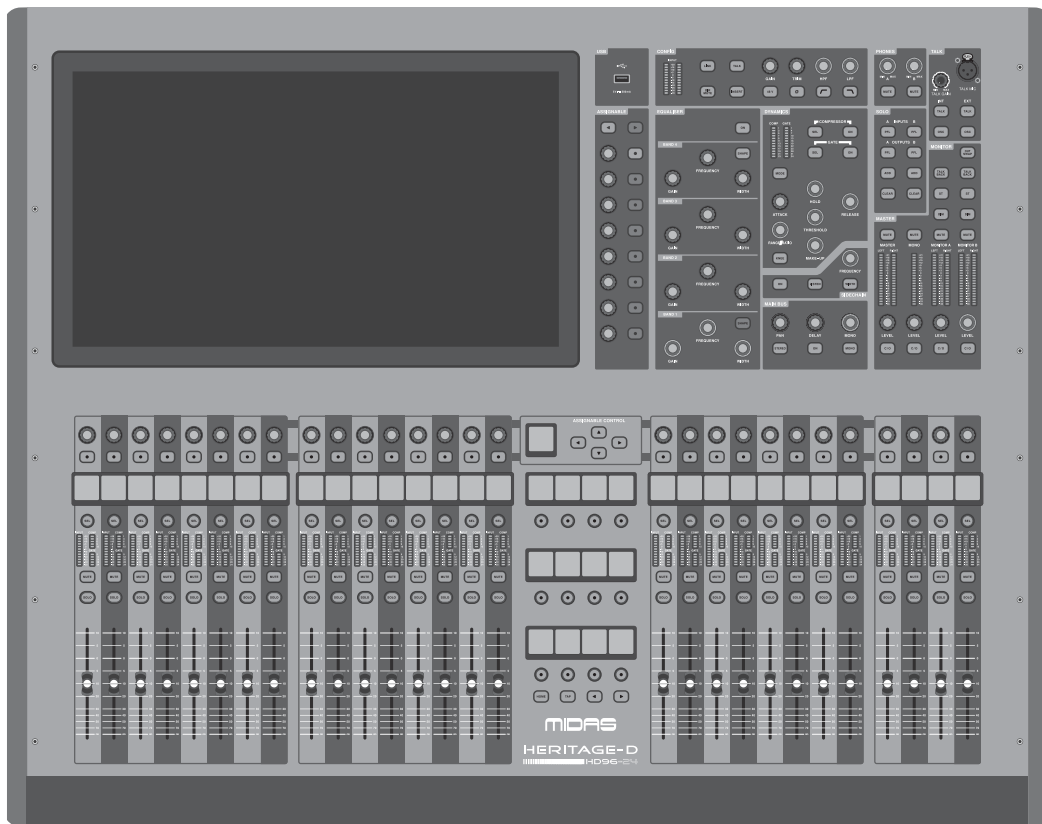


# Quick Start Guide



## HD96-24-CC-TP

Live Digital Console Control Centre with 144 Input Channels, 120 Mix Buses, 96 kHz Sample Rate, 21" Touch Screen and Touring Grade Road Case

EN

ES

FR

DE

PT

IT

NL

SE

PL

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. This apparatus may be used in tropical and moderate climates up to 45°C.

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### CAUTION

Risk of fire or explosion if the battery is replaced by

an incorrect type.

Replace only with the same or equivalent type.

Disposal of a battery into fire, hot oven, mechanically crushing or cutting of a battery can result in an explosion;

Leaving a battery in an extremely high temperature surrounding environment that can result in an explosion or the leakage of flammable liquid or gas; and

A battery subjected to extremely low air pressure that may result in an explosion or the leakage of flammable liquid or gas.

Attention should be drawn to the environmental aspects of battery disposal.



### WARNING

Do not ingest the battery, Chemical Burn Hazard.

This product contains a coin/button cell battery. If the coin/button cell battery is swallowed, it can cause severe internal burns in just 2 hours and can lead to death.

Keep new and used batteries away from children.

If you think batteries might have been swallowed or placed inside any part of the body, seek immediate medical attention.

ES

## 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 exponga 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.

9. No elimine o deshabilite nunca la conexión a tierra del aparato o del cable de alimentación de corriente. Un enchufe polarizado tiene dos polos, uno de los cuales tiene un contacto más ancho que el otro. Una clavija con puesta a tierra dispone de tres contactos: dos polos y la puesta a tierra. El contacto ancho y el tercer contacto, respectivamente, son los que garantizan una mayor seguridad. Si el enchufe suministrado con el equipo no concuerda con la toma de corriente, consulte con un electricista para cambiar la toma de corriente obsoleta.

10. Coloque el cable de suministro de energía de manera que no pueda ser pisado y que esté protegido de objetos afilados. Asegúrese de que el cable de suministro de energía esté protegido, especialmente en la zona de la clavija y en el punto donde sale del aparato.

11. Use únicamente los dispositivos o accesorios especificados por el fabricante.



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.

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. Puede usar este aparato en lugares con climas tropicales y moderados que soporten temperaturas de hasta 45°C.

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### CUIDADO

La sustitución de la batería por otra de tipo incorrecto puede dar lugar a un riesgo de incendio o explosión. Sustituya la batería únicamente por otra idéntica o equivalente.

El arrojar una batería a un fuego u horno caliente o la ruptura o corte de una batería por medios mecánicos puede dar lugar a un riesgo de explosión;

Igualmente, el dejar una batería en un entorno con una temperatura ambiente extremadamente elevada puede dar lugar a una explosión o a la fuga de un líquido o gas inflamable; y

Una batería que quede sujeta a una presión de aire extremadamente baja también puede dar lugar a un riesgo de explosión a la fuga de un líquido o gas inflamable.

También debe prestar la máxima atención a los aspectos medioambientales y de correcto reciclaje a la hora de deshacerse de una batería.

EN

ES



**ATENCIÓN**

Cuidado con las posibles ingestiones accidentales de la batería. Riesgo de quemaduras químicas.

Este producto contiene una batería de tipo botón. En caso de una ingestión accidental de esta batería de tipo botón, se pueden producir graves quemaduras internas en las 2 horas siguientes, capaces de producir incluso la muerte.

Mantenga todas las baterías (tanto nuevas como usadas) lejos del alcance de los niños.

Si piensa que alguien se ha podido tragar de forma accidental una batería o que se la ha introducido en alguna parte de su cuerpo, lleve a esa persona a urgencias de forma inmediata.

**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 des 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. Cet appareil peut être utilisé sous un climat tropical ou modéré avec des températures de 45°C maximum.

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**MISE EN GARDE**

Risque d'incendie ou d'explosion si la batterie est remplacée par un modèle incompatible.

Remplacez-la uniquement par une batterie similaire ou de type équivalent.

Jeter la batterie dans des flammes, la placer dans un four très chaud, l'écraser ou la découper mécaniquement peut produire une explosion ;

Soumettre la batterie à une température est extrêmement élevée peut produire une explosion ou une fuite de liquide ou de gaz inflammable ; et

Soumettre la batterie à une pression de l'air extrêmement basse peut produire une explosion ou une fuite de liquide ou de gaz inflammable.

Une attention particulière doit être portée aux aspects environnementaux de l'élimination de la batterie.

**AVERTISSEMENT**

Ne pas avaler la pile, risque de brûlure chimique.

Cet appareil contient une pile bouton. Si la pile bouton est ingérée, cela peut produire de graves brûlures internes potentiellement mortelles en moins de 2 heures.

Conservez les piles neuves et usagées hors de portée des enfants.

Si vous pensez qu'une pile a été avalée ou placée à l'intérieur de n'importe quelle partie du corps, contactez l'assistance médicale d'urgence.

**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 Gerätesteckdose 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. Dieses Gerät ist in tropischen und gemäßigten Klimazonen bis 45°C einsetzbar.

**HAFTUNGS-AUSSCHLUSS**

Music Tribe übernimmt keine Haftung für Verluste, die Personen entstanden sind, die sich ganz oder teilweise auf hier enthaltene Beschreibungen, Fotos oder Aussagen verlassen haben. Technische Daten, Erscheinungsbild und andere Informationen können ohne vorherige Ankündigung geändert werden. Alle Warenzeichen sind Eigentum der jeweiligen Inhaber. Midas, Klark Teknik, Lab Gruppen, Lake, Tannoy, Turbosound, TC Electronic, TC Helicon, Behringer, Bugera, Oberheim, Auratone, Aston Microphones und Coolaudio sind Warenzeichen oder eingetragene Warenzeichen der Music Tribe Global Brands Ltd. © Music Tribe Global Brands Ltd. 2021 Alle Rechte vorbehalten.

**BESCHRÄNKTE GARANTIE**

Die geltenden Garantiebedingungen und zusätzliche Informationen bezüglich der von Music Tribe gewährten beschränkten Garantie finden Sie online unter [musictribe.com/warranty](http://musictribe.com/warranty).

**VORSICHT**

Wenn man die Batterie durch einen falschen Batterietyp ersetzt, besteht Brand- und Explosionsgefahr.

Ersetzen Sie die Batterie nur durch den gleichen oder einen gleichwertigen Typ.

Wenn man die Batterie im Feuer oder einem heißen Ofen entsorgt oder mechanisch zerdrückt oder durchschneidet, besteht Explosionsgefahr;

Wenn man die Batterie einer extrem heißen Umgebung aussetzt, besteht Explosionsgefahr und es können brennbare Flüssigkeiten oder Gase austreten;

Wenn man die Batterie extrem niedrigem Luftdruck aussetzt, besteht Explosionsgefahr und es können brennbare Flüssigkeiten oder Gase austreten.

Achten Sie bei der Entsorgung von Batterien bitte auf alle Umweltaspekte.

**ACHTUNG**

pBatterien nicht verschlucken - Gefahr von Verätzungen durch Chemikalien.

Dieses Produkt enthält eine Knopf-/Knopfzellenbatterie. Wenn die Knopf-/Knopfzellenbatterie verschluckt wird, kann sie in nur 2 Stunden schwere innere Verbrennungen verursachen und zum Tod führen.

Halten Sie neue und gebrauchte Batterien von Kindern fern.

Wenn Sie glauben, dass Batterien möglicherweise verschluckt wurden oder in ein Körperteil gelangt sind, suchen Sie sofort einen Arzt auf.

**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 elétrico, 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 terpedação.

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. Esse aparelho pode ser usado em climas tropicais e moderados até 45°C.

**LEGAL RENUNCIANTE**

O Music Tribe não se responsabiliza por perda alguma que possa ser sofrida por qualquer pessoa que dependa, seja de maneira completa ou parcial, de qualquer descrição, fotografia, ou declaração aqui contidas. Dados técnicos, aparências e outras informações estão sujeitas a modificações sem aviso prévio. Todas as marcas são propriedade de seus respectivos donos. Midas, Klark Teknik, Lab Gruppen, Lake, Tannoy, Turbosound, TC Electronic, TC Helicon, Behringer, Bugera, Oberheim, Auratone, Aston Microphones e Coolaudio são marcas ou marcas registradas do Music Tribe Global Brands Ltd. © Music Tribe Global Brands Ltd. 2021 Todos direitos reservados.

**GARANTIA LIMITADA**

Para obter os termos de garantia aplicáveis e condições e informações adicionais a respeito da garantia limitada do Music Tribe, favor verificar detalhes na íntegra através do website [musictribe.com/warranty](http://musictribe.com/warranty).

**ADVERTÊNCIA**

Há risco de incêndio ou explosão se a bateria for substituída por outra do tipo incorreto.

Substitua apenas pelo mesmo tipo ou equivalente.

O descarte da bateria ao fogo ou forno quente, prensagem mecânica ou corte da bateria, podem resultar em explosão;

Deixar a bateria em ambientes com temperaturas extremamente altas podem resultar em explosões ou vazamento de líquido inflamável ou gás; e

Uma bateria sujeita a pressão extremamente baixa pode resultar em uma explosão ou vazamento de líquido inflamável ou gás.

Deve-se levar em consideração os aspectos ambientais do descarte de baterias.

**AVISO**

Não ingira a bateria pois há risco de queimaduras químicas.

Este produto contém uma bateria de relógio. Se essa bateria de relógio for engolida, ela pode causar queimaduras internas graves em apenas 2 horas e pode levar à morte.

Mantenha as baterias novas e usadas fora do alcance de crianças.

Caso haja a possibilidade de as baterias terem sido engolidas ou inseridas em qualquer parte do corpo, busque ajuda médica imediatamente.

**IT Informazioni importanti****Attenzione**

I terminali contrassegnati da questo simbolo conducono una corrente elettrica di magnitudine sufficiente a costituire un rischio di scossa elettrica. Utilizzare solo cavi per altoparlanti professionali di alta qualità con jack sbilanciati da 6,35mm. o connettori con blocco a rotazione. Tutte le altre installazioni o modifiche devono essere eseguite esclusivamente da personale 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.



12. Utilizzare solo carrelli, supporti, treppiedi, staffe o tavoli indicati dal produttore o venduti con l'apparecchio. Utilizzando un carrello, prestare attenzione quando si sposta la combinazione

carrello/apparecchio per evitare lesioni dovute al ribaltamento.

13. Scollegare questo apparecchio durante i temporali o se non è utilizzato per lunghi periodi di tempo.

14. Per tutte le riparazioni rivolgersi a personale qualificato. La manutenzione è necessaria quando l'apparecchio è danneggiato in qualsiasi modo, come danneggiamento del cavo di alimentazione o della spina, versamento di liquido o oggetti caduti nell'apparecchio, se l'apparecchio è stato esposto a pioggia o umidità, se non funziona normalmente o è caduto.

15. L'apparecchio deve essere collegato a una presa di corrente elettrica con messa a terra di protezione.

16. Se la spina o una presa del dispositivo è utilizzata come dispositivo di disconnessione, deve essere facilmente utilizzabile.



17. Smaltimento corretto di questo prodotto: questo simbolo indica che questo dispositivo non deve essere smaltito insieme ai rifiuti domestici, secondo la Direttiva RAEE (2012/19 / UE) e la vostra legislazione

nazionale. Questo prodotto deve essere portato in un centro di raccolta autorizzato per il riciclaggio di rifiuti di apparecchiature elettriche ed elettroniche (RAEE). La cattiva gestione di questo tipo di rifiuti potrebbe avere un possibile impatto negativo sull'ambiente e sulla salute umana a causa di sostanze potenzialmente pericolose che sono generalmente associate alle apparecchiature elettriche ed elettroniche. Nello stesso tempo la vostra collaborazione al corretto smaltimento di questo prodotto contribuirà all'utilizzo efficiente delle risorse naturali. Per ulteriori informazioni su dove è possibile trasportare le apparecchiature per il riciclaggio vi invitiamo a contattare l'ufficio comunale locale o il servizio di raccolta dei rifiuti domestici.

18. Non installare in uno spazio ristretto, come in una libreria o in una struttura simile.

19. Non collocare sul dispositivo fonti di fiamme libere, come candele accese.

20. Per lo smaltimento delle batterie, tenere in considerazione gli aspetti ambientali. Le batterie devono essere smaltite in un punto di raccolta delle batterie esauste.

21. Questo apparecchio può essere usato in climi tropicali e temperati fino a 45°C.





**18.** Installera inte i ett trångt utrymme, t.ex. i en bokhylla eller liknande enhet.

**19.** Placera inte källor med öppen eld, t.ex. tända ljus, på apparaten.

**20.** Tänk på miljöaspekterna vid kassering av batterier. Batterier måste kasseras på ett batteriuppsamlingsställe.

**21.** Denna apparat kan användas i tropiska och måttliga klimat upp till 45 °C.

## FRISKRIVNINGSKLAUSUL

Music Tribe tar inget ansvar för någon förlust som kan drabbas av någon person som helt eller delvis förlitar sig på någon beskrivning, fotografi eller uttalande som finns här. Tekniska specifikationer, utseenden och annan information kan ändras utan föregående meddelande. Alla varumärken tillhör respektive ägare. Midas, Klark Teknik, Lab Gruppen, Lake, Tannoy, Turbosound, TC Electronic, TC Helicon, Behringer, Bugera, Oberheim, Auratone, Aston Microphones och Coolaudio är varumärken eller registrerade varumärken som tillhör Music Tribe Global Brands Ltd. © Music Tribe Global Brands Ltd. 2021 Alla Rättigheter reserverade.

## BEGRÄNSAD GARANTI

För tillämpliga garantivillkor och ytterligare information om Music Tribes begränsade garanti, se fullständig information online på [musictribe.com/warranty](http://musictribe.com/warranty).



### WARNING

Risk för brand eller explosion om batteriet

byts ut av fel typ.

Ersätt endast med samma eller motsvarande typ.

Kassering av ett batteri i eld, het ugn, mekanisk krossning eller kapning av ett batteri kan resultera i en explosion;

Lämna ett batteri i en omgivning med extremt hög temperatur som kan leda till en explosion eller läckage av brandfarlig vätska eller gas. och

Ett batteri som utsätts för extremt lågt lufttryck som kan leda till en explosion eller läckage av brandfarlig vätska eller gas.

Uppmärksamhet bör uppmärksammas på miljöaspekterna vid bortskaflande av batterier.



### WARNING

Sug inte batteriet, risk för kemisk brännskada.

Denna produkt innehåller ett mynt / knappcells batteri. Om mynt- / knappcells batteriet sväljs kan det orsaka allvarliga inre brännskador på bara två timmar och kan leda till döden.

Förvara nya och använda batterier på avstånd från barn.

Om du tror att batterier kan ha sväljts eller placerats i någon del av kroppen, sök omedelbart läkare.

## PL Ważne informacje o bezpieczeństwie



### Uwaga

Terminale oznaczone symbolem przenoszą wystarczająco wysokie napięcie elektryczne, aby stworzyć ryzyko porażenia prądem. Używaj wyłącznie wysokiej jakości fabrycznie przygotowanych kabli z zainstalowanymi wtyczkami ¼" TS. Wszystkie inne instalacje lub modyfikacje powinny być wykonywane wyłącznie przez wykwalifikowany personel techniczny.



Ten symbol informuje o ważnych wskazówkach dotyczących obsługi i konserwacji urządzenia w dołączonej dokumentacji. Proszę przeczytać stosowne informacje w instrukcji obsługi.



### Uwaga

W celu wyeliminowania zagrożenia porażenia prądem zabrania się zdejmowania obudowy lub tylnej ścianki urządzenia. Elementy znajdujące się we wnętrzu urządzenia nie mogą być naprawiane przez użytkownika. Naprawy mogą być wykonywane jedynie przez wykwalifikowany personel.



### Uwaga

W celu wyeliminowania zagrożenia porażenia prądem lub zapalenia się urządzenia nie wolno wystawiać go na działanie deszczu i wilgotności oraz dopuszczać do tego, aby do wnętrza dostała się woda lub inna ciecz. Nie należy stawiać na urządzeniu napełnionych ciecżą przedmiotów takich jak np. wazon czy szklanki.



### Uwaga

Prace serwisowe mogą być wykonywane jedynie przez wykwalifikowany personel. W celu uniknięcia zagrożenia porażenia prądem nie należy wykonywać żadnych manipulacji, które nie są opisane w instrukcji obsługi. Naprawy wykonywane mogą być jedynie przez wykwalifikowany personel techniczny.

1. Proszę przeczytać poniższe wskazówki.
2. Proszę przechowywać niniejszą instrukcję.
3. Należy przestrzegać wszystkich wskazówek ostrzegawczych.
4. Należy postępować zgodnie z instrukcją obsługi.
5. Urządzenia nie wolno używać w pobliżu wody.
6. Urządzenie można czyścić wyłącznie suchą szmatką.
7. Nie zasłaniać otworów wentylacyjnych. W czasie podłączania urządzenia należy przestrzegać zaleceń producenta.

**8.** Nie stawiać urządzenia w pobliżu źródeł ciepła takich, jak grzejniki, piece lub urządzenia produkujące ciepło (np. wzmacniacze).

**9.** W żadnym wypadku nie należy usuwać zabezpieczeń z wtyczek dwubiegunowych oraz wtyczek z uziemieniem. Wtyczka dwubiegunowa posiada dwa wtyki kontaktowe o różnej szerokości. Wtyczka z uziemieniem ma dwa wtyki kontaktowe i trzeci wtyk uziemienia. Szerszy wtyk kontaktowy lub dodatkowy wtyk uziemienia służą do zapewnienia bezpieczeństwa użytkownikowi. Jeśli format wtyczki urządzenia nie odpowiada standardowi gniazdka, proszę zwrócić się do elektryka z prośbą o wymienienie gniazda.

**10.** Kabel sieciowy należy ułożyć tak, aby nie był narażony na deptanie i działanie ostrych krawędzi, co mogłoby doprowadzić do jego uszkodzenia. Szczególną uwagę zwrócić należy na odpowiednią ochronę miejsc w pobliżu wtyczek i przedłużaczy oraz miejsce, w którym kabel sieciowy przymocowany jest do urządzenia.

**11.** Urządzenie musi być zawsze podłączone do sieci sprawnym przewodem z uziemieniem.

**12.** Jeżeli wtyk sieciowy lub gniazdo sieciowe w urządzeniu pełni funkcję wyłącznika, to muszą one być zawsze łatwo dostępne.

**13.** Używać wyłącznie sprzętu dodatkowego i akcesoriów zgodnie z zaleceniami producenta.



**14.** Używać jedynie zalecanych przez producenta lub znajdujących się w zestawie wózków, stojaków, statywów, uchwytów i stołów. W przypadku

posługiwania się wózkiem należy zachować szczególną ostrożność w trakcie przewożenia zestawu, aby uniknąć niebezpieczeństwa potknięcia się i zranienia.

**15.** W trakcie burzy oraz na czas dłuższego nieużywania urządzenia należy wyjąć wtyczkę z gniazdka sieciowego.

**16.** Wykonywanie wszelkich napraw należy zlecać jedynie wykwalifikowanym pracownikom serwisu. Przeprowadzenie przeglądu technicznego staje się konieczne, jeśli urządzenie zostało uszkodzone w jakikolwiek sposób (dotyczy to także kabla sieciowego lub wtyczki), jeśli do wnętrza urządzenia dostały się przedmioty lub ciecz, jeśli urządzenie wystawione było na działanie deszczu lub wilgoci, jeśli urządzenie nie funkcjonuje poprawnie oraz kiedy spadło na podłogę.



**17.** Prawidłowa utylizacja produktu: Ten symbol wskazuje, że tego produktu nie należy wyrzucać razem ze zwykłymi odpadami domowymi, tylko zgodnie z dyrektywą w sprawie zużytego sprzętu elektrycznego i elektronicznego (WEEE) (2012/19/EU) oraz przepisami krajowymi. Niniejszy produkt należy przekazać do autoryzowanego punktu zbiórki zużytego

sprzętu elektrycznego i elektronicznego. Niewłaściwe postępowanie z tego typu odpadami może wywołać szkodliwe działanie na środowisko naturalnej i zdrowie człowieka z powodu potencjalnych substancji niebezpiecznych zaliczanych jako zużyty sprzęt elektryczny i elektroniczny. Jednocześnie, Twój wkład w prawidłową utylizację niniejszego produktu przyczynia się do oszczędnego wykorzystywania zasobów naturalnych. Szczegółowych informacji o miejscach, w których można oddawać zużyty sprzęt do recyklingu, udzielają urzędy miejskie, przedsiębiorstwa utylizacji odpadów lub najbliższy zakład utylizacji odpadów.

**18.** Nie instaluj w ograniczonej przestrzeni, takiej jak półka na książki lub podobny zestaw.

**19.** Nie stawiaj na urządzeniu źródeł otwartego ognia, takich jak zapalone świece.

**20.** Należy pamiętać o środowiskowych aspektach utylizacji baterii. Baterie należy utylizować w punkcie zbiórki baterii.

**21.** To urządzenie może być używane w klimacie tropikalnym i umiarkowanym do 45 °C.

## ZASTRZEŻENIA PRAWNE

Music Tribe nie ponosi odpowiedzialności za jakiegokolwiek straty, które mogą ponieść osoby, które polegają w całości lub w części na jakimkolwiek opisie, fotografii lub oświadczeniu zawartym w niniejszym dokumencie. Specyfikacje techniczne, wygląd i inne informacje mogą ulec zmianie bez powiadomienia. Wszystkie znaki towarowe są własnością ich odpowiednich właścicieli. Midas, Klark Teknik, Lab Gruppen, Lake, Tannoy, Turbosound, TC Electronic, TC Helicon, Behringer, Bugera, Oberheim, Auratone, Aston Microphones i Coolaudio są znakami towarowymi lub zastrzeżonymi znakami towarowymi firmy Music Tribe Global Brands Ltd. © Music Tribe Global Brands Ltd. 2021 Wszystkie prawa zastrzeżone.

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### UWAGA

Wymiana baterii na baterię nieprawidłowego typu

może spowodować pożar lub wybuch.

Wymień tylko na ten sam lub równoważny typ.

Wyrzucenie baterii do ognia, gorącego piekarnika, mechaniczne zgniecenie lub przecięcie baterii może spowodować wybuch;

Pozostawianie baterii w otoczeniu o ekstremalnie wysokiej temperaturze, które może spowodować wybuch lub wyciek łatwopalnej cieczy lub gazu; i

Akumulator poddany działaniu wyjątkowo niskiego ciśnienia powietrza, które może spowodować wybuch lub wyciek łatwopalnej cieczy lub gazu.

Należy zwrócić uwagę na ekologiczne aspekty utylizacji baterii.



### OSTRZEŻENIE

Nie połykać baterii, niebezpieczeństwo

poparzenia chemicznego.

Ten produkt zawiera baterię pastylkową / guzikową. Połknięcie baterii pastylkowej / guzikowej może spowodować poważne oparzenia wewnętrzne w ciągu zaledwie 2 godzin i doprowadzić do śmierci.

Przechowuj nowe i zużyte baterie z dala od dzieci.

Jeśli podejrzewasz, że baterie mogły zostać połknięte lub umieszczone w jakiegokolwiek części ciała, natychmiast zgłoś się do lekarza.



# HERITAGE-D

## HD96-24

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# HD96-24 Overview

### Chapter 1: Introduction

Welcome to the HD96-24 Digital Mixing System. The HD96-24 is a transformation of the Midas live sound experience, designed for the modern day live sound engineer without compromise.

Designed from the ground up the HD96-24 system is the first step in a new way of mixing and interacting with a Midas mixing console, while keeping the famous no-compromise sonic quality. New forward-thinking ideas including large touch screen control, modern multi-touch gesture control with separate widget style areas and the Midas mCloud system to help manage many duties of the HD96-24 system are just a few of the new concepts created to take mixing audio to a new level.

To obtain the best results please read this quick start guide (QSG) and enjoy the future of mixing with the HD96-24 System.

#### About This Guide

This QSG is designed to quickly familiarize the user with the console layout, show how to configure and set the system up and then show how to carry out basic functions needed to start mixing audio.

This document is aimed at professional engineers, such as front of house (FOH) and monitor (MON) engineers, who will be using this equipment in a live sound environment. It is assumed that the reader has previous experience of using professional audio equipment.

For full details of the HD96-24 system please refer to the HD96-24 owner's manual, which can be found on our website at [midasconsoles.com](http://midasconsoles.com). Its highly advised that you read the full manual as many improvements will take place and some of the screenshots in this QSG may be out of date as the software rapidly improves. We are at the inception of this powerful new audio mixing system which will only grow and develop over time.

#### HD96-24 System Firmware Version

Our team of software engineers are constantly working to improve and expand the features of the HD96-24. It is crucial to have the latest firmware version installed on your system in order to achieve the best results from your console. Updates can be found in the Midas mCloud ([cloud.midasconsoles.com](http://cloud.midasconsoles.com)), a new approach to track and store system updates or via the [midasconsoles.com](http://midasconsoles.com) website.

#### HD96-24 Touchscreen

Warning: the HD96-24 should not be placed or operated in direct sunlight. If the screen is exposed to direct sunlight it may be come unresponsive and too hot to handle. Please ensure you have suitable cover for your console.

#### Warranty and Registration

Midas are world renowned for quality and reliability. This product come with the standard Midas 10-year warranty.

Registration of your console is achieved by using the Midas mCloud.

#### Service and Support

The HD96-24 is state of the art technology. We provide incredible levels of support and service available via the Midas mCloud or by our service team to give owners and users confidence in Midas products.

#### Commonly Used Terms and Definitions

Below are some of the terms used in this QSG. Knowing these terms and what they mean will make reading this document straight forward.

**GUI** - Graphic User Interface or Touchscreen.

**Channel** - Any input, Output (Aux, Matrix).

**Path** - Any Input, Output, VCA or Master.

**POPulation Group** - A group of channels used to bring or recall paths to the surface.

**Contributions** - Any path that contributes to an output bus.

**Touch** - The action of pressing the touch screen to turn on or select a function.

**Select** - The same as Touch.

**Pinch** - Two fingers squeezed together, used to tighten or widen equalizer width (Q).

**Swipe** - Moving a page left to right or up and down by pressing, holding and moving in the required direction.

**Press and Hold** - Either a way to select all the paths on a current page for multiple editing or a way to engage a parameter function that may be critical if pressed in error, for example flattening the EQ is a press and hold function.

**Widget** - The name for a window or various windows displaying information on the GUI as part of a workflow.

**Workflow** - Visualizes the activities needed to mix audio.

**Pot** - A physical control used to adjust a level or value.

### Chapter 2: HD96-24 Overview

#### Introducing the HD96-24 Digital Mixing System.

For decades Midas has been a driving force in the world of pro audio. Building on the incredible success of the XL8 and PRO Series with their exemplary audio performance and road-proven rugged and reliable construction, the Midas PRO Series became the gold standard in concert touring and installed live sound. Offering the same outstanding sample-synchronised and phase-coherent audio performance, interpolated control functions and intuitive navigation, the PRO2, PRO3, PRO6, PRO9 and later PRO-X Live Audio Systems have become one of the industry's main choices for live sound mixing.

Now the HD96-24 pushes the boundaries further yet again with a 21" touchscreen for hands on instant access to all controls. Parameter adjustment becomes fast and easy with gesture touch interaction using the precise and accurate multi-touch display which allows up to 10 simultaneous touches. Featuring 144 Simultaneous flexi inputs and 123 (96 x Flexi Aux + 24 x Matrix + 3 Output busses = 123) time-aligned, phase-coherent busses with no stealing of resources in channel or bus counts. True and consistent 96 kHz sampling frequency and 64 bit floating point processing provide exemplary quality audio processing, and the oversampled and interpolated digital signal processing algorithms, combined with the fully interpolated and touch sensitive user controls, result in the smooth continuous response and immediacy of working on an analogue console.

The HD96-24 features the rugged and road-proven Klark Teknik HyperMAC (HMAC) and SuperMAC (AES50-compliant) networking technologies with their ultra-low and deterministic latencies and robust error correction. Its powerful audio networking offers up to up to 624 inputs and 654 outputs at the 96kHz sample frequency depending on configuration.

# HD96-24 Overview

The 24 VCA (Variable Control Association) and 24 POP (POPulation) groups, combined with the advanced touch screen navigation system, 28 faders, assignable controls and innovative shortcut area allow simultaneous display and control of all the critical information required to craft an unprecedented mix experience.

## Applications

The HD96-24 is the go-to high-end Midas Digital Console System, akin to the 'industry standard' Heritage 3000 and XL4. Although the HD96-24 is designed for the traditional touring live sound environment, it is also ideal for theatre, house of worship installations and broadcast. So, being a truly multi-functional console in the Midas tradition, the HD96-24 is suitable for many applications, such as:

Live sound touring FOH or MON duties.

Live sound theatre FOH or MON duties.

Live sound house of worship FOH or MON duties.

## System busses

The HD96-24 has comprehensive system busses to suit demanding applications, comprising of:

- 2 stereo solo busses, routable from all locations and allowing for dual operator.
- 3 master busses (1 Stereo 1 mono), routable from the mic/line inputs (up to 144), and 96 aux busses.

- 24 matrix busses, routable from the mic/line inputs (up to 144), 96 aux busses and three stereo busses.
- 96 aux busses (either standard or flexi-aux, routable from the mic/line inputs (up to 144) or flexi aux bus to aux bus for group or stem style processing.

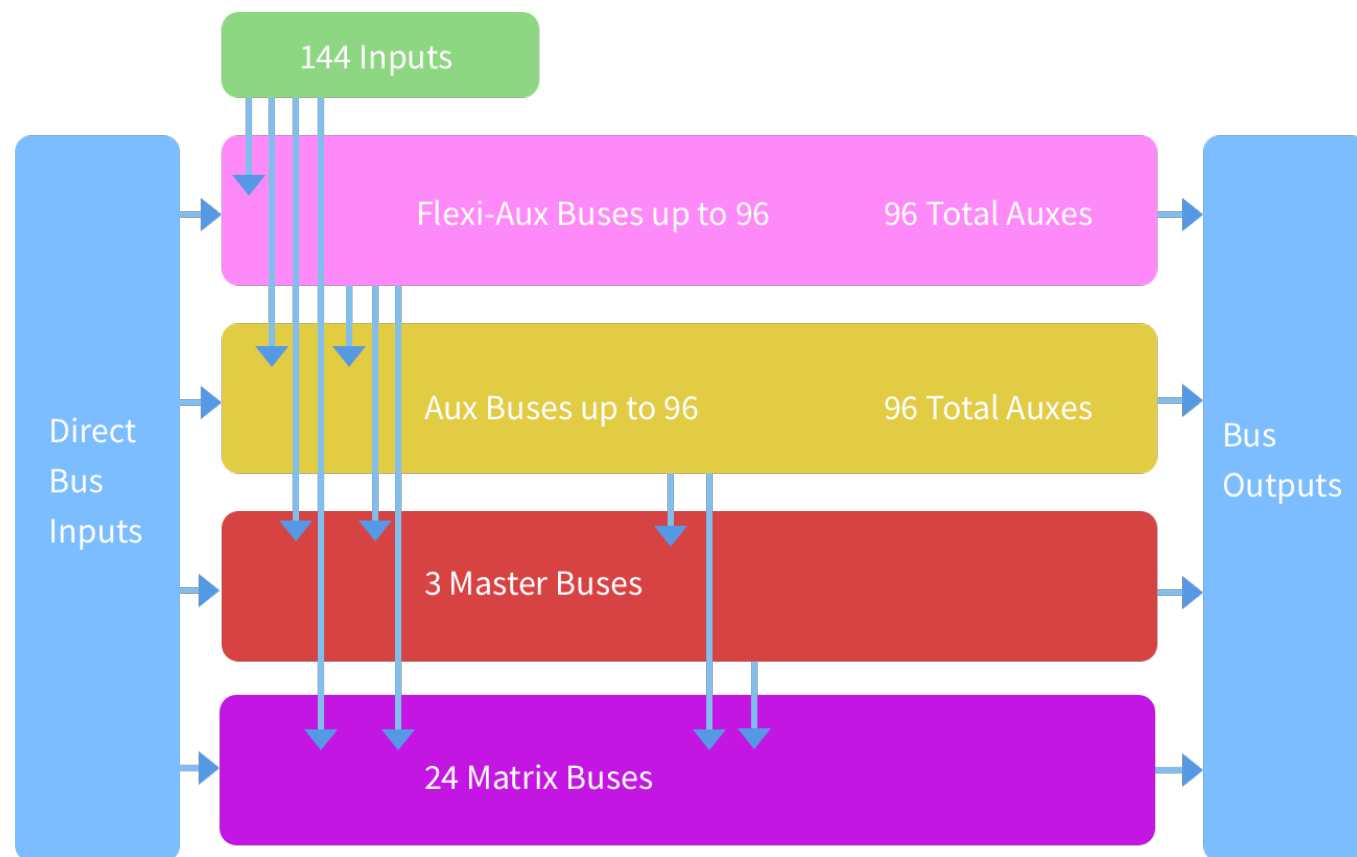
All of the bus routings provide simultaneous and time aligned mixing of all the sources, which will be switchable for minimum latency requirements.

For monitor mixing, the master, matrix and aux busses can all be routed directly from the input channels, with independent level controls providing up to 123 monitor mix busses. Flexi-Aux busses allow group mixing of channels to be sent to Auxes, Matrices or the Masters, for example, mix and process all your drums via a Flexi-Aux then send to an IEM Aux.

For traditional FOH sub group mixing, any (or all) of the aux busses can change to operate post-channel fader and pan (that is, aux gain fixed at unity).

## Mix matrix

Fundamentally, the mix matrix defines the capability of the HD96-24. Probably the best way to imagine the mix matrix is to think of an analogue console layout, where inputs run vertically, and busses run horizontally. A mix matrix is usually defined as the number of busses and the quantity of simultaneously-mixable inputs there are per bus. The following diagrams illustrate the capability within the HD96-24 system.



## Network

The network of the HD96-24 utilises the physical connectivity of Ethernet (EtherCon® connectors and Cat 5e/copper cable) but replaces its data protocol with AES50 protocol (implemented as SuperMac) and the HyperMac high capacity system, which are more suited to high quality, low latency audio distribution. The use of the AES standard allows straightforward interfacing with any third-party hardware that also utilises this connection.

AES50 connections carry digital audio and control data bi-directionally down a single cable. Cat 5e cable is used for the 'local' connections and the dual digital 'snake' (equivalent to a 384-channel analogue multi-core, 192 channels per snake connection) between console and I/O. The combination of audio, control, clock and third-party Ethernet data in a single network means that the hardware interfaces on a single RJ45 connection.

All system connections can be duplicated for full dual redundancy.

## mCloud Network

The Midas mCloud network is a brand-new concept in file and system management. The HD96-24 has built in Wi-Fi capabilities which allow the surface to share its information over a Wi-Fi connection and any other network connections to the mCloud. Be reassured the connection is completely safe and great lengths have been taken to keep information secure.

The mCloud can be used to store your show files, preset files and all other types of data from the console. If you leave your USB stick with your vital settings at home, you can directly log into your mCloud account and load your show file straight to the HD96-24 without breaking a sweat.

New system updates can be downloaded directly to the surface ready for you to update when you're ready. A list of all previous software versions will be stored on the HD96-24 for peace of mind.

It also allows audio rental companies to keep a track of registrations, software versions, warranties and diagnostic logs. All the admin for running a busy hire company in one place.

Each user of the HD96-24 will be prompted to set up a user profile which also in turn configures your mCloud account. Visit [cloud.midasconsoles.com](http://cloud.midasconsoles.com) to set up and use your account.

## HD96-24 software

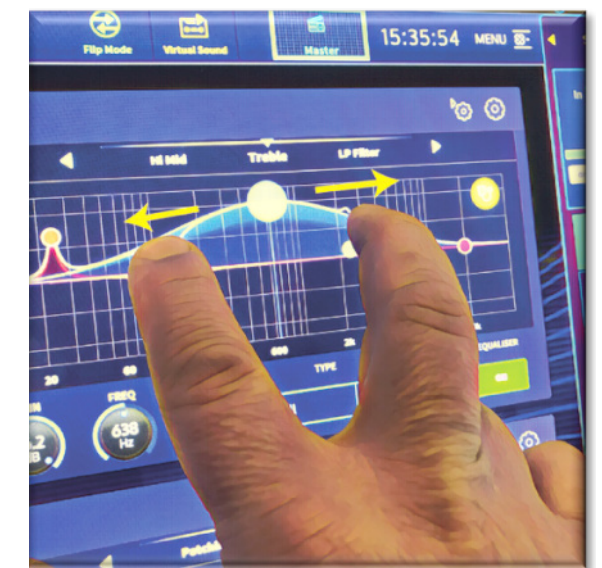
The operating system of the HD96-24 is Linux, which is an open-source, stable, proven operating system (OS). Linux is used in many mission-critical applications worldwide and has allowed Midas' software engineers to write a ground-up system that contains no 'hidden' or unused code. This has resulted in an efficient, compact application, which is quick in operation, quick booting and comparatively easy to debug.

## Graphic User Interface (GUI)

The HD96-24 has a 21" touch screen that provides a quick and intuitive workflow. Modern touch gestures such as pinch and smooth touch screen faders have been included to speed up work flow and let you concentrate on the mix. Not only does the GUI reflect what is happening on the control surface, but it also provides extra functionality via a top and side bar menu. These menus provide access to all the pages that you will require to set up, configure, manage and operate the entire control surface.

Gone are the days of only one touch on a screen at a time. Use both hands to manipulate up to 10 faders at a time if you so wish.

Pinch gesture showing EQ width adjustment.



Independent widget style areas are extensively used to display various different types of information at once, all fully customisable to suit your workflow.

## System card expansion

The HD96-24 has 2 x CM-1 slots built in for further audio expansion. Adding up to an additional 128 channels of I/O greatly increases networked capabilities. Virtual sound checks and recording have never been easier to set-up and achieve with flexible options. Being able to support new and emerging protocols via its two industry-standard expansion slots gives the HD96-24 a greatly extended shelf life.



# HD96-24 Basic Operation

## Chapter 3: Before You Start

### Principles of operation

Control surface operation is based on the concept of colours and groups rather than 'layering' or 'paging', which is the case with most digital consoles on the market today. With so many channels available it is far easier to remember them by their user-configured individual/group colour and name rather than their channel number. Tags can also be used to group channels together in order to speed up certain functions, for example, changing the colour of all the drum channels.

The control surface is populated with instantly recognisable controls that are logically distributed in major sections, so that all the controls you need to access most of the time are always on the control surface, while the remainder are only one action away. You can display all I/O meters, both on the control surface and the GUI via the Console View workflow, to give instant monitoring and metering feedback.

### Operating modes

You can change certain aspects of the control centre operation by assigning different tasks to certain areas of the control surface.

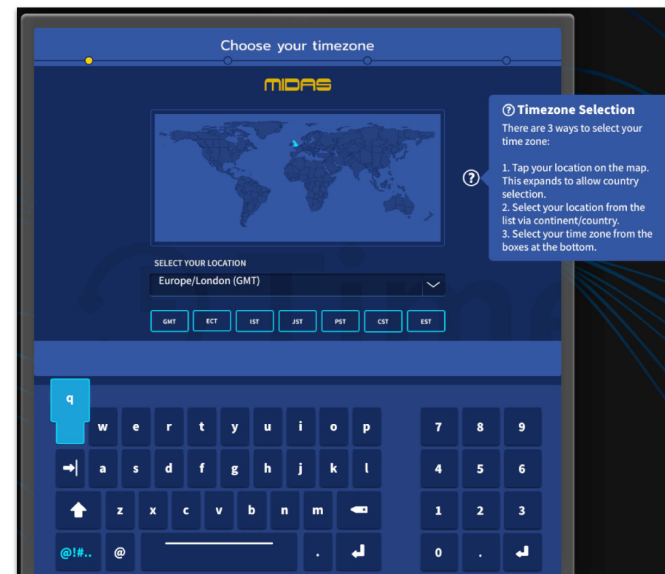
### Hints and tips

Checking the Console View screen frequently is a good idea. This provides at a glance an overview of the control surface's input/output status.

The Manchino (Multi Edit) page is a great place to set various inputs or outputs to user defined levels or settings e.g. for setting all faders to 0dB, setting all contributions into a particular aux to be Pre-fade, or routing a large number of paths to the Stereo bus. Details of how it works can be found in full HD96-24 manual.

### User Journey

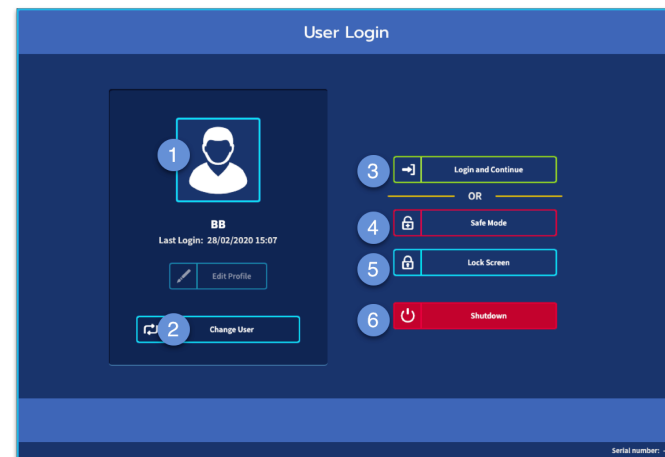
When the HD96-24 is switched on for the first time you will be presented with the welcome screen, then the Country or Region selection page. In order to enjoy the full benefits of the mCloud system it is advised an internet wired or wireless network connection is available. You will then be guided through the various pages to set up and login into your mCloud account.



### Setting up a User Profile

The HD96-24 incorporates a system of User Profiles for storing information about the console set-up and other User info. Each person using the HD system can have their own profile which keeps all your show files and other useful information on the console and via the mCloud network if the HD system has an active internet connection.

After the system has been registered and is turned on for the second time you will be asked to either log in or create and add a new profile.



1. Current selected profile.
2. Change user profile
3. Login to your mCloud account (all active files in your account will be available in Show Manager).
4. Safe Mode (the show database is not available in safe mode, but you can still mix).
5. Activates the lock screen.
6. Shutdown the console.

### Saving your work

We recommend that you save your work regularly to the mCloud and a USB stick while carrying out the procedures included in this guide. Not only is this good practice during normal operation, but in this instance, it may save you from losing some set-ups that could prove useful later on.

### Saving a show versus storing a scene

It is important to understand the differences between saving a show and storing a scene. Storing a scene saves the current settings of the system to the show file. Scene data is never updated unless you manually store a scene. The show file remains unsaved in RAM. Although the state of the control surface is copied every five seconds, it is not stored in a scene. Instead, it is placed in the NVRAM (non-volatile random-access memory) of the control surface's memory, which is a type of RAM that doesn't lose its data when the power goes off. If the control surface loses power accidentally, these settings are loaded so that audio parameters are identical, thus avoiding audio level jumps.

Saving a show copies the show file onto the internal solid-state disk of the control surface. This provides you with a 'permanent' copy, provided you shut down the system properly as detailed in the following section. You also have the option of saving your show to your Midas mCloud account. This gives extra security to your work and allows your show file to be restored to a console even if you have lost your USB stick.

### Shutting down the control centre properly

When switching off the control surface, we recommend that you use the shutdown option in the GUI menu.



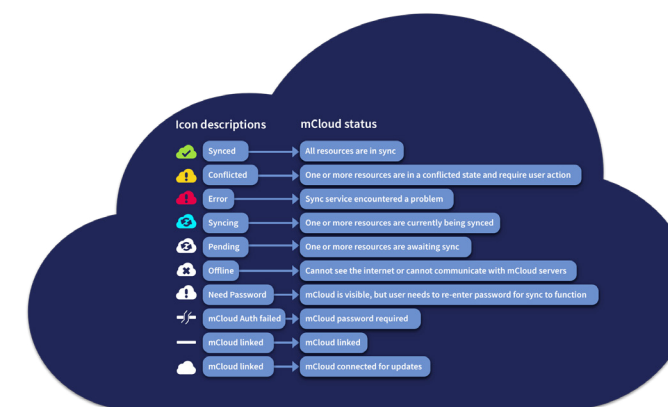
Hold **Shutdown** for a short time while the line traces around the outside of the button. The surface will then start the shutdown routine, the screen will go blank, the Midas logo will briefly be displayed, then the screen will go blank for a second time indicating the shutdown procedure has finished. Only once the system has been shutdown correctly is it safe to turn off the power switch. By using shutdown, the cached copy of the show data, which is maintained by the system, is automatically stored. Shutdown then uses the current show file, NVRAM data and cache files to restore the control surface to exactly the same state as at power down; even to the point of loading the unsaved show and placing you at the correct scene, with non-stored scene data at the control surface.

If you don't use the **Shutdown** option the audio parameters are still restored, but the show and show status (saved/unsaved) cannot be restored automatically. You must manually reload the show, and any unsaved changes will be lost.

### The Midas mCloud system

mCloud handles all show file storage at its basic level. Imagine leaving your USB stick at home but not worrying as once you sign into your mCloud account on the surface you can see all your shows in one convenient place.

Below is a status list to show how your files are synced or not.



Status if connected to the mCloud:

- **Synced** All versions of this show have been pushed to the mCloud; any newer mCloud versions have been synced to the console.
- **Pending** One or more newer versions have been created on the console and will be synced shortly.
- **Syncing** Edits are being pushed to and/or pulled from the mCloud.
- **Conflicted** Edits have been made on both console and cloud: awaiting user to select the correct current version.
- **Error** The sync service encountered a problem trying to sync this resource (e.g. due to an issue communication with the mCloud).

"Connected to mCloud" means the console can reach the mCloud server, the current user is mCloud-enabled and a valid password has been entered (or a valid token saved from a previous session).

Status if offline:

- **Synced** Latest version of shows on the console have been synced to the mCloud. Newer mCloud versions will be unknown.
- **Pending** One or more newer versions have been created on the console and will be scheduled for sync next time the console is connected.
- **Syncing** n/a
- **Conflicted** n/a
- **Error** n/a

# HD96-24 Basic Operation

## Chapter 4: About the Control Surface

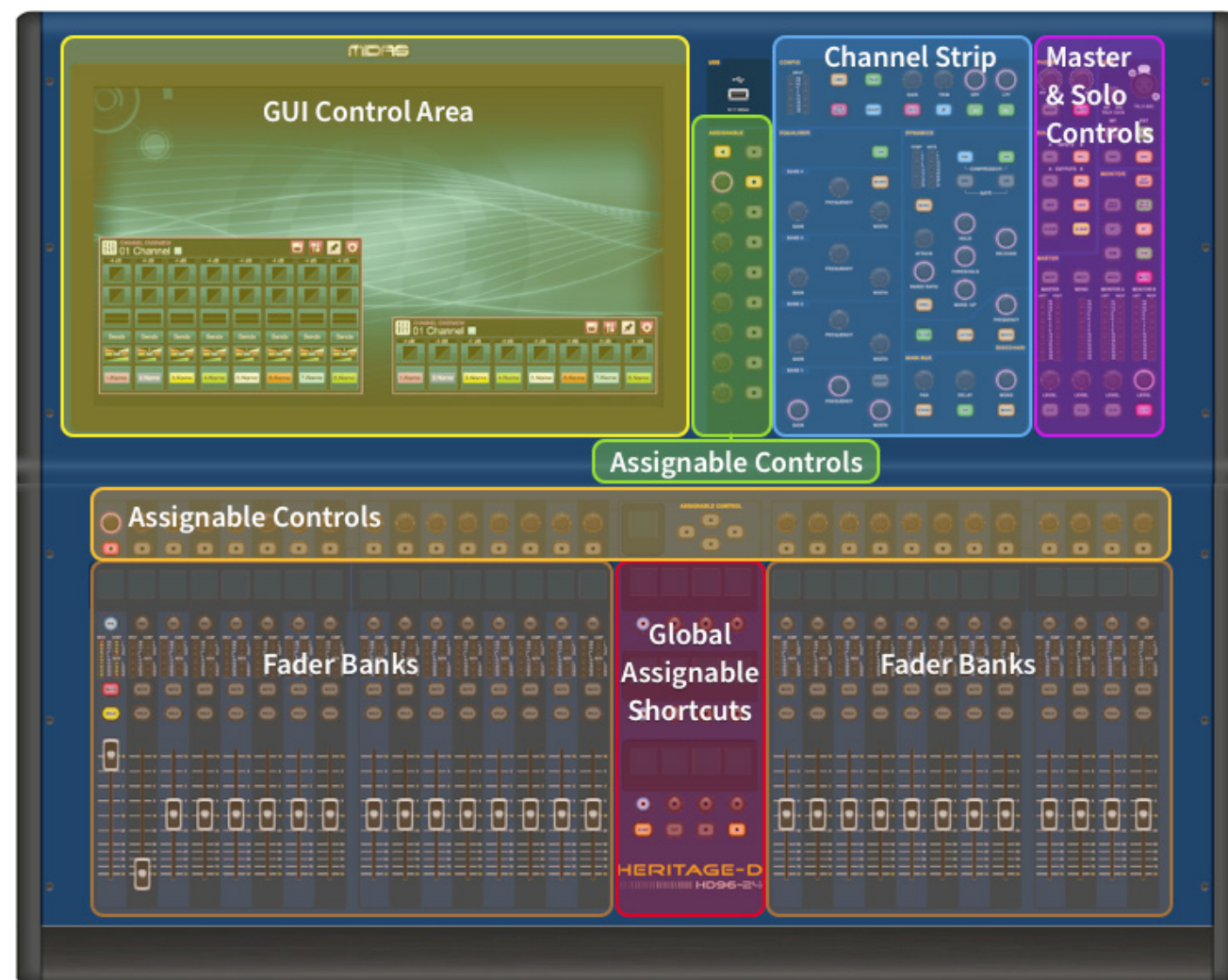
The HD96-24 has been designed from the ground up to give the operator easy-to-use touchscreen controls along with familiar analogue style controls. This clever combining of working methods ensures any engineer can walk up to this console and instantly feel at home, but when required can delve deeper into the system to achieve complex routing and detailed sonic manipulation.

The surface is constructed on a robust Midas steel frame chassis similar to those used in established Midas analogue products. All of the surface is controlled from two processors. All associated power supplies, computer motherboards, Wi-Fi router, Bluetooth, memory, graphics cards etc. are housed within the surface, which also contains a digital audio router box that supports local I/O connectors on the rear panel. Substantial forced air-cooling is provided by a bulkhead and large (but slow moving) internal fans. The large capacitive touchscreen displays a large quantity of information and can be customised to match your workflow to make mixing a pleasure. Using modern day gestures from mobile phone and tablet technology such as pinch and swipe makes parameter manipulation even faster and more responsive with up to 10 simultaneous touch points.

The HD96-24 system is designed to be easy to see for colour blind people. Great care has been taken to make the system visible to as many types of colour blind people as possible.

### Control surface layout

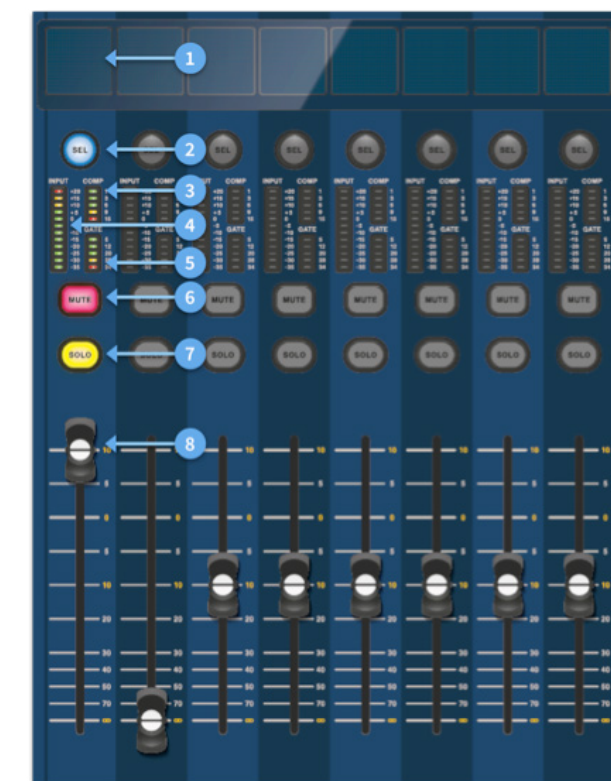
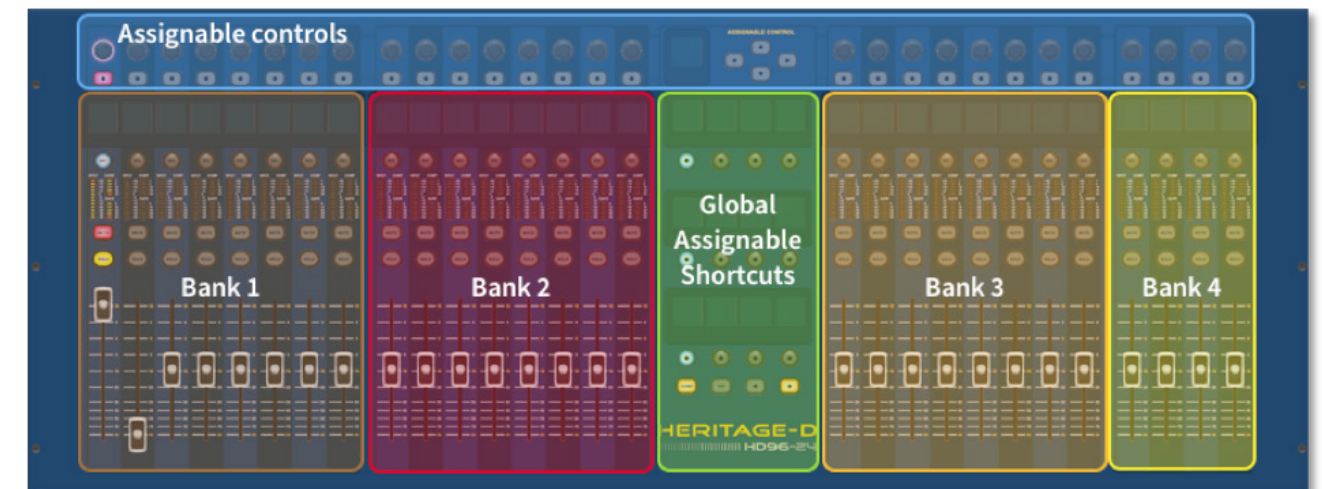
The HD96-24 surface can be split in to 7 distinct areas making operation quick and precise with all controls close to hand. The areas are defined in the diagram below.



The HD96-24 has 4 fully assignable fader banks split into three banks of eight faders and one bank with four faders each with individual full colour ultra-bright LCD displays. Any section can be assigned to any function, be it inputs, outputs, POPs, VCA, Matrices or Masters. This concept allows the user to fully customise the surface to suit their mixing preferences.

The global assignable shortcuts area can be used to provide many simple and complex functions with macro style controls right at your fingertips. E.g. Pop group selection, triggering macros or automation recall.

The assignable controls above the faders and to the side of the GUI can be fully customised to suit your workflow. Functions can be changed quickly with the cursor arrow controls. For e.g. altering pan position, aux control or gain changes.



### Channel strip layout

Each channel strip within a bank provides:

- 1 LCD Display** - A high-resolution display providing metering, channel information and flip status, and local parameter values.
- 2 Sel (Fader Channel Select)** - This button selects the channel for a variety of operations, including adjusting parameters from the GUI and assigning to the channel detail area.
- 3 COMP** - Compressor gain reduction meter (GR).
- 4 INPUT** - Input metering.
- 5 GATE** - Gate gain attenuation meter (GA).
- 6 MUTE** - Press the MUTE button to mute (turn off) the channel.
- 7 SOLO** - Press SOLO to listen to the channel signal.
- 8 LEVEL** - The fader is touch sensitive providing gain control from  $-\infty$  to +10dB (or +6dB if contributing to an output bus).



# HD96-24 Basic Operation

## Global Assignable Shortcuts

The Global Assignable Shortcuts area in the centre of the surface allows various functions to be placed within easy reach of the user. Twelve full colour LCD displays with selection buttons show a great deal of information and allow for complex operations to be recalled with one button press.

## Home

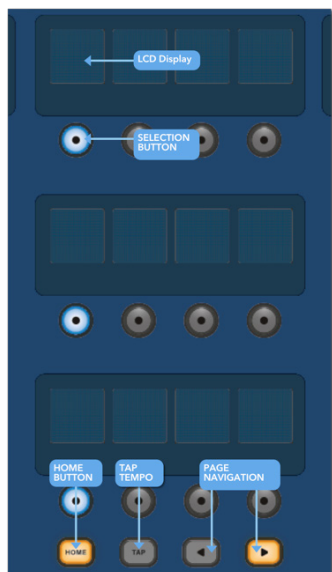
The HOME key is located under the Shortcuts area. When pressed the HOME workflow is brought to the GUI.

## Tap

The TAP button is used to set the tempo for effects assigned to the Global TAP tempo function. Commonly 8 taps are required for an accurate tempo.

## Arrow Keys

These two keys tab through the various pages of the global assignable shortcuts pages which can be fully customised.



The familiar looking Channel Detail Area is used for hands on control with sections for Config, Equaliser, Dynamics, Phones, Talk, Solo, Monitor, Main Bus and Master. This area makes using the surface easy to use with a familiar analogue feel. The 4 x Change Over (C/O) buttons for Master, Mono, Monitor A and Monitor B assign the control to the fader below for quick control by fader level.

## Front and rear panel connections



The surface has connector panels on both the front and rear. The front connector panel to the right of the GUI has an XLR socket and a USB sockets for connecting a talk mic and USB device, respectively. For example, you can connect a USB memory stick for show file backup and transfer. Under the armrests at either side there are two 6.35 mm headphone sockets which link to Mon A and Mon B respectively.

## Chapter 5: System Setup

### Unpacking the equipment

After carefully unpacking the equipment, save all packing materials, as they will prove useful should it become necessary to transport the equipment later. Inspect the equipment carefully for any sign of damage incurred during transportation. It has undergone stringent quality control inspection and tests prior to packing and was in perfect condition when it left the factory. However, if the equipment shows any signs of damage, notify the transportation company without delay. Only you, the consignee, may institute a claim against the carrier for damage during transportation.

### Racking the I/O

Please take note of the rack requirements as detailed below:

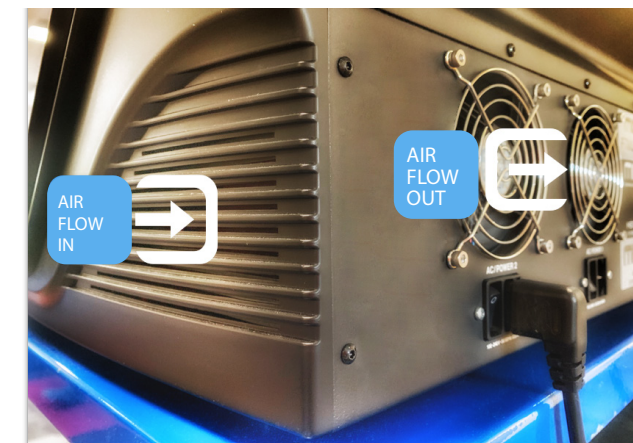
To ensure the correct installation and function of the outboard equipment, any rack has to meet the following general requirements:

### Shock mounting (for non-installation environments)

The rack must provide adequate shock protection of the units it houses by incorporating appropriately-designed shock protection methods. For example, a foam-suspended rack or a frame suspended on anti-vibration mounts.

### Ventilation

The HD96-24 has air intake vents on each side of the console. Air is drawn in through the console side vents and exits via the two fans on the rear of the surface. It is vital none of these airways are blocked as overheating may occur if airflow is restricted.



The Midas I/O units have been designed such that their internal ventilation airflow is drawn in through the front of the unit and expelled through the rear. To facilitate this, rack design must ensure that cool air can flow freely through the rack in the same direction, that is, in through the front of the rack and out through the rear. Situations where the air flows in a circular direction around and through a Midas I/O unit must be prevented. Midas recommends that racks with fully opening front and rear doors are used.

### Caution

Never combine units in the same rack that have been designed for a ventilation air flow direction other than that designed for the MIDAS units. To avoid this, we recommend that any non-MIDAS units are housed separately.

### Rack mount supports

Always secure the rear of the Midas I/O units to the rack via their rear rack mount support brackets. These brackets are fitted to every Midas I/O unit and are recommended for use in touring applications.

### Handles on rack case

You must ensure that there are sufficient external handles fitted to the rack casing to enable the rack to be manoeuvred easily and safely, and by the number of personnel suitable for the task. Also, these handles must be fit for purpose.

### Clearance at rear of units

Ensure an adequate clearance at the rear of the units to provide sufficient free space to enable the cables to achieve their minimum bend radius.

### Securing the cables

We recommend that the cables at the rear of the units be tidied using lacing bars and cable ties. This should provide optimum access to the rear of the units for connecting other cables, switching the units on/off etc., and also to give maximum visibility of the units' LEDs for determining communication status, link status, condition of audio etc.

### Connection instructions

There are currently two ways to connect the system equipment together:

1. HD96-24 surface to a Klark Teknik DN9680 via copper (up to 100 m) or with a multi-mode (MM) fibre optic snake (up to 500 m). Then Klark Teknik DN9680 to I/O box (for example, DL231) via Cat5E (up to 100 m).
2. HD96-24 surface direct to I/O (for example, DL231) via Cat5E (up to 100 m).

### It is imperative only STP Cat5E Rated cables are used!

Length = 100M Point to point as per the Cate5E ethernet protocol - Please take into consideration any in line connections or links reduce the overall cable length.

### AES50 Cat5e STP vs UTP cables.

Music Tribe are standardising the use of Ethercon cables used for AES50 connections and state that customers must use Shielded Twisted Pair (STP) cable only with shielded RJ45 plugs and Ethercon shells.

STP cable has the added advantage of a foil or braided shield that guards the cable against electromagnetic interference. A good foil or braided shield and correctly connected shielded plugs and shells also helps protect against Electrostatic discharge (ESD) that can be the cause of dropouts on AES50 connections.

Occasionally shielded Ethercon cables will leave the shield disconnected on one end to help with ground loops, even though it has no benefit for AES50 connections. These connections should have continuity of the shield on both ends including the Ethercon shells. This will ensure the best possible protection against strong ESD impacts, such as handling discharges or even lightning strikes in the neighbourhood.

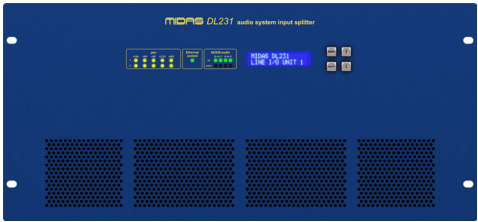



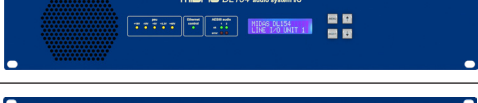

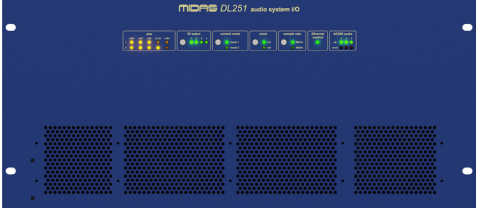
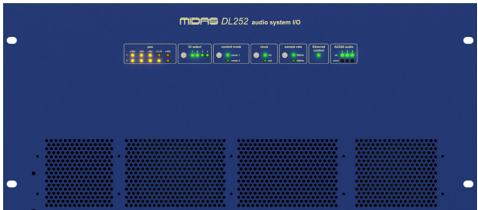
All AES/EBU connections must use **good quality 110Ω AES/EBU** cable to ensure correct operation.

# HD96-24 Basic Operation

## System components

Below is a list of currently compatible system I/O components with the HD software. When I/O is connected to the HD96-24 system it will be necessary to be update to the latest HD I/O software. The updater is built into the console and guides you through the update process. Once updated, I/O boxes will still be compatible with Pro Series consoles.

**Note: I/O boxes will need to be updated in order to work with the HD96-24 system. The I/O Box and Device updater can be found in the Update Manager page. With all your I/O connected press Sync I/O and follow the instructions. Updated I/O boxes are fully compatible with Pro Series consoles.**

I/O UNIT	
<p><b>DL231</b> - 2 award-winning Midas microphone preamplifiers per input with switchable +48 V phantom power 2 dual redundant AES50 network ports with independent phase-locked loop synchronisation 24 electronically balanced output channels can be sourced from microphone preamplifiers or AES50 ports</p>	
<p><b>DL151</b> - 24 award-winning Midas analogue mic preamps with switchable +48 V phantom power</p>	
<p><b>DL152</b> - 24 active-balanced low impedance line-level outputs</p>	
<p><b>DL153</b> - 16 award-winning Midas analogue mic preamps with switchable +48 V phantom power 8 active-balanced low impedance line-level outputs</p>	
<p><b>DL154</b> - 16 active-balanced low impedance line-level outputs 8 award-winning Midas analogue mic preamps with switchable +48 V phantom power</p>	
<p><b>DL155</b> - 8 award-winning Midas analogue mic preamps with switchable +48 V phantom power 8 active-balanced low-impedance line level outputs 8 AES3 (AES/EBU) digital inputs and 8</p>	
<p><b>DL251</b> - Audio System I/O This is supplied as a fixed configuration unit with 48 mic/line inputs and 16 outputs.</p>	
<p><b>DL252</b> - Audio System I/O This is supplied as a fixed configuration unit with 16 mic/line inputs and 48 outputs.</p>	

## Connection Via DN9680

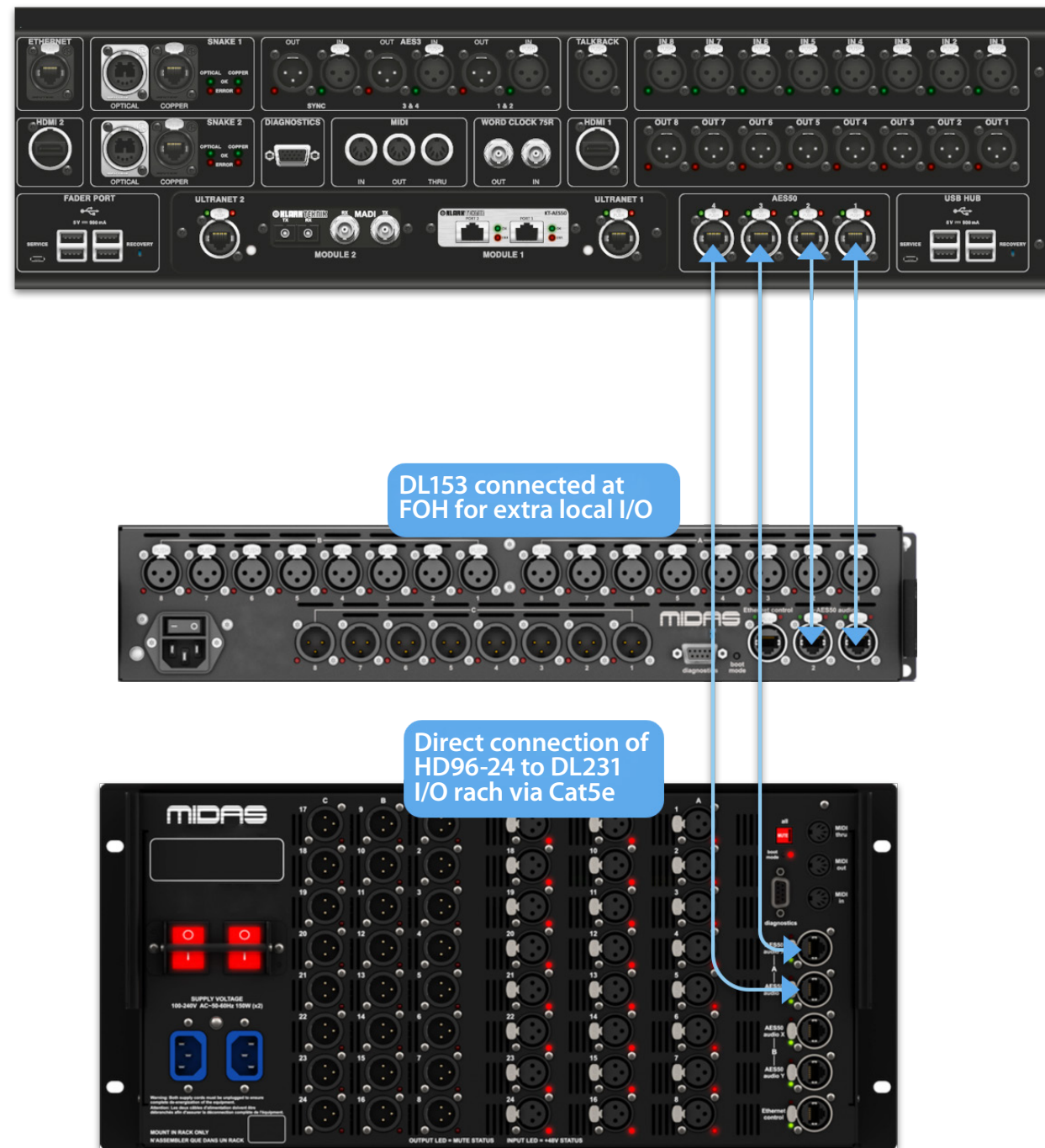




# HD96-24 Basic Operation

EN

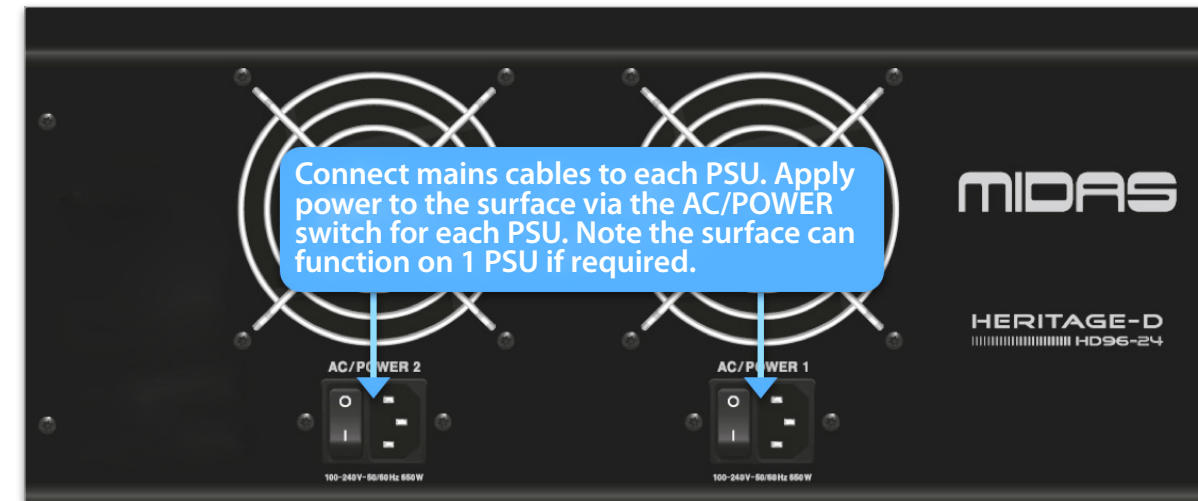
## Direct connection of I/O



## To power up the system

Important Note:

Make sure your speaker system, in-ears or monitor wedges are muted until the start-up of the system has been completed.



After all system interconnections have been made, start up the system by doing the following:

### Switching on the HD96-24

1. Plug the two mains cables into the mains power outlets. Both power supply modules should be supplying power to the HD96-24 surface for correct redundant operation.
2. Plug the connectors of the mains cables into the IEC mains sockets on the rear of the HD96-24
3. Turn on the power to the HD96-24 surface by switching both AC POWER switches on. The surface will boot up. Once the default GUI screen is displayed, it is ready for use.

### To switch off the HD96-24 surface

1. Make sure you have saved any shows, scenes or settings you require.
2. In the GUI, select Menu from the top bar, then press and hold the red SHUTDOWN button at the bottom of the menu until the line traces around the outside of the red button. The shutdown procedure will then initiate.
3. The screen will go blank, the Midas logo will briefly be displayed, then the screen will go blank for a second time indicating the shutdown procedure has finished. Only once the system has been shutdown correctly is it safe to turn off both AC power switches (rear of surface).

# HD96-24 Basic Operation

## Setting up the ID of the unit(s)

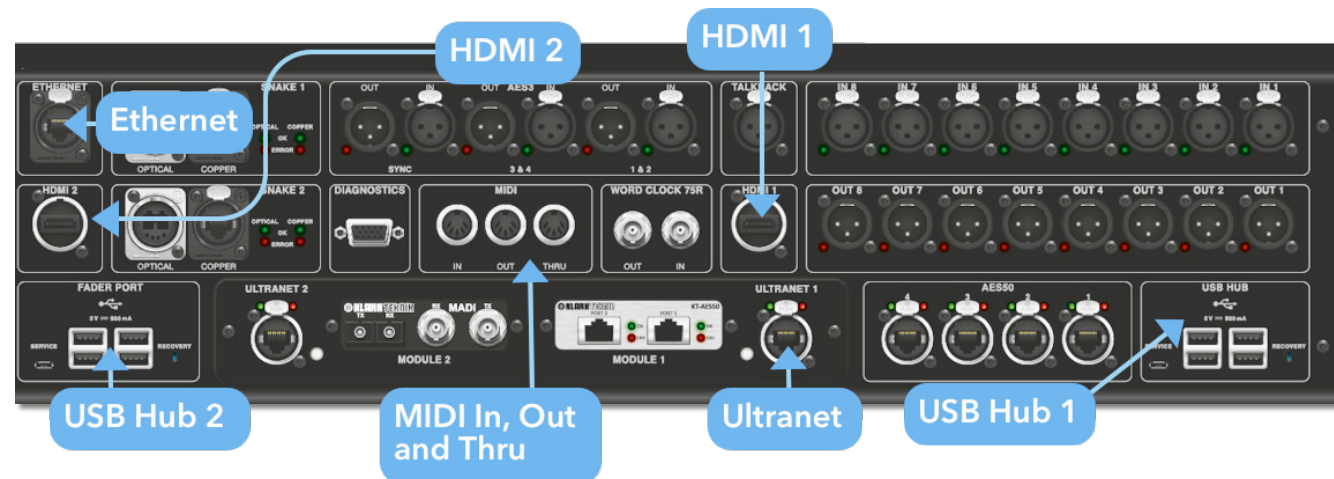
After connecting up your system, you may need to set up the ID of the unit(s) in the rack, such as the DL231 I/O or DL15x I/O, as each unit within the same family of units must have its own unique ID number.

Please refer to the DL series or HD manuals for full details on changing unit ID's.



A connector panel on the rear of the control surface has two main sections. On the left are two mains power inlet and ventilation assemblies, with 2 x AC power switches below. The right-section contains connections for the Snake/Multicore, Ethernet control, eight analogue audio inputs and outputs, three AES3 inputs and outputs, diagnostics, word clock, Twin HDMI™ external monitor outputs, Midi, Talkback (line level input), two expansion card slots and USB Hub.

## External interfaces and peripheral devices



Various devices can be used with the HD96-24 such as an external USB keyboard.

**MIDI** Standard 5-pin connectors are housed in the rear panel for use as MIDI IN, OUT and THRU ports. These are also fitted on some I/O units (DL231, DL251 for example) and, therefore, are available at both the FOH and the stage locations.

**USB** 2 x 4way USB 3.0 hubs are provided on the rear of the HD96-24. In addition, a USB port can be found to the right of GUI screen for convenient file transfer. The Fader Port USB outputs are only for use with future fader bank expansions.

**External monitor** The HD96-24 has 2 HDMI™ connections on the rear panel to connect extra displays (1920 x 1080p 59.94Hz/60Hz 16:9 & 720 x 480p 59.94Hz/60Hz 16:9 supported).

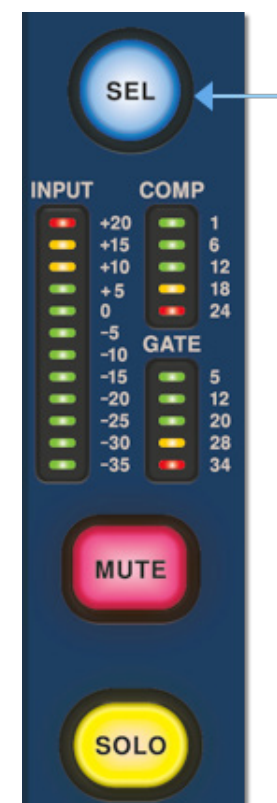
**Ethernet port** The Ethernet port on the rear of the surface is for connecting the HD96-24 to a network or external wireless router.

**Ultranet** 2 x Ports for connecting Ultranet enabled devices.

## Chapter 6 Surface Controls

The HD96-24 has full multi-touch screen control. This gives the user some of the feeling of working with analogue consoles again whilst at the same time incorporating modern ways of interacting with everyday products like smartphones and tablets. One of the advantages digital consoles have over analogue ones is that their channel count is not limited by the control surface hardware. However, this means that only a certain number of channels can be shown on the control surface at any time, while the others are available at the touch of the screen (GUI) or assignable shortcuts area.

Pressing the SEL (select) button on any input or output will bring the chosen channel to the surface controls (also to the touch screen widgets). From here adjustments to many common parameters can be changed such as Gain, EQ, Dynamics or Pan position. This way of working has a familiar feel that you will understand and be comfortable to use. Mute will turn the channel off and solo will send the audio of the selected path to either the A or B solo bus depending on path settings.



## Navigating via the surface detail area

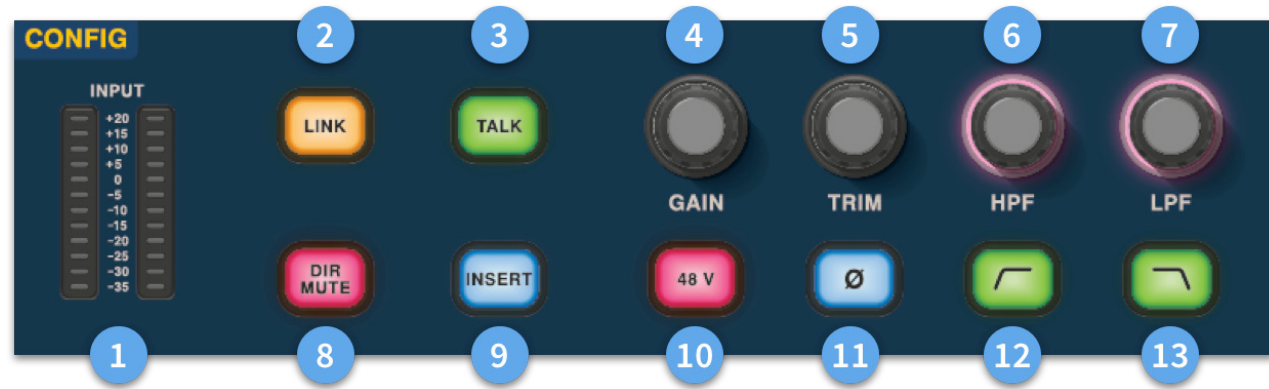
The surface is laid out with a familiar analogue feel for easy operation. Everyday functions are available for hands on operation. All functions are mirrored in the GUI with parameter values highlighted on touch. This allows you to make changes quickly to the selected channel or path.





# HD96-24 Basic Operation

## Config



- 1 **Meters** - 12 LEDs Stereo input meters display signals from -35 dB to 20 dB.
- 2 **Link** - Links the currently selected input channel to the next input. Note outputs always link odd to even, i.e. Aux 1 to 2 etc.
- 3 **Talk** - Send the talk bus to the select channel.
- 4 **Gain** - Adjust the gain of the input channel pre-amp.
- 5 **Trim** - Adjust the trim level for inputs -40 to 20 dB or for Aux, Matrices and Master Busses -12 to 6 dB.
- 6 **HPF** - High Pass Filter (HPF) control with a range from 10 Hz to 10 kHz.
- 7 **LPF** - Low Pass Filter (LPF) control with a range from 40 Hz to 20 kHz.
- 8 **Dir Mute** - Mutes the direct out of the currently selected channel.
- 9 **Insert** - Switches on the insert point on the selected channel.
- 10 **48 V** - Activates 48 V phantom power on the selected input channel.
- 11 **Ø** - Polarity Switch. Changes the polarity of the selected channel by 180° (often inaccurately called phase reverse as the button only inverts polarity).
- 12 **HPF on** - Activates the HPF.
- 13 **LPF on** - Activates the LPF.

## Equaliser



- 1 **On** - Turns the Equaliser on for the selected channel.
- 2 **Gain** - Each band has +- 16.2 dB of range.
- 3 **Frequency** - Each band as a frequency range of 16 Hz to 25 kHz.
- 4 **Width** - The width or Q of an EQ band can be changed from 0.3 to 5.3.
- 5 **Shape** - Changes the shape of Band For inputs the shape options include, Bell, Bright, Classic and Soft. For outputs the Shape button has Shelf, LP 6 dB, LP 12 dB and Bell modes.
- 6 **Shape** - Changes the shape of Band For inputs the shape options include, Bell, Deep, Classic and Warm. For outputs the Shape button has Shelf, HP 6 dB, HP 12 dB and Bell modes.

## Dynamics



- 1 **Compressor GR Meter** - Compressor (Comp) Gain Reduction Meter (Range -1 dB to -23 dB).
- 2 **GATE GA Meter** - Gate Gain Attenuator Meter Range (-1 dB to -34 dB).
- 3 **SEL Comp** - Selects the compressor setting for the selected channel.
- 4 **ON** - Turns the compressor on for the selected channel.
- 5 **SEL Gate** - Selects the gate setting for the selected channel.
- 6 **ON** - Turns the gate on for the selected channel.
- 7 **Mode** - Selects the mode of the compressor (Corrective, Adaptive, Creative and Vintage) or gate (Gate or Ducker).
- 8 **Attack** - Controls the attack settings of the gate or comp.
- 9 **Hold** - Controls the hold value of the gate. Hold is the amount of time the gate is open until the release part of the gate starts.
- 10 **Release** - Controls the release characteristic of the gate and comp.
- 11 **Range/Ratio** - Range relates to the gate and controls the amount of signal allowed to pass when the gate is closed. This is useful on drums to allow some of the dry drum sound through when the gate is closed. Ratio relates to the comp. With a ratio setting of 3:1 for every 1 dB above the threshold point the signal will be turned down or compressed by 3 dB.
- 12 **Threshold** - Adjust the point at which either the gate opens, or compression starts to take place.
- 13 **Knee** - Changes the compression knee setting (Hard, Medium or Soft).
- 14 **Make-Up** - Adds gain to the compressors output. This allows you to balance the levels of the compressor when on and off by increasing the make-up gain to match the amount of gain reduction taking place. (Range 0 dB to 24 dB).

- 15 **Sidechain Frequency** - Set the frequency that the sidechain of the gate or comp listen to in order to give tighter control of a certain range of frequencies.
- 16 **On** - Turns the sidechain of the gate or comp on/off.
- 17 **Listen** - Sends the selected sidechain frequency to the solo bus for monitoring and to give accurate adjustment of the frequency.
- 18 **Width** - Changes the width of the sidechain for the gate and comp (0.1 Oct, 0.3 Oct, 1 Oct and 2 Oct).

## Phones



- 1 **Phones A** - Level control.
- 2 **Phones B** - Level Control.
- 3 **Phones A** - Mute button.
- 4 **Phones B** - Mute button.

## Talk



- 1 **Talk Gain** - Adjust the gain of the surface Talk Mic input.
- 2 **Talk Mic** - XLR input for local talk mic.
- 3 **Talk INT (Internal)** - Allows the talk mic to be sent to the internal talk bus. For example, it can be used to send your talk mic into a channel to test signal flow.
- 4 **Talk EXT (External)** - Allows your local talk mic to be routed to the Ext Talk.
- 5 **OSC INT** - Activates the oscillator on the selected internal bus.
- 6 **OSC EXT** - Sends the oscillator to the Ext Talk bus. This can be used to send the oscillator to a channel if required by patching the Ext Talk out in the monitor patching page to a channel.

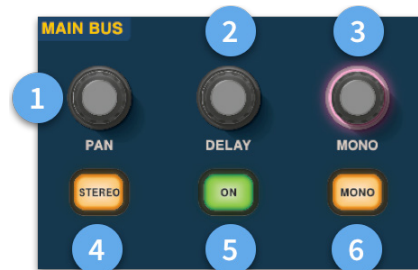
# HD96-24 Basic Operation

## Solo



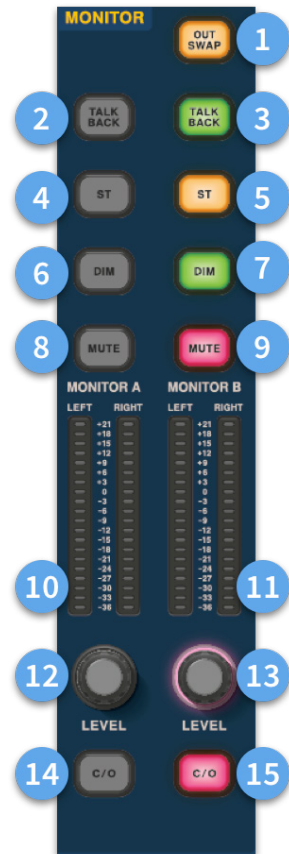
- 1 **A PFL** - Indicates an input channel is being heard by Pre Fader Listen via Solo A bus.
- 2 **B PFL** - Indicates an input channel is being heard by Pre Fader Listen via Solo B bus.
- 3 **A PFL** - Indicates an output channel is being heard by Pre Fader Listen via Solo A bus.
- 4 **B PFL** - Indicates an output channel is being heard by Pre Fader Listen via Solo B bus.
- 5 **Add (A)** - Allows more than one input channel to be listened at once on the A solo bus.
- 6 **Add (B)** - Allows more than one input channel to be listened at once on the B solo bus.
- 7 **Clear (A)** - Clears any current solo selections.
- 8 **Clear (B)** - Clears any current solo selections.

## Main Bus



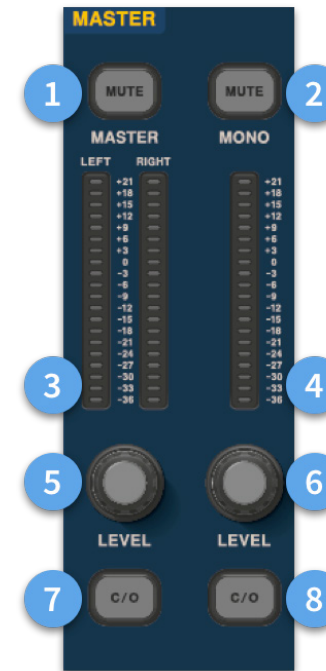
- 1 **Pan** - Controls the position of the signal in the stereo field.
- 2 **Delay** - Adjusts the delay time for the selected channel.
- 3 **Mono** - Adjusts the send to the Mono Bus.
- 4 **Stereo** - Sends the selected channel to the Stereo Bus.
- 5 **On** - Turns the selected channel's delay time on.
- 6 **Mono** - Sends the selected channel to the Mono Bus.

## Monitor



- 1 **Out Swap** - Completely swaps the A and B Monitor Busses over meaning A becomes B and vice versa. For example, this allows you to hear a wedge monitor mix on the in-ear monitor bus if desired without having to re-patch.
- 2 **Talk Back** - Allows the rear line level talkback input to be directly inputted into the Monitor A bus.
- 3 **Talk Back** - Allows the rear line level talkback input to be directly inputted into the Monitor B bus.
- 4 **ST** - Routes the stereo bus to the monitor A bus.
- 5 **ST** - Routes the stereo bus to the monitor B bus.
- 6 **DIM A** - Turns the level of the Monitor A bus down by 6 dB.
- 7 **DIM B** - Turns the level of the Monitor B bus down by 6 dB.
- 8 **Mute** - Mutes the Monitor A bus.
- 9 **Mute** - Mutes the Monitor B bus.
- 10 **Monitor A Metering** - Stereo 20 LED meters, -36 dB to 21 dB.
- 11 **Monitor B Metering** - Stereo 20 LED meters, -36 dB to 21 dB.
- 12 **Monitor A Level** - Level control. Maximum level 10 dB.
- 13 **Monitor B Level** - Level control. Maximum level 10 dB.
- 14 **C/O** - Sends the monitor A level control to the fader directly below for easy adjustment.
- 15 **C/O** - Sends the monitor B level control to the fader directly below for easy adjustment.

## Master



- 1 **Master Mute** - Mutes the Master Stereo Bus.
- 2 **Mono Mute** - Mutes the Mono Bus.
- 3 **Master Meters** - Stereo 20 LED meters, -36 dB to 21 dB.
- 4 **Mono Meter** - Stereo 20 LED meters, -36 dB to 21 dB.
- 5 **Master Stereo Bus Level** - Level control. Maximum level 10 dB.
- 6 **Mono Bus Level** - Level control. Maximum level 10 dB.
- 7 **C/O** - Sends the Master Stereo Bus level control to the fader directly below for easy adjustment.
- 8 **C/O** - Sends the Mono Bus level control to the fader directly below for easy adjustment.



# HD96-24 Dimensions

