and/or additional power amplifier inputs.

#### CONNECTING INPUTS

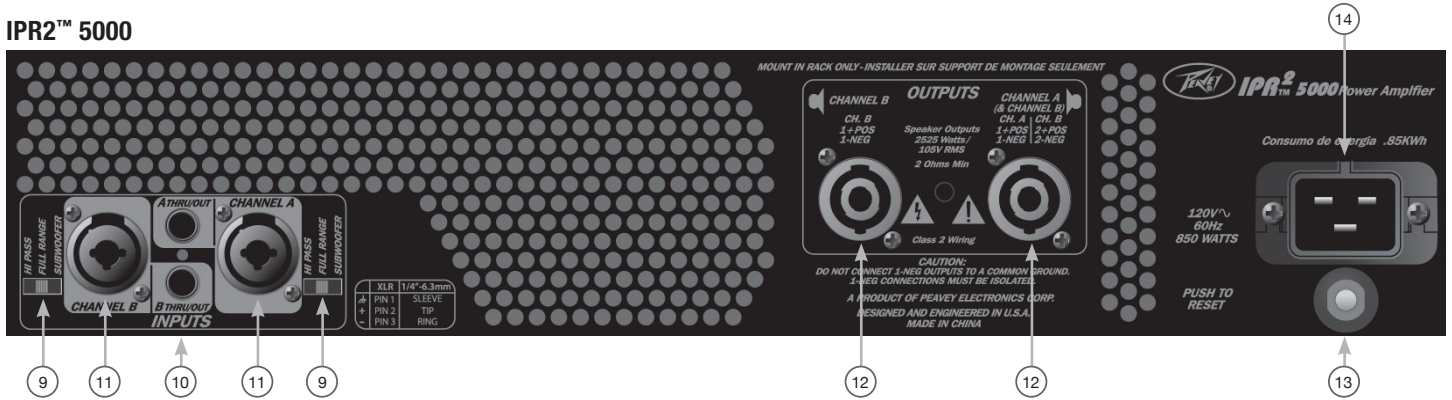
11 Input connections are made via the 3-pin XLR (pin 2+) or 6.3 mm plug combination connectors on the rear panel of the amplifier. The inputs are actively balanced.

#### CONNECTING OUTPUTS

12 All models have one combination 4 pole twist lock output connector per channel. Channel A output allows for CH A 1+ Pos / 1- Neg and channel B 2+ Pos / 2- Neg to use a single 4 conductor speaker cable.

# Rear Panel

## IPR2™ 5000



13

### CIRCUIT BREAKER

In the unlikely event of operating conditions that may potentially damage the amplifier, the circuit breaker may trip. After inspecting the cables and connections, the amplifier can be reset. If the circuit breaker trips a second time, contact the local Peavey authorized service center.



14

### AC POWER INLET:

This is the receptacle for an IEC line cord, which provides AC power to the unit. Connect the line cord to this connector to provide power to the unit. Damage to the equipment may result if improper line voltage is used. (See line voltage marking on unit). The 120VAC IPR2™ 7500 gets a power cord retaining clamp.



Never break off the ground pin on any equipment. It is provided for your safety. If the outlet used does not have a ground pin, a suitable grounding adapter should be used and the third wire should be grounded properly. To prevent the risk of shock or fire hazard, always make sure that the amplifier and all associated equipment is properly grounded.



### NOTE: FOR U.K. ONLY

As the colors of the wires in the mains lead of this apparatus may not correspond with the colored markings identifying the terminals in your plug, proceed as follows: (1) The wire which is colored green and yellow must be connected to the terminal which is marked by the letter E, or by the Earth symbol, or colored green or green and yellow. (2) The wire which is colored blue must be connected to the terminal which is marked with the letter N, or the color black. (3) The wire which is colored brown must be connected to the terminal which is marked with the letter L, or the color red.



# IPR2™ 5000/7500 DSP

## Power Amplifier

As the name implies, the IPR2™ 5000 and 7500 DSP all include advanced digital signal processing. The DSP was designed to be incredibly effective, yet extremely easy to use. Using unique and revolutionary advanced bass enhancement processes, the IPR2 DSP amplifiers dramatically improve the perceived level of bass in any system, using a fraction of the power that would be required with any other power amp.

Before you send signal through your amplifier, it is very important to ensure that the product has the proper AC line voltage supplied. You can find the proper voltage for your amp printed next to the IEC line (power) cord on the rear panel of the unit. Each product feature is numbered. Refer to the front panel diagram in this manual to locate the particular features next to its number.



**Please read this guide carefully to ensure your personal safety as well as the safety of your amplifier.**

### IPR2™ 5000 / 7500 DSP FEATURES:

- DDT™ protection
- Revolutionary IPR class D topology
- Combination XLR 1/4" inputs
- 4 pole twist lock output connector
- Light weight
- Individual signal pass-thru 1/4" jacks on each channel
- LED illuminated
- DSP-based Loudspeaker Management System
- 120 ms of delay per channel
- 4 bands of parametric equalization per channel
- Security lock
- Adjustable Crossover
- Adjustable fourth-order high-pass filter each channel
- MAXX Bass®
- Horn EQ each channel
- Blue, backlit LCD screen



**WARNING: PLEASE REVIEW YOUR DSP SETTINGS BEFORE SENDING SIGNAL TO THE AMPLIFIER. INCORRECT SETTINGS CAN POTENTIALLY DAMAGE SPEAKER ENCLOSURES.**



**VENTILATION:** For proper ventilation, allow 12" clearance from nearest combustible surface. Make sure that vents are not blocked and air can flow freely through the unit.



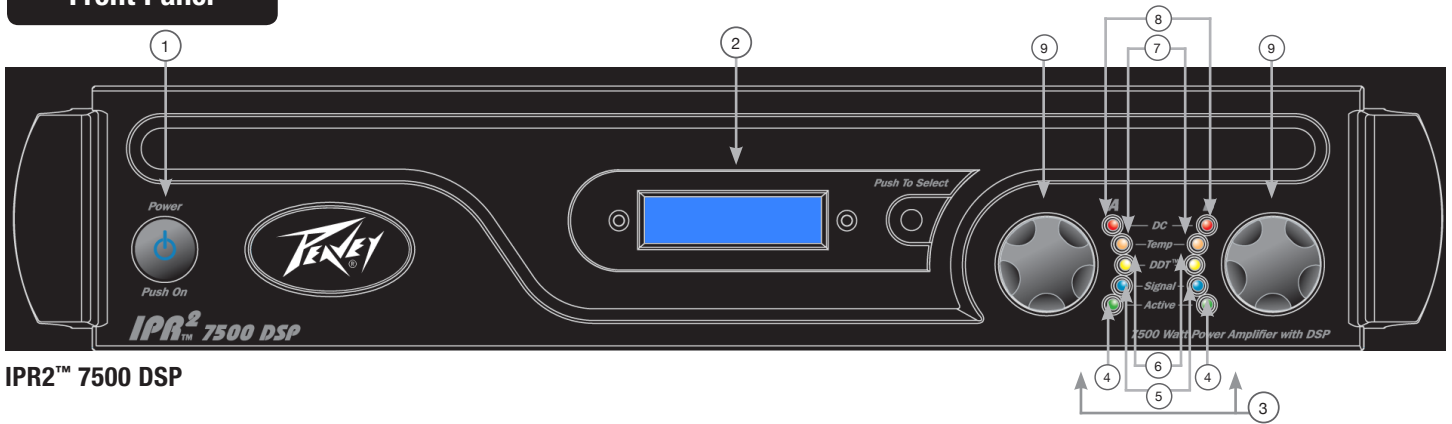
**WARNING:** Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

**NOTE:** This equipment has been tested and found to comply with the limits for a Class A 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.

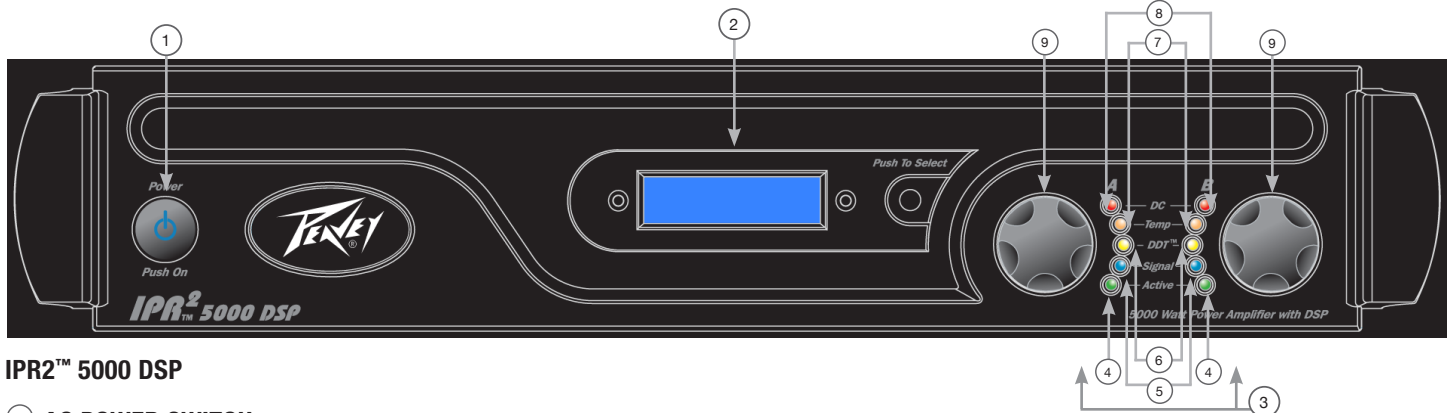
However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one 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.

## Front Panel



IPR2™ 7500 DSP



IPR2™ 5000 DSP

### 1 AC POWER SWITCH

This button triggers the relay that provides power to the amplifier. This unique power switch will glow blue (along with the Peavey logo) in standby mode, indicating AC power has been connected to the amplifier but the amplifier has not yet been turned on.

### 2 LCD SCREEN

Blue, backlit LCD screen.

### 3 INDICATORS

The IPR2™ amplifiers feature five front-panel LED indicators per channel: ACTIVE, SIGNAL, DDT™, TEMP and DC. These LED indicators inform the user of each channel's operating status and warn of possible abnormal conditions.

### 4 ACTIVE LED

The Active LED indicates that its channel's output is closed and the channel is operational. It lights under normal operation and remains on, even when the channel is in DDT™ gain reduction. These protection features leave the output relay closed. If the Active LED goes off, there is no signal at the output connectors.

### 5 SIGNAL LED

This LED lights when its channel produces an output signal of about 4 volts RMS or more (0.1 volt or more at the input, with 0 dB attenuation and standard x40 voltage gain). This signal indicates whether a signal is reaching and being amplified by the amplifier.

### 6 DDT™ (DISTORTION DETECTION TECHNIQUE) LED

A channel's DDT LED will light at the onset of clipping. If the LEDs are flashing quickly and intermittently, the channel is just at the clip threshold. A steady, bright glow means the amp is clip limiting, or reducing gain to prevent severely clipped waveforms from reaching the loudspeakers. See the Distortion Detection Technique section for more information. During initial power-up the DDT LED will light to indicate that the gain reduction circuitry is activated. This prevents sudden signal bursts when the speaker relays are closed.

### 7 TEMP LED

In the unlikely event of an unstable thermal condition, amplifier protection will be activated and will shut down the offending channel. The Temp LED will remain illuminated until safe operating temperatures have returned.

### 8 DC LED

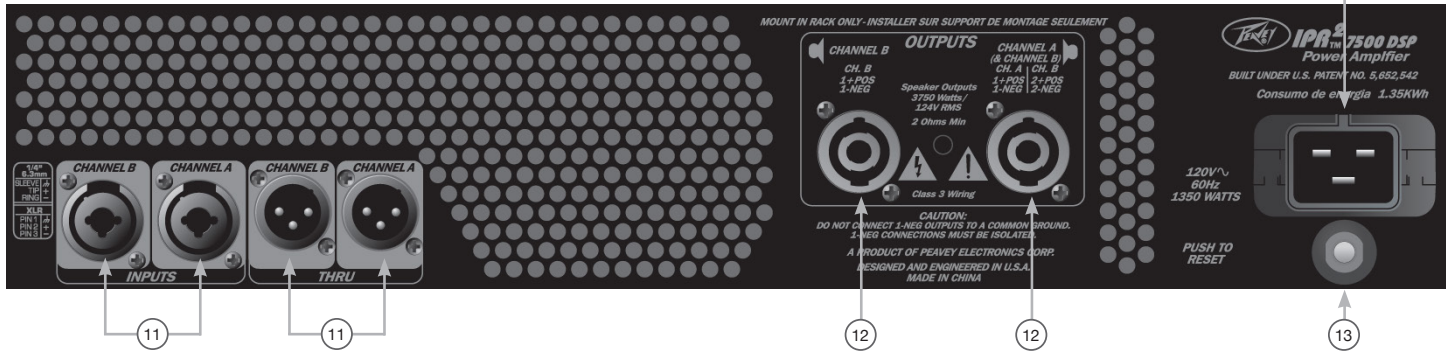
In the event of abnormal operating conditions, the IPR has built-in amplifier protection. Under conditions that would normally damage the power amplifier, the DC LED will illuminate and the amp will automatically attempt to restart to correct the condition. If the amplifier does not return to normal operating status, contact your local authorized service center.

### 9 INPUT ATTENUATORS

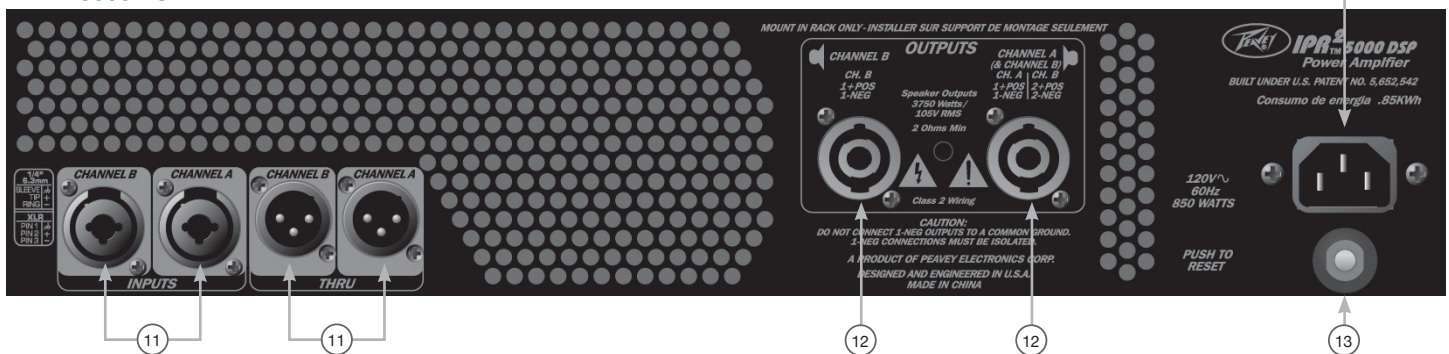
Whenever possible, set the attenuators fully clockwise to maintain optimum system headroom. The input attenuator controls, located at the front panel (one for channel A, one for channel B), adjust gain for their respective amplifier channels in all modes. See the specifications at the end of this manual for standard voltage gain and input sensitivity information.

## Rear Panel

### IPR2™ 7500 DSP



### IPR2™ 5000 DSP



#### 10 CONNECTING INPUTS

Input connections are made via the 3-pin XLR (pin 2+) or 6.3 mm plug combination connectors on the rear panel of the amplifier. The inputs are actively balanced. The input overload point is high enough to accept the maximum output level of virtually any signal source.

#### 11 THRU/OUT JACKS

This XLR jack supplies parallel output signals from the associated channel for patching to this amplifier and/or additional power amplifier inputs. The Thru/Out jack is affected by the position of the associated Channel Mode switch. This XLR jack also provides an unbalanced (tip/sleeve) output to be patched with single-conductor shielded cables.

#### 12 CONNECTING OUTPUTS

All models have one combination 4 pole twist lock output connector per channel. Channel A output allows for CH A 1+ Pos / 1-Neg and channel B 2+ Pos / 2- Neg to use a single 4 conductor speaker cable.

#### 13 CIRCUIT BREAKER

In the unlikely event of operating conditions that may potentially damage the amplifier, the circuit breaker may trip. After inspecting the cables and connections, the amplifier can be reset. If the circuit breaker trips a second time, contact the local Peavey authorized service center.

#### 14 AC POWER INLET:

This is the receptacle for an IEC line cord, which provides AC power to the unit. Connect the line cord to this connector to provide power to the unit. Damage to the equipment may result if improper line voltage is used. (See line voltage marking on unit).

Never break off the ground pin on any equipment. It is provided for your safety. If the outlet used does not have a ground pin, a suitable grounding adapter should be used and the third wire should be grounded properly. To prevent the risk of shock or fire hazard, always make sure that the amplifier and all associated equipment is properly grounded.

#### NOTE: FOR U.K. ONLY

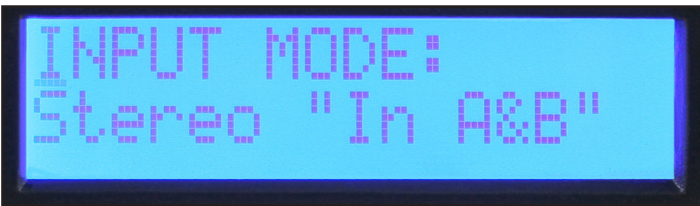
As the colors of the wires in the mains lead of this apparatus may not correspond with the colored markings identifying the terminals in your plug, proceed as follows: (1) The wire which is colored green and yellow must be connected to the terminal which is marked by the letter E, or by the Earth symbol, or colored green or green and yellow. (2) The wire which is colored blue must be connected to the terminal which is marked with the letter N, or the color black. (3) The wire which is colored brown must be connected to the terminal which is marked with the letter L, or the color red.

## Navigation Overview

Once the IPR screen appears, you can start adjusting the DSP processor. Pressing the encoder will bring you to the main menu.

The encoder knob to the right of the display is used to navigate and control the DSP functions. The Channel A and B controls to the left of the display are also encoders but are dedicated to adjusting input gain for each channel. Turning the encoder knob to the right of the display will allow you to scroll through the Main Menu selections. The Main Menu not only allows you to select a process for editing, but also provides a quick view of which processes are activated.

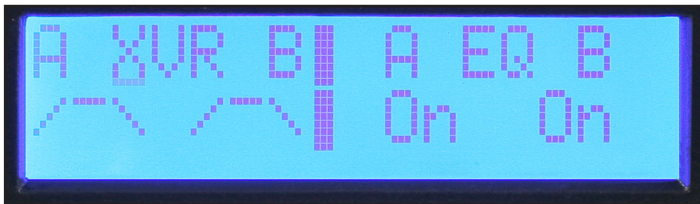
From left to right the menu selections are: Input Mode, Volume, Crossover/Band-Pass Filters, Equalization, Delay, Limiting, Memory and Lock.



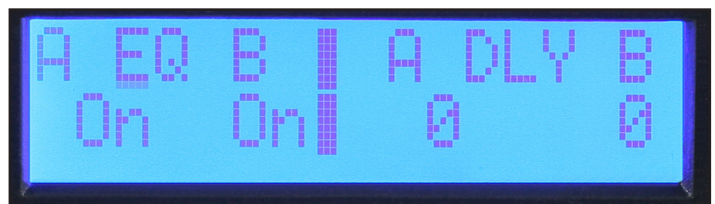
Input Mode



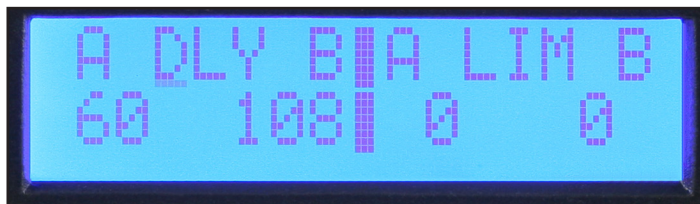
Volume



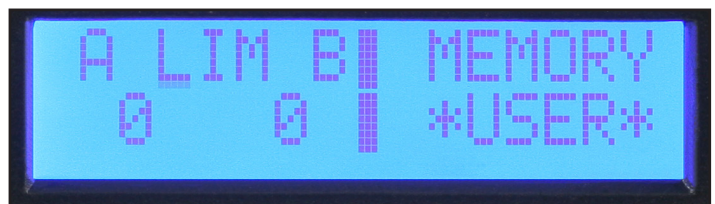
Crossover / Band-Pass Filters



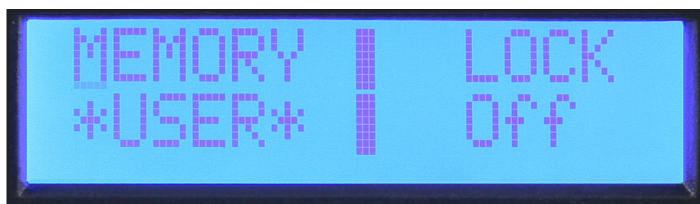
Equalization



Delay

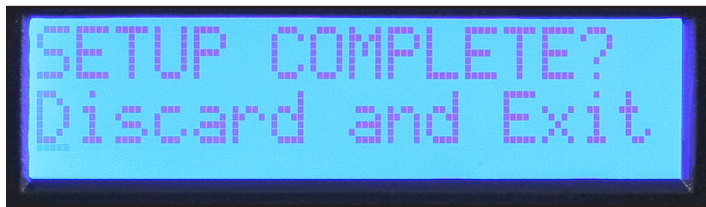


Limiting



Memory Lock

To select an item from the Main Menu, rotate the encoder until the cursor marks the selection you want. Press the encoder to navigate to the Sub Menu adjustment screens for that processing function. When you enter a processing function Sub Menu, the cursor will appear in the upper left corner of the screen allowing you to scroll through Sub Menu screens. To edit a parameter, press the encoder to move the cursor to the desired parameter on the screen. Turning the encoder then adjusts that parameter. To scroll to another screen, press the encoder to return the cursor to the upper left corner of the screen. You can now scroll through Sub Menu screens.



#### Discard and Exit

To reset the DSP and discard edits, select “Discard and Exit” from the Sub Menu to delete the edits made since entering the Sub Menu.



#### Save and Exit

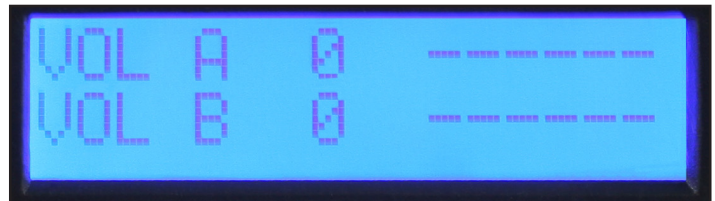
The final screen in most process Sub Menus is “Save and Exit.” Press the encoder in this screen to save the edits and return to the main menu.

**Note: Adjustments made are not stored until Save and Exit is selected and you return to the main menu. Turning off the amplifier while editing in a Sub Menu gives the same result as “Discard and Exit.”**

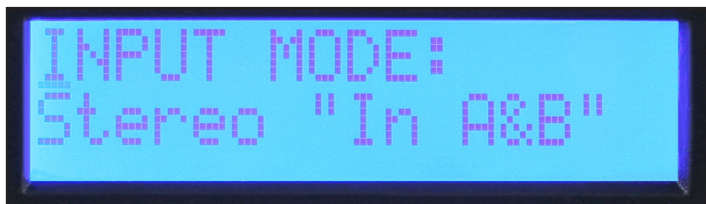
## Volume

### Volume

The current gain settings are always available in the main menu screen. The dedicated encoders on the front panel are used for adjustment of the A and B channels in stereo and mono modes. If the input mode is set to Bridge, the Channel B control is not active and the volume display shows “na.”

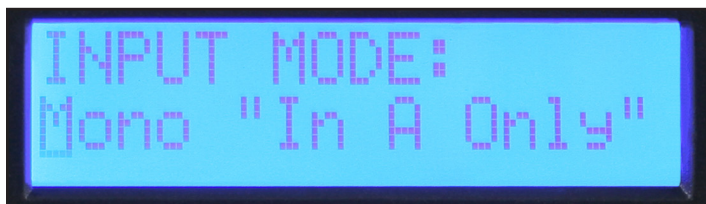


## Mode



### Stereo Input Mode

Stereo: Inputs A and B go to outputs A and B.



### Mono Input Mode

Mono: Input A drives both outputs A and B.

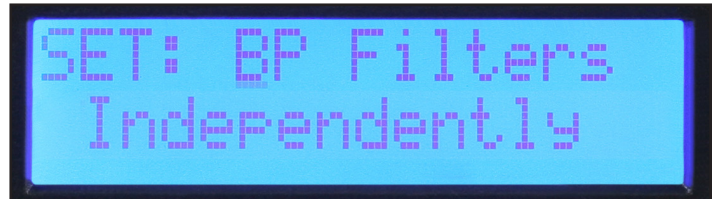


Unlike the other function Sub Menus, the input mode does not change until you select "Save and Apply" and return to the Main Menu.

## Crossover Filters, Band-Pass Filters and Polarity

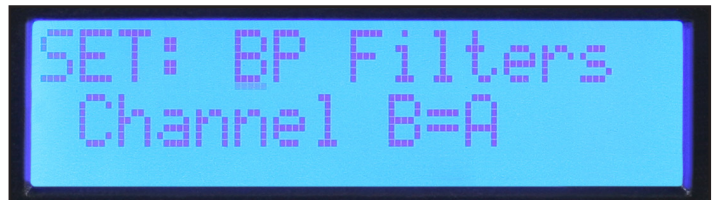
### Set: BP Filters Independently

When you enter the "XOVER" Sub Menu, you are given three options for how the band-pass filters can be set. When Set "BP Filters Independently" is selected, the Channel A and B high-pass and low-pass filters are individually set.



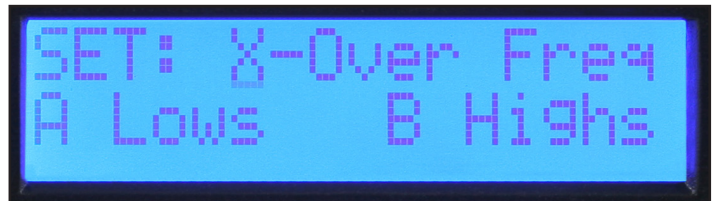
### Set: BP Filters Channel B=A

If you are using the amplifier in a stereo system where both channels will be set the same, select "Channel B=A" and both channels will be set at once. Setting the filters for Channel A also sets Channel B.



### Set: X-Over Freq A Lows B Highs

If you create a crossover between channels of the amplifier, select "X-over Freq A Lows B Highs" and crossover frequency and filter type can be set with one set of controls. Set by crossover screen, High-pass and Low-pass screens.



## The filter types available for the high-pass and low-pass filters are:

- |                 |  |
|-----------------|--|
| <b>Off</b>      | No filter  |
| <b>BW-12 dB</b> | Butterworth filter with 12 dB per octave slope. -3dB at corner frequency. Butterworth filters have a flat frequency response in the pass-band. |
| <b>BW-18 dB</b> | Butterworth filter with 18 dB per octave slope. -3dB at corner frequency. Butterworth filters have a flat frequency response in the pass-band. |
| <b>BW-24 dB</b> | Butterworth filter with 24 dB per octave slope. -3dB at corner frequency. Butterworth filters have a flat frequency response in the pass-band. |
| <b>LR-24 dB</b> | Linkwitz-Riley Filter with 24 dB per octave slope. -6dB at corner frequency. LR filters combine for a flat response at the corner frequency.   |

**It is generally a good idea to use a high-pass filter for all loudspeakers.**

## Output Polarity



### Output Polarity

The output polarity can be inverted on either channel. Select Normal or Invert in the polarity screen. If you create a crossover with 12dB per octave filters, the high frequency output would likely need to be inverted to maintain the proper phase relationship at the crossover frequency. Temporarily inverting the polarity of one channel of a multi-way system can also aid in the setting of the delay for driver alignment. You can adjust the delay for cancellation at the crossover frequency. Remember to switch the polarity back to Normal when complete.

To return to the Main Menu, select Discard and Exit or Save and Exit.

## Equalization

The IPR2™ DSP provides five bands of parametric EQ, Waves® Maxx Bass® enhancement and horn EQ on each channel.

### Bypass



### EQ Bypass

The first screen in the EQ Sub Menu is the bypass screen. The channels can be bypassed independently or both A&B can be bypassed together. Press the encoder until the cursor is under the desired parameter to change and rotate the encoder to change the bypass mode. Press the cursor to return it to the upper left corner when done so you can scroll to other screens.

### Set Channel EQ

The first screen in the EQ Sub Menu is the bypass screen. The channels can be bypassed independently or both A&B can be bypassed together. Press the encoder until the cursor is under the desired parameter to change and rotate the encoder to change the bypass mode. Press the cursor to return it to the upper left corner when done so you can scroll to other screens.

### MaxxBass®



The MaxxBass® enhancement system interacts with the high-pass filter for each channel to produce bass energy in a frequency range the loudspeaker can handle. The higher the MaxxBass® number, the more the bass is enhanced.

### Parametric EQ



There are five bands of parametric EQ for each channel. The frequency can be set in 1/12 octave frequency steps. The filter bandwidth is set and displayed in octaves. The level can be adjusted over a +/- 15 dB range. Press the encoder to select the desired parameter to adjust. Return the cursor to the upper left corner when done to scroll to other screens.

## Horn EQ

The Horn EQ provides a 6dB per octave high frequency boost that is sometimes required for high frequency horns. The frequency control sets the low frequency corner of the filter.

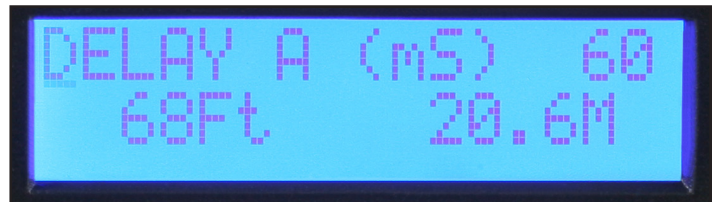
To return to the Main Menu, select Discard and Exit or Save and Exit.



## Delay

Delay can be used to align drivers within a loudspeaker or to delay auxiliary speakers like those installed under a balcony. A short delay can also be used to delay the main speakers to align them with the drums or bass guitar. A total of 125 mS of delay is available on each channel. 5 mS of delay is available in 41.67  $\mu$ S steps for driver alignment. 120 mS is available in 1 mS steps for system alignment. These delays can be set independently so that the driver alignment offset can be maintained when the system alignment delay is adjusted.

The first screen in the delay Sub Menu allows the user to decide whether the delays will be set independently or B=A. This selection only applies to the 1 mS step system delay, leaving the driver alignment delays to be set independently. The IPR2™ amplifiers display the equivalent delay distance in meters and feet in the system delay and centimeters or inches in the driver delay.



System (mS) Delay screen



Driver alignment (uS) screen

## Limiter

The IPR2 DSP has limiters available on each channel. These limit the signal level to the input of the power amplifier stage. The limit threshold starts at zero and is adjusted in -1 dB steps, reducing the maximum output. You must be aware that the IPR2 DSP works the same as most other amplifiers in that their maximum output depends on the line voltage and load impedance. Depending on load, you may need to reduce the limiter up to 3 dB before the output is reduced.



## Memory

The IPR2 has four memory locations where its settings can be stored and then recalled. Each location has a six-character name to identify the file. The name of the active preset is also displayed in the Main Menu "Memory" screen.



## Saving Settings

In the Memory Operation Sub Menu, select “Save Settings.”

Select one of the four preset locations.

Edit the name by rotating the cursor to select the character and pressing the encoder to step to the next position. Continue until complete. To keep the same name, press the encoder six times to step through the name edit screen.

Once the save location has been selected and you have named the preset, you will be given a yes/no option to complete the save.



## Recalling a Preset

In the Memory Operation Sub Menu, select “Recall Settings.”

Select the Preset number to recall or select recall factory settings to recall a neutral state. Just like the save function, the option is given to exit without completing the recall option.



## Lock

The security lock feature of the IPR2™ DSP allows selected controls to be locked to prevent unauthorized adjustment. A four-digit password must be set when the lock is engaged. This password must be entered whenever a Sub Menu is entered to allow temporary access to the edit functions. The lock is re-engaged whenever you return the Main Menu or turn the unit off. All editing is locked when the power is off.

**Note: Be sure to make note of the password. Contact customer service if the password is lost or misplaced.**

**The IPR2 amplifiers have three different lock modes:**

- |                          |   |
|--------------------------|---|
| <b>Off</b>               | All settings can be adjusted without entering a password.           |
| <b>All Except Volume</b> | A password must be entered for all edit Sub Menus except volume.    |
| <b>All with Volume</b>   | A password must be entered for all edit Sub Menus including volume. |

# IPR2™ 7500 Specification Sheet

<b>Rated Watts 2ch x 2 ohms</b>	4750 watts 20ms repetitive burst / 3750 watts 1% THD both channels driven @ 1kHz.
<b>Rated Watts 2ch x 4 ohms</b>	2800 watts 20ms repetitive burst / 2450 watts 1% THD / 2020 watts 0.15% THD, both channels driven @ 1kHz.
<b>Rated Watts 2ch x 8 ohms</b>	1550 watts 20ms repetitive burst / 1425 watts 1% THD / 1200 watts 0.15% THD, both channels driven @ 1kHz.
<b>Minimum Impedance</b>	2 ohms
<b>Maximum RMS Voltage Swing</b>	124 volts
<b>Frequency Response</b>	20Hz - 25kHz; +0dB, -3dB
<b>20Hz - 20kHz 2ch x 2 ohms</b>	<0.5% @ 3280 watts 20Hz to 4kHz, decreasing to 3000 watts @ 20kHz, both channels driven.
<b>20Hz - 20kHz 2ch x 4 ohms</b>	<0.15% @ 2000 watts 20Hz to 20kHz, both channels driven.
<b>20Hz - 20kHz 2ch x 8 ohms</b>	<0.15% @ 1200 watts 20Hz to 20kHz, both channels driven.
<b>Input CMRR</b>	> -75dB @ 1 kHz.
<b>Voltage Gain</b>	x 40 (+32dB)
<b>Crossover</b>	100Hz switchable 2nd order high pass and 3rd low pass per channel.
<b>Crosstalk</b>	> -85dB @ 1kHz @ 1000 watts power @ 8 ohms.
<b>Hum and Noise</b>	> -106dB, "A" weighted referenced to rated power @ 4 ohms.
<b>Slew Rate</b>	> 12V/μs
<b>Damping Factor (8 ohms)</b>	> 200:1 @ 20Hz - 1kHz @ 8 ohms
<b>Input Sensitivity</b>	2.25 volts +/- 3% for 1kHz 4 ohm rated power, 2.195 volts +/- 3% for 1kHz 2 ohm rated power
<b>Input Impedance</b>	20 kilohms, balanced and 10 kilohms unbalanced.
<b>Current Draw @ 1/8 in VA (watts)</b>	2210 (1440) @ 2 ohms, 1550 (950) @ 4 ohms, 982 (560) @ 8 ohms
<b>Current Draw @ 1/3 in VA (watts)</b>	4260 (3150) @ 2 ohm, 3120 (2160) @ 4 ohms, 1890 (1200) @ 8 ohms
<b>Idle Consumption</b>	250VA, 120 watts.
<b>Cooling</b>	3 temperature dependent variable speed fans.
<b>Controls</b>	2 front panel attenuators, crossover select switch for HPF, Normal and LPF
<b>Indicator LEDs</b>	Five LED indicators per channel: Active, Signal, DDT, Temperature and DC
<b>Protection</b>	Thermal, DC, subsonic, incorrect loads, under and over voltage
<b>Connectors</b>	Inputs: Dual combination 1/4" XLR, Outputs: Dual 1/4" thru, one 2-pin & one 4 pin twist-lock connector
<b>Construction</b>	0.062" thick aluminum
<b>Dimensions</b>	3.5"x19"x 17" behind front panel + 0.6" for handle
<b>Net Weight</b>	6.61kg (14.6lbs.*)
<b>Gross Weight</b>	8.34kg (18.4lbs.)

Rated power readings made with BW: 20 Hz to 22 kHz. All power measurements made @ 120 VAC or 240VAC.

2 ohm steady state sine wave power is time limited by circuit breaker.

Bridge operation is not possible.

\*Net Weight does not include power cord.

# IPR2™ 5000 Specification Sheet

<b>Rated Watts 2ch x 2 ohms</b>	3230 watts 20ms repetitive burst / 2530 watts 1% THD both channels driven @ 1kHz.
<b>Rated Watts 2ch x 4 ohms</b>	1985 watts 20ms repetitive burst / 1700 watts 1% THD / 1470 watts 0.15% THD, both channels driven @ 1kHz.
<b>Rated Watts 2ch x 8 ohms</b>	1175 watts 20ms repetitive burst / 1025 watts 1% THD / 880 watts 0.15% THD, both channels driven @ 1kHz.
<b>Minimum Load Impedance</b>	2 ohms
<b>Maximum RMS Voltage Swing</b>	105 volts
<b>Frequency Response</b>	20Hz - 22kHz; +/- 0.5dB at 1 watt.
<b>20Hz - 20kHz 2ch x 2 ohms</b>	<0.5% @ 2250 watts 20Hz to 4kHz, decreasing to 1640 watts @ 20kHz, both channels driven.
<b>20Hz - 20kHz 2ch x 4 ohms</b>	<0.15% @ 1400 watts 20Hz to 10kHz, decreasing to 1350 watts @ 20kHz, both channels driven.
<b>20Hz - 20kHz 2ch x 8 ohms</b>	<0.15% @ 860 watts 20Hz to 4kHz, increasing to 1000 watts @ 20kHz, both channels driven.
<b>Input CMRR</b>	> -75dB @ 1 kHz.
<b>Voltage Gain</b>	x 40 (+32dB)
<b>Crossover</b>	100Hz switchable 2nd order high pass and 3rd low pass per channel.
<b>Crosstalk</b>	> -60dB @ 1kHz @ 700 watts power @ 8 ohms.
<b>Hum and Noise</b>	> -105dB, "A" weighted referenced to rated power @ 4 ohms.
<b>Slew Rate</b>	> 12V/ $\mu$ s
<b>Damping Factor (8 ohms)</b>	> 210:1 @ 20Hz - 1kHz @ 8 ohms
<b>Input Sensitivity</b>	1.95 volts +/- 3% for 1kHz 4 ohm rated power, 1.83 volts +/- 3% for 1kHz 2 ohm rated power
<b>Input Impedance</b>	20 kilohms, balanced and 10 kilohms unbalanced.
<b>Current Draw @ 1/8 in VA (watts)</b>	1435 (890) @ 2 ohms, 920 (525) @ 4 ohms, 625 (335) @ 8 ohms
<b>Current Draw @ 1/3 in VA (watts)</b>	3050 (2155) @ 2 ohms, 1880 (1200) @ 4 ohms, 1200 (715) @ 8 ohms
<b>Idle Consumption</b>	195VA, 90 watts.
<b>Cooling</b>	3 temperature dependent variable speed fans.
<b>Controls</b>	2 front panel attenuators, crossover select switch for HPF, Normal and LPF
<b>Indicator LEDs</b>	Five LED indicators per channel: Active, Signal, DDT, Temperature and DC
<b>Protection</b>	Thermal, DC, subsonic, incorrect loads, under and over voltage
<b>Connectors</b>	Inputs: Dual combination 1/4" XLR, Outputs: Dual 1/4" thru, one 2-pin & one 4 pin twist-lock connector
<b>Construction</b>	0.062" thick aluminum
<b>Dimensions</b>	3.5"x19"x 17" behind front panel + 0.6" for handle
<b>Net Weight</b>	6.2 kg (13.6 lbs.*)
<b>Gross Weight</b>	7.9 kg (17.4 lbs.)

Rated power readings made with BW: 20 Hz to 22 kHz. All power measurements made @ 120 VAC or 240VAC.

2 ohm steady state sine wave power is time limited by circuit breaker.

Bridge operation is not possible.

\*Net Weight does not include power cord.

# IPR2 7500 DSP Specification Sheet

<b>Rated Watts 2ch x 2 ohms</b>	4750 watts 20ms repetitive burst / 3750 watts 1% THD both channels driven @ 1kHz.
<b>Rated Watts 2ch x 4 ohms</b>	2800 watts 20ms repetitive burst / 2450 watts 1% THD / 2020 watts 0.15% THD, both channels driven @ 1kHz.
<b>Rated Watts 2ch x 8 ohms</b>	1550 watts 20ms repetitive burst / 1425 watts 1% THD / 1200 watts 0.15% THD, both channels driven @ 1kHz.
<b>Minimum Impedance</b>	2 ohms
<b>Maximum RMS Voltage Swing</b>	124 volts
<b>Frequency Response</b>	20Hz - 25kHz; +0dB, -3dB
<b>20Hz - 20kHz 2ch x 2 ohms</b>	<0.5% @ 3280 watts 20Hz to 4kHz, decreasing to 3000 watts @ 20kHz, both channels driven.
<b>20Hz - 20kHz 2ch x 4 ohms</b>	<0.15% @ 2000 watts 20Hz to 20kHz, both channels driven.
<b>20Hz - 20kHz 2ch x 8 ohms</b>	<0.15% @ 1200 watts 20Hz to 20kHz, both channels driven.
<b>Input CMRR</b>	> - 75dB @ 1 kHz.
<b>Voltage Gain</b>	x 70 (+37 dB)
<b>Crossover</b>	Adjustable High Pass and Low Pass filter per channel. Filter Types: 12dB/oct 2nd order, 18dB/oct 3rd order, 24dB/oct 4th order Butterworth and 24dB/oct 4th order Linkwitz –Riley
<b>Crosstalk</b>	> -60dB @ 1kHz @ 1000 watts power @ 8 ohms.
<b>Hum and Noise</b>	> -95dB, "A" weighted referenced to rated power @ 4 ohms.
<b>Slew Rate</b>	> 12V/ $\mu$ s
<b>Damping Factor (8 ohms)</b>	> 200:1 @ 20Hz - 1kHz @ 8 ohms
<b>Input Sensitivity</b>	1.290 volts +/- 3% for 1 kHz 4 ohm rated power, 1.240 volts +/- 3% for 1 kHz 2 ohm rated power
<b>Input Impedance</b>	12 kilohms, balanced and 10 kilohms unbalanced.
<b>Current Draw @ 1/8 in VA (watts)</b>	2210 (1440) @ 2 ohms, 1550 (950) @ 4 ohms, 982 (560) @ 8 ohms
<b>Current Draw @ 1/3 in VA (watts)</b>	4260 (3150) @ 2 ohms, 3120 (2160) @ 4 ohms, 1890 (1200) @ 8 ohms
<b>Idle Consumption</b>	250VA, 120 watts.
<b>Cooling</b>	3 temperature dependent variable speed fans.
<b>Controls</b>	2 front panel detented attenuators, push-button navigation encoder to navigate through the menus on the LCD screen for input mode, parametric EQ, crossover H.P.F, Normal, L.P.F. and more.
<b>Indicator LEDs</b>	Five LED indicators per channel: Active, Signal, DDT, Temperature and DC
<b>Protection</b>	Thermal, DC, subsonic, incorrect loads, under and over voltage
<b>Connectors</b>	Inputs: Dual combination 1/4" XLR, Outputs: Dual male XLR input thru, one 2-pin & one 4 pin twist-lock connectors
<b>Construction</b>	0.062" thick aluminum
<b>Dimensions</b>	3.5"x19"x 17" behind front panel + 0.6" for handle
<b>Net Weight</b>	6.61kg (14.6lbs.*)
<b>Gross Weight</b>	8.34kg (18.4lbs.)

Rated power readings made with BW: 20 Hz to 22 kHz. All power measurements made @ 120 VAC or 240VAC.

2 ohm steady state sine wave power is time limited by circuit breaker.

Bridge operation is not possible.

\*Net Weight does not include power cord.

# IPR2™ 5000 DSP Specification Sheet

<b>Rated Watts 2ch x 2 ohms</b>	3230 watts 20ms repetitive burst / 2530 watts 1% THD both channels driven @ 1kHz.
<b>Rated Watts 2ch x 4 ohms</b>	1985 watts 20ms repetitive burst / 1700 watts 1% THD / 1470 watts 0.15% THD, both channels driven @ 1kHz.
<b>Rated Watts 2ch x 8 ohms</b>	1175 watts 20ms repetitive burst / 1025 watts 1% THD / 880 watts 0.15% THD, both channels driven @ 1kHz.
<b>Minimum Load Impedance</b>	2 ohms
<b>Maximum RMS Voltage Swing</b>	105 volts
<b>Frequency Response</b>	20Hz - 22kHz; +/- 0.5dB at 1 watt.
<b>20Hz - 20kHz 2ch x 2 ohms</b>	<0.5% @ 2250 watts 20Hz to 4kHz, decreasing to 1640 watts @ 20kHz, both channels driven.
<b>20Hz - 20kHz 2ch x 4 ohms</b>	<0.15% @ 1400 watts 20Hz to 10kHz, decreasing to 1350 watts @ 20kHz, both channels driven.
<b>20Hz - 20kHz 2ch x 8 ohms</b>	<0.15% @ 860 watts 20Hz to 4kHz, increasing to 1000 watts @ 20kHz, both channels driven.
<b>Input CMRR</b>	> - 75dB @ 1 kHz.
<b>Voltage Gain</b>	x 70 (+37dB)
<b>Crossover</b>	Adjustable High Pass and Low Pass filter per channel. Filter Types: 12dB/oct 2nd order, 18dB/oct 3rd order, 24dB/oct 4th order Butterworth and 24dB/oct 4th order Linkwitz –Riley.
<b>Crosstalk</b>	-60dB @ 1kHz @ 700 watts power @ 8 ohms.
<b>Hum and Noise</b>	> -96dB, "A" weighted referenced to rated power @ 4 ohms.
<b>Slew Rate</b>	> 12V/μs
<b>Damping Factor (8 ohms)</b>	> 210:1 @ 20Hz - 1kHz @ 8 ohms
<b>Input Sensitivity</b>	1.094 volts +/- 3% for 1 kHz 4 ohm rated power, 1.025 volts +/- 3% for 1 kHz 2 ohm rated power.
<b>Input Impedance</b>	12 kilohms, balanced and 6 kilohms unbalanced.
<b>Current Draw @ 1/8 in VA (watts)</b>	1435 (890) @ 2 ohms, 920 (525) @ 4 ohms, 625 (335) @ 8 ohms
<b>Current Draw @ 1/3 in VA (watts)</b>	3050 (2155) @ 2 ohms, 1880 (1200) @ 4 ohms, 1200 (715) @ 8 ohms
<b>Idle Consumption</b>	195VA, 90 watts.
<b>Cooling</b>	3 temperature dependent variable speed fans.
<b>Controls</b>	2 front panel attenuators, crossover select switch for HPF, Normal and LPF
<b>Indicator LEDs</b>	Five LED indicators per channel: Active, Signal, DDT, Temperature and DC
<b>Protection</b>	Thermal, DC, subsonic, incorrect loads, under and over voltage
<b>Connectors</b>	Inputs: Dual combination 1/4" XLR, Outputs: Dual male XLR input thru, one 2-pin & one 4 pin twist-lock connector
<b>Construction</b>	0.062" thick aluminum
<b>Dimensions</b>	3.5"x19"x 17" behind front panel + 0.6" for handle
<b>Net Weight</b>	6.2 kg (13.6 lbs.*)
<b>Gross Weight</b>	7.9 kg (17.4 lbs.)

Rated power readings made with BW: 20 Hz to 22 kHz. All power measurements made @ 120 VAC or 240VAC.

2 ohm steady state sine wave power is time limited by circuit breaker.

Bridge operation is not possible.

\*Net Weight does not include power cord.







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Features and specifications subject to change without notice.

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Logo referenced in Directive 2002/96/EC Annex IV  
(OJ(L)37/38, 13.02.03 and defined in EN 50419: 2005  
The bar is the symbol for marking of new waste and  
is applied only to equipment manufactured after  
13 August 2005