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You can read the recommendations in the user guide, the technical guide or the installation guide for DENON DN-X1600. You'll find the answers to all your questions on the DENON DN-X1600 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

**User manual DENON DN-X1600**  
**User guide DENON DN-X1600**  
**Operating instructions DENON DN-X1600**  
**Instructions for use DENON DN-X1600**  
**Instruction manual DENON DN-X1600**

## DENON

Professional DIGITAL DJ Mixer

## DN-X1600

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Owner's Manual



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**Manual abstract:**

D&M Professional 1100 Maplewood Drive Itasca, IL 60143 Tel. 630-741-0330 2. @@Modification not expressly approved by DENON may void your authority, granted by the FCC, to use the product. 3. NOTE This product has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This product generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this product does cause harmful interference to radio or television reception, which can be determined by turning the product OFF and ON, the user is encouraged to try to correct the interference by one or more of the following measures: · Reorient or relocate the receiving antenna. · Increase the separation between the equipment and receiver.

· Connect the product into an outlet on a circuit different from that to which the receiver is connected. · Consult the local retailer authorized to distribute this type of product or an experienced radio/TV technician for help. · Increase the separation between the equipment and receiver. · Connect the product into an outlet on a circuit different from that to which the receiver is connected. · Consult the local retailer authorized to distribute this type of product or an experienced radio/TV technician for help.

This Class B apparatus complies with Canadian ICES-003. Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada. n SAFETY PRECAUTIONS CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN IMPORTANT SAFETY INSTRUCTIONS READ BEFORE OPERATING EQUIPMENT This product was designed and manufactured to meet strict quality and safety standards. There are, however, some installation and operation precautions which you should be particularly aware of. 1.

Read these instructions. 2. 3. 4. 5. 6. 7. 8. 9. Keep these instructions.

Heed all warnings. Follow all instructions. Do not use this apparatus near water. Clean only with dry cloth. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat. 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. CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons. The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance. WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

CAUTION: 1. Handle the power supply cord carefully Do not damage or deform the power supply cord.

If it is damaged or deformed, it may cause electric shock or malfunction when used. When removing from wall outlet, be sure to remove by holding the plug attachment and not by pulling the cord. 2. Do not open the top cover In order to prevent electric shock, do not open the top cover. If problems occur, contact your DENON dealer. 3. Do not place anything inside Do not place metal objects or spill liquid inside the DJ mixer. Electric shock or malfunction may result. Please, record and retain the Model name and serial number of your set shown on the rating label. Model No.

DN-X1600 Serial No. 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. Only use 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. This product is equipped with a three-wire grounding type plug, a plug having a third (grounding) pin.

This plug will only fit into a grounding-type power outlet. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the grounding-type plug. LABELS: CAUTION TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT. ATTENTION POUR ÉITER LES CHOCS ÉLECTRIQUES, INTERODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU' AU FOND.

I SVENSKA NEDERLANDS ESPAÑOL ITALIANO FRANCAIS DEUTSCH ENGLISH n NOTE ON USE / HINWEISE ZUM GEBRAUCH / OBSERVATIONS RELATIVES A L'UTILISATION / NOTE SULL'USO / NOTAS SOBRE EL USO / ALVORENS TE GEBRUIKEN / OBSERVERA ANGÅENDE

ANVÄNDNINGEN CAUTION: · The ventilation should not be impeded by covering the ventilation openings with items, such as newspapers, tablecloths, curtains, etc. · No naked flame sources, such as lighted candles, should be placed on the unit. · Observe and follow local regulations regarding battery disposal. · Do not expose the unit to dripping or splashing fluids. · Do not place objects filled with liquids, such as vases, on the unit. · DECLARATION OF CONFORMITY We declare under our sole responsibility that this product, to which this declaration relates, is in conformity with the following standards:

EN60065, EN55013, EN55020, EN61000-3-2 and EN61000-3-3. EN55022, EN55024 for USB as multifunction terminal. Following the provisions of 2006/95/EC and 2004/108/EC Directive. ACHTUNG: · Die Belüftung sollte auf keinen Fall durch das Abdecken der Belüftungsöffnungen durch Gegenstände wie beispielsweise Zeitungen, Tischtücher, Vorhänge o.



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behindert werden. · Auf dem Gerät sollten keinerlei direkte Feuerquellen wie beispielsweise angezündete Kerzen aufgestellt werden. · Bitte beachten Sie bei der Entsorgung der Batterien die örtlich geltenden Umweltbestimmungen. · Das Gerät sollte keiner tropfenden oder spritzenden Flüssigkeit ausgesetzt werden. · Auf dem Gerät sollten keine mit Flüssigkeit gefüllten Behälter wie beispielsweise Vasen aufgestellt werden. · ÜBEREINSTIMMUNGSERKLÄRUNG

Wir erklären unter unserer Verantwortung, daß dieses Produkt, auf das sich diese Erklärung bezieht, den folgenden Standards entspricht: EN60065, EN55013, EN55020, EN61000-3-2 und EN610003-3. EN55022, EN55024 für USB Multifunktionsbuchse. Entspricht den Verordnungen der Direktive 2006/95/EC und 2004/108/EC. · Avoid high temperatures. Allow for sufficient heat dispersion when installed in a rack.

· Vermeiden Sie hohe Temperaturen. Beachten Sie, dass eine ausreichende Belüftung gewährleistet wird, wenn das Gerät auf ein Regal gestellt wird. · Eviter des températures élevées. Tenir compte d'une dispersion de chaleur suffisante lors de l'installation sur une étagère. · Evitate di esporre l'unità a temperature elevate.

Assicuratevi che vi sia un'adeguata dispersione del calore quando installate l'unità in un mobile per componenti audio. · Evite altas temperaturas. Permite la suficiente dispersión del calor cuando está instalado en la consola. · Vermijd hoge temperaturen. Zorg er bij installatie in een audiorack voor, dat de door het toestel geproduceerde warmte goed kan worden afgevoerd.

· Undvik höga temperaturer. Se till att det finns möjlighet till god värmeavledning vid montering i ett rack. · Keep the unit free from moisture, water, and dust. · Halten Sie das Gerät von Feuchtigkeit, Wasser und Staub fern. · Protéger l'appareil contre l'humidité, l'eau et la poussière. · Tenete l'unità lontana dall'umidità, dall'acqua e dalla polvere. · Mantenga el equipo libre de humedad, agua y polvo. · Laat geen vochtigheid, water of stof in het apparaat binnendringen. · Utsätt inte apparaten för fukt, vatten och damm. · Do not let foreign objects into the unit.

· Lassen Sie keine fremden Gegenstände in das Gerät kommen. · Ne pas laisser des objets étrangers dans l'appareil. · Non inserite corpi estranei all'interno dell'unità. · No deje objetos extraños dentro del equipo. · Laat geen vreemde voorwerpen in dit apparaat vallen. · Se till att främmande föremål inte tränger in i apparaten. · DECLARATION DE CONFORMITE Nous déclarons sous notre seule responsabilité que l'appareil, auquel se réfère cette déclaration, est conforme aux standards suivants: EN60065, EN55013, EN55020, EN61000-3-2 et EN61000-3-3. EN55022, EN55024 USB comme prise de multifonction. D'après les dispositions de la Directive 2006/95/EC et 2004/108/EC. ATTENTION: · La ventilation ne doit pas être gênée en recouvrant les ouvertures de la ventilation avec des objets tels que journaux, rideaux, tissus, etc.

· Aucune flamme nue, par exemple une bougie, ne doit être placée sur l'appareil. · Veuillez à respecter les lois en vigueur lorsque vous jetez les piles usagées. · L'appareil ne doit pas être exposé à l'eau ou à l'humidité. · Ne pas poser d'objet contenant du liquide, par exemple un vase, sur l'appareil. ·

DICHIARAZIONE DI CONFORMITÀ Dichiariamo con piena responsabilità che questo prodotto, al quale la nostra dichiarazione si riferisce, è conforme alle seguenti normative: EN60065, EN55013, EN55020, EN61000-3-2 e EN61000-3-3.

EN55022, EN55024 per USB come terminale multifunzione. In conformità con le condizioni delle direttive 2006/95/EC e 2004/108/EC. QUESTO PRODOTTO E' CONFORME AL D.M. 28/08/95 N.

548 ATTENZIONE: · Do not let insecticides, benzene, and thinner come in contact with the unit. · Lassen Sie das Gerät nicht mit Insektiziden, Benzin oder Verdünnungsmitteln in Berührung kommen. · Ne pas mettre en contact des insecticides, du benzène et un diluant avec l'appareil. · Assicuratevi che l'unità non entri in contatto con insetticidi, benzolo o solventi. · No permita el contacto de insecticidas, gasolina y diluyentes con el equipo. · Voorkom dat insecticiden, benzeen of verfverdunder met dit toestel in contactoot aan druppels of spatten. · Plaats geen voorwerpen gevuld met water, bijvoorbeeld een vaas, op het apparaat. · · · · · \* (For apparatuses with ventilation holes) Do not obstruct the ventilation holes. Decken Sie den Lüftungsbereich nicht ab. Ne pas obstruer les trous d'aération.

Non coprite i fori di ventilazione. No obstruya los orificios de ventilación. De ventilatieopeningen mogen niet worden beblokkeerd. Tüpp inte till ventilationsöppningarna. · Never disassemble or modify the unit in any way. · Versuchen Sie niemals das Gerät auseinander zu nehmen oder zu verändern. · Ne jamais démonter ou modifier l'appareil d'une manière ou d'une autre. · Non smontate né modificate l'unità in alcun modo. · Nunca desarme o modifique el equipo de ninguna manera. · Dit toestel mag niet gedemonteerd of aangepast worden.

· Ta inte isär apparaten och försök inte bygga om den. · ÖVERENSSTÄMMELSESTYGG Härmed intygas helt på eget ansvar att denna produkt, vilken detta intyg avser, uppfyller följande standarder: EN60065, EN55013, EN55020, EN61000-3-2 och EN610003-3. EN55022, EN55024 för USB som multifunktionskontakten. Enligt stadgarna i direktiv 2006/95/EC och 2004/108/EC. OBSERVERA: · Ventilationen bör inte förhindras genom att täcka för ventilationsöppningarna med föremål såsom tidningar, bordsdukar, gardiner osv.

· Inga blottade brandkällor, såsom tända ljus, får placeras på apparaten. · Tänk på miljöaspekterna när du bortskaffar batterier. · Apparaten får inte utsättas för vätska. · Placera inte föremål fyllda med vätska, t.ex. vaser, på apparaten. II ENGLISH DEUTSCH FRANCAIS ITALIANO ESPAÑOL NEDERLANDS SVENSKA CAUTION: To completely disconnect this product from the mains, disconnect the plug from the wall socket outlet.



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The mains plug is used to completely interrupt the power supply to the unit and must be within easy access by the user. A NOTE ABOUT RECYCLING: This product's packaging materials are recyclable and can be reused. Please dispose of any materials in accordance with the local recycling regulations. When discarding the unit, comply with local rules or regulations. Batteries should never be thrown away or incinerated but disposed of in accordance with the local regulations concerning battery disposal. This product and the supplied accessories, excluding the batteries, constitute the applicable product according to the WEEE directive. VORSICHT: Um dieses Gerät vollständig von der Stromversorgung abzutrennen, ziehen Sie bitte den Stecker aus der Wandsteckdose. Der Netzstecker wird verwendet, um die Stromversorgung zum Gerät völlig zu unterbrechen; er muss für den Benutzer gut und einfach zu erreichen sein.

HINWEIS ZUM RECYCLING: Das Verpackungsmaterial dieses Produktes ist zum Recyceln geeignet und kann wieder verwendet werden. Bitte entsorgen Sie alle Materialien entsprechend der örtlichen Recycling-Vorschriften. Beachten Sie bei der Entsorgung des Gerätes die örtlichen Vorschriften und Bestimmungen. Die Batterien dürfen nicht in den Hausmüll geworfen oder verbrannt werden; bitte entsorgen Sie die Batterien gemäß der örtlichen Vorschriften. Dieses Produkt und das im Lieferumfang enthaltene Zubehör (mit Ausnahme der Batterien!) entsprechen der WEEE-Direktive. PRECAUTION: Pour déconnecter complètement ce produit du courant secteur, débranchez la prise de la prise murale. La prise secteur est utilisée pour couper complètement l'alimentation de l'appareil et l'utilisateur doit pouvoir y accéder facilement. UNE REMARQUE CONCERNANT LE RECYCLAGE: Les matériaux d'emballage de ce produit sont recyclables et peuvent être réutilisés. Veuillez disposer des matériaux conformément aux lois sur le recyclage en vigueur. Lorsque vous mettez cet appareil au rebut, respectez les lois ou réglementations en vigueur.

Les piles ne doivent jamais être jetées ou incinérées, mais mises au rebut conformément aux lois en vigueur sur la mise au rebut des piles. Ce produit et les accessoires inclus, à l'exception des piles, sont des produits conformes à la directive DEEE. ATTENZIONE: Per scollegare completamente questo prodotto dalla rete di alimentazione elettrica, scollegare la spina dalla relativa presa a muro. La spina di rete viene utilizzata per interrompere completamente l'alimentazione all'unità e deve essere facilmente accessibile all'utente. PRECAUCIÓN: Para desconectar completamente este producto de la alimentación eléctrica, desconecte el enchufe del enchufe de la pared.

El enchufe de la alimentación eléctrica se utiliza para interrumpir por completo el suministro de alimentación eléctrica a la unidad y debe de encontrarse en un lugar al que el usuario tenga fácil acceso. NOTA RELATIVA AL RICICLAGGIO: I materiali di imballaggio di questo prodotto sono riutilizzabili e riciclabili. Smaltire i materiali conformemente alle normative locali sul riciclaggio. Per lo smaltimento dell'unità, osservare le normative o le leggi locali in vigore. Non gettare le batterie, né incenerirle, ma smaltirle conformemente alla normativa locale sui rifiuti chimici.

Questo prodotto e gli accessori inclusi nell'imballaggio sono applicabili alla direttiva RAEE, ad eccezione delle batterie. WAARSCHUWING: Om de voeding van dit product volledig te onderbreken moet de stekker uit het stopcontact worden getrokken. De netstekker wordt gebruikt om de stroomtoevoer naar het toestel volledig te onderbreken en moet voor de gebruiker gemakkelijk bereikbaar zijn. ACERCA DEL RECICLAJE: Los materiales de embalaje de este producto son reciclables y se pueden volver a utilizar. Disponga de estos materiales siguiendo los reglamentos de reciclaje de su localidad. Cuando se deshaga de la unidad, cumpla con las reglas o reglamentos locales. Las pilas nunca deberán tirarse ni incinerarse. Deberá disponer de ellas siguiendo los reglamentos de su localidad relacionados con los desperdicios químicos. Este producto junto con los accesorios empaquetados es el producto aplicable a la directiva RAEE excepto pilas. FÖRSIKTIHETSMÅTT: Koppla loss stickproppen från eluttaget för att helt skilja produkten från nätet.

Stickproppen används för att helt bryta strömförsörjningen till apparaten, och den måste vara lättillgänglig för användaren. EEN AANTEKENING MET BETREKKING TOT DE RECYCLING: Het inpakmateriaal van dit product is recycleerbaar en kan opnieuw gebruikt worden. Er wordt verzocht om zich van elk afvalmateriaal te ontdoen volgens de plaatselijke voorschriften. Volg voor het wegdoen van de speler de voorschriften voor de verwijdering van wit- en bruingoed op. Batterijen mogen nooit worden weggegooid of verbrand, maar moeten volgens de plaatselijke voorschriften betreffende chemisch afval worden verwijderd. Op dit product en de meegeleverde accessoires, m.u.v. de batterijen is de richtlijn voor afgedankte elektrische en elektronische apparaten (WEEE) van toepassing. OBSERVERA ANGÅENDE ÅTERVINNING: Produktens emballage är återvinningsbart och kan återanvändas.

Kassera det enligt lokala återvinningsbestämmelser. När du kasserar enheten ska du göra det i överensstämmelse med lokala regler och bestämmelser. Batterier får absolut inte kastas i soporna eller brännas. Kassera dem enligt lokala bestämmelser för kemiskt avfall. Denna apparat och de tillbehör som levereras med den uppfyller gällande WEEE-direktiv, med undantag av batterierna.

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Utility Specifications Troubleshooting Getting Started Thank you for purchasing this Denon product.	



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employed in the power supply unit. Furthermore, film capacitors designed to enhance the sound quality and high-precision metal film resistors help to configure the audio signal processing unit. The result is a sound quality which is overwhelmingly high. · The unit incorporates a microphone amplifier with a discrete transistor configuration and a low equivalent input noise of 126 dB, as well as PHONO amplifier with a signal to noise ratio of 89 dB. 4. V-LINK ) function. The unit is equipped with the V-LINK ( V-LINK is a function developed by Roland Corporation that allows musicians to simultaneously integrate audio and video. Connecting devices that support V-LINK to the MIDI terminals makes it possible to perform a wide range of visual effects that are linked with the musical performance. 5.

Operating ease and high-reliability design tailored for professional use · Isolator equalizers are incorporated for each input channel. It is also possible to customize the crosspoint frequencies of the bands using presets. · The crossfader's slide torque can be adjusted to achieved the desired feeling. · Equipped with a high contrast VFD (vacuum fluorescent display) that provides outstanding visibility. · Matrix source selectors enabling the user to select any of 6 input sources Fader Start USB Utility Specifications 2. Multiple Effect · The unit comes with an effector which is linked to the number of beats which has been set in synchronization with the number of beats per minute (BPM) of the musical composition. In addition to the newly developed BeatScratch and Ping Pong Delay, a total of 14 different effectors including delay, echo, reverberation, looping, flanger, phaser, and pitch shift are incorporated. · The effect send configuration makes it possible to send multiple input channel signals to the effector at the same time. Troubleshooting 6. Other features · The preset import/export function makes it possible to carry around the preset data stored on an USB memory or other such device.

This reduces the setting time. · Ducking function for reducing the amount of background sound during mic input · Channel Fader and Crossfader start function 3 ENGLISH Part Names and Functions Top Panel E4 E5 E6 E7 R1 R2 q MASTER LEVEL control Adjusts the level of the MASTER outputs. i TAP/LOCK/AUTO/INPUT BPM button TAP: When this button is tapped repeatedly, the BPM is measured using the intervals between taps. LOCK: When the button is pressed once in the auto BPM mode, the BPM value measured automatically is locked. AUTO BPM: When the button is held down for one second, the auto BPM mode is established, and the measured BPM value is displayed.

INPUT BPM: When it is held down for two or more seconds, the BPM input mode is established, and the BPM value can be input directly using the u BEAT , buttons. When it is pressed again, the mode is released. Getting Started Connections Basic Operations Getting Started Effector Function Fader Start USB Utility Specifications Troubleshooting w Master EFX INS button This button enable the various effects to be obtained for the master output signals. e BOOTH LEVEL control Adjusts the level of the BOOTH outputs. r USB ASSIGN CH/MASTER indicator q w E3 e E2 r t y R5 R6 This displays the assignment destination of the USB Audio input signal supplied from the computer.

Assignment destination settings for Ch and Master are selected from the USB Assign items in the preset controls in the utility mode. CH: · Displayed when CH (14) are assigned. MASTER: · Displayed when assigned to the master bus and monitor bus. R3 oEffect CUE button When the CUE button is set to ON, the sound of the effects can be monitored even if the effect is OFF. (Excluding ECHO, REVERB, and ECHO REVERB.) E1 E8 E9 R0 t MIDI CLK / V-LINK button This enables the MIDI clock corresponding to the BPM value to be sent from the USB MIDI and MIDI output terminals to the computer (software) or external device. START: Sending the MIDI clock is started. STOP: Sending the MIDI clock is stopped. · Press for more than one second to switch V-LINK ON/OFF . E0 W9 W8 W7 W6 W5 W4 W3 W2 W1 Q0 TIME/BACK button TIME: This button is used to select whether to change the effects produced using the u BEAT , buttons on the basis of the number of beats or time.

BACK: This is used when returning to the previous screen while setting screen operations are being performed. u i o Q0 Q1 Q2 Q3 Q4 Q5 W0 Q9 Q7 Q8 Q6 R4 y UTILITY/USB A/USB B button This allows the presets to be set and the system information to be set, changed or referenced.



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· Pin layout: 1. GND 2. Hot 3. Cold · Applicable connector: Cannon XLR-3-32 or equivalent. BOOTH OUT (BALANCED) terminals These TRS terminals are balanced line output terminals whose signal levels are adjusted using the BOOTH LEVEL control provided on the top panel. · Pin layout (TRS): Tip: Hot Ring: Cold Sleeve: GND NOTE To prevent hearing loss, do not raise the volume level excessively when using headphones. 8 ENGLISH Getting Started Connections to USB Memory or USB Cable Connecting the Power Cord Connect the included power cord to the DN-X1600, and plug it into an AC outlet. NOTE · Be sure to insert the power plug firmly. Incomplete connection results in noise generation. Connections Basic Operations Power cord (included) To household power outlet For U.

S.A. For Europe USB Thumb Drive Effector Function USB B terminal Fader Start USB A terminal Only one mass storage device such as a USB memory or USB hard disk drive can be connected to this terminal. · A USB hub is not supported. · The terminal supports USB 2.0 HighSpeed. USB Utility USB B terminal This is connected to a computer to send and receive the USB MIDI, HID and USB audio signals. · The terminal supports USB 2.0 HighSpeed. Specifications ASIO Driver Application included.

· Computer OS versions that can be connected to the DN-X1600: · Windows XP SP2, Vista, Mac OSX 10.5.7 or later Computers with other operating systems are not compatible with USB MIDI, so the computer may operate erratically after connected to the DN-X1600 by USB. · It has been verified that this unit operates with the Mac OS 10.5.

7 operating system. When using Mac OS 10.5.6 or an earlier version, operation of the computer may be unstable. Furthermore, this unit operates using an audio driver compliant with the Core Audio format.

As such, use software applications that have been guaranteed to run using a driver compliant with this format. · Windows is either a registered trademark or trademark of Microsoft Corporation in the United States and / or other countries. MAC is either a registered trademark or trademark of Apple Incorporated in the United States and / or other countries. Troubleshooting 9 ENGLISH Getting Started Connections Basic Operations Basic Operations Effector Function Fader Start USB Utility Specifications Troubleshooting Basic Operations 1 Press the POWER ON/OFF switch to turn the unit's power ON. SEL controls 2 Use the SOURCE the sources to select the channels from 1 to 4 of be used (LN1LN4, P1P4, USB). Use the SEL buttons of each LINE to select CD or PHONO as the LINE input. on the level meter, 3 While checking the input level the channel LEVEL adjust the input levels using controls. quality 4 Adjust the sound LOW). using the channel EQ controls (HI, MID, can be 5 Assignment of the channel signals switches. switched using the CROSSFADER ASSIGN Set these switches to the THRU position if the Crossfader is not going to be used.

6 Adjust the volume level using the Channel Fader and Crossfader. 7 Adjust the output level using the MASTER LEVEL control. 10 ENGLISH Getting Started MIC (mic input) a MIC1 1 When the microphone is connected to set it to or MIC2, press MIC1 or MIC2 button ON. MONITOR (headphones output) Select to be 1 button the source channel. monitored using the CUE for each 2 Adjust the MIC1 volume level using the MIC1 TRIM control, and adjust the MIC2 volume level using the MIC2 TRIM control. · When selected, the CUE button lights. · CUE monitors for channels 14 as well selected. Connections Basic Operations as EFX can be · While inputting audio signals, if the SIG/PK LEDs occasionally light up red and then amber, the suitable level has been reached without any distortion. Use the SPLIT CUE 2 SPLIT CUE mode. button to select the STEREO/ 3 functions to the 4 To add the effect buttons to switch mic input, press the MIC EFX INS them ON.

Ducking function Adjust the sound quality using the MIC EQ controls (HI, LOW). · When selected, the SPLIT CUE button lights. · In the SPLIT CUE (monaural) mode, the signal selected for cue is output to the left speaker of the headphones, and the master signal is output to the right speaker of the headphones. the STEREO mode, the master signals and signals selected for cue are output in stereo. Effector Function · In Use the to adjust the 3 the CUE PAN control master output balance between signals and signals.

5 button to ON. The button will light. · · The To enable the ducking function, set the DUCKING This function detects the mic input and attenuates the level of the music signals in the master output. It prevents the sound from the microphone from being drowned out by the music when a microphone is used. attenuation level of the master output while the ducking function is operating can be set within a range from 30 dB ± 10 dB in the Utility mode.

· When it is turned to the left, only the CUE signals are output from the headphones. output. Fader Start · When it is turned to the right, only the master signals are Use the LEVEL 4 output level. control to adjust the headphone NOTE To prevent hearing loss, do not raise the volume level excessively when using headphones USB Utility Specifications Troubleshooting 11 ENGLISH Getting Started Connections Basic Operations Effector Function Effector Function Fader Start USB Utility Specifications Troubleshooting Effector Function The unit comes with an effector which is linked to the number of beats which has been set in synchronization with the number of beats per minute (BPM) of the musical composition. It also has an effect send configuration which makes it possible to send the signals from multiple input channels simultaneously to the effectors, enabling a wide range of acoustic effects. Types of effects and details of operations No. 1 2 Effect Delay Echo Description of effect operation Adds signals which have been delayed by the time of the beat setting. Adds echo signals which have been delayed by the time of the beat setting. Signals with a beat setting time delay are split and output from the left and right channels. · Effect Parameter Control: Adjusts the ratio of signal being output to the left and right.

Cuts off the signals at the time of the beat setting. Adds signals whose delay time has been varied in the LFO period of the beat setting. Varies the filter cut-off frequency using the beat setting time. Adds signals whose phase has been varied in the LFO period of the beat setting. Adds reverberation signals which have been delayed by the time of the beat setting. Adds an echo signal to the beat setting time delay, and adds a reverberation signal. Initiates the same kind of loop sampler processing as the LOOP function of other Denon DJ products.



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Initiates the reverse play processing of the above loop signals. Initiates the pitch shift processing of the input signals, and outputs the results. Initiates the partial insertion processing of the attack sounds of the beats as per the beat pattern.

Repeats standard playback of the beat setting time and reverse playback of the same beat setting time to output a scratching effect. Sends the signals whose effects have been selected to the external effector and returns the signals from the external effector. BeatBreaker Function What the BeatBreaker effector does This effector breaks down the music signals in each bar obtained from the BPM value a quarter beat at a time into 16 sections, replaces these sections with a preset beat pattern, and then plays them back to achieve an effect where the beat of the original musical composition is changed. Details of operation The beat patterns consist of 16 blocks, and when these blocks are lighted, the sound is being replaced by the initial sound of the beat. When this effect is ON, the left block and beat display are used, and the block being played is indicated.

Example: q Pattern Snare Kick 3 Ping Pong Delay w 4 5 6 7 8 9 10 11 12 13 14 15 Trans Flanger Filter Phaser Reverb Echo Reverb Loop Rev. Loop Pitch Shift BeatBreaker BeatScratch SEND/RTN e Snare Kick In the case of pattern q shown in the figure, when the music signals w are input, the sound of signals e, which are produced by replacing the sound of the first quarter beat with the lighted section, are output. \* In order to achieve normal effects, set the BPM value that matches the number of beats of the musical compositions. Operation method Using the Effect ON/OFF buttons, the effect with the timing when the buttons were set to ON at the beginning is added. The beat pattern is selected using the BEAT , buttons.

In the Utility mode, five user presets can be created. 12 ENGLISH Getting Started Effector Operations Selecting the effector units and channels With the input channels: Using the EFX SEND button, select the effect units to be used. The same effect can be selected for a multiple number of channels. With the mic input and master output: Using the EFX INS button, select the effect unit to be used. The insertion operation is initiated and just the one channel is selected.

Connections Basic Operations Setting the BPM press the TAP 1 When the auto BPM counter is off, the auto BPM button for over 1 second to turn counter on. the BPM the 2 When button auto release counter is on, press data TAP and it immediately. The measured with the auto BPM function is locked. Effector Function Setting the beat Fader Start · The channel for which the effect unit was last selected using the EFX SEND or EFX INS button takes effect as the channel used for the auto BPM counter measurement. 3 If the TAP button is pressed down for over 2 seconds, the BPM value can be set directly by pressing the BEAT buttons.

1 2 Press the BEAT of beats. , buttons to set the number When the TIME button is pressed, the mode is changed to the time input mode. The time can be adjusted by pressing the BEAT buttons. USB , Utility value can set by the interval during 3 4 The BPM TAP buttons be repeatedly pressed. which the When the TIME button is pressed again, the number of beats setting mode is restored. Specifications Selecting the effects Turn the EFX SELECT controls to select the effect, and press the control to enter the desired effect. Troubleshooting Turning the effects ON and OFF When the Effect ON/OFF buttons are pressed, the effect is turned ON or OFF . 13 ENGLISH Getting Started Connections Basic Operations Effector Function Fader Start Fader Start USB Utility Specifications Troubleshooting Fader Start Function · · The fader start function controls playback/pause of the CD player using the fader control on the unit by sending a fader command to the CD player. Check that the FADER terminal of this unit and CD player are connected using a 3.5mm stereo mini plug cable.

Channel Fader Start the SOURCE select 1 Using LINE1 CD, SEL controls, LINE3 the source from LINE2 CD, CD and LINE4 CD. 2 Turn the CROSSFADER ASSIGN switch to THRU. 3 Turn on the CH FADER START switch. Move the 4 the way to channel input faders for CH1 to CH4 all the bottom. 5 Set the standby mode on CD player.

the player, move 6 When you want to start FADER) and the CD up the Channel input fader (CH player will begin playing. 14 ENGLISH Getting Started Crossfader Start Using the SOURCE select 1 from LINE1 CD, SEL controls, LINE3 the source LINE2 CD, CD and LINE4 CD. Set the CROSSFADER 2 THRU/B) to A or B. ASSIGN switches (A/ 3 Turn on the CROSSFADER START switches. Slide the all way 4 opposite the Crossfader want the start. in direction source you to (In the following example, startup is done with the CD player connected set to Assign A.) How to adjust the Crossfader torque 1 Remove the rubber cap of the front panel. the Crossfader 2 Move becomes visible. to the far right until the screw head Connections Basic Operations 3 Insert a screwdriver, and adjust the sliding torque. · When the screw is turned clockwise: The sliding torque is increased so that the Crossfader moves more stiffly. Effector Function 5 Use the 6 the cross CROSSFADER CONTOUR control to control fader startup curve. When the Crossfader slide in 7 direction, CD player play will begin. the opposite Set the standby mode on CD player. · When the screw is turned counterclockwise: FADER (setting the fader curve) This adjusts the rise response of the channel fader/cross fader. The sliding torque is decreased so that the Crossfader moves more easily.

Fader Start 4 After completing the adjustments, replace the rubber cap onto the front panel. NOTE · The Crossfader has a high-precision construction: As such, tightening the screw with too much force or loosening it excessively may result in damage or adversely affect performance. 1 Setting the channel fader curve rise sharply. two will be produced. USB · When the channel fader CONTOUR control is turned to the left, the curve will have characteristics that rise gradually. Utility · When turned to the right, it will have characteristics that · At the center position, curve characteristics between the · The same curve characteristics apply to channels 1 to 4. Specifications Rubber cap 2 Setting the crossfader curve · When the crossfader CONTOUR control is turned to the left, the curve will have characteristics that rise gradually. Troubleshooting · When turned to the right, it will have characteristics that rise sharply, and cut-in and cut-out operations will be performed. Screwdriver · At the center position, curve characteristics between the two will be produced. 15 ENGLISH Getting Started Connections Basic Operations Effector Function Fader Start USB USB Utility Specifications Troubleshooting USB Settings Press 1 than at the UTILITY/USB A/USB B button for more second.



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Operation now transfers to the screen shown below. **USB audio** This unit features a 24-bit 96 kHz USB audio input/output sound card function which supports up to 8 channels (4 stereo systems). The sampling frequency can be set to 44.1 kHz, 48 kHz or 96 kHz using a Utility setting (factory setting: 96 kHz).  
· · · When the unit is connected to a computer which runs Windows XP Vista or a similar operating system, install DENON DJ ASIO , driver Ver2 contained on the CD-ROM provided.

Operation cannot be guaranteed on computers that are running with an OS prior to Windows XP SP2. If the Ver1 driver is already installed, first uninstall it, and then install the Ver2 driver. Depending on the computer used, select the PC/MAC section settings under System Setting among the Utility settings. the EFX SELECT 2 Select OK/Cancel using the selection. control, and press the button to Selecting the USB mode The respective functions given below are carried out in the operation modes of the USB A terminal (USB host mode) and USB B terminal (USB device mode).

USB A : · Preset data import/export function · Version upgrading USB B : · USB audio interface function · USB MIDI interface function The operation mode to be established when the unit's power is turned on can be selected by a Utility setting. (Factory setting: USB A) Follow the procedure below to switch from USB host mode (USB A terminal) to USB device mode (USB B terminal). · The indicator changes from USB-A to USB-B, and the device mode is established. connected to the USB B terminal, the indicator changes back to USB-A, and the host mode is automatically selected. · When a specific period of time elapses with no computer host mode UTILITY/ 3 To select the B button for again, press thesecond, and USB A/USB more than a select the settings by following the same steps. 16 ENGLISH Getting Started Setting the USB audio output The following audio sources can be selected for USB audio output. Setting the USB audio input One of the two modes below is set using the UTILITY for the USB audio input assignment destinations. The LED on the side corresponding to the mode selected lights. The USB audio input levels can be adjusted using Utility settings. The adjustment values are stored on a mode by mode basis.

q CH INPUT mode Select this mode when mixing sound using only the DN-X1600 without using the mixer functions of the DJ software. The USB audio input signals are assigned using the configuration shown below. USB channel 1 and 2 inputs USB channel 3 and 4 inputs USB channel 5 and 6 inputs USB channel 7 and 8 inputs Input channel 1 Input channel 2 Input channel 3 Input channel 4 · Input channels 14 (Pre EQ) · Mic input (Post Send VR) · Master output · REC output The USB audio output level can be adjusted using a Utility setting. Connections Basic Operations 1 Press the UTILITY/USB A/USB B button. 2 Using the EFX SELECT control, select Audio Setting USB Audio Setting Output Source Select. the audio sources assigned to the USB 3 One of channels is selected on the selection screen output · The Utility setting screen is displayed. Effector Function displayed. 4 Press the UTILITY/USB A/USB B button. · The Utility setting screen is closed. w MASTER mode Select this mode when using both the mixer functions of the DJ software and the DN-X1600's functions. The USB audio input signals are assigned to the buses shown below. USB channel 1 and 2 inputs USB channel 3 and 4 inputs USB channel 5 and 6 inputs USB channel 7 and 8 inputs Master bus Cue monitor bus Disabled Disabled Fader Start USB The mixer output of the DJ software is mixed in the buses using the DN-X1600. Ensure that the audio output settings of the DJ software correspond to the specifications given above. Utility Specifications Troubleshooting 17 ENGLISH Getting Started Connections Basic Operations Effector Function Fader Start USB USB Utility Specifications Troubleshooting MIDI This unit comes with USB MIDI input/output and 5-pin DIN MIDI output functions. These functions support the MIDI control functions of almost all the controls as well as the MIDI clock.

3 4 When the MIDI button is pressed again, the MIDI button light goes out, and the MIDI layer operations are ended. · The details of the operation are not output to the MIDI terminals, and the unit can be operated as normal. Setting the MIDI channels 1 2 3 Press the UTILITY/USB A/USB B button. Use the EFX SELECT control to select the MIDI Setting MIDI INPUT CH or MIDI OUTPUT CH. Set the MIDI channels.

If, at the completion of the MIDI layer operations, the positions of the EQ adjustment controls and Channel Fader differ from the internal statuses of the unit, the unit locks its internal statuses without reflecting the positions of the controls. · While these statuses are locked, the EQ LOCK indicator flashes. 5 MIDI layer operations The unit incorporates a MIDI layer function for the input channels. This function controls the external devices and software as the MIDI controller. If a control that is locked is operated, the lock screen appears. Setting the MIDI clock The MIDI clock that is synchronized with the set BPM value is output. (60 to 300 BPM) Indicates the channel that is locked. 1 Press the MIDI CLK button. · The MIDI clock is output from the USB MIDI and MIDI output terminals. The character that represents the EQ or fader that is being operated flashes.

The locked EQ or fader section lights. Indicates the direction in which the lock can be removed. Indicates the difference with the lock value. · The MIDI CLK button lights up. 1 2 Press the MIDI buttons. · The MIDI button lights up, and the MIDI layer operations are performed. The MIDI commands corresponding to the operations using the panel controls are output. · The · The off. operations are not reflected in the unit, and normal operation as a mixer cannot be performed. MIDI signals are received, and the LEDs light up or go 6 When the control matches the locked position, the lock is released, and normal operations can be performed on the unit.

· MIDI output operation block Channel isolator EQ (HI, MID, LOW) controls; Channel EFX SEND button; CUE buttons; Channel Fader · MIDI input operation block The channel level meter; channel EFX SEND button; CUE button display 18 ENGLISH Getting Started DVS function The DVS (Digital Vinyl System) function is used when a record or CD that contains a time code is played back, and the time code signal input from the CD player is sent to the computer to be converted to a music signal before being input to the unit. Preset Input 1 Select USB Audio Setting check that the Select in the UTILITY settings, and settings are DVS.



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0x3C 0x3D 0x3E 0x3F 0x40 0 41 0 42 0 45 0 46 0 47 0 48 0 4B 0 4C 0 4D Number Value Getting Started Connections Basic Operations CH1 CH4 Effector  
Function Fader Start CH2 USB 0 4E 0 51 0 52 0 53 0 54 0 57 0 58 0x59 0x5A 0x5B 0x5C 0x5D 0x5E 0x5F 0x60 0x61 0x62 0x63 0x64 Utility Specifications  
EFX CH3 Troubleshooting \* n=MIDI CH 21 ENGLISH Getting Started Connections Basic Operations Effector Function Fader Start USB Utility Utility  
Specifications Troubleshooting Utility settings Utility operations The following items can be set for the utility mode.



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