




## DP48


Dual 48 Channel Personal Monitor Mixer with SD Card Recorder,  
Stereo Ambience Microphone and Remote Powering


EN


## EN Important Safety Instructions





 Terminals marked with this symbol carry electrical current of sufficient magnitude to constitute risk of electric shock. Use only high-quality professional speaker cables with ¼" TS or twist-locking plugs pre-installed. All other installation or modification should be performed only by qualified personnel.

 This symbol, wherever it appears, alerts you to the presence of uninsulated dangerous voltage inside the enclosure - voltage that may be sufficient to constitute a risk of shock.

 This symbol, wherever it appears, alerts you to important operating and maintenance instructions in the accompanying literature. Please read the manual.

 **Caution**  
To reduce the risk of electric shock, do not remove the top cover (or the rear section). No user serviceable parts inside. Refer servicing to qualified personnel.

 **Caution**  
To reduce the risk of fire or electric shock, do not expose this appliance to rain and moisture. The apparatus shall not be exposed to dripping or splashing liquids and no objects filled with liquids, such as vases, shall be placed on the apparatus.

 **Caution**  
These service instructions are for use by qualified service personnel only. To reduce the risk of electric shock do not perform any servicing other than that contained in the operation instructions. Repairs have to be performed by qualified service personnel.

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 dry cloth.
7. Do not block any ventilation openings. Install in accordance with the 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 prong. The wide blade or the third prong are 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 where they exit from the apparatus.
11. Use only attachments/accessories specified by the manufacturer.



12. Use only with the 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. The apparatus shall be connected to a MAINS socket outlet with a protective earthing connection.

16. Where the MAINS plug or an appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.



17. Correct disposal of this product: This symbol indicates that this product must not be disposed of with household waste, according to the WEEE Directive (2012/19/EU) and your national law. This product should be taken to a collection center licensed for the recycling of waste electrical and electronic equipment (EEE).

The mishandling of this type of waste could have a possible negative impact on the environment and human health due to potentially hazardous substances that are generally associated with EEE. At the same time, your cooperation in the correct disposal of this product will contribute to the efficient use of natural resources. For more information about where you can take your waste equipment for recycling, please contact your local city office, or your household waste collection service.

18. Do not install in a confined space, such as a book case or similar unit.

19. Do not place naked flame sources, such as lighted candles, on the apparatus.

20. Please keep the environmental aspects of battery disposal in mind. Batteries must be disposed of at a battery collection point.

21. Use this apparatus in tropical and/or moderate climates.

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## ES Instrucciones de seguridad



 Las terminales marcadas con este símbolo transportan corriente eléctrica de magnitud suficiente como para constituir un riesgo de descarga eléctrica. Utilice solo cables de altavoz profesionales y de alta calidad con conectores TS de 6,3 mm o de bayoneta prefijados. Cualquier otra instalación o modificación debe ser realizada únicamente por un técnico cualificado.

 Este símbolo, siempre que aparece, le advierte de la presencia de voltaje peligroso sin aislar dentro de la caja; este voltaje puede ser suficiente para constituir un riesgo de descarga.



Este símbolo, siempre que aparece, le advierte sobre instrucciones operativas y de mantenimiento que aparecen en la documentación adjunta. Por favor, lea el manual.



**Atención**  
Para reducir el riesgo de descarga eléctrica, no quite la tapa (o la parte posterior). No hay piezas en el interior del equipo que puedan ser reparadas por el usuario. Si es necesario, póngase en contacto con personal cualificado.



**Atención**  
Para reducir el riesgo de incendio o descarga eléctrica, no ponga este aparato a la lluvia, humedad o alguna otra fuente que pueda salpicar o derramar algún líquido sobre el aparato. No coloque ningún tipo de recipiente para líquidos sobre el aparato.



**Atención**  
Las instrucciones de servicio deben llevarlas a cabo exclusivamente personal cualificado. Para evitar el riesgo de una descarga eléctrica, no realice reparaciones que no se encuentren descritas en el manual de operaciones. Las reparaciones deben ser realizadas exclusivamente por personal cualificado.

1. Lea las instrucciones.
2. Conserve estas instrucciones.
3. Preste atención a todas las advertencias.
4. Siga todas las instrucciones.
5. No use este aparato cerca del agua.
6. Limpie este aparato con un paño seco.
7. No bloquee las aberturas de ventilación. Instale el equipo de acuerdo con las instrucciones del fabricante.

8. No instale este equipo cerca de fuentes de calor tales como radiadores, acumuladores de calor, estufas u otros aparatos (incluyendo amplificadores) que puedan producir calor.



12. Use únicamente la carretilla, plataforma, trípode, soporte o mesa especificados

por el fabricante o suministrados junto con el equipo. Al transportar el equipo, tenga cuidado para evitar daños y caídas al tropezar con algún obstáculo.

13. Desenchufe el equipo durante tormentas o si no va a utilizarlo durante un periodo largo.

14. Confíe las reparaciones únicamente a servicios técnicos cualificados. La unidad requiere mantenimiento siempre que haya sufrido algún daño, si el cable de suministro de energía o el enchufe presentaran daños, se hubiera derramado un líquido o hubieran caído objetos dentro del equipo, si el aparato hubiera estado expuesto a la humedad o la lluvia, si ha dejado de funcionar de manera normal o si ha sufrido algún golpe o caída.

15. Al conectar la unidad a la toma de corriente eléctrica asegúrese de que la conexión disponga de una unión a tierra.

EN

ES

16. Si el enchufe o conector de red sirve como único medio de desconexión, éste debe ser accesible fácilmente.



17. Cómo debe deshacerse de este aparato: Este símbolo indica que este aparato no debe ser tratado como basura orgánica, según lo indicado en la Directiva WEEE (2012/19/EU) y a las normativas aplicables en su país. En lugar de ello deberá llevarlo al punto limpio más cercano para el reciclaje de sus elementos eléctricos / electrónicos (EEE). Al hacer esto estará ayudando a prevenir las posibles consecuencias negativas para el medio ambiente y la salud que podrían ser provocadas por una gestión inadecuada de este tipo de aparatos. Además, el reciclaje de materiales ayudará a conservar los recursos naturales. Para más información acerca del reciclaje de este aparato, póngase en contacto con el Ayuntamiento de su ciudad o con el punto limpio local.

18. No instale esta unidad en un espacio muy reducido, tal como encastrada en una librería o similar.

19. No coloque objetos con llama, como una vela encendida, sobre este aparato.

20. Tenga presentes todas las advertencias relativas al reciclaje y correcta eliminación de las pilas. Las pilas deben ser siempre eliminadas en un punto limpio y nunca con el resto de la basura orgánica.

21. Use este aparato en rangos de temperatura moderados y/o tropicales.

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### FR Consignes de sécurité



Les points repérés par ce symbole portent une tension électrique suffisante pour constituer un risque d'électrocution. Utilisez uniquement des câbles d'enceintes professionnels de haute qualité avec fiches Jack mono 6,35 mm ou fiches à verrouillages déjà installées. Toute autre installation ou modification doit être effectuée uniquement par un personnel qualifié.



Ce symbole avertit de la présence d'une tension dangereuse et non isolée à l'intérieur de l'appareil - elle peut provoquer des chocs électriques.



**Attention** Ce symbol signale les consignes d'utilisation et d'entre ! Tien importantes dans la documentation fournie. Lisez les consignes de sécurité du manuel d'utilisation de l'appareil.



**Attention** Pour éviter tout risque de choc électrique, ne pas ouvrir le capot de l'appareil ni démonter le panneau arrière. L'intérieur de l'appareil ne possède aucun élément réparable par l'utilisateur. Laisser toute réparation à un professionnel qualifié.



**Attention** Pour réduire les risques de feu et de choc électrique, n'exposez pas cet appareil à la pluie, à la moisissure, aux gouttes ou aux éclaboussures. Ne posez pas de récipient contenant un liquide sur l'appareil (un vase par exemple).



**Attention** Ces consignes de sécurité et d'entretien sont destinées à un personnel qualifié. Pour éviter tout risque de choc électrique, n'effectuez aucune réparation sur l'appareil qui ne soit décrite par le manuel d'utilisation. Les éventuelles réparations doivent être effectuées uniquement par un technicien spécialisé.

1. Lisez ces consignes.
2. Conservez ces consignes.
3. Respectez tous les avertissements.
4. Respectez toutes les consignes d'utilisation.
5. N'utilisez jamais l'appareil à proximité d'un liquide.
6. Nettoyez l'appareil avec un chiffon sec.
7. Veillez à ne pas empêcher la bonne ventilation de l'appareil via ses ouïes de ventilation. Respectez les consignes du fabricant concernant l'installation de l'appareil.
8. Ne placez pas l'appareil à proximité d'une source de chaleur telle qu'un chauffage, une cuisinière ou tout appareil dégageant de la chaleur (y compris un ampli de puissance).
9. Ne supprimez jamais la sécurité des prises bipolaires ou des prises terre. Les prises bipolaires possèdent deux contacts de largeur différente. Le plus large est le contact de sécurité. Les prises terre possèdent deux

contacts plus une mise à la terre servant de sécurité. Si la prise du bloc d'alimentation ou du cordon d'alimentation fourni ne correspond pas à celles de votre installation électrique, faites appel à un électricien pour effectuer le changement de prise.

10. Installez le cordon d'alimentation de telle façon que personne ne puisse marcher dessus et qu'il soit protégé d'arêtes coupantes. Assurez-vous que le cordon d'alimentation est suffisamment protégé, notamment au niveau de sa prise électrique et de l'endroit où il est relié à l'appareil; cela est également valable pour une éventuelle rallonge électrique.

11. Utilisez exclusivement des accessoires et des appareils supplémentaires recommandés par le fabricant.



12. Utilisez exclusivement des chariots, des diables, des présentoirs, des pieds et des

surfaces de travail recommandés par le fabricant ou livrés avec le produit. Déplacez précautionneusement tout chariot ou diable chargé pour éviter d'éventuelles blessures en cas de chute.

13. Débranchez l'appareil de la tension secteur en cas d'orage ou si l'appareil reste inutilisé pendant une longue période de temps.

14. Les travaux d'entretien de l'appareil doivent être effectués uniquement par du personnel qualifié. Aucun entretien n'est nécessaire sauf si l'appareil est endommagé de quelque façon que ce soit (dommages sur le cordon d'alimentation ou la prise par exemple), si un liquide ou un objet a pénétré à l'intérieur du châssis, si l'appareil a été exposé à la pluie ou à l'humidité, s'il ne fonctionne pas correctement ou à la suite d'une chute.

15. L'appareil doit être connecté à une prise secteur dotée d'une protection par mise à la terre.

16. La prise électrique ou la prise IEC de tout appareil dénué de bouton marche/arrêt doit rester accessible en permanence.



17. Mise au rebut appropriée de ce produit: Ce symbole indique qu'en accord avec la directive DEEE (2012/19/EU) et les lois en vigueur dans votre pays, ce produit ne doit pas être jeté avec les déchets ménagers.

Ce produit doit être déposé dans un point de collecte agréé pour le recyclage des déchets d'équipements électriques et électroniques (EEE). Une mauvaise manipulation de ce type de déchets pourrait avoir un impact négatif sur l'environnement et la santé à cause de substances potentiellement dangereuses généralement associées à ces équipements. En même temps, votre coopération dans la mise au rebut de ce produit contribuera à l'utilisation efficace des ressources naturelles. Pour plus d'informations sur l'endroit où vous pouvez déposer vos déchets d'équipements pour le recyclage, veuillez contacter votre mairie ou votre centre local de collecte des déchets.

18. N'installez pas l'appareil dans un espace confiné tel qu'une bibliothèque ou meuble similaire.

19. Ne placez jamais d'objets enflammés, tels que des bougies allumées, sur l'appareil.

20. Gardez à l'esprit l'impact environnemental lorsque vous mettez des piles au rebut. Les piles usées doivent être déposées dans un point de collecte adapté.

21. Utilisez l'appareil dans un climat tropical et/ou modéré.

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### DE Wichtige Sicherheitshinweise



**Vorsicht** Die mit dem Symbol markierten Anschlüsse führen so viel Spannung, dass die Gefahr eines Stromschlags besteht. Verwenden Sie nur hochwertige, professionelle Lautsprecherkabel mit vorinstallierten 6,35 mm MONO-Klinkensteckern oder Lautsprecherstecker mit Drehverriegelung. Alle anderen Installationen oder Modifikationen sollten nur von qualifiziertem Fachpersonal ausgeführt werden.



**Achtung** Um eine Gefährdung durch Stromschlag auszuschließen, darf die Geräteabdeckung bzw. Geräterückwand nicht abgenommen werden. Im Innern des Geräts befinden sich keine vom Benutzer reparierbaren Teile. Reparaturarbeiten dürfen nur von qualifiziertem Personal ausgeführt werden.

**Achtung**

Um eine Gefährdung durch Feuer bzw. Stromschlag auszuschließen, darf dieses Gerät weder Regen oder Feuchtigkeit ausgesetzt werden noch sollten Spritzwasser oder tropfende Flüssigkeiten in das Gerät gelangen können. Stellen Sie keine mit Flüssigkeit gefüllten Gegenstände, wie z. B. Vasen, auf das Gerät.

**Achtung**

Die Service-Hinweise sind nur durch qualifiziertes Personal zu befolgen. Um eine Gefährdung durch Stromschlag zu vermeiden, führen Sie bitte keinerlei Reparaturen an dem Gerät durch, die nicht in der Bedienungsanleitung beschrieben sind. Reparaturen sind nur von qualifiziertem Fachpersonal durchzuführen.

1. Lesen Sie diese Hinweise.
2. Bewahren Sie diese Hinweise auf.
3. Beachten Sie alle Warnhinweise.
4. Befolgen Sie alle Bedienungshinweise.
5. Betreiben Sie das Gerät nicht in der Nähe von Wasser.
6. Reinigen Sie das Gerät mit einem trockenen Tuch.
7. Blockieren Sie nicht die Belüftungsschlitze. Beachten Sie beim Einbau des Gerätes die Herstellerhinweise.
8. Stellen Sie das Gerät nicht in der Nähe von Wärmequellen auf. Solche Wärmequellen sind z. B. Heizkörper, Herde oder andere Wärme erzeugende Geräte (auch Verstärker).
9. Entfernen Sie in keinem Fall die Sicherheitsvorrichtung von Zweipol- oder geerdeten Steckern. Ein Zweipolstecker hat zwei unterschiedlich breite Steckkontakte. Ein geerdeter Stecker hat zwei Steckkontakte und einen dritten Erdungskontakt. Der breitere Steckkontakt oder der zusätzliche Erdungskontakt dient Ihrer Sicherheit. Falls das mitgelieferte Steckerformat nicht zu Ihrer Steckdose passt, wenden Sie sich bitte an einen Elektriker, damit die Steckdose

entsprechend ausgetauscht wird.

**10.** Verlegen Sie das Netzkabel so, dass es vor Tritten und scharfen Kanten geschützt ist und nicht beschädigt werden kann. Achten Sie bitte insbesondere im Bereich der Stecker, Verlängerungskabel und an der Stelle, an der das Netzkabel das Gerät verlässt, auf ausreichenden Schutz.

**11.** Das Gerät muss jederzeit mit intaktem Schutzleiter an das Stromnetz angeschlossen sein.

**12.** Sollte der Hauptnetzstecker oder eine Gerätereckdose die Funktionseinheit zum Abschalten sein, muss diese immer zugänglich sein.

**13.** Verwenden Sie nur Zusatzgeräte/ Zubehörteile, die laut Hersteller geeignet sind.



**14.** Verwenden Sie nur Wagen, Standvorrichtungen, Stative, Halter oder Tische, die vom Hersteller

benannt oder im Lieferumfang des Geräts enthalten sind. Falls Sie einen Wagen benutzen, seien Sie vorsichtig beim Bewegen der Wagen-Gerätkombination, um Verletzungen durch Stolpern zu vermeiden.

**15.** Ziehen Sie den Netzstecker bei Gewitter oder wenn Sie das Gerät längere Zeit nicht benutzen.

**16.** Lassen Sie alle Wartungsarbeiten nur von qualifiziertem Service-Personal ausführen. Eine Wartung ist notwendig, wenn das Gerät in irgendeiner Weise beschädigt wurde (z. B. Beschädigung des Netzkabels oder Steckers), Gegenstände oder Flüssigkeit in das Geräterinnere gelangt sind, das Gerät Regen oder Feuchtigkeit ausgesetzt wurde, das Gerät nicht ordnungsgemäß funktioniert oder auf den Boden gefallen ist.



**17.** Korrekte Entsorgung dieses Produkts: Dieses Symbol weist darauf hin, das Produkt entsprechend der WEEE Richtlinie (2012/19/EU) und der jeweiligen nationalen Gesetze nicht

zusammen mit Ihren Haushaltsabfällen zu entsorgen. Dieses Produkt sollte bei einer autorisierten Sammelstelle für Recycling elektrischer und elektronischer Geräte (EEE) abgegeben werden. Wegen bedenkllicher Substanzen, die generell mit elektrischen und elektronischen Geräten in Verbindung stehen, könnte eine unsachgemäße Behandlung dieser Abfallart eine negative Auswirkung auf Umwelt und Gesundheit haben. Gleichzeitig gewährleistet Ihr Beitrag zur richtigen Entsorgung dieses Produkts die effektive Nutzung natürlicher Ressourcen. Für weitere Informationen zur Entsorgung Ihrer Geräte bei einer Recycling-Stelle nehmen Sie bitte Kontakt zum zuständigen städtischen Büro, Entsorgungsamt oder zu Ihrem Haushaltsabfallentsorger auf.

**18.** Installieren Sie das Gerät nicht in einer beengten Umgebung, zum Beispiel Bücherregal oder ähnliches.

**19.** Stellen Sie keine Gegenstände mit offenen Flammen, etwa brennende Kerzen, auf das Gerät.

**20.** Beachten Sie bei der Entsorgung von Batterien den Umweltschutz-Aspekt. Batterien müssen bei einer Batterie-Sammelstelle entsorgt werden.

**21.** Verwenden Sie das Gerät in tropischen und/oder gemäßigten Klimazonen.

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**PT Instruções de Segurança Importantes**

**Aviso!** Terminais marcados com o símbolo carregam corrente elétrica de magnitude suficiente para constituir um risco de choque elétrico. Use apenas cabos de alto-falantes de alta qualidade com plugues TS de ¼" ou plugues com trava de torção pré-instalados. Todas as outras instalações e modificações devem ser efetuadas por pessoas qualificadas.



Este símbolo, onde quer que o encontre, alerta-o para a leitura das instruções de manuseamento que acompanham o equipamento. Por favor leia o manual de instruções.



**Atenção** De forma a diminuir o risco de choque eléctrico, não remover a cobertura (ou a secção de trás). Não existem peças substituíveis por parte do utilizador no seu interior. Para esse efeito recorrer a um técnico qualificado.



**Atenção** Para reduzir o risco de incêndios ou choques eléctricos o aparelho não deve ser

exposto à chuva nem à humidade. Além disso, não deve ser sujeito a salpicos, nem devem ser colocados em cima do aparelho objectos contendo líquidos, tais como jarras.

**Atenção**

Estas instruções de operação devem ser utilizadas, em exclusivo, por técnicos de assistência qualificados. Para evitar choques eléctricos não proceda a reparações ou intervenções, que não as indicadas nas instruções de operação, salvo se possuir as qualificações necessárias. Para evitar choques eléctricos não proceda a reparações ou intervenções, que não as indicadas nas instruções de operação. Só o deverá fazer se possuir as qualificações necessárias.

1. Leia estas instruções.
2. Guarde estas instruções.
3. Preste atenção a todos os avisos.
4. Siga todas as instruções.
5. Não utilize este dispositivo perto de água.
6. Limpe apenas com um pano seco.
7. Não obstrua as entradas de ventilação. Instale de acordo com as instruções do fabricante.
8. Não instale perto de quaisquer fontes de calor tais como radiadores, bocas de ar quente, fogões de sala ou outros aparelhos (incluindo amplificadores) que produzam calor.
9. Não anule o objectivo de segurança das fichas polarizadas ou do tipo de ligação à terra. Uma ficha polarizada dispõe de duas palhetas sendo uma mais larga do que a outra. Uma ficha do tipo ligação à terra dispõe de duas palhetas e um terceiro dente de ligação à terra. A palheta larga ou o terceiro dente são fornecidos para sua segurança. Se a ficha fornecida não encaixar na sua tomada, consulte um electricista para a substituição da tomada obsoleta.
10. Proteja o cabo de alimentação de pisadelas ou apertos, especialmente nas fichas, extensões, e no local de saída da unidade. Certifique-se de que o cabo eléctrico está protegido.

Verifique particularmente nas fichas, nos receptáculos e no ponto em que o cabo sai do aparelho.

**11.** O aparelho tem de estar sempre conectado à rede eléctrica com o condutor de protecção intacto.

**12.** Se utilizar uma ficha de rede principal ou uma tomada de aparelhos para desligar a unidade de funcionamento, esta deve estar sempre acessível.

**13.** Utilize apenas ligações/acessórios especificados pelo fabricante.



**14.** Utilize apenas com o carrinho, estrutura, tripé, suporte, ou mesa especificados pelo fabricante ou

vendidos com o dispositivo.

Quando utilizar um carrinho, tenha cuidado ao mover o conjunto carrinho/dispositivo para evitar danos provocados pela terpidação.

**15.** Desligue este dispositivo durante as trovoadas ou quando não for utilizado durante longos períodos de tempo.

**16.** Qualquer tipo de reparação deve ser sempre efectuado por pessoal qualificado. É necessária uma reparação sempre que a unidade tiver sido de alguma forma danificada, como por exemplo: no caso do cabo de alimentação ou ficha se encontrarem danificados; na eventualidade de líquido ter sido derramado ou objectos terem caído para dentro do dispositivo; no caso da unidade ter estado exposta à chuva ou à humidade; se esta não funcionar normalmente, ou se tiver caído.



**17.** Correcta eliminação deste produto: este símbolo indica que o produto não deve ser eliminado juntamente com os resíduos domésticos, segundo a Directiva REEE (2012/19/EU) e a legislação nacional. Este produto deverá ser levado para um centro de recolha licenciado para a reciclagem de resíduos de equipamentos eléctricos e electrónicos (EEE). O tratamento incorrecto deste tipo de resíduos pode ter um eventual



impacto negativo no ambiente e na saúde humana devido a substâncias potencialmente perigosas que estão geralmente associadas aos EEE. Ao mesmo tempo, a sua colaboração para a eliminação correcta deste produto irá contribuir para a utilização eficiente dos recursos naturais. Para mais informação acerca dos locais onde poderá deixar o seu equipamento usado para reciclagem, é favor contactar os serviços municipais locais, a entidade de gestão de resíduos ou os serviços de recolha de resíduos domésticos.

**18.** Não instale em lugares confinados, tais como estantes ou unidades similares.

**19.** Não coloque fontes de chama, tais como velas acesas, sobre o aparelho.

**20.** Favor, obedecer os aspectos ambientais de descarte de bateria. Baterias devem ser descartadas em um ponto de coletas de baterias.

**21.** Use este aparelho em climas tropicais e/ou moderados.

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### Attenzione

I terminali contrassegnati con il simbolo conducono una corrente elettrica sufficiente a costituire un rischio di scossa elettrica. Usare unicamente cavi per altoparlanti (Speaker) d'elevata qualità con connettori jack TS da ¼" pre-installati. Ogni altra installazione o modifica deve essere effettuata esclusivamente da personale tecnico qualificato.



### Attenzione

Questo simbolo, ovunque appaia, avverte della presenza di una tensione pericolosa non isolata all'interno dello chassis, tensione che può essere sufficiente per costituire un rischio di scossa elettrica.



### Attenzione

Questo simbolo, ovunque appaia, segnala importanti istruzioni operative e di manutenzione nella documentazione allegata. Si invita a leggere il manuale.



### Attenzione

Per ridurre il rischio di scosse elettriche, non rimuovere il coperchio superiore (o la sezione posteriore). All'interno non ci sono parti riparabili dall'utente. Per la manutenzione rivolgersi a personale qualificato.



### Attenzione

Per ridurre il rischio di incendi o scosse

elettriche, non esporre questo apparecchio a pioggia e umidità. L'apparecchio non deve essere esposto a gocciolio o schizzi di liquidi e nessun oggetto contenente liquidi, come vasi, deve essere collocato sull'apparecchio.

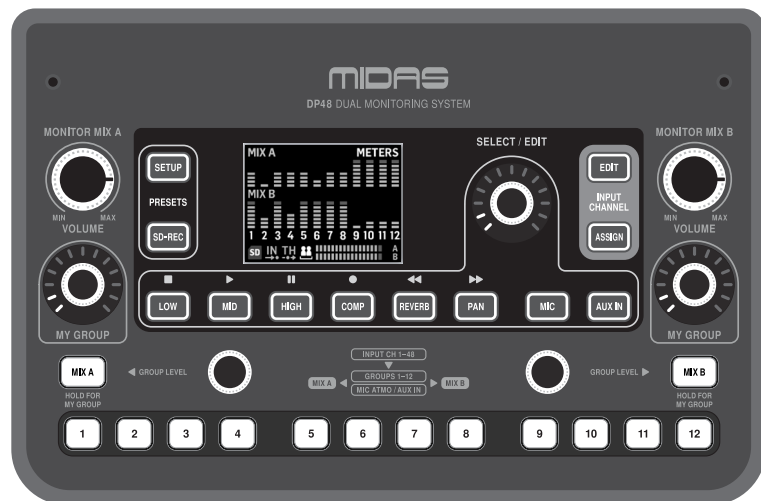


### Attenzione

Queste istruzioni di servizio sono destinate esclusivamente a personale qualificato. Per ridurre il rischio di scosse elettriche non eseguire interventi di manutenzione diversi da quelli contenuti nel manuale di istruzioni. Le riparazioni devono essere eseguite da personale di assistenza qualificato.

1. Leggere queste istruzioni.
2. Conservare queste istruzioni.
3. Prestare attenzione a tutti gli avvisi.
4. Applicare tutte le istruzioni.
5. Non utilizzare questo dispositivo vicino l'acqua.
6. Pulire esclusivamente con un panno asciutto.
7. Non bloccare le aperture di ventilazione. Installare in conformità con le istruzioni del produttore.
8. Non installare vicino a fonti di calore come radiatori, termoregolatori, stufe o altri apparecchi (inclusi amplificatori) che producono calore.
9. Non escludere la sicurezza fornita dalla spina polarizzata o con messa a terra. Una spina polarizzata ha due lame, una più larga dell'altra. Una spina con messa a terra ha due lame e un terzo polo di messa a terra. La lama larga o il terzo polo sono forniti per la vostra sicurezza. Se la spina fornita non si adatta alla presa, consultare un elettricista per la sostituzione della presa obsoleta.
10. Proteggere il cavo di alimentazione dal calpestio o essere schiacciato in particolare alle spine, prese di corrente e il punto in cui esce dall'apparecchio.
11. Utilizzare esclusivamente dispositivi/accessori specificati dal produttore.

# 1. Introduction



## Welcome!

Thank you for purchasing the DP48 Personal Monitor Mixer!

The DP48 unit is housed in a compact format suitable for mounting on microphone stands with the optional DP48MB mounting bracket system (sold separately).

All user controls are laid out for ease of use on the top panel, while all primary connectors are on the DP48's rear panel.

The DP48 Dual Monitoring Mixer uses a low-latency, floating point audio engine to provide excellent stage and IEM (In Ear Monitoring) sound with independent mixes for one or two users. The mixer can be operated in two different modes: SINGLE (one mix for one musician, with dual MY GROUP knobs available) and DUAL (separate mixes for two musicians).

The DP48's AES50 connection provides 48 individual input channels at 48 kHz/24-bit resolution that can freely be mixed to 12 stereo groups. All 12 stereo groups feature semi-parametric 3-band EQ, compression and reverb sends. Mixes A and B each have their own EQ processing and an adjustable brickwall limiter to prevent excessive levels on the phones outputs.

DP48 also includes an automatic configuration function to simplify Channel-to-Group assignments when setting up mixes. Now, instead of manually setting up your Groups from scratch, DP48 can automatically evaluate the AES50 datastream and assign to Groups 1-12 all channels that share specific common features, such as channel colours or channel names. This auto-configuration function thereby allows the engineer to easily distribute his mix structure throughout the connected IEM (In Ear Monitoring) world.

## Features

- Dual 48 channel personal monitor mixer compatible with MIDAS personal monitoring system hubs
- 12 stereo groups enable rapid creation and balancing of personal mixes from fully configurable stem groups
- Dual mix feature allows independent control of two complete monitor mixes
- Integrated SD card interface for stereo recording and playback of rehearsal sessions and performances
- Built-in stereo ambience microphone provides on-stage sound feed to remove sense of isolation with in-ear monitors
- Studio-quality reverb adds spatial ambience to personal in-ear mixes, independent from main console
- Remotely powered via direct AES50 connection from MIDAS hubs featuring Power over Ethernet (PoE)
- Separate DC power supply allows daisy-chaining of DP48 personal monitor mixers and use without any PoE hub
- Compatible with any 44.1/48 kHz AES50-equipped devices including Midas and Behringer digital consoles and I/O boxes
- Midas PRO SERIES and M32 console input channel labelling and colour information transmitted to DP48 personal monitor mixer via AES50 input channels
- AES50 return channels allow personal mixes to be sent back to the console or hub for connection to wireless IEM transmitters
- Remote operation up to 100 m via screened CAT5/5e cable
- Remote setup and control of DP48 personal monitor mixer via MIDAS hubs
- Full remote control of another DP48 when both connected to the same hub or used in daisy chain configuration
- High-contrast 2.4" colour TFT display screen provides clear overview of mix parameters, meters and group assignments
- Analogue stereo auxiliary input for local click track
- High power headphone output for use in all stage monitoring environments
- Fully adjustable limiter allows for safe monitoring levels within sound exposure limits
- Mounts securely on microphone stand with DP48MB adaptor (not included)
- 10-Year Warranty Program\*
- Designed and engineered in the U.K.

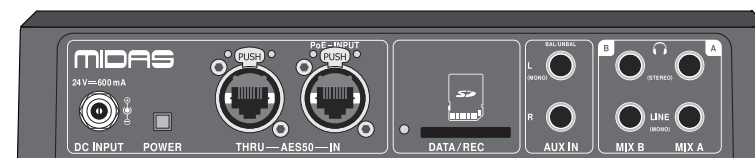
\*Warranty details can be found at [musictribe.com/support](http://musictribe.com/support)

## About this manual

This is the operation manual for the DP48 Personal Monitor Mixer. This manual is intended to help get your unit installed and in operation as quickly as possible by giving you unpacking, installation, connection, setting up and operating instructions. To help familiarise you with the DP48, there is a description of the top and rear panels, along with easy-to-follow user instructions.

## For additional information

For an extra overview and summary of DP48's signal flow and architecture, see the supplemental Block Diagram/Operations Chart posted to the DP48 product page online at [www.midas.com/p/POBMX/Downloads](http://www.midas.com/p/POBMX/Downloads).



## 2. Getting Started

### Unpacking

Carefully unpack your DP48 unit. Then, inspect the unit carefully for any signs of damage that may have occurred during transit and notify the courier immediately if you discover any.

Check the contents of your DP48 equipment package. If there are any parts missing, incorrect or faulty, please contact your local distributor or MIDAS support.

Inside this box, you should find the following items:

- DP48 personal mixer
- external power supply
- Quick Start Guide

Please retain the original packing in case you should need to return the equipment to the manufacturer or supplier, or transport or ship the unit later.

### Power

The DP48 unit can be powered remotely over the AES50 connection or by directly connecting the included external power supply.

**NOTE:** When powering on, if the position of the MONITOR MIX A or MONITOR MIX B knob is higher than approx. 25% (9 o'clock), the device will remain locked, audio is muted, and the following indication will appear on the display:

#### ATTENTION!

TURN DOWN VOLUME  
OF MONITOR MIX A / B

This security mechanism protects your ears and saves your headphones from damage due to excessive high volume. To unlock the device and reactivate audio, just turn both knobs fully counter-clockwise.

### Connecting up

The DP48 unit uses the following leads and connectors: Mono Line Out—Balanced ¼" TRS connectors

#### AES50 Connections:

Neutrik EtherCON with status indication

#### Primary Analogue Inputs:

Aux Inputs – Balanced ¼" TRS connectors

#### Primary Analogue Outputs:

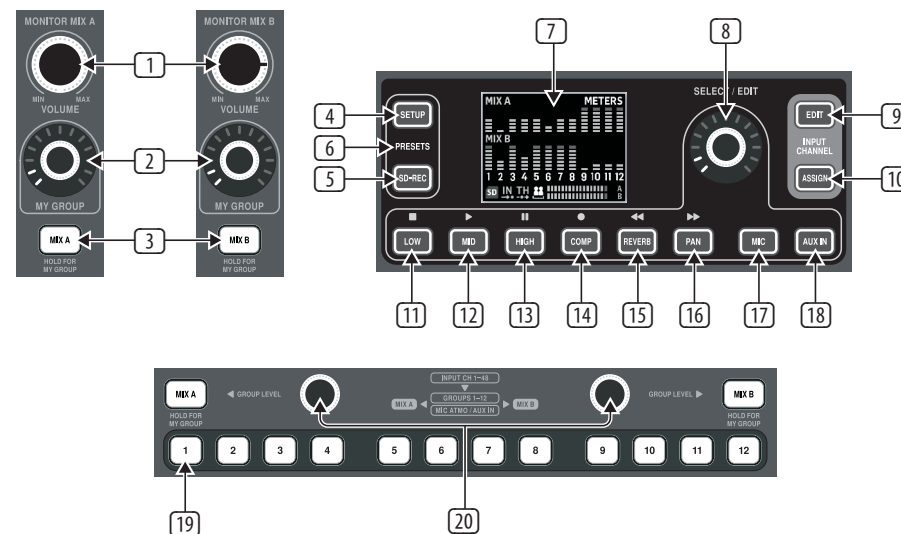
Phones – Stereo dual ¼" TRS connectors

#### Power Connections:

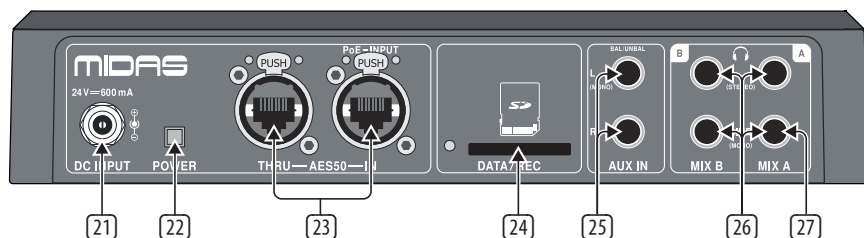
Remote power over AES50

External DC power supply


## 3. Top and Rear Panels



- VOLUME** knob controls the overall output volume for the knob's respective mix.
- MY GROUP** knob can be assigned to one of the 12 Groups to permanently control that Group's level on the respective MIX A/MIX B output
- MIX A/MIX B** buttons allow you to select the mix's processing, including EQ, Limiter and Reverb return.
- SETUP** button accesses the settings mixer modes, SD recorder, reverb type, AUX IN input, ambience mic, brightness, remote control and other general preferences.
- SD-REC** button opens the 2-track recording/playback operations when a FAT32 formatted SD card is present in the rear panel slot (see 24).
- PRESETS** (SETUP and SD-REC pressed concurrently) allows you to store and load complete mix presets. You can import/export mix presets on SD cards, or use one of the 12 internal memory slots. Use the RESET function to clear the 12 memory slots and re-establish the preferred factory status.
- DISPLAY** shows data about the current mix, including parameters, channel levels and channel groups.
- SELECT/EDIT** push encoder allows you to select and adjust various parameters.
- EDIT** button allows access to the Level and Pan adjustments for input signals assigned to the selected Group. The default setting for Level and Pan is 0 dB center. The selected Group will be soloed automatically while making adjustments in Edit Mode.
- ASSIGN** button is used to assign channels to groups. **NOTE:** Please note the following:
  - the selected AES50 input channel will be soloed automatically to make channel assignments easier.
- when either a MIX A/MIX B button OR any Group button is active, then the processing (i.e., EQ, Compressor and Reverb) for that Group or mix can be adjusted.
- LOW** ( ) button selects the bass equalisation parameter for the currently-selected group, or for the selected Mix A or B. Make adjustments by rotating the SELECT/EDIT push encoder. The LOW ( ) button also acts as a control for SD recording/playback.
- MID** ( ) button selects the mid-range equalisation parameter for the currently-selected group, or for the selected Mix A or B. Make adjustments by rotating the SELECT/EDIT push encoder. The MID ( ) button also acts as a control for SD recording/playback.



13 **HIGH** (  ) button selects the treble equalisation parameter for the currently-selected group, or for the selected Mix A or B. Make adjustments by rotating the SELECT/EDIT push encoder. The HIGH (  ) button also acts as a control for SD recording/playback.

14 **COMP** (  ) button opens the Group COMPRESSOR or LIMITER windows, depending on the selected GROUPS 1-12 or MIX A/ MIX B button:

- when GROUPS 1-12 buttons are selected, you can adjust that Group's compression settings
- when MIX A or MIX B buttons are selected, you can adjust the peak limiting threshold for the selected mix. (NOTE: The limiter is always on.)

The COMP (  ) button also acts as a control for SD recording/playback.

15 **REVERB**(<<) button opens adjustment dialogs with these parameters:

- Reverb send level for the selected group
- Reverb return level for the selected mix

The REVERB(<<) button also acts as a control for SD recording/playback.

16 **PAN** (>>) button accesses panorama settings for the currently-selected Group, sent to MIX A and MIX B.

The PAN (>>) button also acts as a control for SD recording/playback.

17 **MIC** button selects the ambient mic audio for equaliser or mix level adjustment. Any of the illuminated neighbouring buttons (LOW, MID, HIGH or PAN) may be selected for editing.

18 **AUX IN** button selects the auxiliary audio input for equaliser or mix level adjustment. Any of the illuminated neighbouring buttons (LOW, MID, HIGH or PAN) may be selected for editing.

19 **GROUPS 1-12** buttons select Group audio for equaliser or mix level adjustment. Any of the illuminated buttons (LOW, MID, HIGH, COMP, REVERB or PAN) may be selected for editing.

20 **GROUP LEVEL** knobs allow direct level adjustment for any Group currently selected by the GROUPS 1-12 buttons, going to MIX A or MIX B.

21 **DC INPUT** connects the included external power supply. Please use only MIDAS external power supplies.

22 **POWER** button switches the unit on and off.

23 **AES50 THRU/IN** EtherCON sockets provide connection to digital consoles. The AES50 connection can pass audio and control data in both directions via shielded Cat-5e Ethernet cables. The AES50 IN socket also accepts remote PoE (Power over Ethernet) for adapter-free operation for the first DP48 connected over AES50. Each socket has a pair of red and green LEDs, which indicate the following:

- Green pulsating and red extinguished = valid audio and valid control data; active link.
- Green constantly illuminated and red extinguished = valid audio and valid control data; standby link.
- Green extinguished and red illuminated = no clock sync available, no audio; link has failed.

24 **DATA/REC** slot allows you to record a personal stereo mix directly to SD card media. Mixes recorded to a SD card can be played back to Mix A or Mix B directly (the playback Level is set in pg. 3/8 of the Setup menu).

25 **AUX IN** inputs allow additional line-level stereo (L and R inputs) or mono (L input only) inputs to be routed into the mix using cables with ¼" TRS connectors (e.g., for inserting a local click track or metronome signal).

26 **PHONES A/B** outputs sends the active mix out for monitoring over headphones or other monitoring systems.

27 **MONO** output jacks can be used to send out a line-level, balanced mono signal over cables with ¼" TRS connectors (e.g., for feeding a local stage monitor).

## 4. Operation

### Controls and indicators

For any operation, the function buttons usable for that operation will illuminate with a white backlight to show the buttons are active. For example, the LOW/MID/HIGH equaliser or COMP (compressor) buttons will illuminate when either a GROUPS 1-12 or MIX A/MIX B button is pressed.

Any selection can be toggled on/off by pressing the button repeatedly. When a specific function button is not available, please consider switching other active functions off first.

In some menus, the REVERB(<<) and PAN(>>) buttons are used to navigate between pages.

### Choosing a mix mode

As a first step, you should choose a mix mode to suit your needs. For example, are you sharing the same DP48 mixer with another musician, or will you be the only musician using the mixer?

Each of the mix modes—SINGLE and DUAL—define what parameters are in common for both MIX A and MIX B:

- **SINGLE** mode only uses MIX A, but this mode also allows you to assign the left and right MY GROUP knobs to different Groups for extra control on the fly. Use shortcut "MIX A" ["MIX B"] + any of the GROUPS 1-12 number buttons to assign the left [right] group to the MY GROUP knobs.
- **DUAL** mode permits the same Groups to have different level and panorama settings for MIX A and MIX B

**NOTE:** For both MIX A and MIX B, the underlying channel-to-Group configurations remain the same.

### To choose a mix mode

1. Press the SETUP button to access the SETUP screens.
2. Select page 1/8 by rotating the SELECT/EDIT push encoder or pressing the REVERB(<<) and PAN(>>) buttons.
3. Rotate the SELECT/EDIT push encoder to reach the first entry, MIXER MODE.
4. Press the SELECT/EDIT push encoder to activate the parameter for adjustment.
5. Rotate the SELECT EDIT push encoder to choose your desired mix mode.

### Saving and managing mix presets

You may save entire mix setting presets, include all Group and parameter assignments, to any of 12 internal storage slots. The storage slots will save presets even after the DP48 has been powered off.

### To save a mix preset

1. Press the SETUP and SD-REC buttons together to access the PRESETS screen.
2. Rotate the SELECT/EDIT push encoder to scroll to the SAVE option.
3. Press the SELECT/EDIT push encoder. A prompt will appear that asks you to choose a storage slot in which to save your current mix preset.
4. Press one of the GROUPS 1-12 buttons to choose a storage slot. For storage slots that already contain a saved mix preset, the matching GROUPS 1-12 button will be illuminated.
5. If you select a slot that already contains a saved preset, a prompt will appear asking if you wish to overwrite the preset already in the storage slot.
6. Use the SELECT/EDIT push encoder to choose the YES option if you wish to overwrite the storage slot.



- The system will take you back to the PRESETS page.
- Press either SETUP or SD-REC individually to exit back to the top-level MIX A/MIX B METERS screen.



PRESETS 1/2 screen

MIX A/MIX B METERS screen

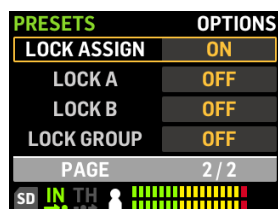
### To load a saved mix preset

- Press the SETUP and SD-REC buttons together to access the PRESETS screen.
- Rotate the SELECT/EDIT push encoder to scroll to the LOAD option.
- Press the SELECT/EDIT push encoder. A prompt will appear that asks you to choose a storage slot from which to load a mix preset.
- Press one of the GROUPS 1-12 buttons to choose a storage slot. For storage slots that already contain a saved mix preset, the matching GROUPS 1-12 button will be illuminated.
- The system will then automatically take you back to the PRESETS page.
- Press either SETUP or SD-REC individually to exit back to the top-level MIX A/MIX B METERS screen.

### To reset mix parameters back to default settings

- Press the SETUP and SD-REC buttons together to access the PRESETS screen.
- Rotate the SELECT/EDIT push encoder to scroll to the RESET option.
- Press the SELECT/EDIT push encoder. A prompt will appear that asks you to confirm your decision to reset.
- Use the SELECT/EDIT push encoder to choose the YES option if you do indeed wish to reset and initialize.
- The system will then automatically take you back to the PRESETS page.
- Press either SETUP or SD-REC individually to exit back to the top-level MIX A/MIX B METERS screen.

**NOTE:** To control which parameters are protected from a Reset/Preset Load command, go to the PRESETS LOCK section on pg. 2/2 of the PRESETS screen to choose your lock preferences from the following options:



PRESETS 2/2 screen

- LOCK ASSIGN (on/off)** allows you to protect the input channel-to-Group assignments from any Reset or Preset Load actions
- LOCK A (on/off)** protects the MIX A processing (without the Group levels) from any Reset or Preset Open/Load actions
- LOCK B (on/off)** protects the MIX B processing (without the Group levels) from any Reset or Preset Load actions
- LOCK GROUPS (on/off)** protects the Group processing settings (e.g., equaliser, limiter, aux – including MIX levels) from any Reset or Preset Load actions.

The RESET function will return DP48 to a default state, as follows:

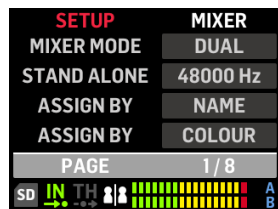
- Internal Preset memory will not be cleared with Reset
- If any AES50 input signals are available to DP48, and you slowly turn up the VOLUME control, all AES50 signals should become audible immediately, without further configuration
- All 48 input channels are spread over the 12 Groups (i.e., 4 channels per Group)
- Default Group channel panning is centered
- Default Group member level setting is 0 dB individual level
- Mix A and B
  - all EQ 0 dB, Low=200Hz, Mid=2kHz, High= 6kHz
  - Limiter -30 dB and Reverb Return off
  - Mic centered at -10 dB, with +20dB switch on
  - Aux In centered at -10 dB, with +12dB switch on
  - HALL Reverb selected
- Remote functions off
- All Group default levels are set as follows:
  - set to -10 dB level, center panning
  - all EQ gain = 0 dB (Low = 200Hz, Mid = 2kHz, High = 6kHz)
  - Compressor 0% and Reverb Send off
  - All groups mixed to both Mix A and B
  - MY GROUP is not assigned yet

### Auto-Configuration of Channels and Groups

DP48's "ASSIGN BY" macro features automatic mapping of incoming AES50 channels to Groups. This mapping can be done by using channel colour and channel name information, as set up by the FOH or monitor engineer at the mixing board.

**NOTE:** The SETUP/ASSIGN BY macros only map channels once, according to the AES50 channel colours/names at the time the function is launched. The function does NOT automatically update, so if the engineer subsequently changes his setup, you will need to re-launch the AutoConfig function to capture the new configuration to your DP48. You can also change the automatic mappings manually at any time, if you are not satisfied with the results.

To auto-configure the channel-group assignments, press the SETUP button and choose your preferred ASSIGN BY function on the SETUP screen:



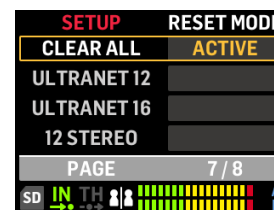
SETUP 1/8 screen

- ASSIGN BY NAME uses channel name information in the AES50 datastream to automatically map input channels to DP48 Groups, including the following details:
  - Confirm/cancel that channels will be assigned to Groups 1-12 by channel name
  - Function clears all previous Group channel assignments
  - Channels with specific leading characters such as - ' \* ( ) , . / [ ] < > will be mixed to their assigned Group with 0 dB level and panned to center
  - Input channels with different leading characters will not be assigned automatically
  - Channels can later be re-assigned manually pressing the ASSIGN button
- ASSIGN BY COLOUR uses channel colour information in the AES50 datastream to automatically map input channels to DP48 Groups, including the following details:
  - Confirm/cancel that channels will be assigned to Groups 1-12 by colour
  - Function clears all previous Group channel assignments
  - Input channels coloured WH (white) or BK (black) will not be assigned
  - By default, channels will be mixed to their assigned Group with 0 dB level and panned to center
  - Channels can later be re-assigned manually by pressing the ASSIGN button
- GROUP NAMES IMPORT is an alternative method that allows you to name all Groups by using an external word processor (e.g., Microsoft Word, Open Office Writer, or a simple text editor) or a spreadsheet/calculation program, such as Microsoft Excel or Open Office Calc.
  - Example procedure using a text editor:
    1. Open the text editor and start a new empty document.
    2. Write the group names in one line, separated by " , " or " ; ".
    3. Save the file in .csv format to a SD Card.
    4. Insert this SD card in your DP48.
    5. Go to SETUP screen page 8/8.
    6. Select GRP NAMES.
    7. Select IMPORT.

- Example procedure using a spreadsheet/calculation program:
  1. Open the spreadsheet/calculation program, and start with an empty chart.
  2. Insert one group name per cell (from left to right).
  3. Save the file in .csv format to an SD Card.
  4. Now follow Steps 4-7 as described in the text editor procedure.

#### NOTES:

1. Do NOT use special characters, such as umlauts/vowels (Ä, Ö, Ü).
2. Case shift (large/small letters) is generally supported.
3. Group names are limited to max. 7 characters (incl. blank spaces).



SETUP 7/8 screen

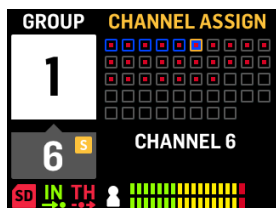
The SETUP 7/8 screen allows you to choose a preference for the channel-group when a RESET is done. Default is "12 STEREO".

- CLEAR ALL deletes all input channel assignments from all Groups.
- ULTRANET 12 automatically creates 12 mono Groups:
  - Function clears all existing channel assignments from all Groups
  - Function maps AES50 input channels 33-44 to Groups 1-12.
- ULTRANET 16 automatically creates 8 mono and 4 stereo Groups:
  - Function clears all existing channel assignments from all Groups
  - Function assigns AES50 channels as follows:
    - Input channels 33-40 are assigned to Groups 1-8
    - Input channels 41-48 are assigned as stereo pairs to Groups 9-12
- 12 STEREO automatically creates 12 stereo Groups from the first 24 AES50 channels:
  - Function architecture assumes the FOH engineers will provide stereo stem groups for monitoring, rather than individual sources
  - Function will work best with groups of instruments, such as drums, horns, strings, choir, keys, bass, guitars, and so on, that mainly need level adjustments by the musician using DP48

## Configuring input Channels and Groups

To access ASSIGN mode, first make sure the SETUP, SD-REC, MIX A and MIX B buttons are not illuminated.

In ASSIGN mode, the GROUP/CHANNEL ASSIGN screen will show the 48 available AES50 channels as a series of boxes with varying colors. The Group number and channel number will appear on the left side of the screen.



GROUP/CHANNEL ASSIGN screen

In the GROUP/CHANNEL ASSIGN screen, you can judge the assignment status of an individual channel by the following color cues:

- **Amber frame** – channel is selected
- **Blue frame** – channel is assigned to the currently-active Group
- **Flashing** – an audio signal is present in the channel

### To assign/unassign a channel to a Group

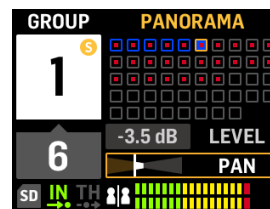
1. Press the INPUT CHANNEL/ASSIGN button to enter the GROUP/CHANNEL ASSIGN screen.
  2. Choose a Group by pressing one of the GROUPS 1-12 buttons along the lower edge of the DP48 top panel. Channels assigned to the currently-selected Group will appear blue.
- NOTE:** For easy channel identification, soloed audio from the selected AES50 channel will replace the MIX A/B audio.
3. Rotate the SELECT/EDIT push encoder to scroll to the desired channel. When the desired channel is ready for selection, the channel's box will change color from a gray to an amber frame.
  4. Press the SELECT/EDIT push encoder to assign/unassign the selected channel to the current Group. The selected channel's box will change color to a blue fill with an amber frame to indicate the channel has successfully been assigned to the current Group.

\*The incoming AES50 datastream may also include channel name and colour-coding information, depending on the AES50 source.

### Setting the input channel levels and panorama

The top-level MIX A/MIX B METERS screen only displays level settings for Groups.

Levels and panning for individual channels can only be adjusted and set individually within Groups. Once channel levels and panning are set within a Group, you can then balance levels and panning between entire Groups in the MIX A/MIX B METERS screen.



INPUT CHANNEL EDIT screen

### To edit levels and panning within a Group

1. Before editing channel levels and panning, make sure your overall Mix Volume and Group levels are loud enough that you can hear audio from the input channels.
2. Press the INPUT CHANNEL/EDIT button to enter the INPUT CHANNEL screen.
3. Choose a specific Group by pressing one of the GROUPS 1-12 buttons. The selected Group is automatically soloed and will replace the MIX A/MIX B audio.
4. Channels assigned to the currently-selected Group will appear as blue boxes. If no blue boxes are visible, then the selected Group is still empty.
5. Use the REVERB(<<) and PAN(>>) buttons to select an input channel within the group. The selected channel will appear as an amber box with a blue fill.
6. Rotate the SELECT/EDIT push encoder to adjust the currently-active Level or Pan parameter. Push the encoder to select between LEVEL and PAN.
7. Repeat steps 5-6 until the mix for Members in this Group is set, then consider moving on by pressing another Group button.
8. When done, pressing the EDIT button again will bring you back to the selected Group processing page, and Group Solo will be switched off automatically.
9. You can then take the following actions:
  - adjust that Group's mix level in relation to the other Groups by turning the respective GROUP LEVEL control
  - make adjustments to that Group's processing, i.e., Compressor, Reverb Send or Equaliser.
  - press that Group's button again to go back to the metering overview (idle) screen

### To set Group levels in your final mix

To begin creating your final mix, you will be directly setting levels for entire Groups of channels by using the GROUP LEVEL knob.

1. Select a Group for level setting by pressing one of the GROUPS 1-12 buttons. The system will take you to that Group's GROUP/LEVEL screen.
2. Rotate the GROUP LEVEL knob to adjust the Group's overall level by .5 dB increments. The left GROUP LEVEL knob will control LEVEL A going to MIX A, while the right GROUP LEVEL knob controls the LEVEL B for MIX B.
3. Select another Group for level adjustment by pressing one of the GROUPS 1-12 buttons.
4. Repeat steps 1-3 until satisfactory levels have been set for all Groups.
5. To exit, de-select the currently-active Group by pressing that Group's GROUPS 1-12 button.

**NOTE:** At any time, you may adjust a Group's level by selecting that Group's GROUPS 1-12 button and then rotating the GROUP LEVEL knob for the currently-active mix.

## To set Group panning in your final mix

If necessary, entire Groups can be shifted together in the stereo field. Most of the time you will be setting up stereo panning when you first configure your AES50 channels into Groups, but when needed you can shift the entire Group's overall panning at once.

1. Select a Group for panning adjustment by pressing the GROUPS 1-12 button.
2. Press the SELECT/EDIT push encoder to toggle between PAN A and PAN B (sent to MIX A and MIX B).
3. Rotate the SELECT/EDIT push encoder until the Group's overall left-to-right panning is in the desired spot.
4. Repeat steps 1-3 until panning for all Groups has been set.
5. To exit, de-select the currently-active Group by pressing that Group's GROUPS 1-12 button.

## Assigning one of the 12 Groups to the MY GROUP knob

Use the MY GROUP knob to make quick adjustments of your personal Group level versus the rest of the mix. The MY GROUP knob is available at all times for your personal level adjustments, no matter what operation menu is active in the display.

Your personal Group assigned to the MY GROUP knob may contain a single channel (e.g., vocals or guitar only) or several channels (e.g., vocals and guitar together, with levels balanced internally within the Group).

**NOTE:** Each MY GROUP knob can only be assigned ONE Group at any given time.

## To assign a Group to the MY GROUP knob

1. Press and hold the MIX A or MIX B button.
2. Press the GROUPS 1-12 button of the Group you wish to assign to the MY GROUP knob. The screen will show the active MIX (A or B) in the big blue field, while the lower corner of the blue field will show the Group number assigned to the MY GROUP knob.
3. Rotate the MY GROUP knob to adjust the Group's LEVEL indicated by the LED ring around the MY GROUP knob.
4. To see the LEVEL change expressed in dB values, press the assigned Group's GROUPS 1-12 button. Then, when you turn the assigned MY GROUP knob, you will see the dB value changing for LEVEL A (MIX A) / LEVEL B (MIX B).

**NOTE:** If a Group is not assigned to MIX A/B, the LEVEL A/B will not change by turning one of the MY GROUP knobs.

5. Press the Group's illuminated GROUPS 1-12 button or the illuminated MIX A/B button (from Step 1 above), to exit back to the top-level MIX A/MIX B METERS screen.
6. You may now use the MY GROUP knob to make immediate adjustments to your personal Group's mix level without having to access any additional screens.
7. To assign a different Group to MIX A or MIX B, repeat steps 1-2 and press a different GROUPS 1-12 button. To un-assign the currently-assigned Group from a MY GROUP knob, repeat steps 1-2 and press the GROUPS 1-12 button for the currently-assigned Group. Now, the white field showing the Group number in the bottom corner will disappear from the big blue MIX A (or MIX B) field.

**NOTE:** The first time you rotate the un-assigned MY GROUP knob, the system will launch a prompt window telling you how to assign a Group to the knob. Once you have assigned a Group to the MY GROUP knob, the automated prompt will no longer appear unless you later un-assign the Group without assigning another Group.

## Adding EQ and reverb to your final mix

To add EQ and reverb to your final mix, follow these steps:

1. Press the MIX A/MIX B button to enter the MIX screen.
2. Press the LOW/MID/HIGH buttons to access the equaliser settings. Control buttons for LOW, MID, HIGH, COMP and REVERB will illuminate.
3. Rotate the SELECT/EDIT push encoder to raise or lower the level of the selected frequency band.
4. Press and rotate the SELECT/EDIT push encoder to adjust the selected frequency band's cutoff (shelving) or center point (parametric). The composite equalisation curve created by your adjustments will appear at the top of the screen.
5. Press the REVERB button access the REVERB level settings.
6. Rotate the SELECT/EDIT push encoder to raise the REVERB level to your desired setting.
7. When you are done, press the MIX A/MIX B button to exit.

**NOTE:** To change the reverb type, press SETUP and go to page 4/8 of the SETUP menu to choose between AMBIENCE, CLUB, HALL or CATHEDRAL reverb programs.

## Protect your hearing (setting Volume and Limiter)

The Limiter comes AFTER the final VOLUME control in the signal chain, so the specific Limiter threshold you choose will depend on how loud you set the final mix Volume.

For best results, we recommend you set your final MIX A/MIX B Volume first, and then bring down the Limiter threshold to place a hard cap over the output that can contain any volume spikes and surges.

To prevent hearing fatigue or damage, consider setting the Limiter threshold as low as possible. With the right threshold setting, you will have a safe upper limit you cannot exceed no matter what happens in the heat of the performance.

To set the final VOLUME and LIMITER parameters, play some audio through your headset and follow these steps:

1. Press the MIX A/MIX B button to enter the MIX screen. Control buttons for LOW, MID, HIGH, COMP and REVERB will illuminate.
2. Slowly turn up the VOLUME to the maximum level you will need for your headset.
3. Press the COMP button to access the LIMITER threshold for adjustment.
4. Rotate the SELECT/EDIT push encoder to lower the LIMITER threshold downward to your desired setting. We recommend you lower the threshold until the "L" indicator on the screen begins to light, which shows that the LIMITER is beginning to react to volume peaks in the signal.
5. When you are done, press the MIX A/MIX B button to exit.



## SOLO mode

To help with identification, DP48 will automatically solo the audio for specific functions and under specific conditions, such as the following:

- **ASSIGN**—While assigning input channels to a Group, the selected input channel will be soloed for easy identification. When you exit ASSIGN, the channel solo will be deactivated automatically.
- **EDIT**—While editing the Group mix of the assigned input channels, the selected Group will be soloed automatically. When you exit EDIT, the Group solo will be deactivated automatically.
- **Group Processing**—If you wish to listen to a Group in solo, e.g., to adjust that Group's processing, just press and hold the respective GROUPS 1-12, MIC or AUX IN buttons. That button's LED will begin flashing, and the Group display will show a yellow "S" above the group number.

Solo Mode will also behave in the following ways:

- When you switch to a different Group or select the MIC or AUX IN buttons while in Solo Mode, the solo will follow your selection to the newly-selected Group or input.
- When you de-select the soloed Group or press any other button, such as MIX A/MIX B or SETUP, the solo is switched off automatically.
- You can also press and hold the soloed Group button again to switch off the solo.

## Specifications

Connections	
Phones Mix A / B	2 x ¼" TRS, stereo, unbalanced, 25 Ω
Line Mix A / B	2 x ¼" TRS, mono, balanced, 1 kΩ 2 x ¼" TRS, mono, unbalanced, 500 Ω
Aux in	2 x ¼" TRS, unbalanced, 20 kΩ 2 x ¼" TRS, balanced, 40 kΩ
AES50 Thru / In	2 x RJ45
Equalizer	
Low	±15 dB, semi-parametric, low shelving
Mid	±15 dB, semi-parametric, peak
High	±15 dB, semi-parametric, high shelving
Frequency	20 Hz to 22 kHz, adjustable
Output	
Limiter	Ratio ∞:1
Level, max.	+12.8 dBu (Phones)
Mix A / Mix B	2 x stereo
AES50	
Audio channels @ 48 kHz	48
Sample rate	44.1 / 48 kHz
Sample word length	24 bit
Clock synchronization	AES50 IN
Latency	min. 70 μs per node (AES50)
Cable	Ethernet CAT 5e
Cable length	max. 100 m
Data / Rec	
SD/SDHC format	FAT32
Card memory	Up to 32 GB supported
Power Supply	
AES50 input	PoE (IEEE802.3af)
Power consumption	max. 14 W (with DC adaptor)
Mains connection	External power supply 24 VDC / 600 mA (included)
Dimensions / Weight	
Dimensions (H x W x D)	69 x 242 x 164 mm (2.72 x 9.53 x 6.46")
Weight	1.3 kg (2.9 lbs)

## Other important information

### EN Important information

#### 1. Register online.

Please register your new Music Tribe equipment right after you purchase it by visiting [midasconsoles.com](http://midasconsoles.com). Registering your purchase using our simple online form helps us to process your repair claims more quickly and efficiently. Also, read the terms and conditions of our warranty, if applicable.

**2. Malfunction.** Should your Music Tribe Authorized Reseller not be located in your vicinity, you may contact the Music Tribe Authorized Fulfiller for your country listed under "Support" at [midasconsoles.com](http://midasconsoles.com). Should your country not be listed, please check if your problem can be dealt with by our "Online Support" which may also be found under "Support" at [midasconsoles.com](http://midasconsoles.com). Alternatively, please submit an online warranty claim at [midasconsoles.com](http://midasconsoles.com) BEFORE returning the product.

#### 3. Power Connections.

Before plugging the unit into a power socket, please make sure you are using the correct mains voltage for your particular model. Faulty fuses must be replaced with fuses of the same type and rating without exception.

### ES Aspectos importantes

#### 1. Registro online.

Le recomendamos que registre su nuevo aparato Music Tribe justo después de su compra accediendo a la página web [midasconsoles.com](http://midasconsoles.com). El registro de su compra a través de nuestro sencillo sistema online nos ayudará a resolver cualquier incidencia que se presente a la mayor brevedad posible. Además, aproveche para leer los términos y condiciones de nuestra garantía, si es aplicable en su caso.

**2. Averías.** En el caso de que no exista un distribuidor Music Tribe en las inmediaciones, puede ponerse en contacto con el distribuidor Music Tribe de su país, que encontrará dentro del apartado "Support" de nuestra página web [midasconsoles.com](http://midasconsoles.com). En caso de que su país no aparezca en ese listado, acceda a la sección "Online Support" (que también encontrará dentro del apartado "Support" de nuestra página web) y compruebe si su problema aparece descrito y solucionado allí. De forma alternativa, envíenos a través de la página web una solicitud online de soporte en periodo de garantía ANTES de devolvernos el aparato.

#### 3. Conexiones de corriente.

Antes de enchufar este aparato a una salida de corriente, asegúrese de que dicha salida sea del voltaje adecuado para su modelo concreto. En caso de que deba sustituir un fusible quemado, deberá hacerlo por otro de idénticas especificaciones, sin excepción.

### FR Informations importantes

#### 1. Enregistrez-vous en ligne.

Prenez le temps d'enregistrer votre produit Music Tribe aussi vite que possible sur le site Internet [midasconsoles.com](http://midasconsoles.com). Le fait d'enregistrer le produit en ligne nous permet de gérer les réparations plus rapidement et plus efficacement. Prenez également le temps de lire les termes et conditions de notre garantie.

**2. Dysfonctionnement.** Si vous n'avez pas de revendeur Music Tribe près de chez vous, contactez le distributeur Music Tribe de votre pays : consultez la liste des distributeurs de votre pays dans la page "Support" de notre site Internet [midasconsoles.com](http://midasconsoles.com). Si votre pays n'est pas dans la liste, essayez de résoudre votre problème avec notre "aide en ligne" que vous trouverez également dans la section "Support" du site [midasconsoles.com](http://midasconsoles.com). Vous pouvez également nous faire parvenir directement votre demande de réparation sous garantie par Internet sur le site [midasconsoles.com](http://midasconsoles.com) AVANT de nous renvoyer le produit.

#### 3. Raccordement au secteur.

Avant de relier cet équipement au secteur, assurez-vous que la tension secteur de votre région soit compatible avec l'appareil. Veillez à remplacer les fusibles uniquement par des modèles exactement de même taille et de même valeur électrique — sans aucune exception.

### DE Weitere wichtige Informationen

#### 1. Online registrieren.

Bitte registrieren Sie Ihr neues Music Tribe-Gerät direkt nach dem Kauf auf der Website [midasconsoles.com](http://midasconsoles.com). Wenn Sie Ihren Kauf mit unserem einfachen online Formular registrieren, können wir Ihre Reparaturansprüche schneller und effizienter bearbeiten. Lesen Sie bitte auch unsere Garantiebedingungen, falls zutreffend.

**2. Funktionsfehler.** Sollte sich kein Music Tribe Händler in Ihrer Nähe befinden, können Sie den Music Tribe Vertrieb Ihres Landes kontaktieren, der auf [midasconsoles.com](http://midasconsoles.com) unter „Support“ aufgeführt ist. Sollte Ihr Land nicht aufgelistet sein, prüfen Sie bitte, ob Ihr Problem von unserem „Online Support“ gelöst werden kann, den Sie ebenfalls auf [midasconsoles.com](http://midasconsoles.com) unter „Support“ finden. Alternativ reichen Sie bitte Ihren Garantieanspruch online auf [midasconsoles.com](http://midasconsoles.com) ein, BEVOR Sie das Produkt zurücksenden.

**3. Stromanschluss.** Bevor Sie das Gerät an eine Netzsteckdose anschließen, prüfen Sie bitte, ob Sie die korrekte Netzspannung für Ihr spezielles Modell verwenden. Fehlerhafte Sicherungen müssen ausnahmslos durch Sicherungen des gleichen Typs und Nennwerts ersetzt werden.

### PT Outras Informações Importantes

**1. Registre-se online.** Por favor, registre seu novo equipamento Music Tribe logo após a compra visitando o site [midasconsoles.com](http://midasconsoles.com). Registrar sua compra usando nosso simples formulário online nos ajuda a processar seus pedidos de reparos com maior rapidez e eficiência. Além disso, leia nossos termos e condições de garantia, caso seja necessário.

**2. Funcionamento Defeituoso.** Caso seu fornecedor Music Tribe não esteja localizado nas proximidades, você pode contatar um distribuidor Music Tribe para o seu país listado abaixo de "Suporte" em [midasconsoles.com](http://midasconsoles.com). Se seu país não estiver na lista, favor checar se seu problema pode ser resolvido com o nosso "Suporte Online" que também pode ser achado abaixo de "Suporte" em [midasconsoles.com](http://midasconsoles.com). Alternativamente, favor enviar uma solicitação de garantia online em [midasconsoles.com](http://midasconsoles.com) ANTES da devolução do produto.

**3. Ligações.** Antes de ligar a unidade à tomada, assegure-se de que está a utilizar a voltagem correcta para o modelo em questão. Os fusíveis com defeito terão de ser substituídos, sem qualquer excepção, por fusíveis do mesmo tipo e corrente nominal.

## FEDERAL COMMUNICATIONS COMMISSION COMPLIANCE INFORMATION

### SUPPLIER'S DECLARATION OF CONFORMITY (SDoC)



Responsible Party Name: **Music Tribe Commercial NV Inc.**

Address: **5270 Procyon Street  
Las Vegas, NV 89118  
USA**

Phone Number: **+1 702 800 8290**

#### **DP48**

complies with the FCC rules as mentioned in the following paragraph:

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.

This equipment complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

#### **Caution!**

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

**Warning: Operation of this equipment in a residential environment could cause radio interference.**

