

# Quick Start Guide

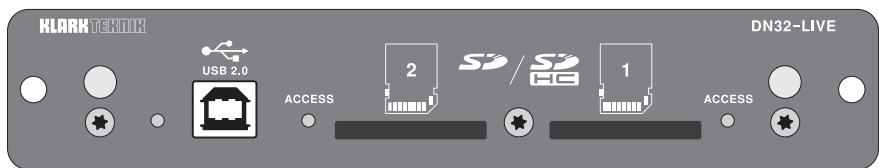
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## DN32-LIVE


SD/SDHC and USB 2.0 Expansion Module for 32 Bidirectional Channels of Live Recording/Playback


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**EN Important Safety Instructions**


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

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

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

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

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

 **Caution**  
These service instructions are for use by qualified

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

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Use only attachments/accessories specified by the manufacturer.




12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

13. Unplug this apparatus during lightning storms or when unused for long periods of time.

14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

15. The apparatus shall be connected to a MAINS socket outlet with a protective earthing connection.

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

 17. Correct disposal of this product: This symbol indicates that this product must not be disposed of with household waste, according to the WEEE Directive (2012/19/EU) and your national law. This product should be taken to a collection center licensed for the recycling of waste electrical and electronic equipment (EEE). The mishandling of this type of waste could have a possible negative impact on the environment and human health due to potentially hazardous substances that are generally associated with EEE. At the same time, your cooperation in the correct disposal of this product will contribute to the efficient use of natural resources. For more information about where you can take your waste equipment for recycling, please contact your local city office, or your household waste collection service.

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

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

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

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


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**LIMITED WARRANTY**


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**ES Instrucciones de seguridad**

 Las terminales marcadas con este símbolo transportan corriente eléctrica de magnitud suficiente como

para constituir un riesgo de descarga eléctrica. Utilice solo cables de altavoz profesionales y de alta calidad con conectores TS de 6,3 mm o de bayoneta prefijados. Cualquier otra instalación o modificación debe ser realizada únicamente por un técnico cualificado.

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

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

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

 **Atención**  
Para reducir el riesgo de incendio o descarga eléctrica, no 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

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

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## FR Consignes de sécurité



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



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



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



**Attention** Pour éviter tout risque de choc électrique, ne pas ouvrir le capot de l'appareil ni démonter le panneau arrière. L'intérieur de l'appareil ne possède aucun élément réparable par l'utilisateur. Laissez 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.** Utilisez l'appareil dans un climat tropical et/ou modéré.

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### DE Wichtige Sicherheitshinweise



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

**Achtung**  
Um eine Gefährdung durch Stromschlag auszuschließen, darf die Geräteabdeckung bzw. Geräterückwand nicht abgenommen werden. Im Innern des Geräts befinden sich keine vom Benutzer reparierbaren

Teile. Reparaturarbeiten dürfen nur von qualifiziertem Personal ausgeführt werden.

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

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

1. Lesen Sie diese Hinweise.
2. Bewahren Sie diese Hinweise auf.
3. Beachten Sie alle Warnhinweise.
4. Befolgen Sie alle Bedienungshinweise.
5. Betreiben Sie das Gerät nicht in der Nähe von Wasser.
6. Reinigen Sie das Gerät mit einem trockenen Tuch.
7. Blockieren Sie nicht die Belüftungsschlitze. Beachten Sie beim Einbau des Gerätes die Herstellerhinweise.
8. Stellen Sie das Gerät nicht in der Nähe von Wärmequellen auf. Solche Wärmequellen sind z. B. Heizkörper, Herde oder andere Wärme erzeugende Geräte (auch Verstärker).
9. Entfernen Sie in keinem Fall die Sicherheitsvorrichtung von Zweipol- oder geerdeten Steckern. Ein Zweipolstecker hat zwei unterschiedlich

breite Steckkontakte. Ein geerdeter Stecker hat zwei Steckkontakte und einen dritten Erdungskontakt. Der breitere Steckkontakt oder der zusätzliche Erdungskontakt dient Ihrer Sicherheit. Falls das mitgelieferte Steckerformat nicht zu Ihrer Steckdose passt, wenden Sie sich bitte an einen Elektriker, damit die Steckdose entsprechend ausgetauscht wird.

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

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

**12.** Sollte der Hauptnetzstecker oder eine 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 Geräteinnere 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 bedenklicher 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, Entsorgungsamts oder zu Ihrem Haushaltsabfallentsorger auf.

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

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

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

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

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### PT Instruções de Segurança Importantes



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

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

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

**Atenção**  
Para reduzir o risco de incêndios ou choques eléctricos o aparelho não deve ser exposto à chuva nem à humidade. Além disso, não deve ser sujeito a salpicos, nem devem ser colocados em cima do aparelho objectos contendo líquidos, tais como jarras.

**Atenção**  
Estas instruções de operação devem ser utilizadas, em exclusivo, por técnicos de assistência qualificadas. 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.** Use este aparelho em climas tropicais e/ou moderados.

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## 1. Introduction

The DN32-LIVE interface card expands on the already stellar performance of the DN32-USB card that has been standard in M32 consoles for years. The same 32-channel bi-directional audio I/O via USB 2.0 is available, providing 32 channels for recording and playback, plus remote operation of your DAW via HUI/MackieControl emulation. The addition of twin SD/SDHC slots now provides fully independent, uncompressed recording/playback of up to 32-channels in consistent sessions up to the max capacity of the SD cards. Multi-channel recording without the need for a laptop, as well as virtual sound checks and live backing track support, accurate marker handling and adjustments, and full remote operation from apps or X-TOUCH control surfaces are only some of the new possibilities DN32-LIVE offers.

## 2. Installing the DN32-LIVE Card

Please make sure the M32 series mixer firmware is updated to the most recent release version. Check the product page on [klarkteknik.com](http://klarkteknik.com) for the latest available firmware.

**CAUTION:** Before installing the interface card into the console, make sure that the console's power switch is turned off. Malfunctions or electrical shock may occur otherwise.

### Installation process:

1. Make sure that the mixer's power is turned off.
2. Remove the outer screws that hold the current card or slot cover in place.
3. Gently slide the card out of the slot and set it somewhere safe along with the fastening screws.
4. Before removing the DN32-LIVE card from its protective bag, touch the metal chassis of the console to prevent electrostatic discharges from affecting the sensitive electronic components. Hold the card by the face plate or the two small handles, avoiding contact with the components on the circuit board.
5. Align both edges of the card with the guide rails inside the slot and carefully insert the card into the slot. Push the card fully into the slot so that it sits flush against the console's rear panel, ensuring that the contacts are properly connected internally. The screw holes should be naturally aligned.
6. Fasten the card with the included screws, or with those that originally held the old card in place. Damage or malfunctions may occur if the card is not fastened.
7. Place the old card into the protective bag that the DN32-LIVE card was packed in, and repackage for safe storage.

## 3. Recommended Minimum Hardware

### Windows

- Core 2 Duo CPU, 2 GHz
- USB 2.0
- 1 GB RAM

### Mac

- 1.5 GHz CPU
- USB 2.0 port
- 512 MB RAM

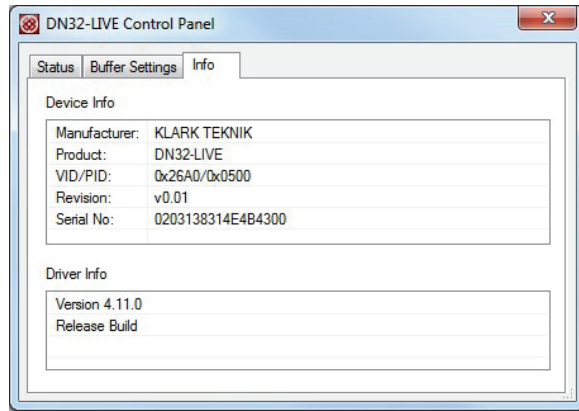
See Specifications for recommended operating systems.

## 4. USB Operation

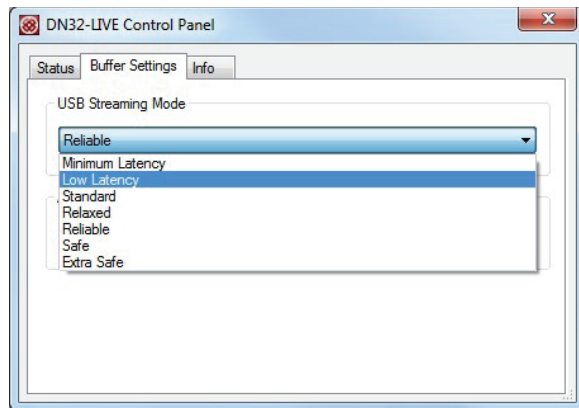
The USB connection on the DN32-LIVE card provides 32 channels of bi-direction audio I/O via USB 2.0, as well as MIDI I/O and remote DAW control via HUI/MackieControl emulation. Make sure to download and install the free ASIO driver from [klarktechnik.com](http://klarktechnik.com) if you are using a Windows PC. The DN32-LIVE is CoreAudio compliant and therefore does not need a driver for use on Mac computers.

### 4.1 Driver Control Panels

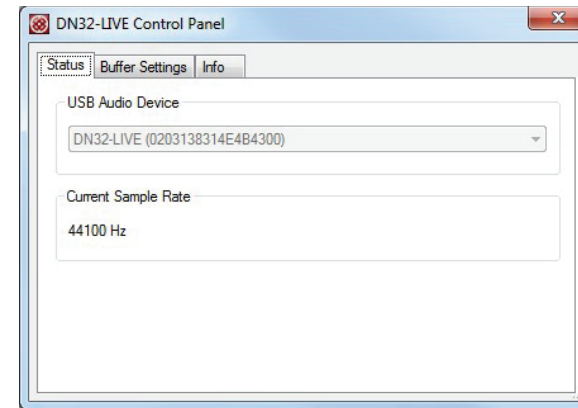
Once the driver is installed, you can open the control panel by double-clicking on the small tray icon. These screens will allow configuring the DN32-LIVE card in the M32 as an audio interface for your computer.



**Info** – displays the driver version number and device IDs.



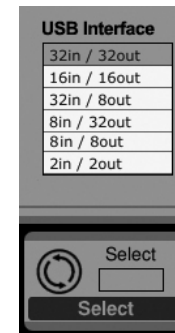
**Buffer Settings** – allows the stream and ASIO sound buffers to be set. Use small buffers for short latency when monitoring through the PC. Use large buffers and longer latency for preventing audio glitches on old, low-performance PCs.



**Status / USB Audio Device** – displays the card name and serial number.

### 4.2 USB Configuration

After the console has booted up, you can access the Setup screen and navigate to the Card tab to select the USB interface input/output configuration. Depending on your application, you may want to select an option other than the maximum 32 x 32 channel count to preserve system resources.



**32 in / 32 out** – This mode allows the full potential of the interface to be tapped. Note that the computer needs to be able to handle that amount of concurrent I/O stream without any glitches. Depending on its speed and memory configuration, some optimization for audio recording might be required.

It is also possible to run a virtual sound check of all 32 input channels by recording them directly to a computer during a brief line check. The performers can leave the stage while you play back the recorded instruments from the hard drive and tweak the sound accordingly.

EN

**16 in / 16 out** – If you don't actually need more than 16 concurrent input and output tracks to be exchanged between the console and your PC, then this mode might be more appropriate for you. First, it will slow the required bandwidth on the interface down. Second, there will be no excessive I/O tracks in your DAW configuration that might clutter your setup. Third, it allows you to run a fully-featured zero-latency overdub setup, which would be impossible if signals were run through the computer. In this case, the 16 input signals are put on channels 1-16, while the tape (card) returns are put on channels 17-32. The monitoring is directly fed from Ch1-16 as usual, including all processing and effects. It remains independent from any computer audio latency, even though you can hear back all the recorded tracks without any re-patching.

**32 in / 8 out** – This mode is tailored to suit a typical studio and overdub recording situation, with many input channels but only a few output channels for monitoring of previously recorded takes.

**8 in / 32 out** – This is a useful mode for utilizing the excellent audio engine and effects processing of the console during final mixdown of your project. All 32 tracks would be fed from your DAW into the console where all the magic happens. Then only 2-8 tracks of the complete mixdown would be sent back to the DAW.

**8 in / 8 out** – This setting is light on processing power while still providing enough I/O for tracking drums or multiple mics on an acoustic guitar or piano.

**2 in / 2 out** – For recording just the main stereo mix, or playing back from typical media player applications where often only two channels are needed. Use this mode in order to remove all unused channels that would otherwise clutter your PC's audio applications.

Note that the Routing / Home and Card Out tabs allow audio from your computer to be sent to the desired destination. The Routing/home tab now offers to select two alternative input assignments, separately for Recording and Playback operation. See chapter 5.3 for details.

## 5. SD Card Operation

The DN32-LIVE card features a pair of SD/SDHC slots that provide 32 channels of multitrack recording and playback. Simple session management and up to 100 markers allow playback from any desired point, easily cueing up certain songs or backing tracks. Automatic or manual switching from recording to playback routing presets makes it easy to monitor input channels directly while recording, and then listen to the playback from the card returns. The SD cards operate independently from the USB connection, giving you many options for how you incorporate outboard plugins, multichannel input and live recording.

### 5.1 Overview

Most of the configuration and operation for the SD card slots and USB connection are handled on the Setup/Card page of the console. From this page, the SD slot or USB can be selected for playback, SD slot 1 or 2 can be selected for recording or marker editing, and the channel count can be specified for recording.

A properly installed and formatted card will appear near the top with a green square, with its file size and remaining recording time indicated. SD cards up to 2 GB and SDHC cards up to 32 GB are officially supported, for use with FAT32 formatting.

The screenshot displays the 'sd card utilities' screen on the console. At the top, it shows 'Ch01 A 01 CMM Start' and a date/time of '2016-11-30 17:15:56'. Below this, there are tabs for 'global', 'config', 'remote', 'network', 'scribble strip', 'preamps', and 'card'. The 'card' tab is active, showing 'SD-1 8 GB - 13h, 23m, 15s' and 'SD-2 Format SD Card!'. A digital display shows '02:22:22.22'. Below the display, there are two circular meters and a square button. The 'sd card utilities' section contains a table with two columns: 'Sessions on SD Card' and 'Markers in Session'. The table lists sessions 98 through 92 and markers MO1 through MO7. At the bottom, there are several control buttons: 'SD-Crd Format SD-1', 'Delete Session', 'Delete Marker', 'Select Session', 'Save Marker', and 'Locator Play Marker'.

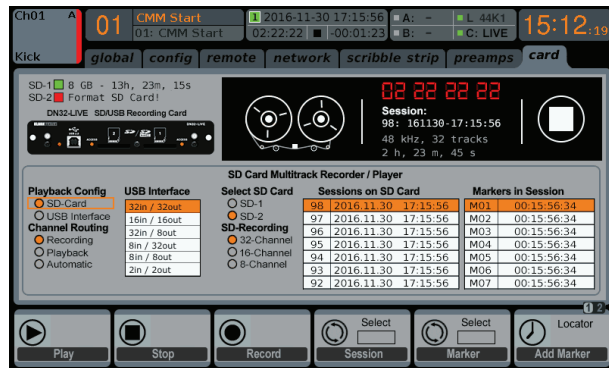
Sessions on SD Card		Markers in Session	
98	2016.11.30 17:15:56	MO1	00:15:56:34
97	2016.11.30 17:15:56	MO2	00:15:56:34
96	2016.11.30 17:15:56	MO3	00:15:56:34
95	2016.11.30 17:15:56	MO4	00:15:56:34
94	2016.11.30 17:15:56	MO5	00:15:56:34
93	2016.11.30 17:15:56	MO6	00:15:56:34
92	2016.11.30 17:15:56	MO7	00:15:56:34

It is best practice before important recordings to press the console's Utility button and format the card. Formatting will delete all data to remove fragmentation and to ensure proper write performance.

A list of recorded sessions and markers for the currently-selected session are listed below the recorder graphics. Transport functions are controlled with the first 3 encoders. Markers can be added to a session during recording or playback to indicate the start of a song or set. Press the page down to the 2nd layer of controls to make changes to the configuration.

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The 'Channel Routing' section is explained in chapter 5.3.



The SD operation can also be controlled by any of the remote apps, as well as MIDI and the onboard assignable controls. In the M32-Edit software, most of the configuration settings are made on the Setup/Card page, while the recording functions and marker management are done in the Recorder window.

## 5.2 Recording and File Management

Audio recording on the DN32-LIVE card can accommodate either 8, 16, or 32-channel sessions of 44.1/48 kHz / 32-bit PCM WAV files. As soon as recording is initiated to one of the SD cards, a new session is automatically created, allowing the entire take to be organized cohesively. To ensure continuous recording of the entire performance, a recording session that has started on one card can seamlessly span over to the other card slot when the first becomes full. In this case, the same session name will appear on both cards.

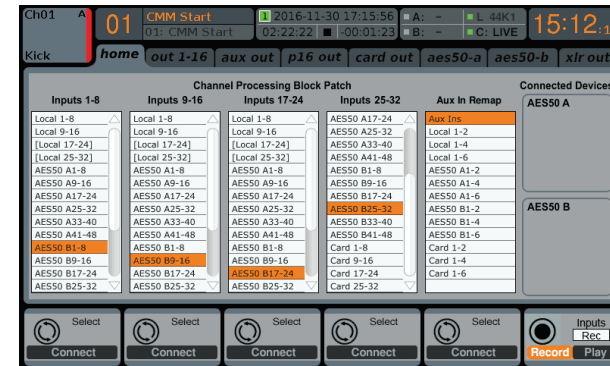


Since a single session may include a full set of songs, markers can be placed during recording or while listening to playback. They can also be adjusted using the remote apps by using the 'Edit Marker' section. This makes it easy to organize the set and quickly jump to a particular section of the recording for playback.

## 5.3 Channel Routing

The M32 has a convenient routing preset that allows the input channels to quickly flip between the desired monitoring for the recording process, and the playback from the DN32-LIVE card once recording is finished. While Playback would typically be used to assign the card outputs to the mixer inputs, Recording would patch those signals to channel inputs that shall be on mix, i.e. not necessarily the ones being recorded on DN32-LIVE.

On the Routing/Home page, select 'Record' with the 6th encoder and adjust the input routing using encoders 1-5 (most likely Local or AES50 from a stagebox). Then turn the 6th encoder to select 'Play' and press the encoder. Now Card 1-8, 9-16, etc. can be selected using encoders 1-5 for the playback preset.



On the Setup/Card page, you can now use the 'Channel Routing' section to quickly flip between these 2 routing scenarios. Keep in mind that the Record/Play presets can be toggled using an assignable control button, scene/snippet automation, or even MIDI command.

A third option on the Setup/Card page, 'Automatic', allows the shift from input monitoring to playback monitoring to follow the current operation. When Stop or Record is pressed in the transport control, the 'Record' routing will be assigned, and when Play or Pause is active, the 'Play' preset will be used.

## 5.4 Separating WAV Files

After recording is complete, the session can be separated into individual WAV files in several ways:

- Play the audio from the SD card directly into a DAW program, e.g. Tracktion, Reaper, ProTools, Cubase, Logic, Ableton (just to name a few) via the USB connection
- Directly open the multi-channel file using Audacity (brilliant open source audio editor available from [www.audacityteam.org/](http://www.audacityteam.org/))
- Using our Python scripts, downloadable from [klarkteknik.com](http://klarkteknik.com)

Visit the wiki page at [behingerwiki.music-group.com](http://behingerwiki.music-group.com) for more information about separating WAV files.

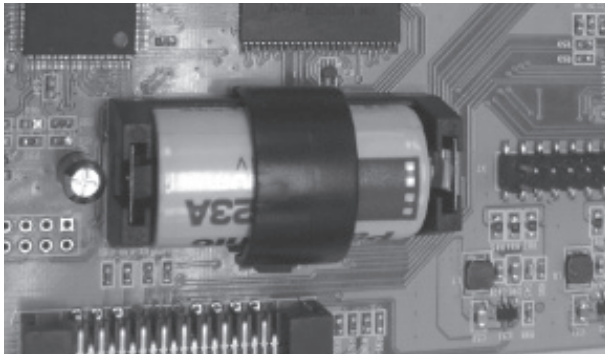
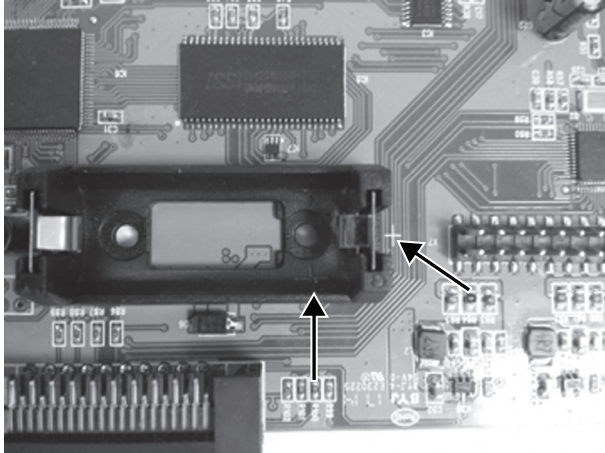


## 6. Battery Option

The DN32-LIVE has a battery slot that can accommodate a CR123A Lithium cell battery. This provides protection in case of power blackout, ensuring secure file handling.

To attach the battery, first turn the console power off and remove the DN32-LIVE card from the expansion slot. Locate the battery slot and install the battery, making sure to orient the positive end toward the "+" mark on the slot.

Reinstall the DN32-LIVE card as described in chapter 2.



## 7. Firmware Update

Download the latest firmware package file from the DN32-LIVE product page on [klarkteknik.com](http://klarkteknik.com). Unpack the zip folder and load the firmware file onto the flash drive's root directory. Plug the flash drive into the M32's top panel USB port.

Press and hold the USB View button while powering on the console. The console will automatically begin updating the firmware, which can take several minutes to complete. When finished, power the console off and on again and resume normal operation.

**NOTE:** make sure the update files for card firmware and console firmware are not used in the USB root directory at the same time. Do one update after the other, making sure to remove the firmware file from the flash drive after successful installation. You may, however, copy the console firmware file into any subfolder on the USB drive and start the update from Setup/Global console UI.

## Specifications

### Connectors

USB 2.0 high speed, type-B (audio/MIDI interface)	1
SD card slots, SD/SDHC	2
Battery for power blackout protection (optional)	CR123A Lithium cell

### Input/Output Characteristics

USB Audio input / output channels, duplex	32, 16, 8, 2
SD card input / output channels	32, 16, 8
Sample rates (console clock)	44.1 kHz / 48 kHz
Sample word length	32 bit PCM
File format (uncompressed multi-channel)	WAV 8, 16 or 32 channels
SD/SDHC Card capacity, each slot	1 to 32 GB
Maximum recording time in one consistent session (32-channel, 44.1 kHz, 32-bit on two 32 GB SDHC media)	200 min
Typical performance recording or playback	32 channels on class 10 media, 8 or 16 channels on class 6 media

### Indicators

SD card socket indicator for card activity	2 LEDs, amber
USB 2.0 interface active	1 LED, red

### Recommended Operating Systems

Windows DAW applications (ASIO, WASAPI and WDM audio device interface)	Win 7 32/64-bit, Win10 32/64-bit
Mac OSX DAW applications (Intel CPU only, no PPC support, CoreAudio)	Mac OSX 10.6.8*, 10.7.5, 10.8, 10.9, 10.10, 10.11, 10.12

### Physical

Dimensions (H x W x D)	30 x 165 x 138 mm (1.2 x 6.5 x 5.4")
Weight	0.14 kg (0.3 lbs)

\*OSX 10.6.8 Core Audio supports up to 16x16 channel audio



