


DENON

Professional DIGITAL DJ Mixer


DN-X1700

Owner's Manual

SAFETY PRECAUTIONS



CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN



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-X1700

Serial No. _____

LABELS:

CAUTION
TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

ATTENTION
POUR ÉVITER LES CHOC ÉLECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU' AU FOND.

FCC INFORMATION (For US customers)

1. PRODUCT

This product complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this product may not cause harmful interference, and (2) this product must accept any interference received, including interference that may cause undesired operation.

2. IMPORTANT NOTICE: DO NOT MODIFY THIS PRODUCT

This product, when installed as indicated in the instructions contained in this manual, meets FCC requirements. 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.


This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.


IMPORTANT SAFETY INSTRUCTIONS

READ BEFORE OPERATING EQUIPMENT

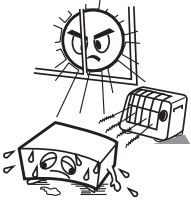
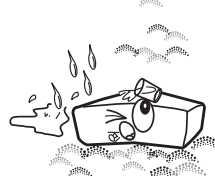
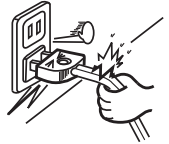




This product was designed and manufactured to meet strict quality and safety standards. There are, however, some installation and operation precautions which you should be particularly aware of.

1. Read these instructions.
2. 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 manufacture'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. 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.

Additional Safety Information!

15.  Marked terminals are HAZARDOUS LIVE and that the external wiring connected to those terminal requires installation by an instructed person or the use of ready-made leads or cords.
16. 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.

NOTE ON USE / HINWEISE ZUM GEBRAUCH / OBSERVATIONS RELATIVES A L'UTILISATION / NOTE SULL'USO / NOTAS SOBRE EL USO / ALVORENS TE GEBRUIKEN / OBSERVERA ANGÅENDE ANVÄNDNINGEN

 <ul style="list-style-type: none"> • 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. 	 <ul style="list-style-type: none"> • 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. 	 <ul style="list-style-type: none"> • 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 inserire 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.
 <ul style="list-style-type: none"> • Handle the power cord carefully. Hold the plug when unplugging the cord. • Gehen Sie vorsichtig mit dem Netzkabel um. Halten Sie das Kabel am Stecker, wenn Sie den Stecker herausziehen. • Manipuler le cordon d'alimentation avec précaution. Tenir la prise lors du débranchement du cordon. • Maneggiare il cavo di alimentazione con attenzione. Tenete ferma la spina quando scollegate il cavo dalla presa. • Maneje el cordón de energía con cuidado. Sostenga el enchufe cuando desconecte el cordón de energía. • Hanteer het netsnoer voorzichtig. Houd het snoer bij de stekker vast wanneer deze moet worden aan- of losgekoppeld. • Hantera nätkabeln varsamt. Håll i kabeln när den kopplas från eluttaget. 	 <ul style="list-style-type: none"> • Unplug the power cord when not using the unit for long periods of time. • Wenn das Gerät längere Zeit nicht verwendet werden soll, trennen Sie das Netzkabel vom Netzstecker. • Débrancher le cordon d'alimentation lorsque l'appareil n'est pas utilisé pendant de longues périodes. • Scollegate il cavo di alimentazione quando prevedete di non utilizzare l'unità per un lungo periodo di tempo. • Desconecte el cordón de energía cuando no utilice el equipo por mucho tiempo. • Neem altijd het netsnoer uit het stopcontact wanneer het apparaat gedurende een lange periode niet wordt gebruikt. • Koppla loss nätkabeln om apparaten inte kommer att användas i lång tid. 	 <ul style="list-style-type: none"> • 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 ververfdunder met dit toestel in contact komen. • Se till att inte insektsmedel på spraybruk, bensen och thinner kommer i kontakt med apparatens hölje.
 <ul style="list-style-type: none"> • 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. • Täpp inte till ventilationsöppningarna. 	<p>* (For apparatuses with ventilation holes)</p> <ul style="list-style-type: none"> • 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. • Täpp inte till ventilationsöppningarna. 	 <ul style="list-style-type: none"> • 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 smontare 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.

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.

ACHTUNG:

- Die Belüftung sollte auf keinen Fall durch das Abdecken der Belüftungsöffnungen durch Gegenstände wie beispielsweise Zeitungen, Tischtücher, Vorhänge o. Ä. 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.

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.

ATTENZIONE:

- Le aperture di ventilazione non devono essere ostruite coprendole con oggetti, quali giornali, tovaglie, tende e così via.
- Non posizionare sull'unità fiamme libere, come ad esempio candele accese.
- Prestate attenzione agli aspetti legati alla tutela dell'ambiente nello smaltimento delle batterie.
- L'apparecchiatura non deve essere esposta a gocciolii o spruzzi.
- Non posizionare sull'unità alcun oggetto contenente liquidi, come ad esempio i vasi.

PRECAUCIÓN:

- La ventilación no debe quedar obstruida por haberse cubierto las aperturas con objetos como periódicos, manteles, cortinas, etc.
- No debe colocarse sobre el aparato ninguna fuente inflamable sin protección, como velas encendidas.
- A la hora de deshacerse de las pilas, respete la normativa para el cuidado del medio ambiente.
- No exponer el aparato al goteo o salpicaduras cuando se utilice.
- No colocar sobre el aparato objetos llenos de líquido, como jarras.

WAARSCHUWING:

- De ventilatie mag niet worden belemmerd door de ventilatieopeningen af te dekken met bijvoorbeeld kranten, een tafelkleed, gordijnen, enz.
- Plaats geen open vlammen, bijvoorbeeld een brandende kaars, op het apparaat.
- Houd u steeds aan de milieuvoorschriften wanneer u gebruikte batterijen wegdoet.
- Stel het apparaat niet bloot aan druppels of spatten.
- Plaats geen voorwerpen gevuld met water, bijvoorbeeld een vaas, op het apparaat.

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.

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.

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 EN61000-3-3. EN55022, EN55024 für USB Multifunktionsbuchse.
Entspricht den Verordnungen der Direktive 2006/95/EC und 2004/108/EC.

DECLARATION OF 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.

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

DECLARACIÓN DE CONFORMIDAD

Declaramos bajo nuestra exclusiva responsabilidad que este producto al que hace referencia esta declaración, está conforme con los siguientes estándares:
EN60065, EN55013, EN55020, EN61000-3-2 y EN61000-3-3. EN55022, EN55024 para USB como terminal multifuncional.
Siguiendo las provisiones de las Directivas 2006/95/EC y 2004/108/EC.

EENVORMIGHEIDSVERKLARING

Wij verklaren uitsluitend op onze verantwoordelijkheid dat dit product, waarop deze verklaring betrekking heeft, in overeenstemming is met de volgende normen:
EN60065, EN55013, EN55020, EN61000-3-2 en EN61000-3-3. EN55022, EN55024 för USB som multifunktionskontakten.
Volgens de bepalingen van de Richtlijnen 2006/95/EC en 2004/108/EC.

ÖVERENSSTÄMMELSESINTYG

Härmed intygas helt på eget ansvar att denna produkt, vilken detta intyg avser, uppfyller följande standarder:
EN60065, EN55013, EN55020, EN61000-3-2 och EN61000-3-3. EN55022, EN55024 för USB som multifunktionskontakten.
Enligt stadgarna i direktiv 2006/95/EC och 2004/108/EC.

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.

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.

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.

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.

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.

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.



Pb

CAUTION:

To completely disconnect this product from the mains, disconnect the plug from the wall socket outlet.

The mains plug is used to completely interrupt the power supply to the unit and must be within easy access by the user.

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.

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.

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.

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.

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.

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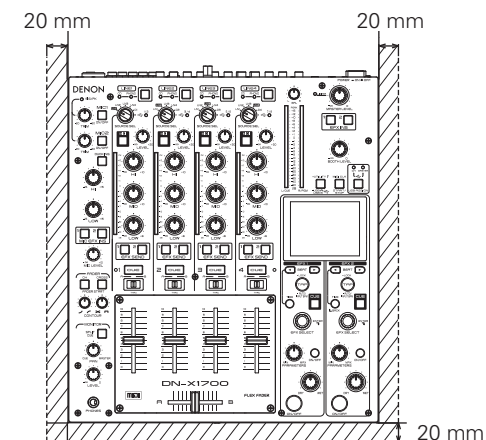
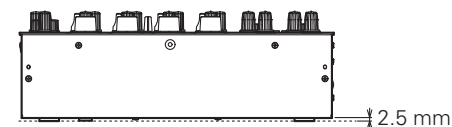
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Troubleshooting

Getting Started

Installation

When the DN-X1700 is mounted inside a coffin or DJ booth, we recommend leaving a 20 mm (Bottom 2.5 mm) blank space above the mixer if possible.



Main Features

The basic configuration of this unit consists of 4 CD and PHONO inputs, 4 digital inputs, 2 microphone inputs, 2 master outputs, 1 booth output, 1 REC output and 1 digital output while 1 effect input/output and 4 USB audio input/output systems are also provided.

This unit is also a DJ full digital mixer which supports 96 kHz/32-bit digital-to-analog conversion and which comes with USB MIDI and terminal output MIDI interface functions.

1. Design oriented toward achieving a high sound quality

- The unit features a 96 kHz/32-bit floating digital signal processor (DSP) and 32-bit digital-to-analog converter (DAC) (master output). A sound quality faithful to the original sources is delivered at a high degree of accuracy.
- The unit incorporates a mic amplifier with a discrete transistor configuration and a low equivalent input noise of 127 dB as well as a phono amplifier with a discrete FET configuration and a signal-to-noise ratio of 89 dB.
- A low-noise R-core transformer is employed for the analog power transformer. Large-capacity DENON DJ custom electrolytic capacitors are used 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.

2. Operating ease and high-reliability design tailored for professional use

- Large-sized 3.5-inch color LCD
- Matrix source selectors enabling the user to select any of 6 input sources
- Long-life conductive plastic faders with a long stroke of 60 mm guaranteed to be serviceable for 300,000 operations are provided for the Channel Fader.
- The crossfader's slide torque can be adjusted to achieved the desired feeling.
- Isolator equalizers are incorporated for each input channel. It is also possible to customize the crosspoint frequencies of the bands using presets.
- The headphone amplifier is a discrete transistor drive type with a push-pull configuration. A high output power of 400mW/40 ohms is delivered to support surefire monitoring in any kind of environment.

3. Dual effect

- The unit comes with 2 independent effectors which are linked to the number of beats which has been set in synchronization with the number of beats per minute (BPM) of the musical compositions. In addition to the newly developed BeatBreaker, a total of 12 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. This enables presentations based on effect groups by system A or B, for example.

4. USB audio and MIDI interfaces

- 8-channel (4 stereo channels) 96 kHz USB audio input/output function
- ASIO driver which achieves a low latency packed together with the unit
- USB assign switch function enabling system switching for the USB audio inputs using one button
- Also available is a MIDI layer function for controlling the DJ software on a channel by channel basis. MIDI output is enabled for almost all other operations involving the panel controls.
- The 5-pin DIN MIDI output terminals provided support synchronization with external devices.
- The MIDI clock signal is detected from the computer, and can be automatically used as a BPM value.
- DVS (Digital Vinyl System) is supported.
- MIDI control and input adjustment can be operated simultaneously from the MIDI layer selection function.

5. 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 preparation time.
- Ducking function for reducing the amount of background sound during mic input
- Channel Fader and Crossfader start function

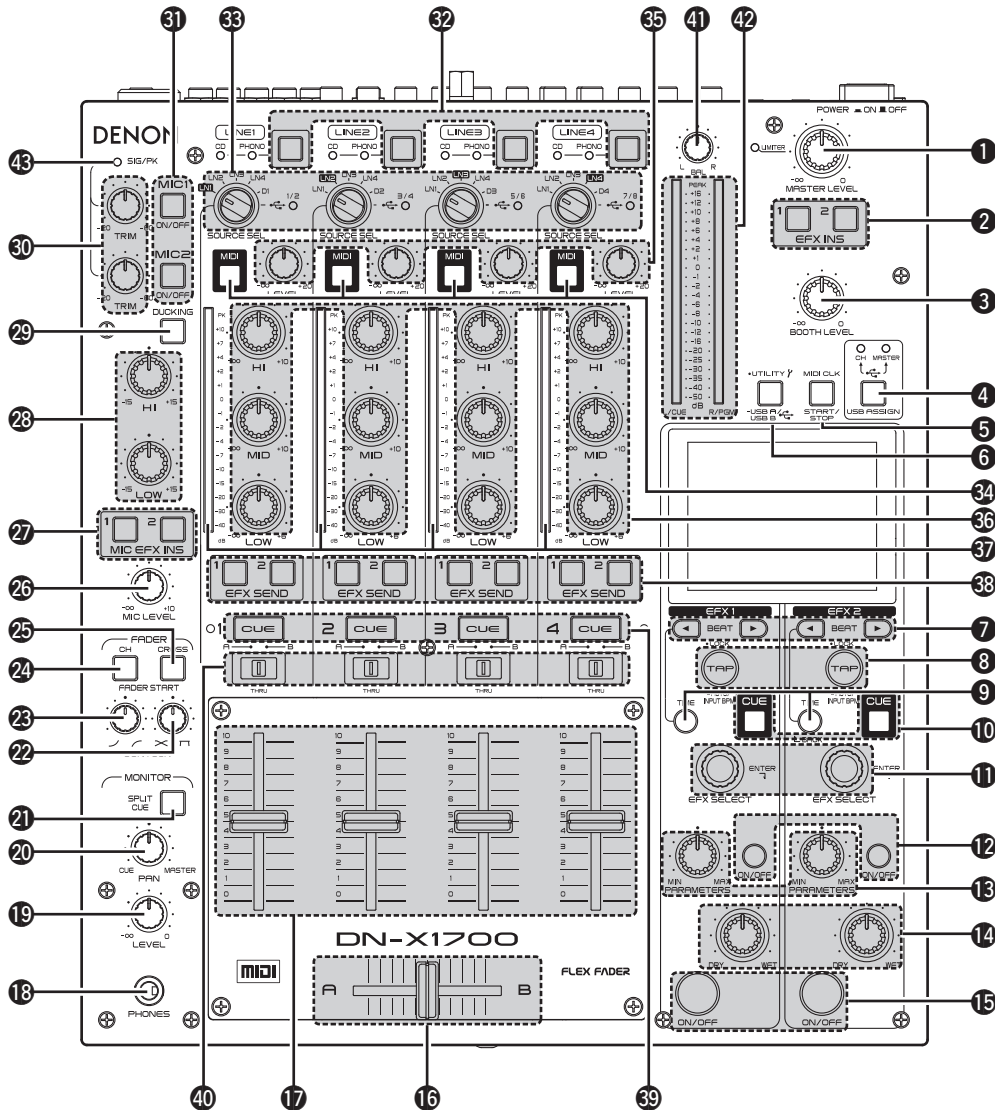
6. V-LINK

The unit is equipped with the V-LINK (**V-LINK**) function. 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.

Part Names and Functions

For further details on the functions and other aspects of the parts, refer to the page numbers in parenthesis.

Top Panel



1 MASTER LEVEL control

Adjusts the level of the MASTER outputs.
The LIMITER LED indicates the operating status of the master output limiter.

- Limiter OFF: LED is off.
- Limiter ON: LED lights up green.
- While limiter is operating: LED lights up red.
- * You can set either 0 dB or +10 dB for the output when the knob is turned to Max in the Owner Setting mode (the factory setting: 0 dB).

2 Master EFX INS 1, 2 buttons

These buttons enable the various effects of the selected side, either EFX 1 or EFX 2, to be obtained for the master output signals.

3 BOOTH LEVEL control

Adjusts the level of the BOOTH outputs.
* You can set either 0 dB or +10 dB for the output when the knob is turned to Max in the Owner Setting mode (the factory setting: 0 dB).

4 USB ASSIGN CH/MASTER button

This is used to switch the assignment destination of the USB audio input signals supplied from the computer.

CH:

The signals are assigned to the channels (1 to 4).

MASTER:

The signals are assigned to the master bus and monitor bus.

5 MIDI CLOCK START/STOP 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.

6 UTILITY/-USB A/USB B button

This allows the presets to be set and the system information to be set, changed or referenced. When it is held down for more than a second, the USB mode switching screen is opened, and the USB device mode or USB host mode can be selected.

7 BEAT ◀, ▶ buttons

◀(Short) :

The beat/time is decreased.

▶(Long) :

The beat/time is increased.

8 TAP LOCK/AUTO/INPUT BPM button

TAP:

When this button is tapped repeatedly, the BPM (Beats Per Minute) value is measured using the intervals between the 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 7 BEAT ◀, ▶ buttons. When it is pressed again, the mode is released.

9 TIME/BACK button

TIME:

This button is used to select whether to change the effects produced using the 7 BEAT ◀, ▶ buttons on the basis of the number of beats or time.

BACK (EFX 2 side only):

This is used when returning to the previous screen while setting screen operations are being performed.

10 Effect CUE button

When this button is set to ON, the sound of the effects (but not the DELAY, ECHO or REVERB effects) can be monitored even if the effect OFF status.

11 EFX SELECT control

This is for selecting the effect to be used. Refer to the effect functions (page 9).

12 Parameter ON/OFF button

This is used to control the ON and OFF settings of the effect parameters.

13 PARAMETER MIX/MAX control

This is used to adjust the filter cutoff frequency and other effector parameters. The parameters are changed by the effector selected.

14 DRY/WET control

Use this to adjust the ratio of original and effected sound.

15 Effect ON/OFF button

This sets the effects of EFX 1 or EFX 2 to ON or OFF.

16 CROSSFADER

Controls the relative output level from the summed A and B Mixes. When the fader is at its far left, only the A Mix is heard from the Outputs. As the fader is moved toward the right, the amount of B Mix is increased and the amount of A Mix is decreased. When the fader is centered, equal amounts of A and B Mixes are routed to the Outputs. Fully right is all B Mix at the Outputs.

17 Channel input fader (CH FADER)

Controls the level of the selected Input.

18 HEADPHONE output jack

Accepts 1/4" stereo headphone plugs.

19 HEADPHONE level control

Adjusts the volume for the headphones.

20 HEADPHONE PAN control

This is used to adjust the balance between the CUE sound and the master sound which are monitored using the headphones.

21 SPLIT CUE button

There are two headphone monitor modes.

Stereo mode (SPLIT CUE OFF):

The cue signals and master signals can be monitored in stereo.

SPLIT CUE mode:

The monaural cue signals are heard through the left channel of the headphones, and the monaural master signals through the right channel.

22 CROSSFADER CONTOUR control

Allows adjusting the "shape" of the Crossfader response from a gentle curve for smooth, long running fades, to the steep pitch required for top performance cut and scratch effects.

23 CH FADER CONTOUR control

Adjusts the volume curve response of the channel fader.

24 CH FADER START switch

This function will start the performance of CD/Media Player with Ch. Fader automatically is **ON/OFF**.

25 CROSSFADER START switches

Use this to switch the Crossfader Start function **ON** and **OFF**.

26 MIC SEND LEVEL control

This is used to adjust the level at which the mic signals are sent to the master output.

27 Mic EFX INS 1, 2 buttons

These buttons enable the various effects of the selected side, either EFX 1 or EFX 2, to be obtained for the mic input signals.

28 MIC EQ controls

Contour the frequency response of the Mic input -15 dB to +15 dB.

29 DUCKING ON/OFF button

- Use this to switch the Talk Over function ON and OFF. (ON/OFF is cyclic)
 - When the button is lit, level of signals except Mics is attenuated.
- * The ducking attenuation level can be adjusted in the "UTILITY" mode.

30 MIC1, MIC2 TRIM controls

Adjusts the level of the Main Mic input.

31 MIC1, 2 buttons

When the button's LED is lighted, the mic signals take effect.

32 CD/PHONO line input selector buttons

These enable the line input of each channel to be selected as CD or PHONO.

CD:

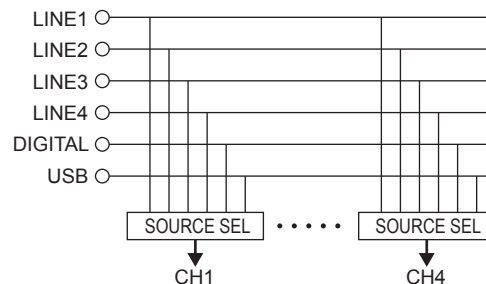
Rear panel LINE1-4 CD terminal input

PHONO:

Rear panel LINE1-4 PHONO terminal input

33 SOURCE SEL LN1/LN2/LN3/LN4/D1-4/USB controls (channel input selector)

These enable any of six inputs to be selected for each of the channels. The same input can be selected for more than one channel. When DIGITAL is selected, the LED of the corresponding button lights up red; when USB is selected, it lights up blue.

**34 MIDI layer selector buttons**

When these buttons are set to ON, the controls of the selected channels function as MIDI controllers. Also, the EQ control rings light up blue.

35 Channel input LEVEL controls

These are used to adjust the levels of the selected inputs.

36 Channel isolator EQ controls (HI, MID, LOW)

These are used to change the frequency response of the selected inputs.

At the center position, the frequency response is flat.

At the $-\infty$ position, the frequencies of all the bands are cut off completely.

37 CH LEVEL meter

Displays the input level after adjusted with LEVEL **35** and Source EQ **36** controls.

38 Channel EFX SEND 1, 2 buttons

These buttons enable the various effects of the selected side, either EFX 1 or EFX 2, to be obtained for the channel audio signals. The same effect (EFX 1 or 2) can be selected for a multiple number of channels.

The LED of the EFX button for the side selected for each channel lights.

39 Channel CUE buttons

Pressing in any or all of **CUE** buttons routes the respective source to the headphone and meter cue sections. Pressing multiple buttons makes it possible to derive mixed sound from the selected sources.

*The SOLO mode with no signals mixed can also be selected as a preset.

40 CROSSFADER ASSIGN switches**A, B:**

The channel source is assigned to A or B of the Crossfader.

THRU:

Select when you don't assign the channel source into the Crossfader.

41 MASTER BALANCE control

Adjusts the L/R balance of the MASTER output.

42 L/CUE, R/PGM master level meter

One of two modes can be selected for display on this meter.

Split CUE OFF:

The master output audio level is displayed.

Split CUE ON:

The right channel master CUE (monaural) and left channel CUE (monaural) audio levels are displayed.

43 SIG/PK

This is the signal/peak meter for the mic input level.

Off:

No signals input (under -60 dB/FS)

Green:

Signal input (-60 dB/FS to under -20 dB/FS)

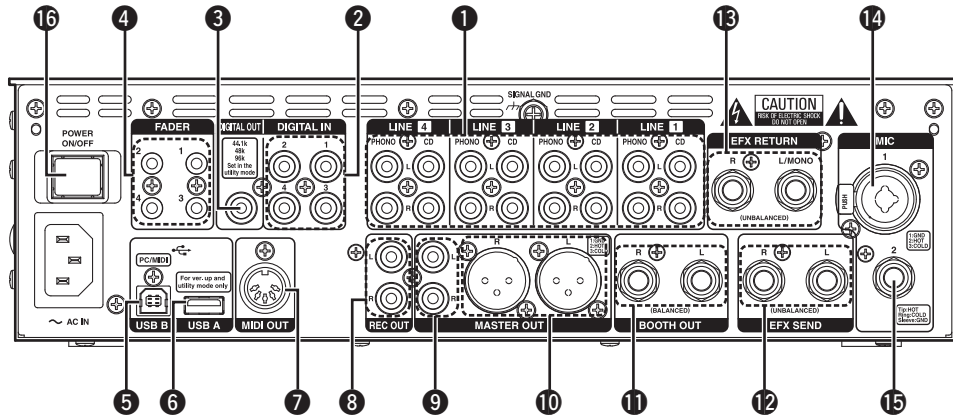
Orange:

Suitable signal input level (-20 dB/FS to under -6 dB/FS)

Red:

Excessively high signal input level (above -6 dB/FS)

Rear Panel



1 PHONO 1, 2, 3, 4 / CD 1, 2, 3, 4 input terminals

These unbalanced stereo RCA terminals are used to connect devices such as a turntable (RIAA) with an MM (moving magnet) type of cartridge or CD/Media Player.

2 DIGITAL IN 1, 2, 3, 4 input terminals

These are used to connect the digital output terminals of CD/Media Players and digital players.

3 COAXIAL DIGITAL OUT terminal (44.1/ 48/ 96kHz)

Output from this RCA terminal is the digital output data. These signals are not affected by the master level adjustments. We recommend using an RCA cable designed for digital signals (75 ohms). (This can be purchased from an audio/video store.)

4 LINE 1, 2, 3, 4 FADER output terminals

Connect these terminals to the Fader input terminals of the DN-S1200, DN-S3700 and etc using the 3.5 mm stereo mini cord.

5 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.

6 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.

7 MIDI output terminal

5-pin DIN connector output

This is connected to a MIDI-compatible device.

8 REC OUT terminals

These are the recording output terminals.

9 MASTER OUT (UNBALANCED) terminals

- This stereo pair of RCA terminals provides a unbalanced line level output.

- Connect these terminals to the unbalanced analog input terminals on an amplifier or console.

10 MASTER OUT (BALANCED) connectors

- These XLR type connectors provide a balanced line level output.

- Connect these connectors to the balanced analog input connectors on an amplifier or console.

- Pin layout: 1. GND, 2. Hot, 3. Cold

- Applicable connector: Cannon XLR-3-32 or equivalent.

11 BOOTH OUT (BALANCED) connectors

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

12 SEND/13 RETURN terminals

- These 1/4" TS mono terminals allow external processing of the program signal.

- When connect monaural type effect processor, use Lch input and output.

SEND (output):

Connect this to the input terminal on the external effector.

RETURN (input):

Connect this to the output terminal on the external effector.

14 MIC1 input terminal

A microphone is connected to this balanced combo jack with XLR connector or with 1/4-inch TRS plug.

- Pin layout: 1. GND, 2. Hot, 3. Cold

- Applicable connector: Cannon XLR-3-32 or equivalent.

15 MIC2 input terminal

Accepts a balanced microphone with 1/4" terminals.

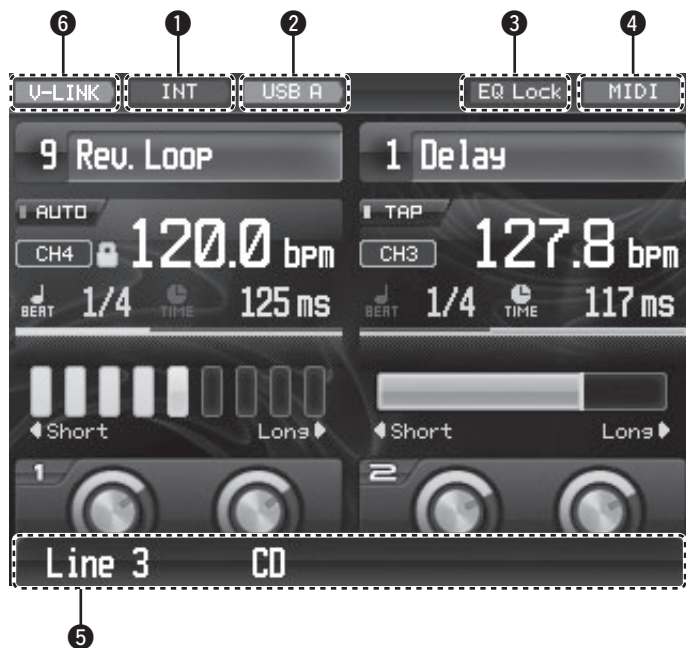
Pin layout (TRS):

Tip: Hot, Ring: Cold, Sleeve: GND

16 POWER switch

This turns the unit's power **ON** (⬆) or **OFF** (⬇).

Display



❶ INT/EXT indicator

This indicates the location of the Preset currently being used.

INT: The internal Preset information is being used.

EXT: The Preset information stored on a USB device is being used.

❷ USB A/USB B indicator

This indicates the current USB mode.

USB A: USB host mode

USB B: USB device mode

❸ EQ Lock indicator

This flashes when the equalizers and faders are locked.

❹ MIDI indicator

This appears when MIDI communication is being performed.

❺ Navigation display

This indicates the current statuses when operations have been performed.

❻ V-LINK indicator

This lights when in V-LINK mode.

Connections

Refer to the Connection Diagram below.

1. Make certain AC power is off while making connections.
2. Quality cables make a big difference in fidelity and punch. Use high-quality, audio cables.
3. Do not use excessively long cables. Be sure plugs and terminals are securely fastened. Loose connections cause hum, noise, or intermittence that could damage your speakers.
4. Connect all stereo input sources. Then connect any effects into the stereo Effect, if used. Connect your Microphone(s) and monitor headphones. Make sure all faders are at "zero" and the unit is off. Take care to connect only one cable at a time. pay attention to L and R position of terminals, on both the DN-X1700 and outboard gear.
5. Connect the stereo outputs to the power amplifier(s) and/or tape deck(s) and/or Solid State recorder(s) and/or CD recorder(s).

NOTE

- Always switch on your audio input sources such as CD players first, then your mixer, and finally any amplifiers.
- When turning off, always reverse this operation by turning off amplifiers, then your mixer, and then input units.

Preparations

Cables Used for Connections

Select the cables according to the equipment being connected.

Audio cables

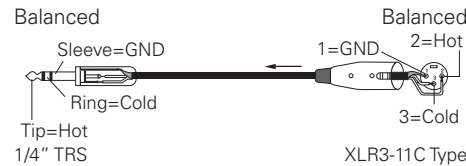
For RCA PINJACK



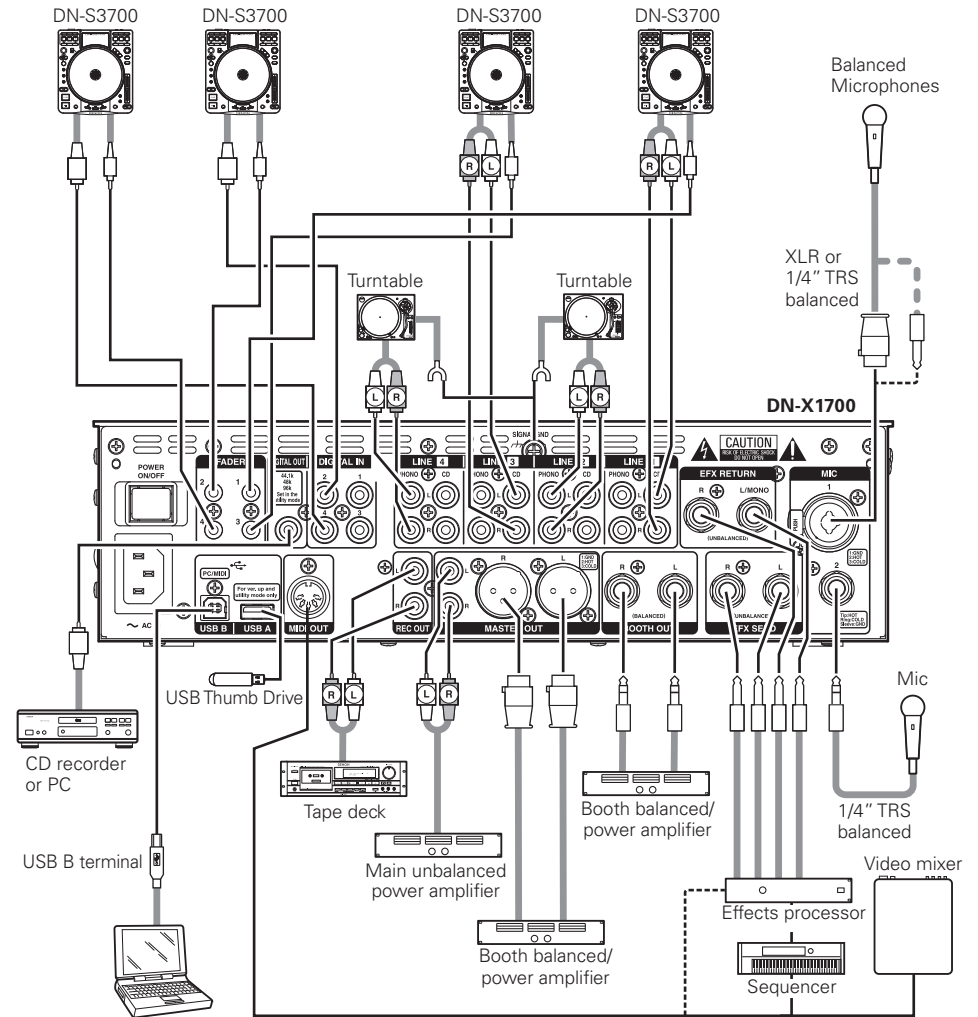
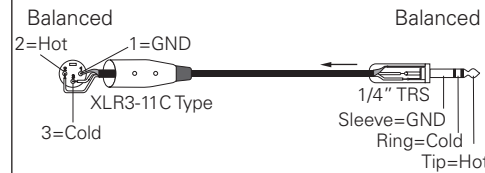
For SEND/RETURN



For MIC



For BALANCED MASTER OUT



ASIO Driver Application included.

Computer OS versions that can be connected to the DN-X1700:

- 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-X1700 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.

NOTE

Keep volume at comfortable sound levels and avoid extended play at very high volume as it may cause temporary or permanent hearing loss.

Basic Operations

Preparations

- 1 Set the **POWER** switch to ON.
- 2 Use the **SOURCE SELECT** controls to select the sources (LN1–LN4, D1–D4, USB) of channels 1 to 4 which are to be used.
Use the **CD/PHONO line input selector** buttons of the lines to set the CD or PHONO as the line input.
- 3 Check the level meter, and adjust the input levels using the **channel input level** controls (LEVEL controls).
- 4 Adjust the sound quality using the HI, MID, LOW **channel isolator EQ** controls.
- 5 Determine where the channel signals are to be assigned using the **CROSSFADER ASSIGN** switches (A/THRU/B).
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.

MIC (mic input)

- 1 When using a microphone, press the **MIC1** or **MIC2** button to set it to ON.
- 2 Adjust the MIC1 volume level using the **MIC1 TRIM** control, and adjust the MIC2 volume level using the **MIC2 TRIM** control.
While inputting the audio signals to the unit, monitor the LEDs on the SIG/PK (signal/peak) meter. If the LEDs occasionally light up red but there is no distortion and the LEDs then light up amber, the suitable level has been reached as a result of the adjustment process.
- 3 Adjust the sound quality using the **MIC EQ** controls (HI/LOW).
- 4 When the **DUCKING ON/OFF** button is set to ON, all outputs except the mic sound will be attenuated when the signals from the microphone are supplied.
- 5 To add the effect functions to the mic input, set the **Mic EFX INS** buttons to ON.

Ducking function

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.

- 1 To enable the ducking function, set the **DUCKING ON/OFF** button to ON. The LED in the button will light.
- 2 The 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.

MONITOR (headphones output)

- 1 Select the source to be monitored using the **CUE** buttons of the channels. When a source is selected, the LED in the **CUE** button lights.
CUE monitoring for channels 1 to 4 as well as EFX 1 and EFX 2 can be selected.
- 2 Selecting the STEREO or SPLIT CUE mode.
Use the **SPLIT CUE** button to select the STEREO or SPLIT CUE mode. When the mode is selected, the LED in the **SPLIT CUE** button lights.
In the SPLIT CUE (monaural) mode, the signals selected for cue are output to the left channel speaker of the headphones, and the master signals are output to the right channel speaker.
In the STEREO mode, the master signals and signals selected for cue are output in stereo.
- 3 Use the **headphones PAN** control to adjust the balance between the cue signals and master output signals. When it is turned counterclockwise, only the cue signals are output from the headphones; conversely, when it is turned clockwise, only the master output signals are output.
- 4 Use the **HEADPHONES LEVEL** control to adjust the headphones output to the desired level.

Effector Function

The unit comes with 2 independent effectors which are linked to the number of beats which has been set in synchronization with the number of beats per minute (BPM) of the musical compositions. It also has an effect send configuration which makes it possible to send the signals of a multiple number of input channels simultaneously to the effectors. As a result, it can give presentations based on effect groups by effector A and effector B, add the effects which are produced by the 2 effectors and which differ between channel input and master output, and present a wide range of other acoustic effects as well.

Types of effects and details of operations

No.	Effect	Description of effect operation
1	Delay	Adds signals which have been delayed by the time of the beat setting.
2	Echo	Adds echo signals which have been delayed by the time of the beat setting.
3	Trans	Cuts off the signals at the time of the beat setting.
4	Flanger	Adds signals whose delay time has been varied in the LFO period of the beat setting.
5	Filter	Varies the filter cut-off frequency using the beat setting time.
6	Phaser	Adds signals whose phase has been varied in the LFO period of the beat setting.
7	Reverb	Adds reverberation signals which have been delayed by the time of the beat setting.
8	Loop	Initiates the same kind of loop sampler processing as the LOOP function of other Denon DJ products.
9	Rev. Loop	Initiates the reverse play processing of the above loop signals.
10	Pitch Shift	Initiates the pitch shift processing of the input signals, and outputs the results.
11	BeatBreaker	Initiates the partial insertion processing of the attack sounds of the beats as per the beat pattern.
12	BeatScratch	Repeats standard playback of the beat setting time and reverse playback of the same beat setting time to output a scratching effect.
13	SEND/RTN	Sends the signals whose effects have been selected to the external effector and returns the signals from the external effector. * EFX 1 and EFX 2 cannot be selected at the same time.

* In order to achieve normal effects, set the BPM value that matches the number of beats of the musical compositions.

BeatBreaker Function



1. What the BeatBreaker effector does

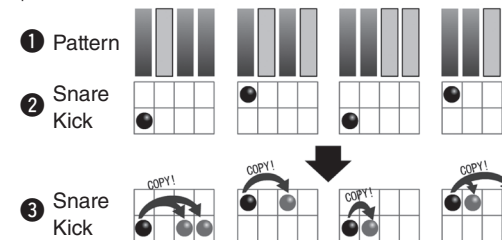
This effector breaks down the music signals in each bar obtained from the BPM value a quarter beat at a time into 16 sections, replaces these sections with a preset beat pattern, and then plays them back to achieve an effect where the beat of the original musical composition is changed.

2. 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 block being played lights up blue.

Example:



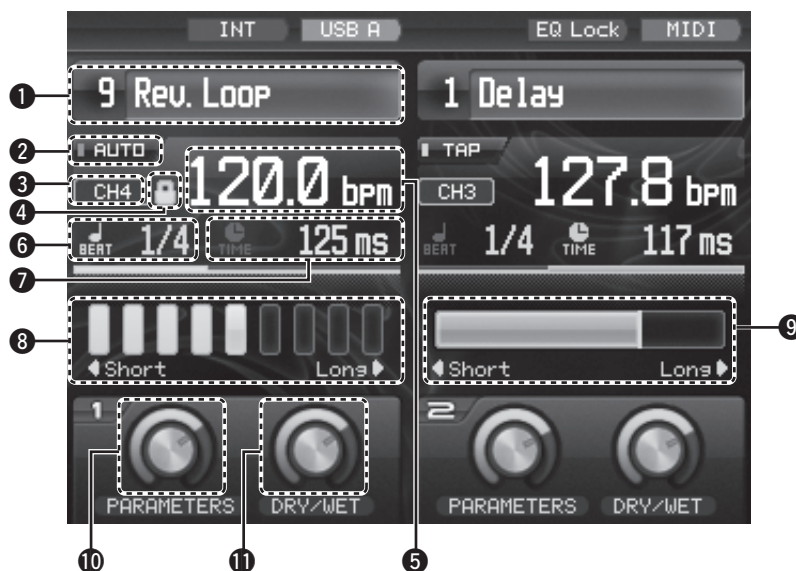
In the case of pattern ① shown in the figure, when the music signals ② are input, the sound of signals ③, which are produced by replacing the sound of the first quarter beat with the lighted section, are output.

3. 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.

Effector Screen



1 Effect display

The names of the effects now selected are displayed here.

2 BPM mode indicator

AUTO :

AUTO is displayed when AUTO BPM has been selected as the BPM mode setting.

TAP :

TAP is displayed when the TAP input mode has been selected.

INPUT :

INPUT is displayed when the INPUT mode has been selected.

3 BPM source indicator

The signal source now subject to auto BPM detection is displayed here.

4 Lock icon

This lights when BPM is locked.

5 Effector BPM display

The current BPM value is displayed here.

6 Beat display

The beat (number of beats) setting is displayed here.

7 Time display

8 Beat display bar

9 Time display bar

10 Parameter control indicator

11 Dry/wet control indicator

Effector Operations

Selecting the effector units and channels

With the input channels:

Using the **EFX SEND 1 and 2** buttons, 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 1 or 2** button, select the effect unit to be used. The insertion operation is initiated and just the one channel is selected.



* It is not possible to select both effect units at the same time for all the channels.

Setting the BPM

1 When the auto BPM counter is off, press the **TAP** button for over 1 second to turn the auto BPM counter on.





2 When the auto BPM counter is on, press the **TAP** button and release it immediately. The data measured with the auto BPM function is locked.

*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 Press and hold in the **TAP** button for over 2 seconds. The BPM can now be input manually. The BPM value can be set directly by pressing the **BEAT** ,  buttons.

4 BPM is measured at the interval during which the **TAP** buttons are repeatedly pressed.

Setting the beat

- 1 Press the **BEAT** ,  buttons to set the number of beats.
- 2 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.
- 3 When the **TIME** button is pressed again, the number of beats setting mode is restored.

Selecting the effects

Turn the **EFX SELECT** controls to select the effect, and press the control to enter the desired effect.

Turning the effects ON and OFF

When the **Effect ON/OFF** buttons are pressed, the effect is turned ON or OFF.

Fader Start

Channel Fader Start

- 1 Using the **channel input source selector** controls (SOURCE SEL LN1/LN2/LN3/LN4/D1-4/USB), select the desired source from **LINE1 CD**, **LINE2 CD**, **LINE3 CD** or **LINE4 CD**.
- 2 Turn on the **CH FADER START** switch.
- 3 Move the **Channel input fader (CH FADER)** of CH-1, CH-2, CH-3 or CH-4 control all the way to the bottom.
- 4 Set the standby mode on CD player.
- 5 When you want to start the player, move up the **Channel input fader (CH FADER)** and the CD player will begin playing.

Crossfader Start

- 1 Using the **channel input source selector** controls (SOURCE SEL LN1/LN2/LN3/LN4/D1-4/USB), select the desired source from **LINE1 CD**, **LINE2 CD**, **LINE3 CD** or **LINE4 CD**.
- 2 Set the **CROSSFADER ASSIGN** switches (A/THRU/B) to A or B.
- 3 Turn on the **CROSSFADER START** switches.
- 4 Slide the **Crossfader** all the way in direction opposite the source you want to start. (In the following example, startup is done with the CD player connected set to Assign A.)
- 5 Set the standby mode on CD player.
- 6 Use the **CROSSFADER CONTOUR** control to control the cross fader startup curve.
- 7 When the **Crossfader** is slid in the opposite direction, CD player play will begin.

FADER (setting the fader curve)

1 Channel Fader
When the **CH FADER CONTOUR** control is turned counterclockwise, the curve will have characteristics that rise gradually; conversely, when it is turned clockwise, it will have characteristics that rise sharply. At the center position, curve characteristics between the two will be produced.

* The same curve characteristics apply to channels 1 to 4.

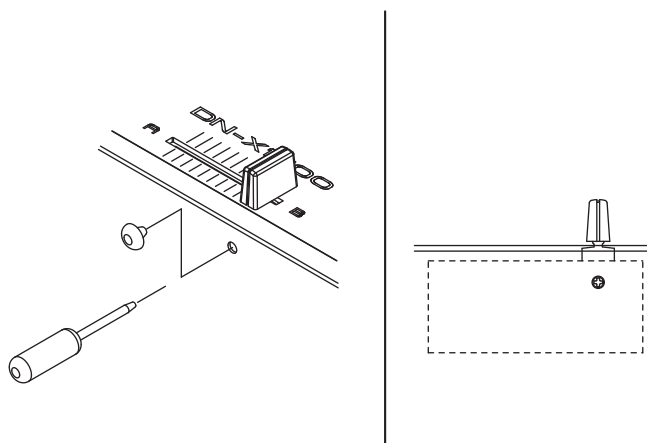
2 Crossfader
When the **CH FADER CONTOUR** control is turned counterclockwise, the curve will have characteristics that will rise gradually; conversely, when it is turned clockwise, it will have characteristics that rise sharply, and cut-in and cut-out operations will be performed. At the center position, curve characteristics between the two will be produced.

How to adjust the Crossfader torque

- 1** Remove the rubber cap of the front panel.
- 2** Move the **Crossfader** to the far right until the screw head becomes visible.
- 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.
When the screw is turned counterclockwise: The sliding torque is decreased so that the Crossfader moves more easily.
- 4** Put the rubber cap of the front panel back in its place.

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.



USB Settings

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 B)

To switch from USB B (device mode) to USB A (host mode):

1 Press the **UTILITY/–USB A/USB B** button for one second.

2 Operation now transfers to the screen shown below.



3 Select **OK/Cancel** using the **EFX SELECT** control (EFX2), and press the button to enter the selection.

4 The indicator changes from **USB-B** to **USB-A**, and the host mode is established.

(* When a specific period of time elapses with no computer connected to the **USB B** terminal, the indicator changes back to **USB-A**, and the host mode is automatically selected.)

5 To select the mode again, press the **UTILITY/–USB A/USB B** button for one second, and select the settings by following the same steps.

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. 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.

Setting the USB audio output

Any sound source of the 4 systems provided—1 to 4 input channels (Pre EQ), mic input (Post Send VR), master output (Pre Limiter) or REC output—can be selected as the USB audio output. The USB audio output level can be adjusted using a Utility setting.

1 Press the **UTILITY/–USB A/USB B** button. The Utility setting screen is displayed.

2 Using the **EFX SELECT** control (EFX2), select **Audio Setting** → **USB Audio Setting** → **Output Source Select**. One of the audio sources assigned to the **USB output channels** is selected on the selection screen displayed.

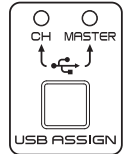
3 Press the **UTILITY/–USB A/USB B** button. The Utility setting screen is closed.

Setting the USB audio input

One of the two modes below is set using the **USB ASSIGN CH/MASTER** button 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.



① **CH INPUT mode**

Select this mode when mixing sound using only the DN-X1700 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 → Input channel 1
USB channel 3 and 4 inputs → Input channel 2
USB channel 5 and 6 inputs → Input channel 3
USB channel 7 and 8 inputs → Input channel 4

② **MASTER mode**

Select this mode when using both the mixer functions of the DJ software and the DN-X1700's functions.

The USB audio input signals are assigned to the buses shown below.

USB channel 1 and 2 inputs → Master bus
USB channel 3 and 4 inputs → Cue monitor bus
USB channel 5 and 6 inputs → Disabled
USB channel 7 and 8 inputs → Disabled

The mixer output of the DJ software is mixed in the buses using the DN-X1700.

- * Ensure that the audio output settings of the DJ software correspond to the specifications given above.

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.

Setting the MIDI channels

- 1 Press the **UTILITY/–USB A/USB B** button.
- 2 Using the **EFX SELECT** control (EFX2), select **MIDI Setting** → **MIDI INPUT CH** or **MIDI OUTPUT CH**. Set the MIDI channels.

Setting the MIDI clock

Using the EFX SELECT control (EFX2), output the MIDI clock which is synchronized with the BPM value set. (60 to 300 BPM)

- 1 Press the **MIDI CLOCK START/STOP** button.
- 2 The MIDI clock is output from the **USB MIDI** and **MIDI output terminals**. The LED in the **MIDI CLOCK START/STOP** button lights.

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.

- 1 Press the **MIDI layer selector buttons**. The **EQ control rings** light up blue, and the MIDI layer operations are performed.
- 2 The MIDI commands corresponding to the operations using the panel controls are output. The operation are not reflected in the DN-X1700. The MIDI signals are received, and the LEDs light up or go off.
 - MIDI output operation block
Channel isolator EQ (HI, MID, LOW) controls; channel EFX SEND 1, 2 buttons; CUE buttons; Channel Fader
 - MIDI input operation block
The channel level meter; channel EFX SEND 1, 2 buttons; CUE button display
- 3 When the **MIDI layer selector button** is pressed again, the **EQ control rings** change to amber, and the MIDI layer operations are ended. The operations are reflected in the DN-X1700 without being output to the MIDI output terminals.
- 4 If, at the completion of the MIDI layer operations, the positions of the **channel isolator EQ controls (HI, MID, LOW)** and **Channel Fader** differ from the internal statuses of the DN-X1700, the DN-X1700 locks its internal statuses without reflecting the positions of the controls. While these statuses are locked, the **EQ control rings** flash.
- 5 When a control whose status is locked is operated, the lock screen appears, and the lock icon and lock position (red line) are displayed.
- 6 When the control matches the locked position, the lock is released, and the operations are reflected in the DN-X1700.

MIDI clock synchronization

If the MIDI clock Input BPM signal is detected from the computer when AUTO BPM mode is being used, this unit automatically switches to operate using the MIDI clock input BPM instead.

MIDI Layer Mode Operation

The operations when the MIDI layer selector buttons are pressed in “3 MIDI Setting” – “6 MIDI Layer mode” in the “Utility Settings” have changed.

	Utility settings			
	MIDI Combine		MIDI Divide	
MIDI layer selector buttons	ON	OFF*	ON	OFF
MIDI control	○	×	○	×
Internal Control	○	○	×	○

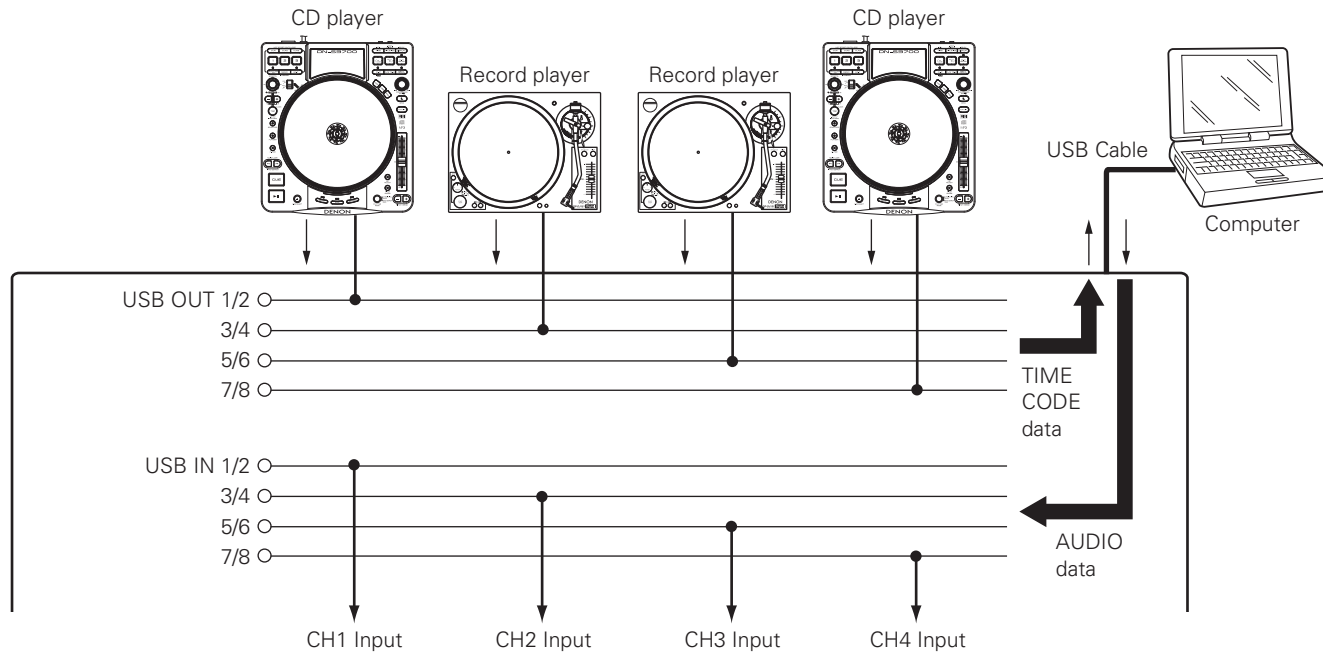
NOTE *: Default ○ : Operates × : Does not operate

The ON/OFF states for the MIDI layer selector buttons are retained even when the power is turned OFF.

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.

- Check that the DVS software has been installed on the computer.



- 1** Select “7 USB Audio Setting” – “3 Input Source Select” – “CH1~4” in the “Utility Settings”, and check that the settings are “DVS”.
 - “USB1/2 – 7/8” is the default setting.
- 2** Change the setting to “CH” using the **USB ASSIGN CH/MASTER** button.
- 3** Set the **SOURCE SEL LN1/LN2/LN3/LN4/D1-4/USB** controls (channel input selector) knob of the channel to be used to “USB1/2 – 7/8”.
- 4** Set the USB mode to device mode for the unit.
- 5** Set the DVS software in the computer.
- 6** **Plays the player that is connected to LINE.**
 - Enter the TIME CODE data to the connected LINE. The TIME CODE data is entered to the computer via the USB cable. The data is converted to AUDIO data by the computer, and then input to the various channels of this device.
- 7** Adjust the volume etc. for the connected line.

MIDI Command List

Send commands

	Items	MIDI command		
		Command	Number	Value
CH1	EQ HIGH VR	0xBn	0x02	0x00 to 0x7F
	EQ MID VR	0xBn	0x03	0x00 to 0x7F
	EQ LOW VR	0xBn	0x04	0x00 to 0x7F
	FADER	0xBn	0x05	0x00 to 0x7F
	EFFECT SEND1	SW ON : 0x9n / SW OFF : 0x8n	0x01	SW ON : 0x40 / SW OFF : 0x00
	EFFECT SEND2	SW ON : 0x9n / SW OFF : 0x8n	0x02	SW ON : 0x40 / SW OFF : 0x00
	CUE	SW ON : 0x9n / SW OFF : 0x8n	0x03	SW ON : 0x40 / SW OFF : 0x00
	MIDI LAYER mode	0xBn	0x46	OFF : 0x00 / ON : 0x7F
CH2	EQ HIGH VR	0xBn	0x08	0x00 to 0x7F
	EQ MID VR	0xBn	0x09	0x00 to 0x7F
	EQ LOW VR	0xBn	0x0A	0x00 to 0x7F
	FADER	0xBn	0x0B	0x00 to 0x7F
	EFFECT SEND1	SW ON : 0x9n / SW OFF : 0x8n	0x05	SW ON : 0x40 / SW OFF : 0x00
	EFFECT SEND2	SW ON : 0x9n / SW OFF : 0x8n	0x06	SW ON : 0x40 / SW OFF : 0x00
	CUE	SW ON : 0x9n / SW OFF : 0x8n	0x07	SW ON : 0x40 / SW OFF : 0x00
	MIDI LAYER mode	0xBn	0x47	OFF : 0x00 / ON : 0x7F
CH3	EQ HIGH VR	0xBn	0x0D	0x00 to 0x7F
	EQ MID VR	0xBn	0x0E	0x00 to 0x7F
	EQ LOW VR	0xBn	0x0F	0x00 to 0x7F
	FADER	0xBn	0x10	0x00 to 0x7F
	EFFECT SEND1	SW ON : 0x9n / SW OFF : 0x8n	0x09	SW ON : 0x40 / SW OFF : 0x00
	EFFECT SEND2	SW ON : 0x9n / SW OFF : 0x8n	0x0A	SW ON : 0x40 / SW OFF : 0x00
	CUE	SW ON : 0x9n / SW OFF : 0x8n	0x0B	SW ON : 0x40 / SW OFF : 0x00
	MIDI LAYER mode	0xBn	0x48	OFF : 0x00 / ON : 0x7F
CH4	EQ HIGH VR	0xBn	0x012	0x00 to 0x7F
	EQ MID VR	0xBn	0x13	0x00 to 0x7F
	EQ LOW VR	0xBn	0x14	0x00 to 0x7F
	FADER	0xBn	0x15	0x00 to 0x7F
	EFFECT SEND1	SW ON : 0x9n / SW OFF : 0x8n	0x0D	SW ON : 0x40 / SW OFF : 0x00
	EFFECT SEND2	SW ON : 0x9n / SW OFF : 0x8n	0x0E	SW ON : 0x40 / SW OFF : 0x00
	CUE	SW ON : 0x9n / SW OFF : 0x8n	0x0F	SW ON : 0x40 / SW OFF : 0x00
	MIDI LAYER mode	0xBn	0x49	OFF : 0x00 / ON : 0x7F
CROSS FADER	CROSS FADER	0xBn	0x16	0x00 to 0x7F
MASTER	MASTER LEVEL VR	0xBn	0x19	0x00 to 0x7F
	BALANCE VR	0xBn	0x1A	0x00 to 0x7F
	BOOTH LEVEL VR	0xBn	0x1B	0x00 to 0x7F
	EFFECT INSERT1	SW ON : 0x9n / SW OFF : 0x8n	0x11	SW ON : 0x40 / SW OFF : 0x00
	EFFECT INSERT2	SW ON : 0x9n / SW OFF : 0x8n	0x12	SW ON : 0x40 / SW OFF : 0x00

	Items	MIDI command		
		Command	Number	Value
EFFECT1	BEAT UP	SW ON : 0x9n / SW OFF : 0x8n	0x16	SW ON : 0x40 / SW OFF : 0x00
	BEAT DOWN	SW ON : 0x9n / SW OFF : 0x8n	0x17	SW ON : 0x40 / SW OFF : 0x00
	TAP	SW ON : 0x9n / SW OFF : 0x8n	0x18	SW ON : 0x40 / SW OFF : 0x00
	TIME	SW ON : 0x9n / SW OFF : 0x8n	0x19	SW ON : 0x40 / SW OFF : 0x00
	CUE	SW ON : 0x9n / SW OFF : 0x8n	0x1A	SW ON : 0x40 / SW OFF : 0x00
	EFFECT SELECT KNOB SW	SW ON : 0x9n / SW OFF : 0x8n	0x1B	SW ON : 0x40 / SW OFF : 0x00
	PARAMETER SW	SW ON : 0x9n / SW OFF : 0x8n	0x1C	SW ON : 0x40 / SW OFF : 0x00
	EFFECT ON/OFF	SW ON : 0x9n / SW OFF : 0x8n	0x1D	SW ON : 0x40 / SW OFF : 0x00
	EFFECT SELECT KNOB	0xBn	0x44	Increment 0x00 Decrement 0x7F
	PARAMETER VR	0xBn	0x1C	0x00 to 0x7F
DRY/WET VR	0xBn	0x1D	0x00 to 0x7F	
EFFECT2	BEAT UP	SW ON : 0x9n / SW OFF : 0x8n	0x1E	SW ON : 0x40 / SW OFF : 0x00
	BEAT DOWN	SW ON : 0x9n / SW OFF : 0x8n	0x1F	SW ON : 0x40 / SW OFF : 0x00
	TAP	SW ON : 0x9n / SW OFF : 0x8n	0x20	SW ON : 0x40 / SW OFF : 0x00
	TIME	SW ON : 0x9n / SW OFF : 0x8n	0x21	SW ON : 0x40 / SW OFF : 0x00
	CUE	SW ON : 0x9n / SW OFF : 0x8n	0x22	SW ON : 0x40 / SW OFF : 0x00
	EFFECT SELECT KNOB SW	SW ON : 0x9n / SW OFF : 0x8n	0x23	SW ON : 0x40 / SW OFF : 0x00
	PARAMETER SW	SW ON : 0x9n / SW OFF : 0x8n	0x24	SW ON : 0x40 / SW OFF : 0x00
	EFFECT ON/OFF	SW ON : 0x9n / SW OFF : 0x8n	0x25	SW ON : 0x40 / SW OFF : 0x00
	EFFECT SELECT KNOB	0xBn	0x45	Increment 0x00 Decrement 0x7F
	PARAMETER VR	0xBn	0x1E	0x00 to 0x7F
DRY/WET VR	0xBn	0x1F	0x00 to 0x7F	
MIC/PHONES	MIC EQ HIGH VR	0xBn	0x21	0x00 to 0x7F
	MIC EQ LOW VR	0xBn	0x22	0x00 to 0x7F
	MIC SEND LEVEL VR	0xBn	0x23	0x00 to 0x7F
	MIC1 ON/OFF	SW ON : 0x9n / SW OFF : 0x8n	0x26	SW ON : 0x40 / SW OFF : 0x00
	MIC2 ON/OFF	SW ON : 0x9n / SW OFF : 0x8n	0x27	SW ON : 0x40 / SW OFF : 0x00
	MIC EFFECT INSERT1	SW ON : 0x9n / SW OFF : 0x8n	0x28	SW ON : 0x40 / SW OFF : 0x00
	MIC EFFECT INSERT2	SW ON : 0x9n / SW OFF : 0x8n	0x29	SW ON : 0x40 / SW OFF : 0x00
	DUCKING	SW ON : 0x9n / SW OFF : 0x8n	0x2A	SW ON : 0x40 / SW OFF : 0x00
Others	Utility mode	0xBn	0x4A	Utility mode on : 0x7F Utility mode off : 0x00

* n=MIDI CH

Receive commands

	Items	MIDI command		
		Command	Number	Value
	LED	0xBn	↑	
CH1	Level Meter -40dB		ON TRG : 0x50 OFF TRG : 0x51	0x01
	Level Meter -30dB		↑	0x02
	Level Meter -20dB		↑	0x03
	Level Meter -15dB		↑	0x04
	Level Meter -10dB		↑	0x05
	Level Meter -7dB		↑	0x06
	Level Meter -4dB		↑	0x07
	Level Meter -2dB		↑	0x08
	Level Meter -1dB		↑	0x09
	Level Meter 0dB		↑	0x0A
	Level Meter 1dB		↑	0x0B
	Level Meter 2dB		↑	0x0C
	Level Meter 4dB		↑	0x0D
	Level Meter 7dB		↑	0x0E
	Level Meter 10dB		↑	0x0F
	Level Meter PEAK		↑	0x10
CH2	Level Meter -40dB		↑	0x11
	Level Meter -30dB		↑	0x12
	Level Meter -20dB		↑	0x13
	Level Meter -15dB		↑	0x14
	Level Meter -10dB		↑	0x15
	Level Meter -7dB		↑	0x16
	Level Meter -4dB		↑	0x17
	Level Meter -2dB		↑	0x18
	Level Meter -1dB		↑	0x19
	Level Meter 0dB		↑	0x1A
	Level Meter 1dB		↑	0x1B
	Level Meter 2dB		↑	0x1C
	Level Meter 4dB		↑	0x1D
	Level Meter 7dB		↑	0x1E
	Level Meter 10dB		↑	0x1F
	Level Meter PEAK		↑	0x20
CH3	Level Meter -40dB		↑	0x21
	Level Meter -30dB		↑	0x22
	Level Meter -20dB		↑	0x23
	Level Meter -15dB		↑	0x24
	Level Meter -10dB		↑	0x25
	Level Meter -7dB		↑	0x26
	Level Meter -4dB		↑	0x27
	Level Meter -2dB		↑	0x28
	Level Meter -1dB		↑	0x29
	Level Meter 0dB		↑	0x2A
	Level Meter 1dB		↑	0x2B
	Level Meter 2dB		↑	0x2C
	Level Meter 4dB		↑	0x2D
	Level Meter 7dB		↑	0x2E
	Level Meter 10dB		↑	0x2F
	Level Meter PEAK		↑	0x30

	Items	MIDI command		
		Command	Number	Value
	LED	0xBn	↑	
CH4	Level Meter -40dB		↑	0x31
	Level Meter -30dB		↑	0x32
	Level Meter -20dB		↑	0x33
	Level Meter -15dB		↑	0x34
	Level Meter -10dB		↑	0x35
	Level Meter -7dB		↑	0x36
	Level Meter -4dB		↑	0x37
	Level Meter -2dB		↑	0x38
	Level Meter -1dB		↑	0x39
	Level Meter 0dB		↑	0x3A
	Level Meter 1dB		↑	0x3B
	Level Meter 2dB		↑	0x3C
	Level Meter 4dB		↑	0x3D
	Level Meter 7dB		↑	0x3E
	Level Meter 10dB		↑	0x3F
	Level Meter PEAK		↑	0x40
CH1	EFX SEND1		↑	0x41
	EFX SEND1 Dimmer		↑	0x42
	EFX SEND2		↑	0x43
	EFX SEND2 Dimmer		↑	0x44
	CUE		↑	0x45
	CUE Dimmer		↑	0x46
CH2	EFX SEND1		↑	0x47
	EFX SEND1 Dimmer		↑	0x48
	EFX SEND2		↑	0x49
	EFX SEND2 Dimmer		↑	0x4A
	CUE		↑	0x4B
	CUE Dimmer		↑	0x4C
CH3	EFX SEND1		↑	0x4D
	EFX SEND1 Dimmer		↑	0x4E
	EFX SEND2		↑	0x4F
	EFX SEND2 Dimmer		↑	0x50
	CUE		↑	0x51
	CUE Dimmer		↑	0x52
CH4	EFX SEND1		↑	0x53
	EFX SEND1 Dimmer		↑	0x54
	EFX SEND2		↑	0x55
	EFX SEND2 Dimmer		↑	0x56
	CUE		↑	0x57
	CUE Dimmer		↑	0x58

* n=MIDI CH

Utility settings

Utility operations

In the Utility mode, the preset data inside the device can be set.



1 Press the **UTILITY/–USB A/USB B** button. The utility screen now appears.

2 Using the **EFFECT SELECT2** control, select the item, and press the control to enter the selection. When the selection is entered, the items and data are switched using the hierarchy shown in the table below. To go back to the selection, press the **BACK** button. Operation then returns to the previous screen.

3 In the Utility mode, press the **UTILITY/–USB A/USB B** button to turn off the Utility mode. The data which has been set is now stored in the internal memory.

Preset Items and Data

Category	Item	Parameter	Value	Default Settings	
1 Audio Setting	1 Master Setting	1 MONO	ON / OFF	OFF	
	2 Mic Setting	1 Ducking Level		-20dB to -40dB	-30dB
		2 Ducking Response		Fast / Normal	Normal
		3 Mic EQ	1 Hi 2 Low 3 Default	1kHz to 4kHz 500Hz to 2kHz	2kHz 1kHz
	3 Isolator EQ	4 Mic to Booth/Rec		ON / OFF	OFF
		1 X.Over Hi		1kHz to 8kHz	2kHz
		2 X.Over Low		100Hz to 800Hz	360Hz
	3 Default			-	
	4 Cue Setting	1 Cue Mode *1		CUE (Mix) / Solo	CUE (Mix)
	5 Head Phones EQ	1 EQ Hi		-15dB to +15dB	0dB
2 EQ Low			-15dB to +15dB	0dB	
3 Default				-	
6 EFX Send/Rtn	1 Unity Level Select		-10dBV / 0dBV	-10dBV	
7 USB Audio Setting	1 OutputSourceSelect	1 USB1 / USB2	Non, CH1, CH2, CH3, CH4, Master, Rec, Mic	Master	
		2 USB3 / USB4		Mic	
		3 USB5 / USB6		CH2	
		4 USB7 / USB8		CH3	
	2 Output Level VR		-20dB to +20dB	0dB	
	3 Input Source Select	1 CH1	USB1/2 / DVS	USB1/2	
		2 CH2	USB3/4 / DVS	USB3/4	
		3 CH3	USB5/6 / DVS	USB5/6	
		4 CH4	USB7/8 / DVS	USB7/8	
	4 CH Input Level VR		-20dB to +20dB	-6dB	
5 Mas Input Level VR		-20dB to +20dB	-6dB		
6 Cue Input Level VR		-20dB to +20dB	-6dB		
8 Digital I/O Setting	1 Digital Output VR		-20dB to +20dB	0dB	
	2 Digital Input Level	CH1	-2dB / -8dB / -14dB	-8dB	
		CH2	-2dB / -8dB / -14dB	-8dB	
		CH3	-2dB / -8dB / -14dB	-8dB	
CH4		-2dB / -8dB / -14dB	-8dB		
9 X-Fader Setting	1 A Side Cut Position *2		-2.0mm to +8.0mm	0.0mm	
	2 B Side Cut Position *2		-2.0mm to +8.0mm	0.0mm	
10 Beat Breaker Setting			1 to 5	1	
11 Parameters Filter Setting	1 OFF Filter		Isolator Filter / Crossover Filter / Through	Crossover Filter	
	2 ON Filter		Isolator Filter / Crossover Filter / Through	Isolator Filter	
2 System Setting	1 Sampling Frequency		44.1KHz / 48KHz / 96KHz	96kHz	
	2 Display Brightness		1 to 40	27	
	3 Display Backlight		1 to 25	5	
	4 Display Contrast		1 to 16	15	
	5 PC/MAC*3		PC Mode / MAC Mode	PC Mode	
	6 Version(SYS)		XXXX	-	
3 MIDI Setting	1 MIDI INPUT CH		1 to 16, OMNI	1	
	2 MIDI OUTPUT CH		1 to 16	1	
	3 MIDI Output Enable	1 5Pin		ON / OFF	ON
		2 USB		ON / OFF	ON
	4 MIDI CLK	1 5Pin		ON / OFF	ON
		2 USB		ON / OFF	ON
	5 V-LINK	1 Model		V-4 / V-8	V-4
		2 Device ID		0x00 to 0x1F	0x10
		3 Cross Fader Contour		ON / OFF	OFF
		4 Cross Fader			
5 Beat					
6 Parameter			Enable / Disable	Enable	
7 DRY/WET					
8 EFX Button					
6 MIDI Layer Mode		MIDI Combine / MIDI Divide	MIDI Combine		
4 Other Setting	1 Preset Export		Exit / Execute*4	Exit	
	2 DN-X1700 Initialize		Exit / Execute*5	Exit	
5 Owner Setting	1 Display only				

*1 When SOLO is selected as the CUE mode setting, only one of the two CUE buttons, whichever was pressed last, becomes operational.

*2 The cut-off position of the Crossfader can be adjusted separately for each side.

*3 When the unit is connected to a computer which runs Windows XP, Vista or a similar operating system, select the PC Mode.

When it is connected to a computer which runs Mac OSX or a similar operating system, select the MAC Mode.

*4 The settings for these Preset and the Owner mode settings can be stored on an external USB memory or other memory device.

*5 The settings for these Preset are set to the factory settings.

Owner Setting Mode

When the **POWER** switch is set to the ON position while the **UTILITY/–USB A/USB B** button is held down, the Owner Setting mode is established, and the settings listed below can be selected.

To release the Owner Setting mode, set the **POWER** switch to the OFF position.

Parameter	Value	Default
1. Limiter	OFF / ON	OFF
2. Limiter Threshold	20dB to 10dB	20dB
3. Digital Output FS	INT / 44.1kHz / 48kHz / 96kHz	44.1kHz
4. Power ON USB Mode	USB A / USB B	USB B
5. Master/Booth Level	0dB / +10dB	0dB
6. Preset Import	Exit / Execute*1	-
7. DN-X1700 Initialize	Exit / Execute*2	-

*1: Using the Preset stored externally, the internal memory is updated, and the settings are reflected in the device.

*2: All the Owner settings and Preset are set to the factory settings.

Preset Export

1 Connect the USB memory device to the unit and, using the Utility settings, execute Preset Export.

2 The Preset statuses are written into the USB memory device.

* If the export file already exists, a screen prompting the user to verify whether the file is to be overwritten appears.

Preset Recall

1 Insert the USB memory device with the export files into the DN-X1700 or turn on the unit's power with the device already inserted.

2 A screen prompting the user to verify whether the presets are to be called appears.

3 When OK is selected, the preset Audio Setting and MIDI Setting of the export file are called. (The preset information stored inside the DN-X1700 is not updated.)

4 When the USB memory device is ejected, a screen prompting the user to verify whether to return to the status before the presets were called appears. (Cancel cannot be selected.)

5 When OK is selected, the presets are restored to the status before they were called.

* After the presets are called, they are retained while the unit remains connected to the computer even if the USB B mode is selected.

Preset Import

1 In the Owner Setting mode, insert the USB memory device with the export files into the DN-X1700 or establish the Owner Setting mode with the device already inserted.

2 A screen prompting the user to verify whether the preset memory is to be updated appears.

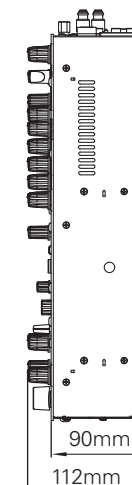
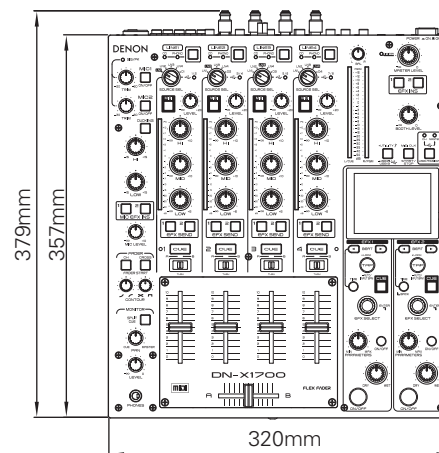
3 When OK is selected, the contents of the preset memory are updated to the contents of the export files.

* Bear in mind that the data prior to the updating will not be retained.

Specifications

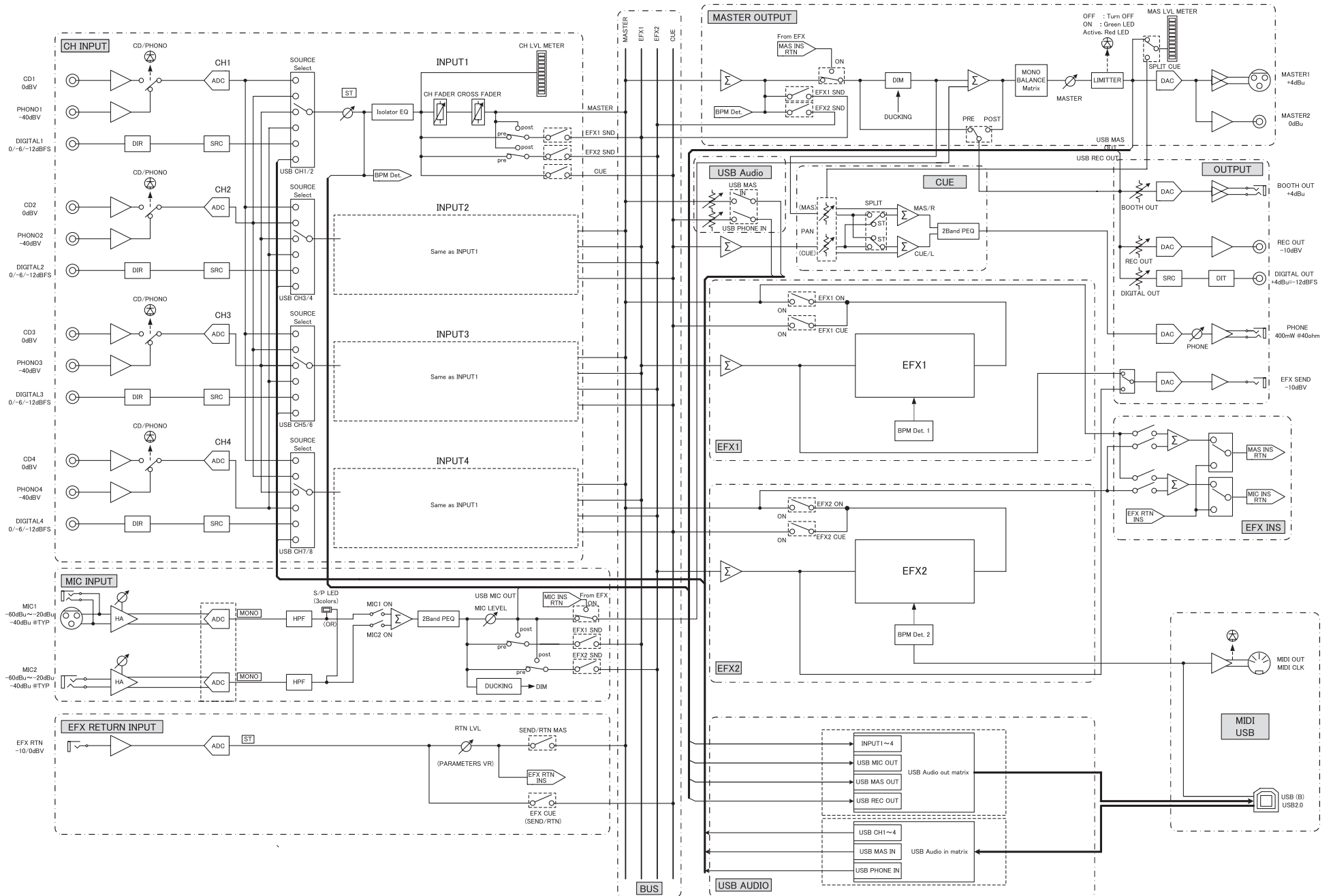
<input type="checkbox"/> AUDIO		(0 dBu = 0.775 Vrms, 0 dBV = 1 Vrms)
• PHONO inputs	Stereo x 4	Unbalanced RCA terminal
Input impedance:	47 k Ω /kohms	
Level:	-40 dBV (10 mV)	
• CD inputs	Stereo x 4	Unbalanced RCA terminal
Input impedance:	10 k Ω /kohms	
Level:	0 dBV	
• Equalizer (LINE)	Band x 3	
Channel equalization adjustment range:		
	HI: $-\infty$, -90 dB to +10 dB	
	MID: $-\infty$, -90 dB to +10 dB	
	LOW: $-\infty$, -90 dB to +6 dB	
• RETURN inputs	Monaural x 2	1/4" TS terminal
Input impedance:	10 k Ω /kohms	
Level:	-10dBV/0dBV (Default: -10dBV)	
• MIC inputs	Monaural x 2	
MIC1:	Balanced and unbalanced	XLR connectors and 1/4" TS terminal (1: Ground, 2: Hot, 3: Cold)
MIC2:	Balanced	1/4" TRS jack (Tip: hot, ring: cold, sleeve: ground)
Input impedance:	5 k Ω /kohms	
Level:	-60 to -20 dBu	
EIN:	Less than -127 dBu (Rs = 150 Ω /ohms)	
CMRR:	More than 80 dB (1 kHz)	
• Equalizer (MIC)	Band x 2	
Adjustment range:		
	HI: -15 to +15 dB	
	LOW: -15 to +15 dB	
• Digital coaxial inputs	Stereo RCA terminal x 4,	IEC958 Consumer (Fs: 32 kHz to 96 kHz)
• USB audio inputs	Stereo x 4 (monaural x 8)	24 bit, Fs: 44.1 kHz, 48 kHz, 96 kHz USB B
• MASTER output		
Balanced:	Stereo, balanced XLR terminal	(1: Ground, 2: Hot, 3: Cold)
DA converter:	32-bit 128x oversampling advanced multi-bit converter	
Load impedance:	More than 600 Ω /ohms	
Level:	+4dBu	
Frequency response:	20 Hz to 20 kHz (\pm 0.5 dB)	
THD:	Less than 0.05%	
Signal to Noise ratio:	100 dB	
	89 dB (Phono)	
Crosstalk:	Less than -110 dB (1 kHz)	
Unbalanced:	Stereo RCA terminal	
Load impedance:	10 k Ω /kohms	
Level:	0 dBu	
• REC output	Stereo	Unbalanced RCA terminal
Load impedance:	10 k Ω /kohms	
Level:	-10 dBV	

• BOOTH output	Stereo	Balanced 1/4" TS terminal (Tip: hot; ring: cold, sleeve: ground)
Load impedance:	More than 600 Ω /ohms	
Level:	+4 dBu	
• SEND output	Monaural x 2	Unbalanced 1/4" TS terminal
Load impedance:	10 k Ω /kohms	
Level:	-10 dBV	
• Headphones output	Stereo	
Load impedance:	40 Ω /ohms	
Level:	400 mW	
• Digital coaxial output	Stereo RCA terminal, IEC958 Consumer	(Fs: 44.1 kHz, 48 kHz, 96 kHz)
• USB audio output	Stereo x 4 (monaural x 8)	24 bit, 44.1 kHz, 48 kHz, 96 kHz USB B
<input type="checkbox"/> GENERAL		
USB MIDI I/O:	IN: 1ch, OUT: 1ch MIDI1.0, MIDI Clock	USB B
MIDI OUT:	OUT: 1ch MIDI1.0, MIDI Clock	5pin DIN
Channel level meters:	PPM 16-point LEDs from -40 to +10 dB,	peak display
Cue master level meters:	PPM 24-point LEDs from -50 to +16 dB,	peak display
Channel Fader:	60 mm Conductive Plastic Type fader	
Crossfader:	45 mm FLEX Fader (Fader Torque Adjustable)	
Dimensions:	320(W) x 357(D) x 90(H) mm	
Weight:	7.6 Kg	
Supply voltage:	AC 120 V, 60 Hz (U.S.A. and Canada models)	AC 230 V, 50 Hz (European models)
Power consumption:	43 W	
Operational temperature:	+5°C to +35°C	
Operational humidity:	25% to 85%	
Storage temperature:	-20°C to +60°C	



Unit: mm

Block Diagram



Troubleshooting

- ❑ **Are all the parts connected properly?**
- ❑ **Have the operations been performed properly according to the owner's manual?**
- ❑ **Are the amplifier and speakers operating properly?**

If the unit fails to operate properly, check out the remedial action in the table below according to the symptoms present, and see if this fixes the problem. Types of trouble which are not described in the table below may indicate trouble in the unit itself so consult with your dealer from whom you purchased the unit. If your dealer does not know what action to take, contact one of our customer service centers or your nearest repair service center.

Symptom	Cause	Remedy	Page
The power fails to turn on.	<ul style="list-style-type: none"> • The AC power cable is not connected to the power outlet. 	<ul style="list-style-type: none"> • Connect the AC power cable to the power outlet. 	7
No sound is heard or the volume level is low.	<ul style="list-style-type: none"> • One or more of the connecting cables have not been connected properly. • The SOURCE SEL LN1/LN2/LN3/LN4/D1-4/USB controls have not been set to the correct positions. 	<ul style="list-style-type: none"> • Check the cable connections. • Set the SOURCE SEL LN1/LN2/LN3/LN4/D1-4/USB controls to the position which corresponds to the component now playing. 	7 3
	<ul style="list-style-type: none"> • The ducking function of the microphone has been activated. 	<ul style="list-style-type: none"> • Set the DUCKING ON/OFF button to the OFF position. 	3
The sound is distorted.	<ul style="list-style-type: none"> • The master output audio level is too high. • The input level is too high. 	<ul style="list-style-type: none"> • Adjust the MASTER LEVEL control. 	3
		<ul style="list-style-type: none"> • Adjust the channel input LEVEL controls. 	3
The fader start of the CD player cannot be initiated.	<ul style="list-style-type: none"> • One or more of the connecting cables have not been connected properly. • The CH FADER START switch and CROSSFADER START switch have not been set to the ON position. 	<ul style="list-style-type: none"> • Connect the CD player to the unit using the stereo mini jacks. 	7
		<ul style="list-style-type: none"> • Set the CH FADER START switch and CROSSFADER START switch to the ON position. 	3

- ❑ **DN-X1700 does not operate normally or no sound is produced**
 - **Are the USB cable, audio cables, etc., properly connected?**
 - **Is the volume setting for the source, audio device, application, OS, etc., properly raised?**
 - **Is the appropriate device selected on your audio application?**
 - **Is the sampling frequency setting appropriate?**
 - ➔ Either make the same settings in the DN-X1700's preset mode and on the application.
 - **Are there WAV files with different sampling frequencies and bit rates?**
 - ➔ Depending on your audio application, it may not be possible to play WAV files with different sampling frequencies and bit rates simultaneously.
 - **Is other USB equipment in use?**
 - ➔ If other USB devices are connected, try connecting only DN-X1700 to check for problems.
 - **Is the USB connector of the connected computer compatible with USB 2.0 (Hi-Speed)?**
 - ➔ Use a USB 2.0-compatible cable.
- ❑ **Sound is broken or distorted**
 - **Are other applications or device drivers operating?**
 - ➔ Close any unneeded applications.
 - **Are you playing multiple WAV files?**
 - ➔ When playing multiple WAV files simultaneously, depending on the capacity of your computer, the sound may be broken.



D&M Holdings Inc.

TOKYO, JAPAN
www.d-mpro.com