DENON
PROFESSIONAL

NETWORK AUDIO PLAYER

DN-700H

Owner's Manual

Bedienungsanleitung

Manuel de l'Utilisateur

Manual del usuario

CAUTION

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.

CAUTION:

USE OF CONTROLS OR ADJUSTMENTS OR REFOR-MANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

IMPORTANT TO SAFETY

WARNING:
To reduce the risk of fire and electric shock, this apparatus should not be exposed to rain or moisture and objects filled with liquids, such as vases, should not be placed on this apparatus.

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 rear 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 system.
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-700H
Serial No. _____

FCC Information
(For US customers)

1. COMPLIANCE INFORMATION
Product Name: Network Audio Player
Model Number: DN-700H
This product contains FCC ID: PPQ-CR8702G.
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.

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1100 Maplewood Drive Itasca, IL 60143
Tel. 630-741-0330

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. CAUTION
• To comply with FCC RF exposure compliance requirement, separation distance of at least 20 cm must be maintained between the antenna of this product and all persons.
• This product and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter.

4. 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.

For Canadian customers:
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.

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 manufacturer's instructions.

8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

11. 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. Batteries shall not be exposed to excessive heat such as sunshine, fire or the like.

Additional Safety Information!

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.

CAUTION: **(English)**
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.
Do not expose batteries to excessive heat such as sunshine, fire or the like.

VORSICHT: **(Deutsch)**
Um dieses Gerät vollständig von der Stromversorgung abzutrennen, trennen Sie bitte den Netzstecker von der Wandsteckdose ab.
Die Hauptstecker werden verwendet, um die Stromversorgung zum Gerät völlig zu unterbrechen; er muss für den Benutzer gut und einfach zu erreichen sein.
Setzen Sie Batterien nicht übermäßiger Wärme aus, z. B. Sonnenstrahlung, Feuer oder dergleichen.

PRECAUTION: **(Français)**
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.
N'exposez pas les batteries à une chaleur excessive telle que le soleil, le feu ou autre.

ATTENZIONE: **(Italiano)**
Per scollegare definitivamente questo prodotto dalla rete di alimentazione elettrica, togliere la spina dalla relativa presa.
La spina di rete viene utilizzata per interrompere completamente l'alimentazione all'unità e deve essere facilmente accessibile all'utente.
Non esporre le batterie a un calore eccessivo, per esempio al sole, al fuoco o altre fonti.

PRECAUCIÓN: **(Español)**
Para desconectar completamente este producto de la alimentación eléctrica, desconecte el enchufe del enchufe de la pared.
El enchufe de la alimentación se utiliza para interrumpir por completo el suministro de alimentación a la unidad y debe de encontrarse en un lugar al que el usuario tenga fácil acceso.
No exponga las pilas a calor excesivo, como a la luz solar, el fuego, etc.

VOORZICHTIGHEID: **(Nederlands)**
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.
Stel de batterijen niet bloot aan felle zonneschijn, brand, enzovoorts.

FÖRSIKTIHETSMÅTT: **(Svenska)**
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.
Utsätt inte batterierna för stark hetta såsom solsken, eld eller liknande.

ATENÇÃO: **(Português)**
Para desligar completamente este produto da corrente, desligue a ficha da tomada eléctrica.
A ficha eléctrica é utilizada para interromper completamente a alimentação da unidade e deve estar num local onde o utilizador lhe possa aceder facilmente.
Não exponha as pilhas a fontes de calor excessivo, como luz solar, fogo ou semelhantes.

II

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

WARNINGS	WARNHINWEISE	AVERTISSEMENTS	AVVERTENZE	ADVERTENCIAS	WAARSCHUWINGEN	VARNINGAR	AVISOS
• Avoid high temperatures. Allow for sufficient heat dispersion when installed in a rack. • Handle the power cord carefully. Hold the plug when unplugging the cord. • Keep the unit free from moisture, water, and dust. • Unplug the power cord when not using the unit for long periods of time. • Do not obstruct the ventilation holes. • Do not let foreign objects into the unit. • Do not let insecticides, benzene, and thinner come in contact with the unit. • Never disassemble or modify the unit in any way. • Ventilation should not be impeded by covering the ventilation openings with items, such as newspapers, tablecloths or curtains. • Naked flame sources such as lighted candles should not 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. • Do not handle the mains cord with wet hands. • When the switch is in the OFF (STANDBY) position, the equipment is not completely switched off from MAINS. • The equipment shall be installed near the power supply so that the power supply is easily accessible.	• Vermeiden Sie hohe Temperaturen. Beachten Sie, dass eine ausreichende Belüftung gewährleistet wird, wenn das Gerät auf ein Regal gestellt wird. • Gehen Sie vorsichtig mit dem Netzkabel um. Halten Sie das Kabel am Stecker, wenn Sie den Stecker herausziehen. • Halten Sie das Gerät von Feuchtigkeit, Wasser und Staub fern. • Wenn das Gerät längere Zeit nicht verwendet werden soll, trennen Sie das Netzkabel vom Netzstecker. • Decken Sie den Lüftungsbereich nicht ab. • Lassen Sie keine fremden Gegenstände in das Gerät kommen. • Lassen Sie das Gerät nicht mit Insektiziden, Benzin oder Verdünnungsmitteln in Berührung kommen. • Versuchen Sie niemals das Gerät auseinander zu nehmen oder zu verändern. • 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. • Das Netzkabel nicht mit feuchten oder nassen Händen anfassen. • Wenn der Schalter ausgeschaltet ist (OFF (STANDBY)-Position), ist das Gerät nicht vollständig vom Stromnetz (MAINS) abgetrennt. • Das Gerät sollte in der Nähe einer Netzsteckdose aufgestellt werden, damit es leicht an das Stromnetz angeschlossen werden kann.	• Eviter des températures élevées. Tenir compte d'une dispersion de chaleur suffisante lors de l'installation sur une étagère. • Manipuler le cordon d'alimentation avec précaution. Tenir la prise lors du débranchement du cordon. • Protéger l'appareil contre l'humidité, l'eau et la poussière. • Débrancher le cordon d'alimentation lorsque l'appareil n'est pas utilisé pendant de longues périodes. • Ne pas obstruer les trous d'aération. • Ne pas laisser des objets étrangers dans l'appareil. • Ne pas mettre en contact des insecticides, du benzène et un diluant avec l'appareil. • Ne jamais démonter ou modifier l'appareil d'une manière ou d'une autre. • Ne pas recouvrir les orifices de ventilation avec des objets tels que des journaux, nappes ou rideaux. Cela entraverait la ventilation. • Ne jamais placer de flamme nue sur l'appareil, notamment des bougies allumées. • Veillez 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. • Ne pas manipuler le cordon d'alimentation avec les mains mouillées. • Lorsque l'interrupteur est sur la position OFF (STANDBY), l'appareil n'est pas complètement déconnecté du SECTEUR (MAINS). • L'appareil sera installé près de la source d'alimentation, de sorte que cette dernière soit facilement accessible.	• 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. • Maneggiate il cavo di alimentazione con attenzione. Tenete ferma la spina quando scollegate il cavo dalla presa. • Tenete l'unità lontana dall'umidità, dall'acqua e dalla polvere. • Scollegate il cavo di alimentazione quando prevedete di non utilizzare l'unità per un lungo periodo di tempo. • Non coprite i fori di ventilazione. • Non inserite corpi estranei all'interno dell'unità. • Assicuratevi che l'unità non entri in contatto con insetticidi, benzolo o solventi. • Non smontate né modificate l'unità in alcun modo. • Le aperture di ventilazione non devono essere ostruite coprendole con oggetti, quali giornali, tovaglie, tende e così via. • Non posizionate sull'unità fi amme 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 posizionate sull'unità alcun oggetto contenente liquidi, come ad esempio i vasi. • Non toccare il cavo di alimentazione con le mani bagnate. • Quando l'interruttore è nella posizione OFF (STANDBY), l'apparecchiatura non è completamente scollegata da MAINS. • L'apparecchio va installato in prossimità della fonte di alimentazione, in modo che quest'ultima sia facilmente accessibile.	• Evite altas temperaturas. Permite la suficiente dispersión del calor cuando está instalado en la consola. • Maneje el cordón de energía con cuidado. Sostenga el enchufe cuando desconecte el cordón de energía. • Mantenga el equipo libre de humedad, agua y polvo. • Desconecte el cordón de energía cuando no utilice el equipo por mucho tiempo. • No obstruya los orificios de ventilación. • No deje objetos extraños dentro del equipo. • No permita el contacto de insecticidas, gasolina y diluyentes con el equipo. • Nunca desarme o modifique el equipo de ninguna manera. • La ventilación no debe quedar obstruida por haberse cubierto las aperturas con objetos como periódicos, manteles o cortinas. • No deberán colocarse sobre el aparato fuentes inflamables 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 jarros. • No maneje el cable de alimentación con las manos mojadas. • Cuando el interruptor está en la posición OFF (STANDBY), el equipo no está completamente desconectado de la alimentación MAINS. • El equipo se instalará cerca de la fuente de alimentación de manera que resulte fácil acceder a ella.	• Vermijd hoge temperaturen. Zorg er bij installatie in een audiorack voor, dat de door het toestel geproduceerde warmte goed kan worden afgevoerd. • Hanteer het netsnoer voorzichtig. Houd het snoer bij de stekker vast wanneer deze moet worden aan- of losgekoppeld. • Laat geen vochtigheid, water of stof in het apparaat binnendringen. • Neem altijd het netsnoer uit het stopkontakt wanneer het apparaat gedurende een lange periode niet wordt gebruikt. • De ventilatieopeningen mogen niet worden beblokkeerd. • Laat geen vreemde voorwerpen in dit apparaat vallen. • Voorkom dat insecticiden, benzeen of verfverdunner met dit toestel in contact komen. • Dit toestel mag niet gedemonteerd of aangepast worden. • De ventilatie mag niet worden belemmerd door de ventilatieopeningen af te dekken met bijvoorbeeld kranten, een tafelkleed of gordijnen. • 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. • Raak het netsnoer niet met natte handen aan. • Als de schakelaar op OFF (STANDBY) staat, is het apparaat niet volledig losgekoppeld van de netspanning (MAINS). • De apparatuur wordt in de buurt van het stopcontact geïnstalleerd, zodat dit altijd gemakkelijk toegankelijk is.	• Undvik höga temperaturer. Se till att det finns möjlighet till god värmeavledning vid montering i ett rack. • Hantera nätkabeln varsamt. Håll i kabeln när den kopplas från el-uttaget. • Utsätt inte apparaten för fukt, vatten och damm. • Koppla loss nätkabeln om apparaten inte kommer att användas i lång tid. • Täpp inte till ventilationsöppningarna. • Se till att främmande föremål inte tränger in i apparaten. • Se till att inte insektsmedel på spraybruk, bensen och thinner kommer i kontakt med apparatens hölje. • Ta inte isär apparaten och försök inte bygga om den. • Ventilationen bör inte förhindras genom att täcka för ventilationsöppningarna med föremål såsom tidningar, bordsdukar eller gardiner. • Placera inte öppen eld, t.ex. tända ljus, 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. • Hantera inte nätsladden med våta händer. • Även om strömbrytaren står i det avstängda läget OFF (STANDBY), så är utrustningen inte helt bortkopplad från det elektriska nätet (MAINS). • Utrustningen ska vara installerad nära strömuttaget så att strömförsörjningen är lätt att tillgå.	• Evite temperaturas altas. Assegure uma suficiente dispersãodo calor quando a unidade forinstalada numa prateleira. • Manuseie o cabo de alimentaçãocom cuidado. Puxe pela ficha quando desligar ocabo de alimentação. • Mantenha a unidade afastada dahumidade, da água e do pó. • Desligue o cabo de alimentaçãoquando não estiver a utilizar aunidade por longos períodos detempo. • Não obstrua os orifícios deventilação. • Não deixe objectos estranhos dentro da unidade. • Não permita que insecticidas, benzina e diluente entrem em contacto com a unidade. • Nunca desmonte ou modifique dealguma forma a unidade. • A ventilação não deve ser obstruída, tapando as aberturas de ventilação com objectos, como jornais, toalhas ou cortinas. • Não devem ser colocadas junto à unidade fontes de chama aberta, como velas acesas. • Respeite as regulamentações locais relativas à eliminação de pilhas. • Não exponha a unidade a gotejamento ou salpicos de líquidos. • Não coloque objectos com líquidos, como jarras, em cima da unidade. • Não manuseie o cabo de alimentação com as mãos molhadas. • Quando o interruptor se encontra na posição OFF (STANDBY), o equipamento não está completamente desligado da REDE ELÉCTRICA. • O equipamento deve ser instalado junto da fonte de alimentação, para que a fonte de alimentação esteja facilmente acessível.

III

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.

Pb

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.

UMA NOTA SOBRE A RECICLAGEM:
Os materiais de embalagem deste produto são recicláveis e podem ser reutilizados. Elimine quaisquer materiais de acordo com as normas de reciclagem locais.
Quando eliminar a unidade, obedeça às regras ou normas locais.
As pilhas nunca devem ser deitadas fora ou incineradas, mas sim eliminadas de acordo com as normais locais relativas aos resíduos químicos.
Este produto e os respectivos acessórios embalados em conjunto constituem o produto aplicável de acordo com a directiva WEEE, excepto as pilhas.

V

Getting started

Connections

Basic operations

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Getting started

Thank you for purchasing this DENON Professional product. To ensure proper operation, please read these owner's manual carefully before using the product.
After reading them, be sure to keep them for future reference.

Contents

Accessories

Check that the following parts are supplied with the product.

q Owner's manual (This manual)... 1
w CD-ROM (Owner's manual) 1
e Warranty (for North America model only)................................ 1
r Power cord... 1
t Remote control unit (RC-1159).. 1
y R03/AAA batteries.. 2
u Audio cable... 1
i AM loop antenna 1
o FM indoor antenna 1

r   t

or

U.S.A. and Canada   European,U.K and
models   Asia/Pacific models

u   i   o
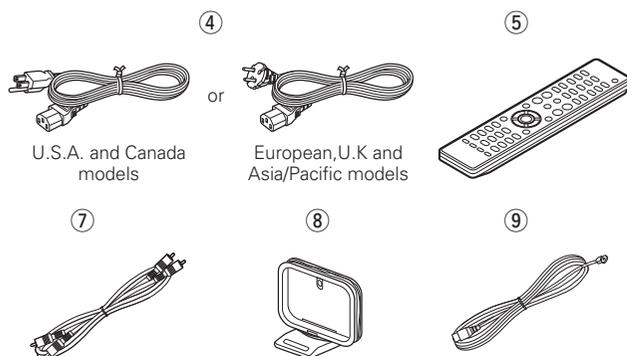
Main features

Equipped with the AirPlay® function in addition to network functions such as Internet Radio (v**page 27)**

Compatible with "Denon Remote App" for performing basic operations of the unit with an iPhone or iPod touch

Equipped with a USB port that is compatible with playback from iPhone® and iPod® (v**page 23)**

Equipped with an Audio output switch that switches off audio output to a connected external device whenever required, such as when setting the Tuner frequency etc.

Equipped with built-in speakers in the front panel for audio monitoring

Equipped with an LED navigation function that indicates the next operation with the button LEDs

**3 Lines OELD
(Organic Electroluminescence Display)**

Caution

This DN-700H incorporates an ability to play digitally streamed audio signals from all sources using internet radio formats, and is intended for use with your own internet radio stations and with third party public domain and authorized signal sources.
Certain audio streams, such as Online Music Services (Rhapsody, Pandora) may only be used if licensed and subject to restrictions preventing commercial retransmission or public performance of streamed signals.
You are required to ensure your compliance with any applicable terms or restrictions before using restricted third party signals of any type.
You are also responsible for complying with any rules or laws governing your use of Internet Radio, including copyright laws.
Information about registering and connecting to Private Radio Stations via this device is included on "Registering and receiving private radio stations" (v page 14) of this owner's manual.

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Cautions on handling

- **Before turning the power switch on**

  Check once again that all connections are correct and that there are no problems with the connection cables.

- Power is supplied to some of the circuitry even when the unit is set to the standby mode. When going on vacation or leaving home for long periods of time, be sure to unplug the power cord from the power outlet.

- **About condensation**

  If there is a major difference in temperature between the inside of the unit and its surroundings, condensation may form on parts inside the unit, causing it to fail to operate properly.

  If this happens, let the unit sit for an hour or two with the power turned off and wait until there is little difference in temperature before using the unit.

- **Cautions on using mobile phones**

  Using a mobile phone near this unit may result in noise. If that occurs, move the mobile phone away from the unit when it is in use.

- **Moving the unit**

  Turn off the power and unplug the power cord from the power outlet. Next, disconnect the cables connected to other system units before moving the unit.

- **Operable time for continuous use**

  This unit can be used continually for up to 24 hours. Continuing to use this unit for longer than 24 hours may result in operations failing to function correctly. To continue use for longer than 24 hours, restart the unit every 24 hours.

- **Rack mount cautions (Required rack specifications for mounting the DN-700H on a rack)**
  - EIA Standard 19 inch rack
  - 1U Size installation compatible rack
  - Rack that has a guide rail or shelf board that can support this device

About this manual

❏ Symbols

☞ This symbol indicates a reference page on which related information is described.

✎ This symbol indicates a supplementary information and tips for operations.

NOTE This symbol indicates points to remember operations or function limitations.

❏ Illustrations

Note that the illustrations in this manual may differ from the actual unit for explanation purposes.

Remote operation

About the remote control unit

❏ Inserting the batteries

① Remove the rear cover of the remote control unit.

② Load the two batteries properly as indicated by the marks in the battery compartment.

R03/AAA
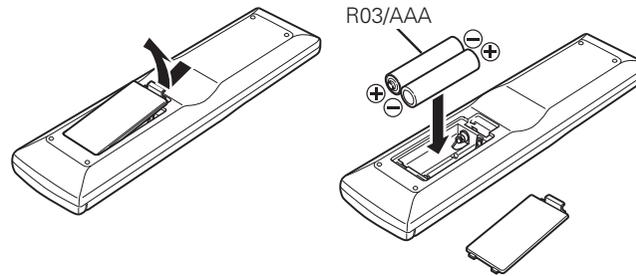
③ Put the rear cover back on.

NOTE

- Insert the specified batteries in the remote control unit.
- Replace the batteries with new ones if the set does not operate even when the remote control unit is operated close to the unit. (The supplied batteries are only for verifying operation.)
- When inserting the batteries, be sure to do so in the proper direction, following the ⊕ and ⊖ marks in the battery compartment.
- To prevent damage or leakage of battery fluid:
  - Do not use a new battery together with an old one.
  - Do not use two different types of batteries.
  - Do not attempt to charge dry batteries.
  - Do not short-circuit, disassemble, heat or dispose of batteries in flames.
  - Do not keep the battery in a place exposed to direct sunlight or in places with extremely high temperatures, such as near a heater.
- If the battery fluid should leak, carefully wipe the fluid off the inside of the battery compartment and insert new batteries.
- Remove the batteries from the remote control unit if it will not be in use for long periods.
- Used batteries should be disposed of in accordance with the local regulations regarding battery disposal.
- The remote control unit may function improperly if rechargeable batteries are used.

❏ Operating range of the remote control

Point the remote control unit at the remote sensor when operating it.

Approx. 23 ft/7 m

30° 30°
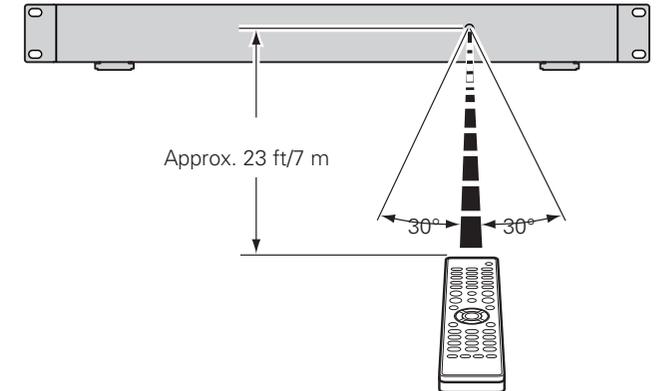
NOTE

The set may function improperly or the remote control unit may not operate if the remote control sensor is exposed to direct sunlight, strong artificial light from an inverter type fluorescent lamp or infrared light.

Denon Remote App

Denon Remote App is a unique application developed for the iPhone and iPod touch. Install the App onto your iPhone or iPod touch to control this device.

DENON:[DN-700H]

TUNER OPERATION

FM   97.30MHz

FM   AM

▲
TUNING   +
          PRESET CHANNEL

▼
TUNING   −
          PRESET CHANNEL

PRESET STATION LIST

✎

- Bidirectional communication is performed.
- The Denon Remote App can be downloaded for free from the App Store.

Connections

This section explains how to make connections for all of the supported audio signals.

- Do not plug in the power cord until all connections have been completed.
- When making connections, also refer to the owner's manual of the other components.
- Be sure to connect the left and right channels properly (left with left, right with right).
- Do not bundle power supply cords together with connection cables. Doing so can result in humming or noise.

Audio connections

Analog connections

❏ Unbalanced connection (RCA)

Cables used for connections
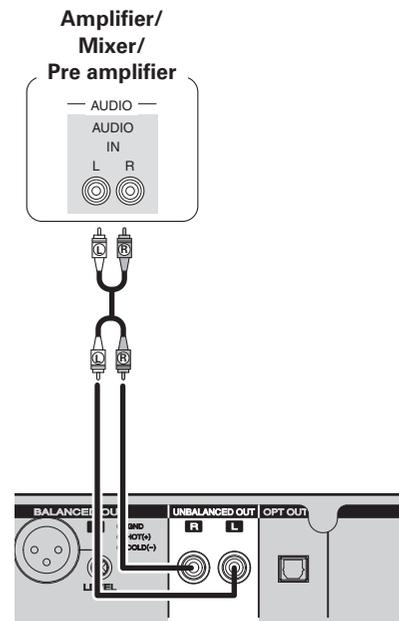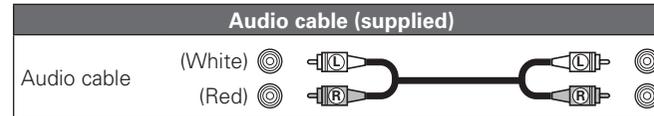
Audio cable (supplied)		
Audio cable	(White)	
	(Red)	

Amplifier/ Mixer/ Pre amplifier

NOTE

To output sound from the front speakers of this unit, turn the speaker output switch on the front panel "ON". To output sound from an external device connected to this unit, turn the OUTPUT switch on the front panel "ON". Audio is not output when the Speaker output switch or OUTPUT switch are " OFF".

❏ Balanced connection (XLR)

Cables used for connections

Audio cable (sold separately)	
Balanced cable	

Amplifier/ Mixer/ Pre amplifier
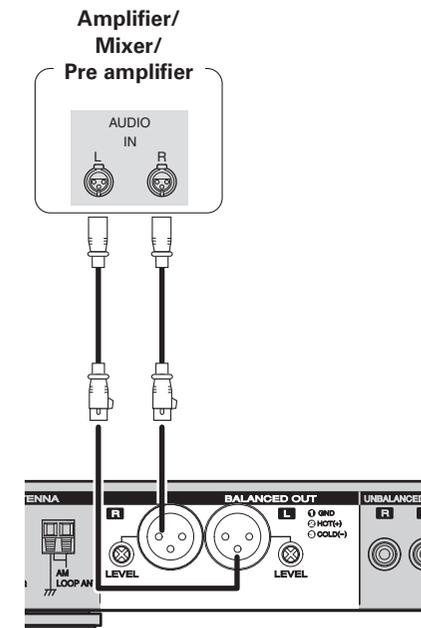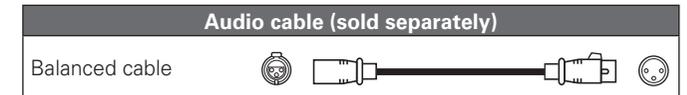
The volume level for balanced connection can be adjusted using the LEVEL knob on the rear panel.

NOTE

To output sound from the front speakers of this unit, turn the speaker output switch on the front panel "ON". To output sound from an external device connected to this unit, turn the OUTPUT switch on the front panel "ON". Audio is not output when the Speaker output switch or OUTPUT switch are " OFF".

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Digital connections

Connect digital devices such as AV receivers and D/A converters with the unit to enjoy digital audio output from the unit.
When connecting, use a commercially available optical cable.

Cables used for connections

Audio cable (sold separately)		
Optical cable	▣ ⬤▭	▭◻ ▣

**AV receivers /
D/A converters**

OPTICAL
IN

▣

OUT
◯ GND
◯ HOT(+)
◯ COLD(–)

EVEL

UNBALANCED OUT
R   L
◎   ◎

OPT OUT

LAN
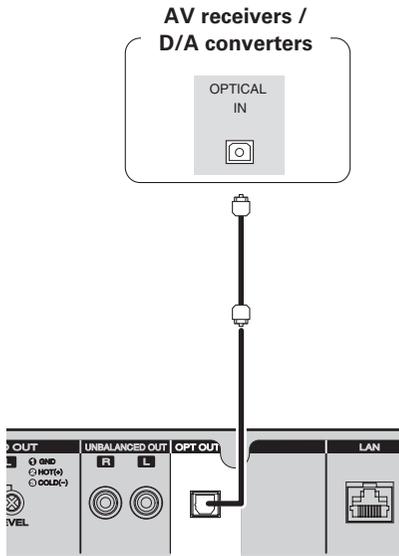
When connecting the optical digital output connector with an optical transmission cable (sold separately)
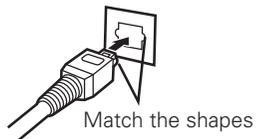
Match the shapes

Match the shapes then insert firmly.

Connecting headphones

Connect the headphones to the headphone jack (PHONES).

DENON
PROFESSIONAL
MIN LEVEL MAX
OPT
SPEAKER
ON/STANDBY
PHONES
dlna
CERTIFIED

🖊
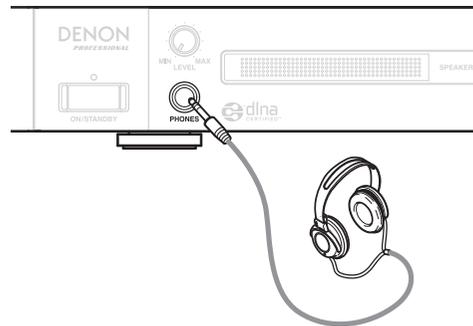
When you press the headphone/front speaker volume adjustment switch (LEVEL), the switch will spring out. After adjusting the volume, press the switch back in again.

NOTE

To prevent hearing loss, do not raise the volume level excessively when using headphones.

Connecting an External control device

Connect an external control device or other device for servicing. (Use a RS-232C straight cable with a 9-pin D-sub connector for the connection.)
RS-232C control allows you to perform external control from the host.
For details on RS232C control, see "RS-232C control" (vpage 40).

External control device

AN   RS232C

5
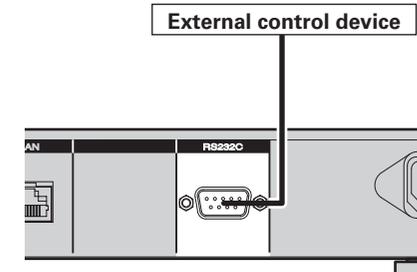
Connecting an antenna

• Connect the FM antenna or AM loop antenna supplied with the unit to enjoy listening to radio broadcasts.
• After connecting the antenna and receiving a broadcast signal (☞page 20 "Listening to FM/AM broadcasts"), fix the antenna with tape in a position where the noise level becomes minimal.
• When listening to radio stations, always make analog connections (☞page 4 "Analog connections").

Direction of broadcasting station

FM outdoor antenna

75 Ω coaxial cable

FM indoor antenna (Supplied)

AM loop antenna (Supplied)

Black   White

ANTENNA

FM COAX. 75Ω   AM LOOP ANT.   LEVEL

BALANCE

① ② ③

Ground   AM outdoor antenna
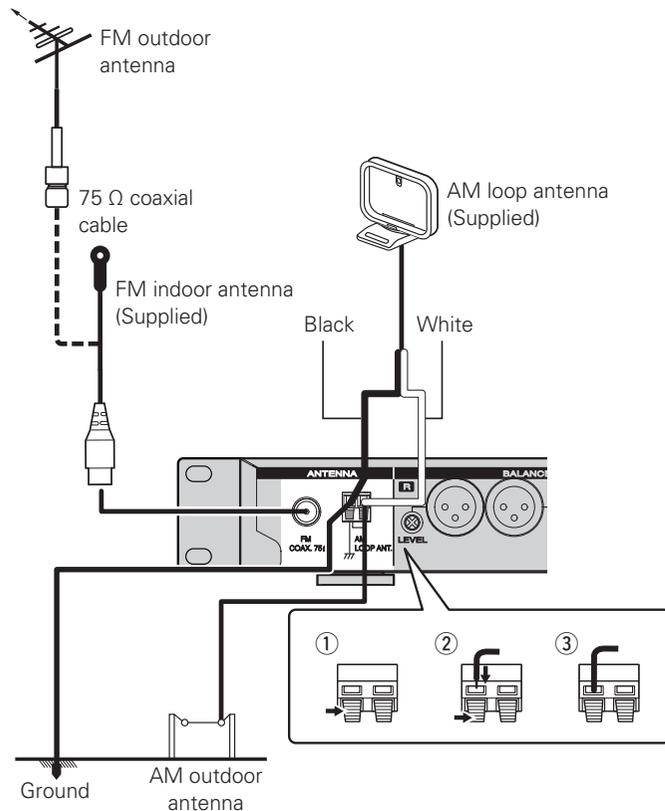
❏ AM loop antenna assembly

1 **Put the stand section through the bottom of the loop antenna from the rear and bend it forward.**

Stand
Square hole

Loop antenna   Projecting part

2 **Insert the projecting part into the square hole in the stand.**
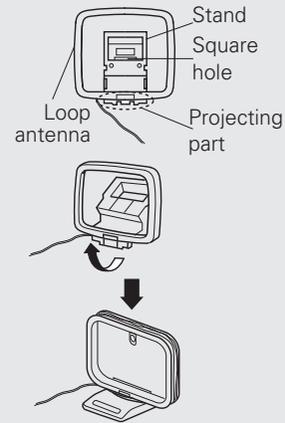
❏ Using the AM loop antenna

Suspending on a wall

Suspend directly on a wall without assembling.

Nail, tack, etc.

Standing alone

Use the procedure shown above to assemble.
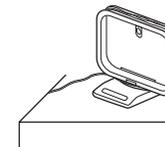
NOTE

• Do not connect two FM antennas simultaneously.
• Even if an external AM antenna is used, do not disconnect the AM loop antenna.
• Make sure the AM loop antenna lead terminals do not touch metal parts of the panel.
• If the signal has noise interference, connect the ground terminal (GND) to reduce noise.
• If you are unable to receive a good broadcast signal, we recommend installing an outdoor antenna. For details, inquire at the retail store where you purchased the unit.

Connecting to a network (LAN)

• This unit lets you play via your network (LAN) music files stored on a computer and music content such as that from Internet radio.
• You can update by downloading the latest firmware from the D&M Professional website.
 For more information, see "Firmware Update" (☞page 34).
• See "Setting the network [Network]" (☞page 29) for more information on network setting.

Cables used for connections

Cable (sold separately)
Ethernet cable

Computer

Modem

Internet

Router

To WAN side

To LAN port

To LAN port

LAN port/ Ethernet connector

OUT | OPT OUT   LAN   RS232C
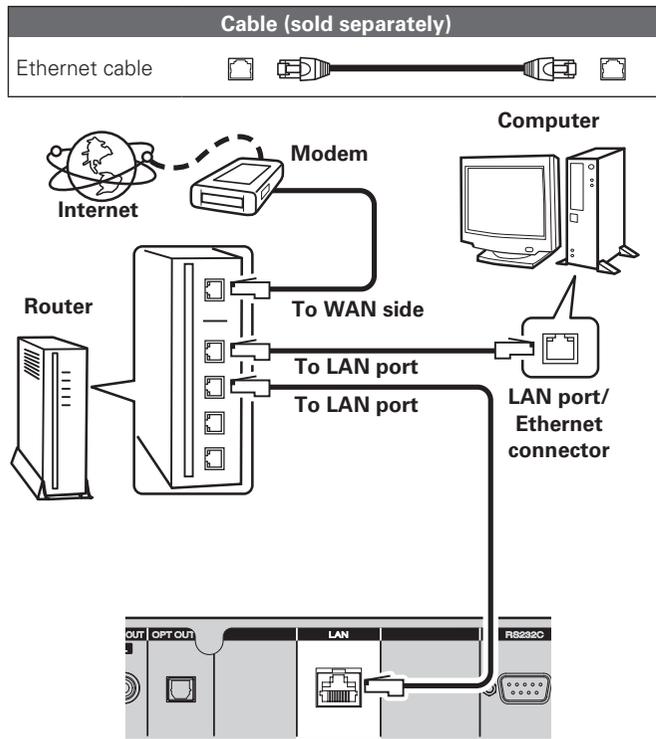
For connections to the Internet, contact an ISP (Internet Service Provider) or a computer shop.

Required system

❏ Broadband internet connection

❏ Modem
Device that connects to the broadband circuit and conducts communications on the Internet.
A type that is integrated with a router is also available.

❏ Router
When using this unit, we recommend you use a router equipped with the following functions:
• Built-in DHCP server
 This function automatically assigns IP addresses on the LAN.
• Built-in 100BASE-TX switch
 When connecting multiple devices, we recommend a switching hub with a speed of 100 Mbps or greater.

❏ PC
• Windows XP Service Pack2
• Windows Vista
• Windows 7
 • 1 GHz processor or higher
  (32 bit or 64 bit Intel or AMD processor etc.)

❏ Internet browser
Microsoft Internet Explorer 6.0 or higher

❏ Ethernet cable (CAT-5 or greater recommended)
• Use only a shielded STP or ScTP LAN cable which is available at retailer.
• Some flat type Ethernet cables are easily affected by noise.
 We recommend using a normal type cable.

✐

• If you have an Internet provider contract for a line on which network settings are made manually, make the settings at "Network connecting (when "DHCP" settings are "Off")" (☞page 29).
• With this unit, it is possible to use the DHCP and Auto IP functions to make the network settings automatically.
• When using this unit with the broadband router's DHCP function enabled, this unit automatically performs the IP address setting and other settings.
 When using this unit connected to a network with no DHCP function, make the settings for the IP address, etc., at "Network connecting (when "DHCP" settings are "Off")" (☞page 29).
• When setting manually, check the setting contents with the network administrator.

NOTE
• A contract with an ISP is required to connect to the Internet.
• No additional contract is needed if you already have a broadband connection to the Internet.
• The types of routers that can be used depend on the ISP. Contact an ISP or a computer shop for details.
• Depending on the condition of your Internet connection, the sound may cut out during playback, or operations may become unstable.
• D&M Professional assumes no responsibility whatsoever for any communication errors or troubles resulting from customer's network environment or connected devices.
• This unit is not compatible with PPPoE. A PPPoE-compatible router is required if you have a contract for a type of line set by PPPoE.
• Do not connect an LAN connector directly to the LAN port/ Ethernet connector on your computer.
• To listen to audio streaming, use a router that supports audio streaming.
• If you cannot connect to Internet radio or a music server, your Internet connection may have network security restrictions. Contact your network administrator.

Connecting the power cord

When all of the connections are completed, insert the power plug into the power outlet.

To household power outlet (AC 120 V, 60 Hz)
(U.S.A and Canada models)

or

Power cord
(Supplied)

To household power outlet (AC 230 V, 50/60 Hz)
(European,U.K and Asia/Pacific models)
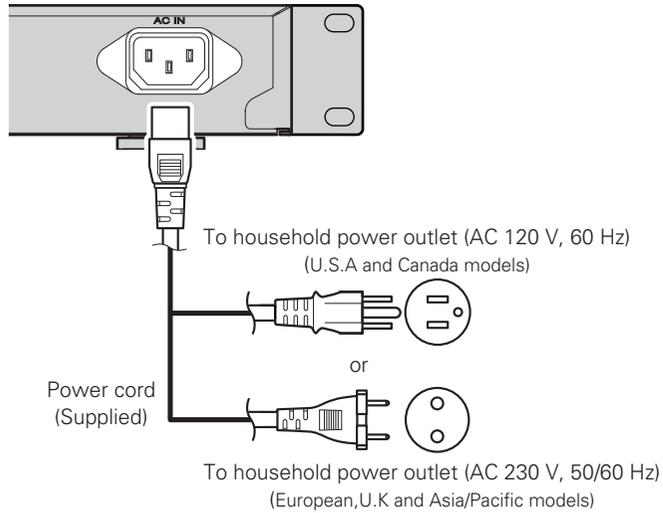
NOTE

• Only use the supplied power cord.

• Be sure the power cord is unplugged from the power outlet before connecting or disconnecting it to the AC inlet.

Basic operations

☞ Symbols used to indicate buttons in this manual

Button located on both the main unit and the remote control
→ **BUTTON**
Button only on the main unit → **<BUTTON>**
Button only on the remote control → **[BUTTON]**

<SOURCE> △▽ ▷

ON/STANDBY　　　　　　　　　**<►/ll ENTER>**

[INTERNET RADIO]
[USB/iPod]
[FAVORITE]　　　　　　　　　　**ON/STANDBY**
[ONLINE MUSIC]　　　　　　　　**[MUSIC SERVER]**
　　　　　　　　　　　　　　　　　[TUNER]

△▽ ▷

[SEARCH]

[DIMMER]
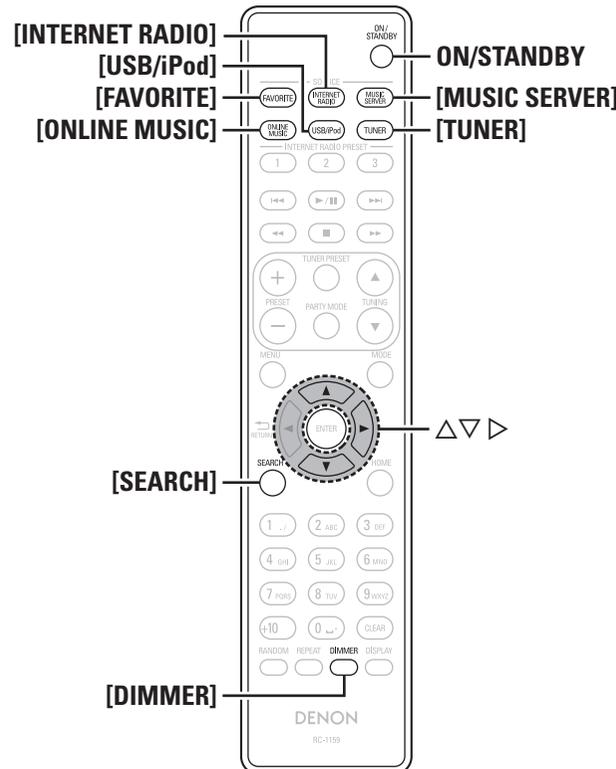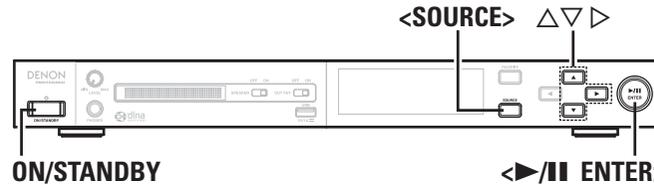
This section provides information on basic operations such as settings and playback procedures.
For other operations, see the sections below.

❏ **Setting the others [Other]** (℀page 32)

Preparations

Turning the power on

Press ON/STANDBY.
The DENON PROFESSIONAL logo on the front panel lights blue and the power turns on.

✎

• When you turn on the power of this unit for the first time after purchasing it, the "Network First Setup" menu starts up. For details on "Network First Setup" operations, see ℀page 10.

• If you cancelled "Network First Setup" menu or changed the network environment, perform "Menu" – "Network" – "Network First Setup".

Turning the power to standby mode

Press ON/STANDBY.
The unit enters standby mode.
• Power indicator
Standby ....Red
Network standby.....................Orange
Auto standby...........................Off

NOTE

Power continues to be supplied to some of the circuitry even when the power is in the standby mode. When leaving home for long periods of time, either press **ON/STANDBY** to turn off the power, or unplug the power cord from the power outlet.

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Preparations

❏ Completely turning off the power

Unplug the power cord from the wall outlet.

NOTE

The settings made for the various functions may be cleared if the power cord is left unplugged from a power outlet for an extended period of time.

Operations possible during playback

Selecting the input source

❏ Selecting the input source using unit operations

1 **Press <SOURCE>.**
The display changes to the input source selection screen.

2 **Press △▽ to select the input source, then press <▶/Ⅱ ENTER> or ▷.**
The input source is switched each time the button is pressed.

Internet Radio → Music Server → USB/iPod → FM → AM

Menu ← Favorite ← Rhapsody* ← Pandora®*

∗ U.S.A. and Canada models only.

With the unit, you can play back music files stored on your iPhone/ iPod touch and music from iTunes (vpage 27 "AirPlay function").

❏ Selecting the input source using the remote control

Press the input source select button ([FAVORITE], [INTERNET RADIO], [MUSIC SERVER], [ONLINE MUSIC], [USB/iPod] or [TUNER]).
The desired input source can be selected directly.

Switching the display's brightness

Press [DIMMER].

• The display brightness is adjusted each time **[DIMMER]** is pressed as shown below.

100% → 75%

Off ← 25% ← 50%

• Each time the display brightness is switched, the brightness of the DENON PROFESSIONAL logo on the front panel and of the operating buttons are also switched.
The DENON PROFESSIONAL logo and operating buttons are bright when this setting is 100 % or 75 %, and become darker when it is set to 50 %, 25 % or Off.

If you operate the buttons when the display's brightness is set to "Off", the display temporarily lights at "25%" brightness level.

See the illustration on the previous page for details of the buttons used for the operations on this page.

Symbols used to indicate buttons in this manual

Button located on both the main unit and the remote control
→ **BUTTON**

Button only on the main unit → **<BUTTON>**

Button only on the remote control → **[BUTTON]**

ON/STANDBY   **<▶/❙❙ ENTER>**

ON/STANDBY

[MENU]

[ENTER]
△▽ ▷

**[NUMBER]
(0 – 9)**
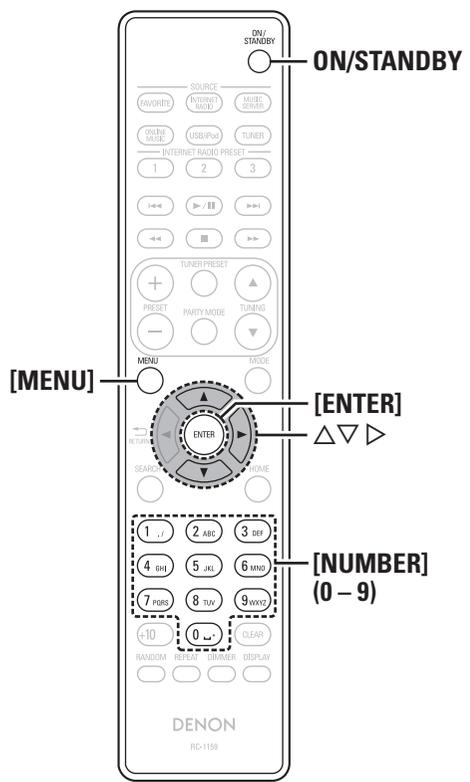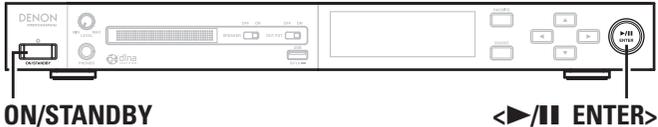
Network First Setup

When you turn on the power of this unit for the first time after purchasing it, the "Network First Setup" menu starts up.

① **Preparation (connection)**

② **Connecting to the access point**

③ **Setting the network standby**

① Preparation (connection)

1 Connecting the audio device.

2 Connecting to a network (LAN).

3 Connecting the power cord.

② Connecting to the access point

1 Press **ON/STANDBY** to turn the power on.

2 Select the menu language.

[Select Language]   1/5
♦English
▲/▼ : select   ◉ :enter

⬇

Network First Setup

3 Check the connection to the network device, and press **[ENTER]** or **<▶/❙❙ ENTER>**.

[Start First Setup]
Please connect a
◉ :next   ◀ :cancel

Power cord

U.S.A and Canada models

or

European, U.K and Asia/Pacific models

Network (LAN)

Amplifier

LINE
L
R

ANTENNA   BALANCED OUT   UNBALANCED OUT   OPT OUT   LAN   RS232C   AC IN

FM COAX. 76Ω   AM LOOP ANT.   R   L   GND HOT(+) COLD(–)   LEVEL   R   L   LEVEL   R   L

4 **Set the DHCP.**

[Setup Wired]   1/4
♦ DHCP (On)
◉ :enter   ◄ :return
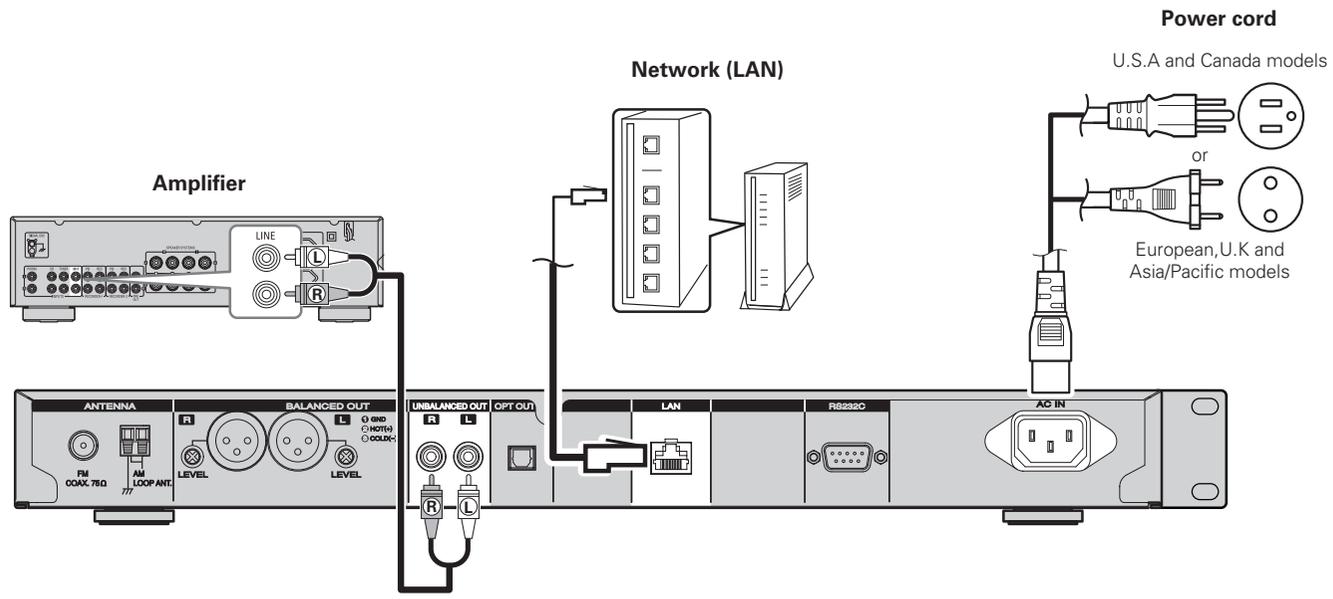
❏ **When setting DHCP to "On"**
Press ▷ to select "On", then press **[ENTER]**, **<►/II ENTER>**.

❏ **When setting DHCP to "Off"**
① Press ▷▽ to select "Off", then press **[ENTER]**, **<►/II ENTER>**.
② Use △▽ to select "IP Address", then press **[ENTER]**, **<►/II ENTER>** or ▷.
③ Use uip or **[NUMBER] (0 – 9)** to input the IP address and press **[ENTER]**, **<►/II ENTER>**.
④ Use △▽▷ or **[NUMBER] (0 – 9)** to input the address for "Subnet Mask", "Gateway", "Primary DNS", and "Secondary DNS".

5 **Set the Proxy.**
If you do not connect to the network via a proxy, this setting is not required. In this case, go to step 6.
① Press △▽ to select "Proxy", then press **[ENTER]**, **<►/II ENTER>**.
② If "Proxy(On)" appears, go to step ④.
If "Proxy(Off)" appears, press **[ENTER]**, **<►/II ENTER>** or ▷.
"Select Proxy" menu appears.
③ Use △▽ to select "On", then press **[ENTER]**, **<►/II ENTER>** or ▷.
"Setup Proxy" menu appears.
④ Use △▽ to select "Proxy (Address)" or "Proxy (Name)", then press **[ENTER]**, **<►/II ENTER>** or ▷.
"Select Type" menu appears.
⑤ Use △▽ to select "Address" or "Name", then press **[ENTER]**, **<►/II ENTER>** or ▷.
"Setup Proxy" menu appears.
⑥ Use △▽ to select "Address" or "Name", then press **[ENTER]**, **<►/II ENTER>** or ▷.
"Input Proxy Address" or "Input Proxy Name" menu appears.
⑦ Use △▽▷ or **[NUMBER] (0 – 9)** to input the address or name, then press **[ENTER]**, **<►/II ENTER>**.
"Setup Proxy" menu appears.
⑧ Use △▽ to select "Port", then press **[ENTER]**, **<►/II ENTER>** or ▷.
"Input Proxy Port" menu appears.
⑨ Use △▽▷ or **[NUMBER] (0 – 9)** to input the port, then press **[ENTER]** or **<►/II ENTER>**.
The Proxy settings are completed.

6 **Select "Connection", and press [ENTER] or <►/II ENTER>.**

[Setup Wired]   3/4
♦ Connection
◉ :enter   ◄ :return
⇩
[Connection]
Connecting...
⇩
Succeeded

• Connected to the network.

③ **Setting the network standby**

❏ **Enabling the network standby**
Network is on during standby. Main unit operable with a network compatible controller. Shortens the time before the network connection is completed.
• More power is consumed when in standby (Power consumption: 7.5 W).

Select "On", and press [ENTER] or <►/II ENTER>.
Reduces the amount of time until the network connection is complete.

[Select Standby Mode]   1/2
♦ Network On
   Network start time is fas

NOTE

The amount of power consumption during standby mode increases slightly.

❏ **Disabling the network standby**
Suspend network function during standby. It will take slightly longer till the network connection is completed.
• The minimum amount of power is consumed when in standby (Power consumption: 0.2 W).
• This is the default setting.

Select "Off", and press [ENTER] or <►/II ENTER>.
The amount of power consumption during standby mode is as low as possible.

[Select Standby Mode]   2/2
♦ Network Off
   The lowest power consump

This completes the network connections and settings.
The network settings can also be configured in the "Network" – "Connection" menu. Refer to "Connecting wired LAN" (☞page 29) for more information.

To perform "Network First Setup" again

1 **Press [MENU].**
The menu screen is displayed.

2 **Select "Network", and press [ENTER] or <►/II ENTER>.**

[Menu]   1/3
♦ Network
◉ :enter   ◄ :return

3 **Select "Network First Setup", and press [ENTER] or <►/II ENTER>.**

[Network]   1/9
♦ Network First Setup
◉ :enter   ◄ :return

See the illustration on the previous page for details of the buttons used for the operations on this page.

Symbols used to indicate buttons in this manual

Button located on both the main unit and the remote control
→ **BUTTON**

Button only on the main unit ——————→ **<BUTTON>**

Button only on the remote control ————→ **[BUTTON]**

<FAVORITE> △▽ ▷▽

<►/II ENTER>

[INTERNET RADIO]

[FAVORITE]

[INTERNET RADIO PRESET 1 – 3]

[■]

[MENU]

[ENTER]

△▽◁ ▷

[SEARCH]

[HOME]

[DISPLAY]
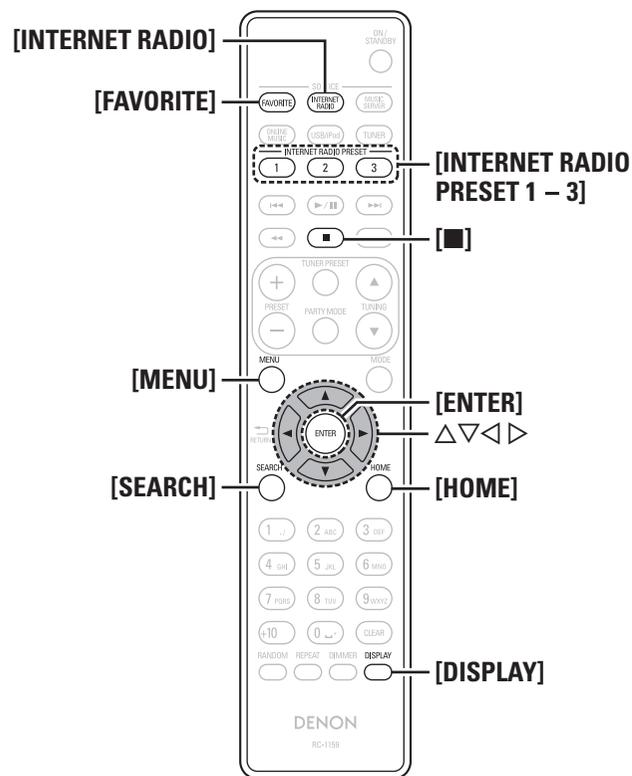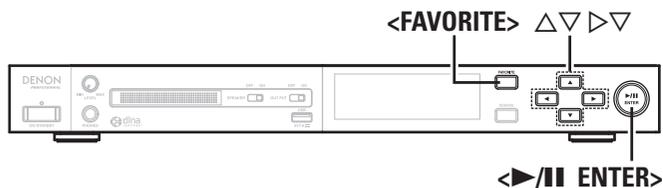
Network audio playback

Follow this procedure to play Internet radio stations or music files stored on a computer.

❏ **About the internet radio function** (☞page 50)
❏ **Music server** (☞page 50)
❏ **About Pandora®** (☞page 50)
❏ **About Rhapsody** (☞page 50)

Listening to internet radio 📻

1 **Prepare for playback.**
① Check the network environment, then turn on this unit's power (☞page 8 "Turning the power on").
② If settings are required, make the "Setting the network [Network]" (☞page 29).

2 **Press [INTERNET RADIO] to switch the input source to "Internet Radio".**

• For details on selecting the input source using the unit buttons, see "Selecting the input source using unit operations" (☞page 9).

3 **Press △▽ to select the item you want to play, then press [ENTER], <►/II ENTER> or ▷.**

4 **Repeat step 3 until the station list is displayed.**
The station list is displayed.

• Any characters that cannot be displayed are replaced with "." (period) or " " (space).

5 **Press △▽ to select the station, then press [ENTER], <►/II ENTER> or ▷.**
Playback starts once buffering reaches "100%".

✎

• There are many Internet radio stations on the Internet, and the quality of the programs they broadcast as well as the bit rate of the tracks varies widely.
Generally, the higher the bit rate, the higher the sound quality, but depending on the communication lines and server traffic, the music or audio signals being streamed may be interrupted. Inversely, lower bit rates mean a lower sound quality but less tendency for the sound to be interrupted.

• "Server Full" or "Connection Down" is displayed if the station is busy or not broadcasting.

❏ **Listening to preset internet radio stations**
You can register your favorite radio stations to **[INTERNET RADIO PRESET 1 – 3]** to call them up easily.

Registering Internet radio stations to INTERNET RADIO PRESET 1 – 3 buttons

While playing back the internet radio station that you want to register, press and hold one of the [INTERNET RADIO PRESET 1 – 3].
The internet radio station is registered to the button that you held down.

NOTE

If the internet radio station is registered to a number that has previously been registered, the previous registration details are deleted.

Listening to an Internet radio station registered to a INTERNET RADIO PRESET 1 – 3 button

Press one of the registered [INTERNET RADIO PRESET 1 – 3].
Playback starts.

❏ Switching the display

Press [DISPLAY] during Internet radio reception.
The broadcast station information and signal format bit rate are displayed.

❏ Recently played internet radio stations

Recently played internet radio stations can be selected from "Recently Played".
Up to 20 stations stored in "Recently Played".

1 Press △▽ to select "Recently Played", then press [ENTER], <▶/∥ ENTER> or ▷.

2 Press △▽ to select the item you want to play, then press [ENTER], <▶/∥ ENTER> or ▷.

❏ Searching stations by keyword (Alphabetic strings)

1 Press △▽ to select "Search by Keyword", then press [ENTER], <▶/∥ ENTER> or ▷.

2 Input the characters, then press [ENTER] or <▶/∥ ENTER>.

• For character input, see page 38.

❏ Registering internet radio stations as your favorites

You can register your favorite broadcast stations in Favorite List (☞page 22).

❏ Internet radio operation

Operation buttons	Function
[FAVORITE]	Calls the Favorite function
<FAVORITE> (Press and release)	Plays back the radio station or file at the top of the Favorite List
<FAVORITE> (Press and hold)	Registers the radio station currently being played back to the Favorite List
[■]	Stop
[MENU]	Menu
△▽◁▷	Cursor operation (Up/Down/Left/Right)
ENTER	Enter
[SEARCH]	Character search∗
[HOME]	Return to top page

∗ Press **[SEARCH]**, then press **[ENTER]** to select the first letter you want to search mode.

If the list is not in alphabetical order, you may not be able to perform a character search.

NOTE

• The internet radio function on this unit uses the vTuner (comprehensive directory site of internet radio stations) public stations.
D&M cannot be responsible for any problems, damages, or losses that occur from the commercial use of these stations.
• If you want to use internet radio for commercial use, register a radio station you have created yourself, or register a radio station that is approved for commercial use.
For details on how to register and receive such radio stations, see "Registering and receiving private radio stations" (☞page 14).

See the illustration on the previous page for details of the buttons used for the operations on this page.

Symbols used to indicate buttons in this manual

Button located on both the main unit and the remote control

→ **BUTTON**

Button only on the main unit ────→ **<BUTTON>**

Button only on the remote control ────→ **[BUTTON]**

△▽

<►/II ENTER>

[INTERNET RADIO]

[ENTER]

△▽
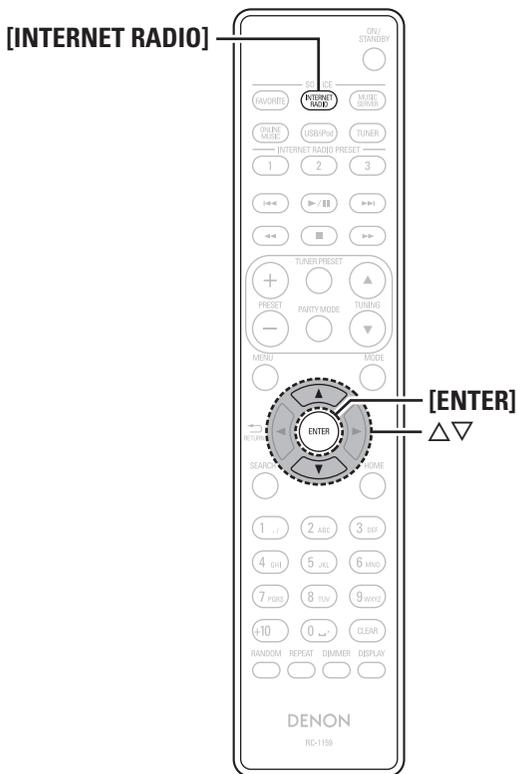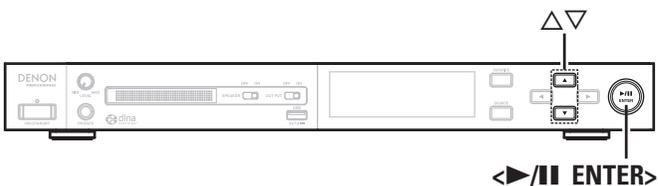
Registering and receiving private radio stations

You can receive radio stations on this unit that are not registered in vTuner or a private radio station that you have established yourself by accessing the DENON internet radio URL from a computer Web browser.

In order to register and receive a private radio station, you need to register your customer ID (MAC address) and E-mail address.
Exclusive URL: http://www.radiodenon.com

❏ Check the ID (MAC address) of this unit

1 Press **[INTERNET RADIO]** to switch the input source to "Internet Radio".

2 Press △▽ to select "radiodenon.com", then press **[ENTER]** or **<►/II ENTER>**.
A 12-digit ID is displayed.

❏ Preparation

1 Use your computer Web browser to access the exclusive DENON internet radio URL (http://www.radiodenon.com).
The following screen is displayed:

2 Enter the ID of this unit, and click `Go`.
The E-mail address and password input screen is displayed.

3 Enter your E-mail address and a password, and click "Register".
Registration is complete.

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❏ Registering a private radio station

1 Use your computer Web browser to access the exclusive DENON internet radio URL (http://www. radiodenon.com).

2 Enter your E-mail address and a password, and click "Login".
Private radio stations registered to "My Added Stations" are displayed.

3 Click ⦿Go⦿ in the "My Added Stations" screen.
The private radio station registration screen is displayed.

My Favorite Groups
You can add your Favorite Stations here.
To add a Favorite Station, first use Browse or Search for Stations to find a station, and then
click the "Add" icon ♥+

My Added Stations
You can add your own stations here.
If you have found a station that is not in our list, you can add it yourself. Go

Search
○ Stations ○ Podcasts Go

Browse by Format, Location or Language

4 Enter the "Station Name" (optional), "Station URL" (required), "Location" (country name), "Genre" and "Type" (file compression method), and click ⦿Go⦿.
Registration is complete.

My Added Stations

Enter the information for the station you would like to add.
The station will be immediately added as one of your favorites.
Station Name
Station URL
(for example, http://62.168.116.98:8000/dsp1)
Location
(for example, Canada, Germany, Buenos Aires)
Genre
(for example, Classical, Dance, Rock)
Type: MP3
Go

NOTE

The private radio station is only displayed on registered devices. The registered radio station cannot be found on other devices.

❏ Receiving private radio stations

1 Press **[INTERNET RADIO]** to switch the input source to "Internet Radio".

2 Press △▽ to select "radiodenon.com", then press **[ENTER]** or **<▶/ⅠⅠ ENTER>**.
"Added stations" is displayed on the display of this unit.

3 Press △▽ to select "Added stations", then press **[ENTER]** or **<▶/ⅠⅠ ENTER>**.
Private radio stations that are registered are displayed in the display of this unit.

4 Press △▽ to select the private radio station that you want to receive, then press **[ENTER]** or **<▶/ⅠⅠ ENTER>**.
The selected radio station is received.

NOTE

The private radio station is only displayed on registered devices. The registered radio station cannot be received on other devices.

❏ Deleting stations registered as private radio stations

1 Use your computer Web browser to access the exclusive DENON internet radio URL (http://www. radiodenon.com).

2 Enter your E-mail address and a password, and click "Login".
Private radio stations registered to "My Added Stations" are displayed.

3 Click ⊂⊃ at the side of the station name that you want to delete.
The selected radio station is deleted.

Symbols used to indicate buttons in this manual

Button located on both the main unit and the remote control
→ **BUTTON**

Button only on the main unit → **<BUTTON>**

Button only on the remote control → **[BUTTON]**

$\triangle \triangledown \triangleright \triangledown$

<►/II ENTER>

[MUSIC SERVER]

[ONLINE MUSIC]

[►/II]

[I◄◄ ►►I]

[■]

[MENU]

[ENTER]
$\triangle\triangledown\triangleleft\triangleright$

[SEARCH]

[HOME]

[RANDOM]
[REPEAT]

[DISPLAY]
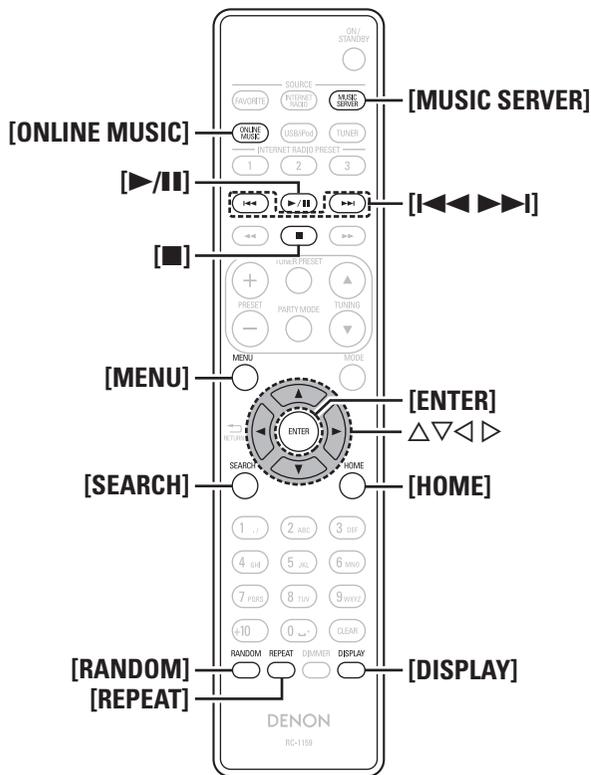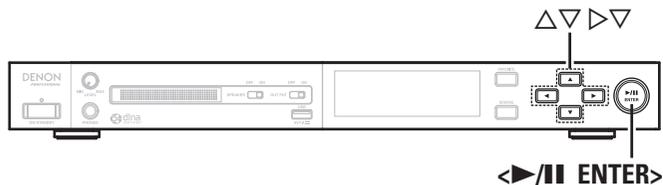
Playing files stored on a computer

Use this procedure to play music files or playlists.

1 **Prepare for playback.**
① Check the network environment, then turn on this unit's power (☞page 8 "Turning the power on").
② If settings are required, make the "Setting the network [Network]" (☞page 29).
③ Prepare the computer (☞page 50 "Music server").

2 **Press [MUSIC SERVER] to switch the input source to "Music Server".**

• For details on selecting the input source using the unit buttons, see "Selecting the input source using unit operations" (☞page 9).

3 **Press $\triangle\triangledown$ to select the server including the file to be played, then press [ENTER], <►/II ENTER> or $\triangleright$.**

4 **Press $\triangle\triangledown$ to select the search item or folder, then press [ENTER], <►/II ENTER> or $\triangleright$.**

5 **Repeat step 4 until the file is displayed.**

6 **Press $\triangle\triangledown$ to select the file, then press [ENTER], <►/II ENTER> or $\triangleright$.**
Playback starts once buffering reaches "100%".

🖉

• Connections to the required system and specific settings must be made in order to play music files (☞page 7).
• Before starting, you must launch the computer's server software and set the files as server contents. For details, see the operating instructions of your server software.
• The order in which the tracks/files are displayed depends on the server specifications. If the tracks/files are not displayed in alphabetical order due to the server specifications, searching by the first letter may not work properly.
• WMA Lossless files can be played when using a server supporting transcoding, such as Windows Media Player Ver. 11 or later.

❏ Switching the display

During playback, Press [DISPLAY].

• The display switches each time **[DISPLAY]** is pressed.

Artist name → Album name → File type/Bitrate

❏ Music server operation

Operation buttons	Function
[I◄◄ ►►I]	Auto search (cue)
►/II	Playback / Pause
[■]	Stop
[MENU]	Menu
$\triangle\triangledown\triangleleft\triangleright$	Cursor operation ($\triangle\triangledown\triangleleft\triangleright$) / Auto search (cue, $\triangle\triangledown$)
ENTER	Enter
[SEARCH]	Character search *1
[HOME]	Return to top page
[REPEAT]	Repeat playback (☞page 26)
[RANDOM]	Random playback (☞page 26) *

*1 Press **[SEARCH]**, then press **[ENTER]** to select the first letter you want to search mode.

*2 When playing files stored on a computer using the random play function, when a track has finished playing, the next track is selected at random from all of the tracks on the computer. For this reason, the same track may be played back to back.

Listening to Pandora® internet radio Ⓟ (U.S.A. and Canada models only)

Pandora® is only available in the U.S.

1 **Prepare for playback.**
① Check the network environment, then turn on this unit's power (☞page 8 "Turning the power on").
② If settings are required, make the "Setting the network [Network]" (☞page 29).

2 **Press [ONLINE MUSIC] to switch the input source to "Pandora".**
• For details on selecting the input source using the unit buttons, see "Selecting the input source using unit operations" (☞page 9).
• If you do not have a Pandora® account, press ▽ to select "I am new to Pandora", then press **[ENTER]**, **<►/Ⅱ ENTER>** or ▷.
The URL needed to activate Pandora® and the activation code will be displayed.
Browse to the Pandora® activation URL from your PC and follow the on-screen instructions for creating a new account.

3 **If you have a Pandora® account, press △▽ to select "I have a Pandora account", then press [ENTER], <►/Ⅱ ENTER> or ▷.**

4 **Input "Email address" and "Password".**

• For character input, see page 38.

5 **After inputting the "Email address" and "Password", select "login", then press [ENTER], <►/Ⅱ ENTER> or ▷.**
If the "Email address" and "Password" match, the top menu for Pandora® is displayed.

NOTE

Press **[HOME]** to cancel the input.

❏ Creating a Personalized radio station
You can create up to 100 personalized radio stations.

1 **Use △▽ to select "New Station", then press [ENTER], <►/Ⅱ ENTER> or ▷.**

2 **Input a "Track Name" or "Artist Name", then press [ENTER], <►/Ⅱ ENTER> or ▷.**

• For character input, see page 38.

3 **Use △▽ to select "Search by artist" or "Search by track", then press [ENTER], <►/Ⅱ ENTER> or ▷.**
You can search and display a list by track or artist.

4 **Press △▽, select search result (e.g. D&M2) from the list, and press [ENTER], <►/Ⅱ ENTER> or ▷.**
Selected file is played back.
"Radio" is added to the end of a filename, and your original radio station is created (e.g. D&M2 Radio).

❏ Listening to a personalized radio station

Listening to a personalized radio station (e.g. D&M2 Radio)

Press △▽ and select the radio station ("D&M2 Radio") that you want to listen to, and press [ENTER], <►/Ⅱ ENTER> or ▷.
When you specify your favorite track, artist or comedian, Pandora® will create a personalized radio station that plays your favorite and choices similar to your favorite.

Listening to tracks at random

1 **Press △▽ and select the radio station ("D&M2 Radio") that you want to listen to, and press [ENTER], <►/Ⅱ ENTER> or ▷.**

2 **Use △▽◁ ▷ to select "Quick Mix", then press [ENTER], <►/Ⅱ ENTER> or ▷.**
Created radio stations are selected shuffled, and tracks are streamed.

See the illustration on the previous page for details of the buttons used for the operations on this page.

Symbols used to indicate buttons in this manual

Button located on both the main unit and the remote control

→ **BUTTON**

Button only on the main unit ──────→ **<BUTTON>**

Button only on the remote control ──────→ **[BUTTON]**

△▽ ▷▽

<▶/Ⅱ ENTER>

[ONLINE MUSIC]

[▶/Ⅱ]

[Ⅰ◀◀ ▶▶Ⅰ]

[■]

[MENU]

[ENTER]

△▽◁ ▷

[HOME]

[RANDOM]

[REPEAT]
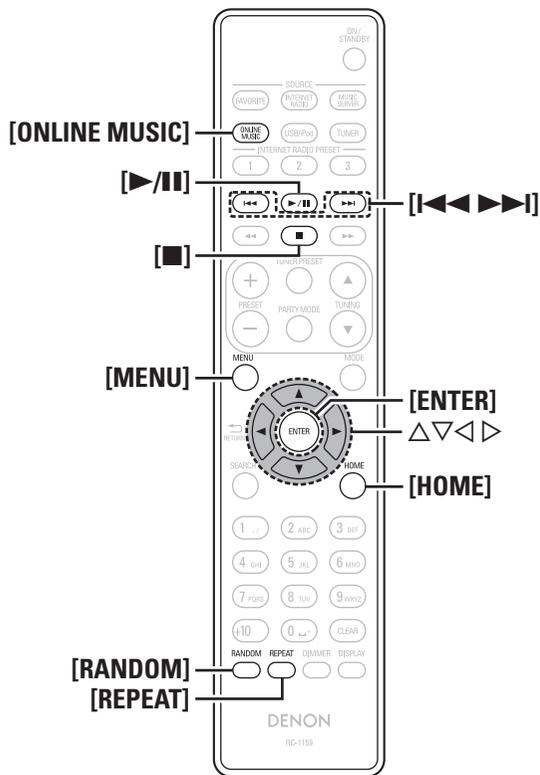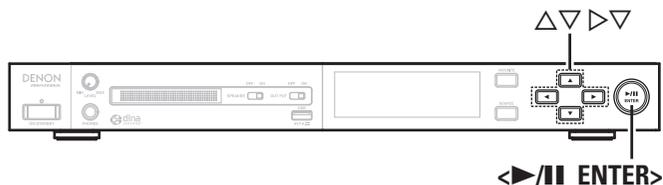
❏ **Providing feedback on tracks within radio stations**

You can further personalize your radio stations by providing feedback on tracks. To provide feedback, open the Pandora® menu screen while a track is playing.

Press ▷ while a track is playing.

The Pandora® menu is displayed.

I like this track	• Press when you like the track that is being played.
	• It will return to the Play Screen. 👍 (Thumbs up) icon is displayed.
I don't like this track	• Press when you don't like the track that is being played.
	• It will return to the Play Screen, 👎 (Thumbs down icon) is displayed and Pandora® will skip to the next track.
Create station	• Creates a Station for the Track or Artist being played.
Bookmark this track	• Bookmarks the track currently being played.
	• You can check your bookmarks at Pandora.com.
	• For details, see the Pandora® FAQ at http://blog.pandora.com/faq/.
Delete this station	• Press when you want to delete the station that is being played.

NOTE

• You can Skip up to 6 Tracks per Station, per hour. Even if you run out of Skips, you can give a Track a "thumbs down". The Track will keep playing, but Pandora® will still use the feedback to personalize your radio station.

• You can create up to 100 New Stations (radio stations).

❏ **Sign out**

Disassociate this unit from your Pandora® account.

1 While the Pandora® top menu is displayed, press ◁.

2 When the popup menu appears, press △▽ to select "Yes".

❏ **Switching the display**

During playback, press [DISPLAY].

The file type/bit rate, artist name and album name are displayed.

❏ **Pandora® operation**

Operation buttons	Function
[▶▶Ⅰ]	Auto search (cue)
▶Ⅱ	Play / Pause
[■]	Stop
[MENU]	Menu
△▽◁ ▷	Auto search (cue,▽)
ENTER	Enter
[HOME]	Return to Pandora®'s top menu

Listening to Rhapsody 🎵
(U.S.A. and Canada models only)

Rhapsody is not available in all countries.

1 **Prepare for playback.**
① Check the network environment, then turn on this unit's power (☞page 8 "Turning the power on").
② If settings are required, make the "Setting the network [Network]" (☞page 29).

2 **Press [ONLINE MUSIC] to switch the input source to "Rhapsody".**

• For details on selecting the input source using the unit buttons, see "Selecting the input source using unit operations" (☞page 9).

3 **Use △▽ to select "Sign in to your account", then press [ENTER], <▶/Ⅱ ENTER> or ▷.**

4 **Input Username and Password.**

• For character input, see page 38.

5 **After inputting the "Username" and "Password", select "OK", then press [ENTER] or <▶/Ⅱ ENTER>.**
If the "Username" and "Password" match, the top menu for Rhapsody is displayed.

NOTE

• The password should be no longer than 99 characters.
• Press **[HOME]** to cancel the input.

❏ **Select the search mode**

① **Search from Rhapsody latest information**

1 Use △▽ to select "Rhapsody Music Guide", then press **[ENTER]**, **<►/❙❙ ENTER>** or ▷.

2 Press △▽ to select the information for track selection, then press **[ENTER]**, **<►/❙❙ ENTER>** or ▷.

3 Repeat step 2 until the track is displayed.

4 Use △▽ to select the track, then press **[ENTER]**, **<►/❙❙ ENTER>** or ▷.

② **Enter a character search for the track you want to listen to**

1 Use △▽ to select "Search", then press **[ENTER]**, **<►/❙❙ ENTER>** or ▷.

2 Use △▽ to select the search item, then press **[ENTER]**, **<►/❙❙ ENTER>** or ▷.
The search display appears.

• You can search by artist name, album name, track name or keyword.

3 Enter the characters, then press **[ENTER]** or **<►/❙❙ ENTER>**.

③ **Search from the Rhapsody internet radio station**

1 Use △▽ to select "Rhapsody Channels", then press **[ENTER]**, **<►/❙❙ ENTER>** or ▷.

2 Repeat step 1 until the radio station is displayed.

3 Use △▽ to select radio station, then press **[ENTER]**, **<►/❙❙ ENTER>** or ▷.
The search display appears.

④ **Listening to tracks registered in my library**

1 Use △▽ to select "My Library", then press **[ENTER]**, **<►/❙❙ ENTER>** or ▷.

2 Repeat step 1 until the track is displayed.

3 Use △▽ to select the information or track, then press **[ENTER]**, **<►/❙❙ ENTER>** or ▷.
After selecting, the information is displayed.

❏ **Track menu**

Press ▷ during playback to display the track menu.

① **Search from the similar music**

Use △▽ to select the search item, then press **[ENTER]**, **<►/❙❙ ENTER>** or ▷.

② **Registering tracks in my library**

Use △▽ to select "Add Track to my library", then press **[ENTER]**, **<►/❙❙ ENTER>** or ▷.
The track is entered in the library.

③ **Rating function**

1 Use △▽ to select "Rating", then press **[ENTER]**, **<►/❙❙ ENTER>** or ▷.

2 Use ◁ ▷ to select the rating, then press **[ENTER]** or **<►/❙❙ ENTER>**.

❏ **Switching the display**

During playback, press [DISPLAY].
The file type/bit rate, artist name and album name are displayed.

❏ **Rhapsody operation**

Operation buttons	Function
[❙◄◄ ►►❙]	Auto search (cue)
►/❙❙	Playback / Pause
[■]	Stop
[MENU]	Menu
△▽◁ ▷	Cursor operation / Auto search (cue, △▽)
ENTER	Enter
[HOME]	Return to top page
[REPEAT]	Repeat playback (☞page 26)
[RANDOM]	Random playback (☞page 26)

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Symbols used to indicate buttons in this manual

Button located on both the main unit and the remote control
→ **BUTTON**

Button only on the main unit ⟶ **<BUTTON>**

Button only on the remote control ⟶ **[BUTTON]**

<FAVORITE> △▽ ▷▽

<▶/❙❙ ENTER>

[FAVORITE]

[■]
[TUNER PRESET]

[PRESET +, −]

[MENU]

[SEARCH]

[TUNER]

[TUNING ▲▼]

[MODE]

[ENTER]
△▽◁ ▷

[HOME]

[NUMBER]
(0 – 9, +10)

Tuning in radio stations

Connect the antenna beforehand (☞page 6).

Listening to FM/AM broadcasts

1 Press [TUNER] to select the reception band.
The reception band is toggled as shown below each time [TUNER] is pressed.

FM When listening to an FM broadcast.

AM When listening to an AM broadcast.

• The reception band can also be selected by pressing **<SOURCE>** (☞page 9).

2 Tune in the desired broadcast station.
When a station is received, the 📶 will light.

Auto tuning To tune in automatically.

① Press [MODE] , and "AUTO" lights in the display.

② Press [TUNING ▲] or [TUNING▼] to select the station you want to hear.

Manual tuning To tune in manually.

① Press [MODE] , and "AUTO" goes out in the display.

② Press [TUNING ▲] or [TUNING▼] to select the station you want to hear.

✎

• If the desired station cannot be tuned in with auto tuning, tune it in manually.

• When tuning in stations manually, press and hold [TUNING ▲] or [TUNING ▼] to change frequencies continuously.

• A humming sound may be heard when using a TV nearby while receiving AM programs. If this happens, move the system as far from the TV as possible.

❏ To stop auto tuning
Press [TUNING ▲] or [TUNING ▼].

Automatically presetting FM stations (Auto Preset)

• This unit can be preset with a total of 99, FM broadcast stations.
• Perform this operation when tuned to an FM broadcast station.

NOTE

Auto preset is not possible with AM broadcast stations.

1 Press [SEARCH].
"Auto Preset" menu appears.

2 Use △▽ to select "Start", then press [ENTER], <▶/❙❙ ENTER> or ▷.
"Searching" appears in the display, and the unit searches for radio stations. When the search is complete, "Complete!!" appears.

❏ Canceling auto presetting
Press [■].

NOTE

• Broadcast stations whose antenna signal are weak cannot be preset automatically. If you wish to preset such stations, tune them in manually.

• If number that was already assigned as a preset is selected, the old preset information is overwritten with the new information.

❏ Giving station names to preset channels
Names of up to 8 characters can be input.

1 Tune in the preset channel you want to name.

2 Press and hold [TUNER PRESET].
The display switches to the station name input display.

3 Input the station name.

• For character input, see page 38.

4 Press [ENTER] or <▶/❙❙ ENTER>.
The characters you have input are entered.

• To give names to other stations, repeat steps 1 to 4.

Presetting FM/AM stations manually

This unit can be preset with a total of 99 FM and AM broadcast stations.

1 Tune in the station you want to preset.

2 Press **[TUNER PRESET]**.
"Preset" menu appears.

3 Use △▽ to select "Add to Preset", then press **[ENTER]**, **<▶/II ENTER>** or ▷.

4 Use △▽ to select the number to be preset, then press **[ENTER]** or **<▶/II ENTER>**.
The reception frequency and reception mode are preset and the display switches to the station name input display.

5 Input the station name.

• For character input, see page 38.
• If you do not want to input a station name, press **[ENTER]** or **<▶/II ENTER>** without inputting anything else.
• If you make a mistake inputting, re-input the correct station name. Whatever was previously input is overwritten.

6 Press **[ENTER]** or **<▶/II ENTER>**.
The characters you have input are entered.

• To give names to other stations, repeat steps 1 to 5.

Listening to preset stations

Use **[NUMBER]** (0 – 9, +10), **[PRESET +, –]** or △▽ to select the preset number.

Calling stations registered in Preset List

1 Press **[TUNER PRESET]**.
"Preset" menu appears.

2 Use △▽ to select "Call Preset", then press **[ENTER]**, **<▶/II ENTER>** or ▷.
The Preset list appears.

3 Use △▽ to select the station, and then press **[ENTER]**, **<▶/II ENTER>** or ▷.

Deleting stations registered in Preset List

1 Press **[TUNER PRESET]**.
"Preset" menu appears.

2 Use △▽ to select "Delete Preset", then press **[ENTER]**, **<▶/II ENTER>** or ▷.
The Preset list appears.

3 Use △▽ to select the station, and then press **[ENTER]**, **<▶/II ENTER>** or ▷.

4 When the prompt "Delete?" appears, press **[ENTER]**, **<▶/II ENTER>** or ▷.

• To cancel the operation, press ◁.

❏ Tuner (FM/AM) operation

Operation buttons	Function
[FAVORITE]	Calls the Favorite function
<FAVORITE> (Press and release)	Plays back the radio station or file at the top of the Favorite List
<FAVORITE> (Press and hold)	Registers the radio station currently being played back to the Favorite List
[PRESET +, –]	Preset channel selection
[TUNER PRESET]	Preset menu
[■]	Stop
[TUNING ▲▼]	Tuning (up/down)
[MENU]	Menu
[MODE]	Switch search modes
△▽◁▷	Cursor operation (Up/Down/Left/Right)
ENTER	Enter
[SEARCH]	RDS search*/RTY search*/TP search*/Auto preset
[HOME]	Return to top page
[0 – 9, +10]	Preset channel selection

* Europe model only.

See the illustration on the previous page for details of the buttons used for the operations on this page.

Symbols used to indicate buttons in this manual

Button located on both the main unit and the remote control
→ **BUTTON**
Button only on the main unit ──────→ **<BUTTON>**
Button only on the remote control ──────→ **[BUTTON]**

<FAVORITE> △▽ ▷▽

ON/STANDBY   **<▶/Ⅱ ENTER>**

[USB/iPod]

[FAVORITE]

[▶/Ⅱ]

ON/STANDBY

[MODE]

[ENTER]

△▽◁ ▷

Favorite function

This section provides information on the Favorite function.

• The Favorite function allows you to register your favorite broadcast stations and files in Favorite List in advance so that you can call and listen to the stations or files right away, whenever you want.
• The contents that you can register and call are Internet radio station and tuner.
• You can register up to 50 items in Favorite List.
• When the 51st item is registered, the least frequently accessed radio station is replaced by the new item.
• When you select a station from Favorite List, the top of the list is displayed.

Registering stations or files to the favorites list

❏ Registering with the remote control

1 **Press [FAVORITE] while the Internet radio station, tuners or file to register is played back.**
"Favorite" menu appears.

2 **Use △▽ to select "Add to Favorite", then press [ENTER] or ▷.**
When the station, server, or tuner is registered, "Add to Favorite" appears.

❏ Registering with the main unit

Press and hold <FAVORITE> for at least 1 seconds while the Internet radio station, tuners or file to register is played back.
When registered, the station or file is displayed at the top of the favorites list.

Calling stations or files from the favorites list

1 **Press [FAVORITE].**
"Favorite" menu appears.

2 **Use △▽ to select "Call Favorite", then press [ENTER], <▶/Ⅱ ENTER> or ▷.**
The Favorite list appears.

3 **Press △▽ to select the station or file that you want to call, and press [ENTER], <▶/Ⅱ ENTER> or ▷.**
The respective function starts up and playback starts.

Calling the most recently played station or file from the favorites list

Press <FAVORITE>.
The respective function starts up and playback starts.

Deleting stations or files from the favorite list

1 **Press [FAVORITE].**
"Favorite" menu appears.

2 **Use △▽ to select "Delete Favorite", then press [ENTER], <▶/Ⅱ ENTER> or ▷.**
The Favorite list appears.

3 **Press △▽to select the station or file that you want to delete, and press [ENTER], <▶/Ⅱ ENTER> or ▷.**

4 **When the prompt "Delete?" appears, press [ENTER], <▶/Ⅱ ENTER> or ▷.**

• To cancel the operation, press ◁.

Getting started

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iPod® playback

You can use the USB cable provided with the iPod to connect the iPod with the unit's USB port and enjoy music stored on the iPod.
The unit can play back music stored on iPod/iPod touch/iPod classic/iPod nano (the fifth or later generation only).

❏ **iPod®** (☞page 49)

Playing an iPod

1 **Connect the iPod to the USB port using the USB cable that was supplied with the iPod.**
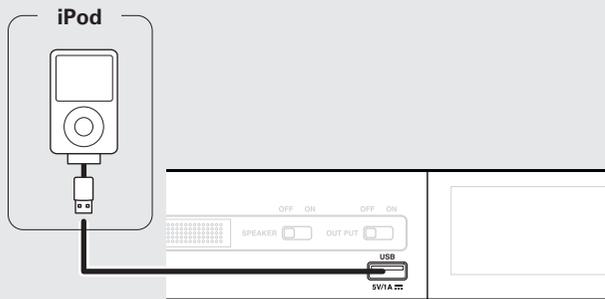
2 **Press ON/STANDBY to turn on power to the main unit.**

3 **Press [USB/iPod] to switch the input source to "USB/iPod".**

• For details on selecting the input source using the unit buttons, see "Selecting the input source using unit operations" (☞page 9).

4 **Press [MODE] to select the display mode.**
The display mode switches each time **[MODE]** is pressed.

• There are two modes for displaying the contents recorded on the iPod.

| Browse mode | Display iPod information on the display of this unit. |

| Remote mode | Display iPod information on the iPod screen.
• "Remote iPod" is displayed on the display of this unit. |

Display mode		Browse mode	Remote mode
Display location		Main unit display	iPod display
Playable files	Audio file	✓	✓
	Video file		✓*
Active buttons	Remote control and main unit	✓	✓
	iPod		✓

* Only audio is played back.

• The default display mode setting is "Remote mode".

5 **Use △▽ to select the item, then press [ENTER] or <►/❚❚ ENTER> to select the music file to be played.**

6 **Press [►/❚❚] or <►/❚❚ ENTER>.**
Playback starts.

NOTE

• 1st generation iPod nano and iPod video do not have remote mode support.
• D&M will accept no responsibility whatsoever for any loss of iPod data.
• Depending on the type of iPod and the software version, some functions may not operate.
• This unit does not support playback on an iPad. Do not connect an iPad to the unit.
• When connecting an iPhone to this unit, keep the iPhone at least 20 cm away from this unit. If the iPhone is kept closer to this unit and a telephone call is received by the iPhone, noise may be output from this device.
• If the iPod is connected using an iPod cable (commercially available) that is longer than 2 m (6.6 ft), sound may not be played correctly. In this case, use a genuine iPod cable, or a cable that is shorter than 1 m (3.3 ft).
• If the size of the image registered to the music file as album artwork is larger than 500 x 500 pixel, the music file cannot be played correctly. In this case, delete the album artwork from iTunes.
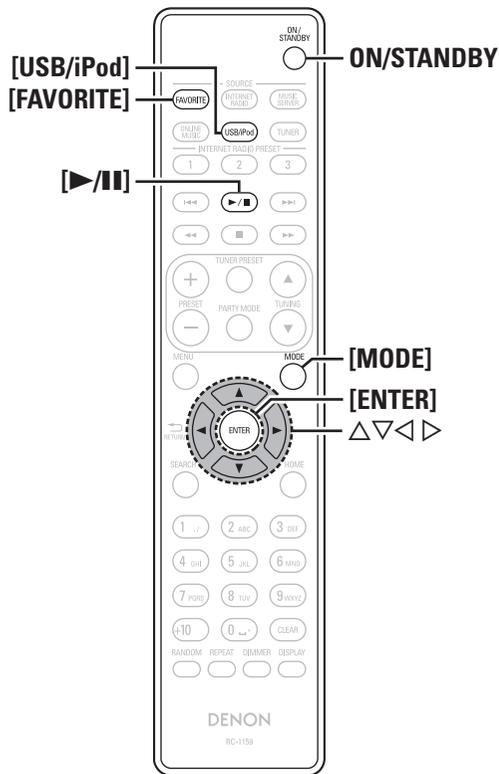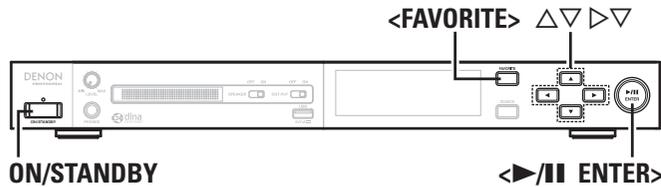
See the illustration on the previous page for details of the buttons used for the operations on this page.

Symbols used to indicate buttons in this manual

Button located on both the main unit and the remote control
→ **BUTTON**

Button only on the main unit → **<BUTTON>**

Button only on the remote control → **[BUTTON]**

△▽ ▷▽

ON/STANDBY   **<▶/Ⅱ ENTER>**

[USB/iPod]   ON/STANDBY

[▶/Ⅱ]

[Ⅰ◀◀ ▶▶Ⅰ]

[◀◀ ▶▶]

[■]

[MODE]

[ENTER]

△▽◁ ▷

[HOME]

[RANDOM]   [DISPLAY]

[REPEAT]

❏ Supported iPod Models

Made for

• iPod touch (4th generation)
• iPod touch (3rd generation)
• iPod touch (2nd generation)
• iPod touch (1st generation)
• iPod classic
• iPod with video
• iPod nano (6th generation)
• iPod nano (5th generation)
• iPod nano (4th generation)
• iPod nano (3rd generation)
• iPod nano (2nd generation)
• iPod nano (1st generation)
• iPhone
• iPhone 3G
• iPhone 3GS
• iPhone 4

iPhone   iPod touch   iPod classic   iPod nano
                1st generation   3rd generation
                                                          (video)

iPhone 3G   iPod touch   iPod   iPod nano
                2nd generation   5th generation   4th generation (video)
                                    (video)

iPhone 3GS   iPod touch   iPod nano   iPod nano
                3rd generation   1st generation   5th generation (video camera)

iPhone 4   iPod touch   iPod nano   iPod nano
                4th generation   2nd generation   6th generation
                                    (aluminum)

❏ Remote control and iPod button relations

Remote control buttons	iPod buttons	Operation on this unit
Ⅰ◀◀, ▶▶Ⅰ	Ⅰ◀◀, ▶▶Ⅰ	Play the track from the beginning/Play the next track
▶/Ⅱ	▶Ⅱ	Play the track / Pause the track
◀◀, ▶▶ (Press and hold)	Ⅰ◀◀, ▶▶Ⅰ (Press and hold)	Fast-reverse the track/Fast-forward the track
■	–	Stop the track
MODE	–	Switch between the browse mode and the remote mode
△▽	Click Wheel	Cursor operation (up /down)
◁	MENU	Display the menu or return to the previous menu
ENTER or ▷	Select	Enter the selection or plays the track
HOME	–	Return to top menu (in Browse mode)
REPEAT	–	Switch the repeat function
RANDOM	–	Switch the shuffle function

❏ Switching the display

During playback, Press [DISPLAY].

• The display switches each time **[DISPLAY]** is pressed (Browse mode only).

Artist name ⟷ Album name
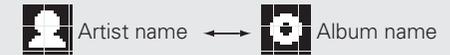
iPod® playback

Disconnecting the iPod

1 **Press ON/STANDBY to set the standby mode.**

2 **Disconnect the iPod from the USB port.**

USB memory device playback

You can playback music stored on a USB memory device using this unit.

❏ **USB memory device** (☞page 49)

Playing files stored on USB memory devices

1 **Connect the USB memory device to the USB port.**
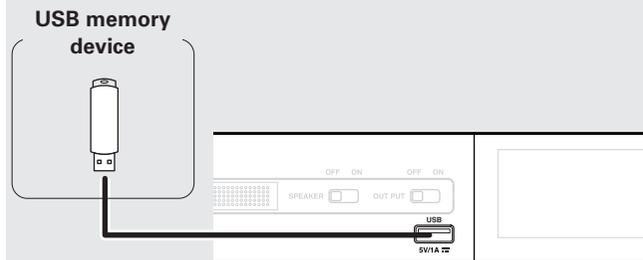
USB memory device

OFF   ON   OFF   ON
SPEAKER   OUT PUT
USB
5V/1A

2 **Press ON/STANDBY to turn on power to the main unit.**

3 **Press [USB/iPod] to switch the input source to "USB/iPod".**

• For details on selecting the input source using the unit buttons, see "Selecting the input source using unit operations" (☞page 9).

4 **Press △▽ to select the file or folder, then press [ENTER], <►/II ENTER> or ▷.**

5 **Press △▽ to select the file, then press [ENTER], <►/II ENTER>, ▷ or [►/II].**
Playback starts.

✎

• If the USB memory device is divided into multiple partitions, only the top partition can be selected.
• This unit is compatible with MP3 files conforming to "MPEG-1 Audio Layer-3" standards.
• D&M does not guarantee that all USB memory devices will operate or receive power. When using a portable USB connection type HDD of the kind to which an AC adapter can be connected to supply power, use the AC adapter.

NOTE

• USB memory devices will not work via a USB hub.
• It is not possible to connect and use a computer via the USB port of this unit using a USB cable.
• Do not use an extension cable when connecting a USB memory device. This may cause radio interference with other devices.
• Note that D&M will accept no responsibility whatsoever for any problems arising with the data on a USB memory device when using this unit in conjunction with the USB memory device.

Removing the USB memory device

1 **Press ON/STANDBY to set the standby mode.**

2 **Check that the communication indicator on the USB memory device is not flashing, then pull out the USB memory device.**

NOTE

Do not remove the USB memory device from the unit when the USB memory communication indicator is flashing. Doing so may damage the USB memory device, or may corrupt the files recorded on the USB memory device.
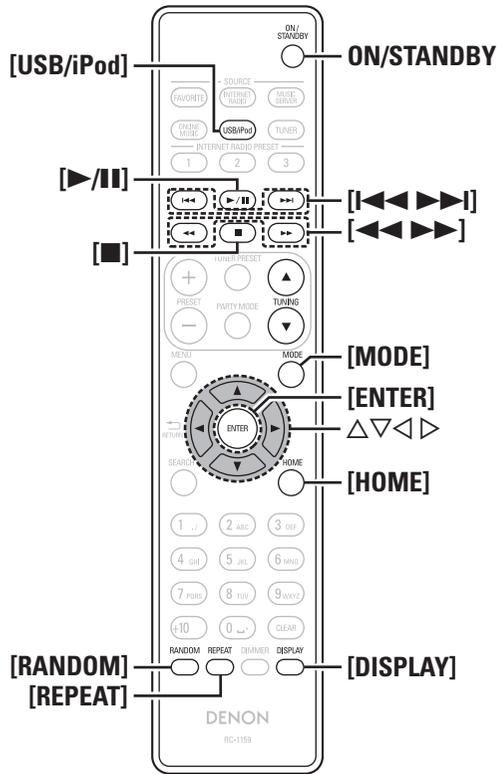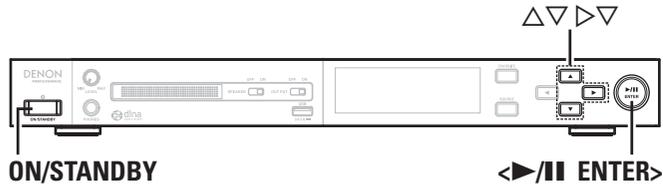
See the illustration on the previous page for details of the buttons used for the operations on this page.

Symbols used to indicate buttons in this manual

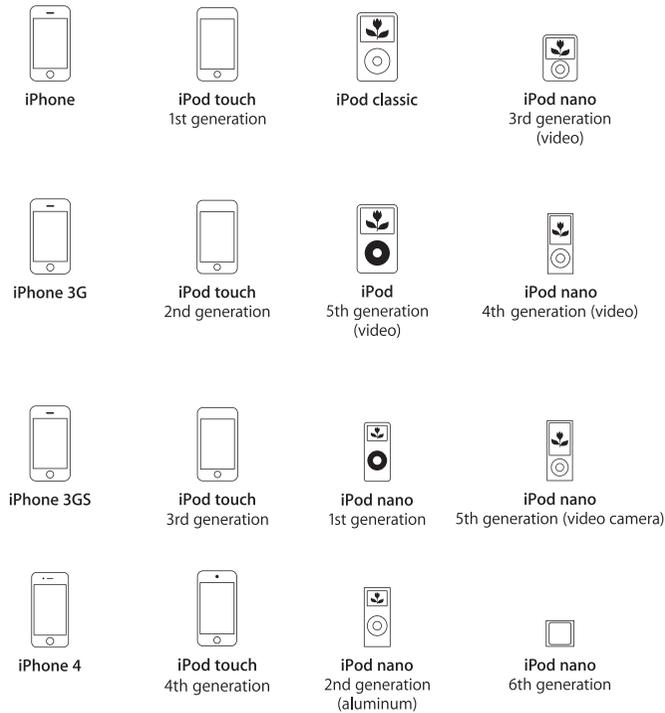Button located on both the main unit and the remote control
→ **BUTTON**

Button only on the main unit ──────→ **<BUTTON>**

Button only on the remote control ──────→ **[BUTTON]**

△▽ ▷▽

<▶/II ENTER>

[▶/II]

[I◀◀ ▶▶I]

[■]

[ENTER]
△▽◁▷

[SEARCH]

[HOME]

[RANDOM]
[REPEAT]

[DISPLAY]

DENON
RC-1159
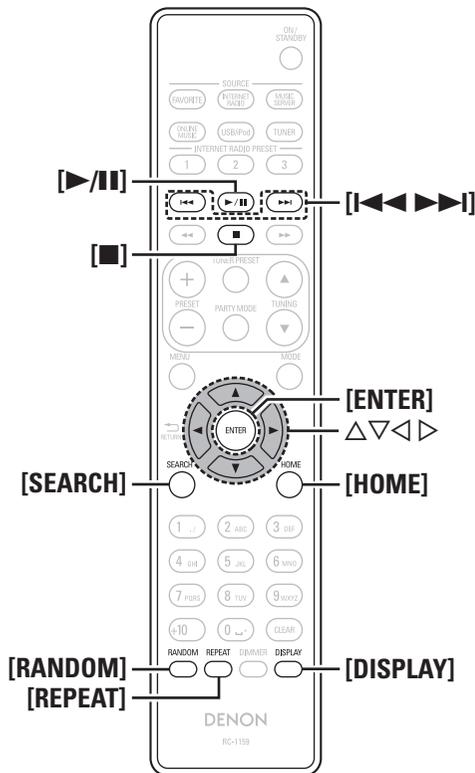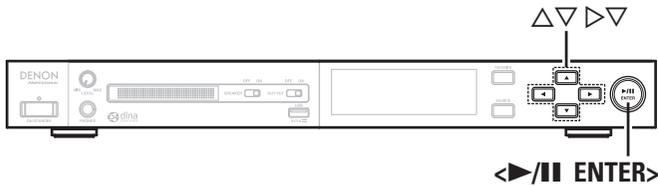
Playing repeatedly (Repeat playback)

Press [REPEAT].

Repeat playback starts.

• Each time you press **[REPEAT]**, the repeat mode is toggled as shown below.

Single-track repeat ──────→ All-track repeat

Repeat off
(indicator turns off)
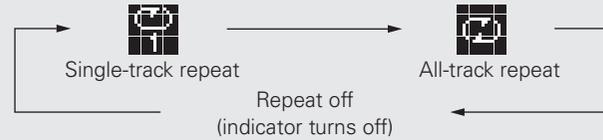
(Single-track repeat)	Only 1 track plays repeatedly.
(All-track repeat)	All tracks within the current playback folder are repeated.
Repeat off (indicator turns off)	Normal playback resumes.

Playing random order (Random playback)

1 Press [RANDOM].

2 Press <▶/II ENTER> or [▶/II].

The ✕ indicator lights in the display, and random playback starts.

❏ Canceling random playback

Press **[RANDOM]**.

The ✕ indicator on the display turns off.

❏ USB operation

Operation buttons	Function
[I◀◀ ▶▶I]	Auto search (cue)
▶/II	Playback / Pause
[■]	Stop
△▽	Cursor operation / Auto search (cue, △▽)
ENTER or ▷	Enter / Playback
◁	Display the menu or return to the previous menu
[SEARCH]	Character search *1
[HOME]	Return to top page
[REPEAT]	Repeat playback
[RANDOM]	Random playback *2

*1 Press **[SEARCH]**, then press **[ENTER]** to select the first letter you want to search mode.

*2 When playing files stored on a USB memory device using the random play function, when a track has finished playing, the next track is selected at random from all of the tracks on the device. For this reason, the same track may be played back to back.

❏ Switching the display

During playback, Press [DISPLAY].

• The display switches each time **[DISPLAY]** is pressed.

Artist name ──────→ Album name

File type/Bitrate
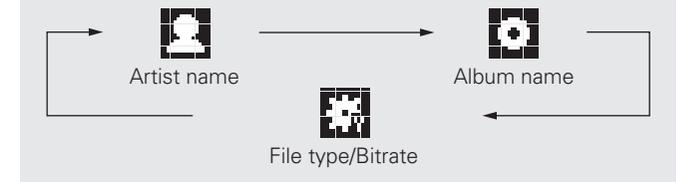
AirPlay function

You can play back your iTunes music library through this unit.
You can also use the Apple Remote app✱ on your iPhone or iPod touch to control your iTunes music library on the same network.

✱ Available as a free download from the App Store.

Streaming music stored in iPhone or iPod touch directly to the unit

If you update your "iPhone/iPod touch" to iOS 4.2.1 or later, you can stream music stored in your "iPhone/iPod touch" directly to this unit.

1 **Start the music mode on the iPhone or iPod touch.**
 is displayed on the iPhone or iPod touch screen.

2 **Tap the AirPlay icon ⬜**
Set "Network Standby" (☞page 30) to "Network On" for this unit.

NOTE

When "Network Standby" is set to "Network On", the unit consumes more standby power.

3 **Select the speaker you want to use.**
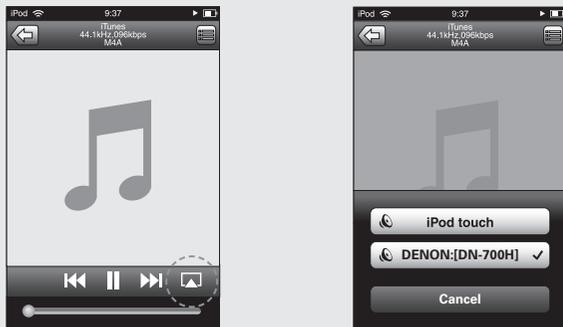
Playing iTunes music on this unit

1 **Install iTunes 10, or later, on a Mac or PC that is connected to the same network as this unit.**

2 **Turn this unit ON.**
Set "Network Standby" (☞page 30) to "Network On" for this unit.

NOTE

When "Network Standby" is set to "Network On", the unit consumes more standby power.

3 **Launch iTunes and click the AirPlay icon ⬜ displayed in the lower right of the window and select this unit from the list.**
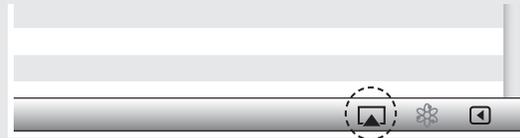
4 **Choose a song and click play in iTunes.**
The music will stream to this unit.

❏ Multiple speakers

You can easily stream music from iTunes to multiple speakers in your home.

1 **Click the AirPlay icon ⬜ and select "Multiple Speakers" from the list.**

2 **Check the speakers you want to use.**

Multiple Speakers

Master Volume

☐ My Computer
This Computer

☑ DENON:[DN–700H]
AirPlay Device
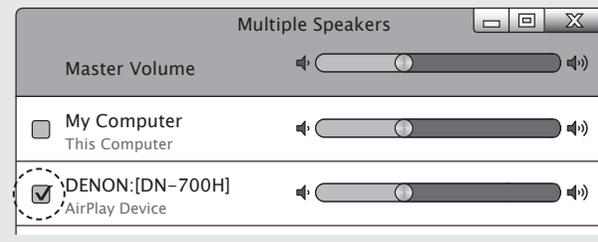
Remote operations

You can use your DENON remote control to play and pause iTunes, as well as skip to next and previous tracks.

1 **Open Preferences in iTunes, and click "Devices".**

2 **Check "Allow iTunes control from remote speakers".**

Devices

General Playback Sharing Store Parental Devices Advanced

Device backups:

Delete Backup ...

☐ Prevent iPods, iPhones, and iPads from syncing automatically
☑ Warn when more than 5% of the data on this computer will be changed
☑ Allow iTunes control from remote speakers
iTunes is not paired with any Remotes   Forget All Remotes

Reset Sync History

?   OK   Cancel

✐
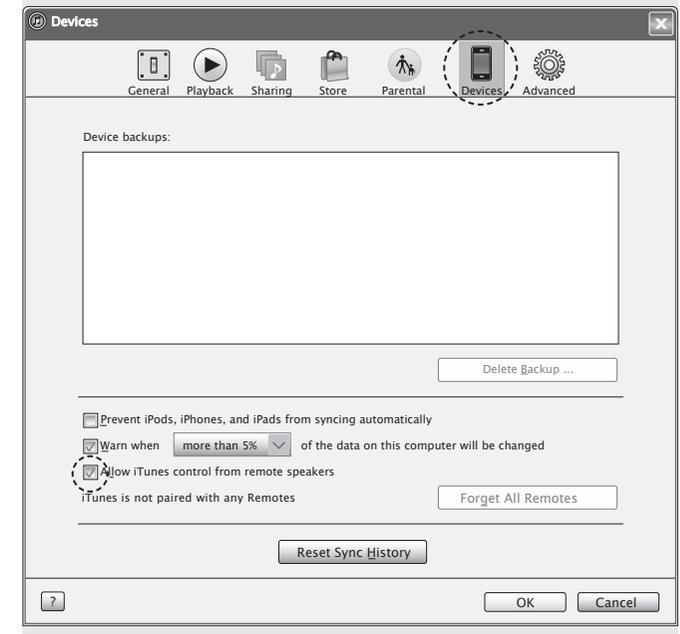
• Source input will be switched to "AirPlay" when AirPlay playback is started.
• You can stop AirPlay playback by pressing the ◁ or choosing other input source.
• To see artist name or album name together, press the **[DISPLAY]**.
• For information about how to use iTunes, also see the Help for iTunes.
• The screen may differ depending on the OS and software versions.

See the illustration on the previous page for details of the buttons used for the operations on this page.

Advanced operations

Menu map

Setting items	Detailed items			Description	Page
Network	**Network First Setup**			Performs the network settings using a Wizard style window.	–
[Network] 1/9 ‡**Network First Setup** ◉:enter ◀:return	**Connection**			Performs the wired connection settings.	29
		DHCP (On) or **DHCP (Off)**		Performs the DHCP setting.	29
		IP Address＊1		Performs the IP address setting.	29
		Subnet Mask＊1		Performs the subnet mask setting.	29
		Gateway＊1		Performs the gateway setting.	29
		Primary DNS＊1		Performs the primary DNS setting.	29
		Secondary DNS＊1		Performs the secondary DNS setting.	29
		Proxy		Performs the proxy setting.	30
		Connection		Performs the wired LAN connection.	29
	Pandora Account＊2			Performs the Pandora account setting again.	17
	Rhapsody Account＊2			Performs the Rhapsody account setting again.	18
	Other Network			Performs other network settings.	30
		Network Standby		Performs the ON/OFF settings for the network function when in standby mode.	30
		PC Language		Selects the language to be used for displaying the Internet sites.	31
		Friendly Name Edit		Edits a name displayed on the Internet.	31
		Update Notification		Set the Update notification on/off.	31
		Upgrade Notification		Set the Upgrade notification on/off.	31
	Network Info			Displays various information about the network.	–
Other	**Auto Standby**			Sets the unit power to standby when the unit is not in use.	32
[Other] 1/5 ‡**Auto Standby** ◉:enter ◀:return	**Power on Play**			Automatically receives Internet Radio, USB memory device, AM and FM when the primary power is on.	32
	IR Remote			Disables reception on the IR remote controller.	33
	Key Lock			Performs key lock settings.	33
		All		The operation of the front panel is invalidated.	33
		Manual		Performs key lock of each buttons.	33
			PLAY/PAUSE	The operation of the ▶▐▐/ENTER button is invalidated.	33
			Cursor	The operation of the **Cursor** button is invalidated.	33
			SOURCE	The operation of the **SOURCE** button is invalidated.	33
			FAVORITE	The operation of the **FAVORITE** button is invalidated.	33
	Screen Saver			Activates the screen saver.	33
	Firmware Update			Updates the firmware.	34
	Add New Feature			Displays new functions that can be downloaded, and upgrades functions.	34
	Language			Sets the language.	35

＊1 Displayed when the "DHCP" setting (☞page 29) is "Off".

＊2 U.S.A. and Canada models only.

Symbols used to indicate buttons in this manual

Button located on both the main unit and the remote control
→ **BUTTON**

Button only on the main unit → **<BUTTON>**

Button only on the remote control → **[BUTTON]**

△▽ ▷

DENON

ON/STANDBY

<▶/II ENTER>

ON/STANDBY

SOURCE

FAVORITE | INTERNET RADIO | MUSIC SERVER

ONLINE MUSIC | USB/iPod | TUNER

INTERNET RADIO PRESET
1 | 2 | 3

TUNER PRESET

PRESET | PARTY MODE | TUNING

MENU

[MENU]

MODE

[ENTER]

△▽ ▷

1 | 2 ABC | 3 DEF
4 GHI | 5 JKL | 6 MNO
7 PQRS | 8 TUV | 9 WXYZ
+10 | 0 | CLEAR

[NUMBER]
(0 – 9, +10)

RANDOM | REPEAT | DIMMER | DISPLAY

DENON
RC-1159
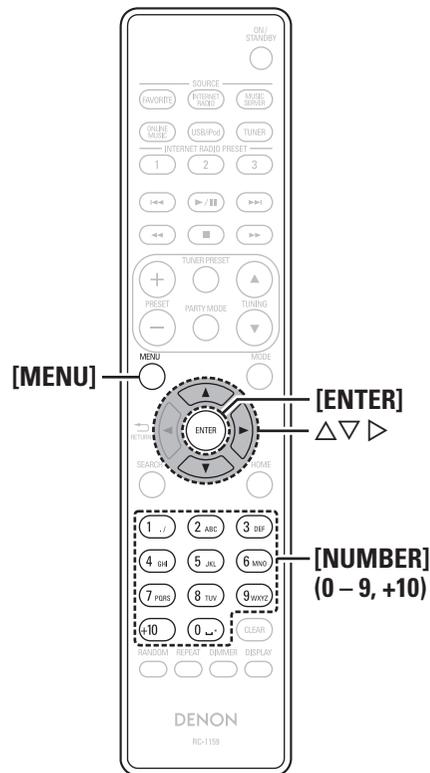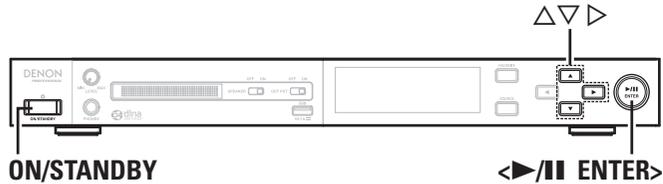
🔧 **Setting the network [Network]**

• For details on "Network First Setup" (☞page 10).
• If you cancelled "Network First Setup" menu or changed the network environment, perform "Menu" – "Network" – "Network First Setup".

Connecting wired LAN

Use this procedure to configure the wired LAN settings.

❏ Network connecting
(when "DHCP"settings are "On")

When using this unit with the broadband router's DHCP function enabled, this unit automatically performs the IP address setting and other settings.

1 Connect the ETHERNET cable (☞page 7 "Connecting to a network (LAN)").

2 Press **ON/STANDBY** to turn on power to the main unit.

3 Press **[MENU]**.
Turns on the Menu settings mode and the Menu appears on the display (☞page 28 "Menu map").

4 Use △▽ to select "Network" – "Connection" – "DHCP (On)", then press **[ENTER]**, **<▶/II ENTER>** or ▷.
"Select DHCP" menu appears.

5 Use △▽ to select "On", then press **[ENTER]**, **<▶/II ENTER>** or ▷.
"Setup Wired" menu appears.

6 Use △▽ to select "Connection", then press **[ENTER]**, **<▶/II ENTER>** or ▷.
"Connecting" is displayed, and the unit starts connecting to the LAN.

• When the connection is made successfully, "Succeeded" appears.
• If the connection cannot be established, "Connection Failed" is displayed. Perform steps 1 – 5 again.

✎

You may need to set the network connection manually, depending on the provider you use. To set the connection manually, use the setting procedure of "Network connecting (when "DHCP" settings are "Off")".

❏ Network connecting
(when "DHCP" settings are "Off")

This section explains the settings when connecting this unit to a network that does not have a DHCP function.

✎

To configure the settings manually, check the setting details with your network administrator.

1 Perform steps 1 – 4 of the "Network connecting (when "DHCP"settings are "On")" procedure and select "Off" in step 5.
"Select DHCP" menu appears.

2 Use △▽ to select "IP Address", then press **[ENTER]**, **<▶/II ENTER>** or ▷.
"Input IP Address" menu appears.

3 Use △▽▷ or **[NUMBER] (0 – 9)** to input the IP address and press **[ENTER]** or **<▶/II ENTER>**.

4 Use △▽▷ or **[NUMBER] (0 – 9)** to input the address for "Subnet Mask", "Gateway", "Primary DNS", and "Secondary DNS".

5 Use △▽ to select "Connection", then press **[ENTER]**, **<▶/II ENTER>** or ▷.
"Connecting" is displayed, and the unit starts connecting to the LAN.

• When the connection is made successfully, "Succeeded" appears.
• If the connection cannot be established, "Connection Failed" is displayed. Perform steps 1 – 4 again.

Getting started | Connections | Basic operations | **Advanced operations** | Information | Explanation terms | Troubleshooting | Specifications | Index

Symbols used to indicate buttons in this manual

Button located on both the main unit and the remote control
→ **BUTTON**

Button only on the main unit ——————→ **<BUTTON>**

Button only on the remote control ————→ **[BUTTON]**

△▽ ▷

<►/II ENTER>

[MENU]

[ENTER]

△▽ ▷

[NUMBER]
(0 – 9, +10)
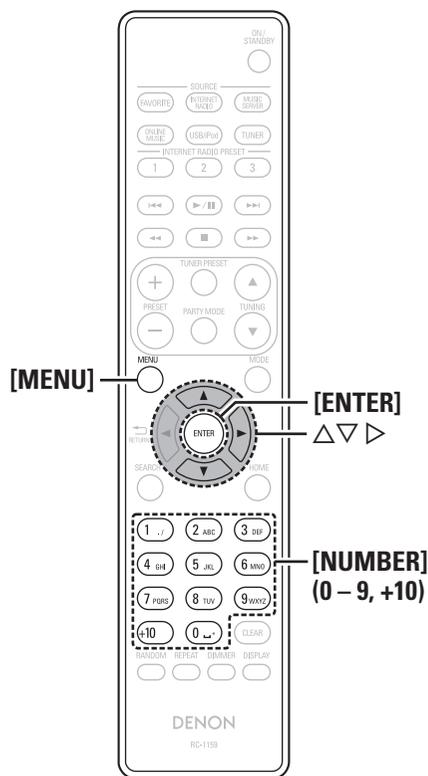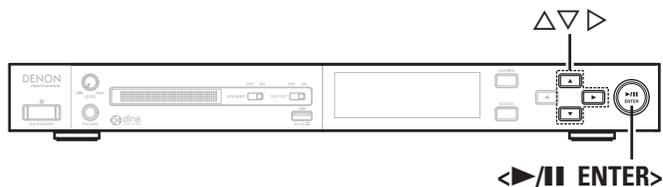
❏ **Proxy settings**
Configure these settings to connect to the internet via a proxy server.

1 **Press [MENU].**
Turns on the Menu settings mode and the Menu appears on the display (☞page 28 "Menu map").

2 **Use △▽ to select "Network" – "Connection" – "Proxy", then press [ENTER], <►/II ENTER> or ▷.**
"Setup Proxy" menu appears.

3 **If "Proxy(On)" appears, go to step 5.**
If "Proxy(Off)" appears, press [ENTER], <►/II ENTER> or ▷.
"Select Proxy" menu appears.

4 **Use △▽ to select "On", then press [ENTER], <►/II ENTER> or ▷.**
"Setup Proxy" menu appears.

5 **Use △▽ to select "Proxy (Address)" or "Proxy (Name)", then press [ENTER], <►/II ENTER> or ▷.**
"Select Type" menu appears.

6 **Use △▽ to select "Address" or "Name", then press [ENTER], <►/II ENTER> or ▷.**
"Setup Proxy" menu appears.

7 **Use △▽ to select "Address" or "Name", then press [ENTER], <►/II ENTER> or ▷.**
"Input Proxy Address" or "Input Proxy Name" menu appears.

8 **Use △▽▷ or [NUMBER] (0 – 9) to input the address or name, then press [ENTER] or <►/II ENTER>.**
"Setup Proxy" menu appears.

9 **Use △▽ to select "Port", then press [ENTER], <►/II ENTER> or ▷.**
"Input Proxy Port" menu appears.

10 **Use △▽▷ or [NUMBER] (0 – 9) to input the port, then press [ENTER] or <►/II ENTER>.**
The Proxy settings are completed.

Other network settings

❏ **Network Standby**
Set the network function On/Off during standby.

1 **Press [MENU].**
Turns on the Menu settings mode and the Menu appears on the display (☞page 28 "Menu map").

2 **Use △▽ to select "Network" – "Other Network" – "Network Standby", then press [ENTER], <►/II ENTER> or ▷.**
"Network Standby" menu appears.

3 **Use △▽ to "Network On", then press [ENTER], <►/II ENTER> or ▷.**

Network On Network is on during standby. Main unit operable with a network compatible controller. Shortens the time before the network connection is completed.
• When "Network Standby" is set to "Network On", the power display lights orange.
• More power is consumed when in standby (Power consumption: 7.5 W).

Network Off Suspend network function during standby. It will take slightly longer till the network connection is completed.
• The minimum amount of power is consumed when in standby (Power consumption: 0.2 W).
• This is the default setting.

4 **Press [MENU].**
The display returns to normal.

❏ PC Language

Selects the language to be used for displaying the Internet sites.

1 **Press [MENU].**
Turns on the Menu settings mode and the Menu appears on the display (☞page 28 "Menu map").

2 **Use △▽ to select "Network" – "Other Network" – "PC Language", then press [ENTER], <►/II ENTER> or ▷.**
"PC Language" setting menu appears.

3 **Use △▽ to select computer environment language, then press [ENTER], <►/II ENTER> or ▷.**

❏ Friendly Name Edit

The Friendly Name is the name of this unit displayed on the network (Maximum 63 characters).

1 **Press [MENU].**
Turns on the Menu settings mode and the Menu appears on the display (☞page 28 "Menu map").

2 **Use △▽ to select "Network" – "Other Network" – "Friendly Name Edit", then press [ENTER], <►/II ENTER> or ▷.**
"Friendly Name Edit" menu appears.

3 **Select the friendly name (DENON:[DN-700H]), and press [ENTER], <►/II ENTER> or ▷.**

4 **Edit a friendly name.**

• For character input, see page 38.

Update Notification

Displays a notification message on this unit's menu screen when the latest firmware is released with "Firmware Update".
Connect to broadband Internet (☞page 7) when using this function.

1 **Press [MENU].**
Turns on the Menu settings mode and the Menu appears on the display (☞page 28 "Menu map").

2 **Use △▽ to select "Network" – "Other Network" – "Update Notification", then press [ENTER], <►/II ENTER> or ▷.**
"Update Notification" menu appears.

3 **Use △▽ to "On", then press [ENTER], <►/II ENTER> or ▷.**

On	Display update message.
Off	Do not display update message.

✎

• When you press **[ENTER]** or **<►/II ENTER>** during display of the notification message, the "Check for Update" is displayed. (Refer to page 34 for more information on "Firmware Update".)
• Press ◁ to erase the notification message.

Upgrade Notification

Display a notification message on this unit's menu screen when downloadable firmware is released with "Add New Feature".
Connect to broadband Internet (☞page 7) when using this function.

1 **Press [MENU].**
Turns on the Menu settings mode and the Menu appears on the display (☞page 28 "Menu map").

2 **Use △▽ to select "Network" – "Other Network" – "Upgrade Notification", then press [ENTER], <►/II ENTER> or ▷.**
"Upgrade Notification" menu appears.

3 **Use △▽ to "On", then press [ENTER], <►/II ENTER> or ▷.**

On	Display upgrade message.
Off	Do not display upgrade message.

✎

• When you press **[ENTER]** or **<►/II ENTER>** during display of the notification message, the "Add New Feature" is displayed. (Refer to page 34 for more information on "Add New Feature".)
• Press ◁ to erase the notification message.

See the illustration on the previous page for details of the buttons used for the operations on this page.

Symbols used to indicate buttons in this manual

Button located on both the main unit and the remote control
→ **BUTTON**

Button only on the main unit ————→ **<BUTTON>**

Button only on the remote control ————→ **[BUTTON]**

<SOURCE> <FAVORITE> △▽ ▷
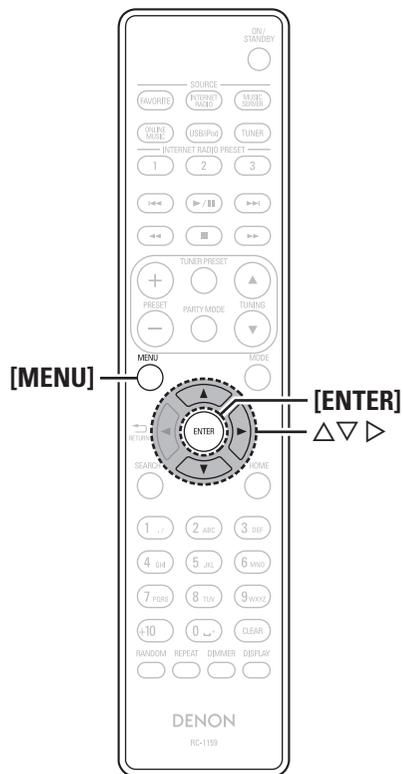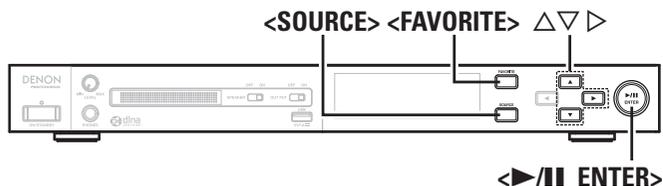
<►/▌▌ ENTER>

[MENU]

[ENTER]
△▽ ▷

Setting the others [Other]

Auto Standby

With the Auto Standby ON, this unit will automatically enter the standby mode after about 30 continuous minutes of stop mode with no operation.
• The default setting is "On".

1 **Press [MENU].**
Turns on the Menu settings mode and the Menu appears on the display (☞page 28 "Menu map").

2 **Use △▽ to select "Other" – "Auto Standby", then press [ENTER], <►/▌▌ ENTER> or ▷.**
"Select Auto Standby" menu appears.

3 **Use △▽ to select "On", then press [ENTER], <►/▌▌ ENTER> or ▷.**
The setting is entered.

NOTE

In the following situations, the Auto standby function does not operate.
• When an iPod or USB memory device is connected to the USB port on the unit.
• When the input source is "TUNER".
• When the input source being played is "Internet Radio", "Music Server", "Pandora" or "Rhapsody".

Power on Play

When the power plug is inserted into the power outlet, the power switches on automatically and the last received radio station is played back.
• The default setting is "Off".

1 **Press [MENU].**
Turns on the Menu settings mode and the Menu appears on the display (☞page 28 "Menu map").

2 **Use △▽ to select "Other" – "Power on Play", then press [ENTER], <►/▌▌ ENTER> or ▷.**
"Power on Play" menu appears.

3 **Use △▽ to select "On", then press [ENTER], <►/▌▌ ENTER> or ▷.**

On When Internet Radio or AM/FM broadcast was received last, the power switches on automatically and the station received last is played.
If USB memory device was played last, the power switches on automatically, and the file from the first folder in the root directory of the USB memory device is played.

Off The unit remains in standby mode.

NOTE

• The only input sources that can be played by the Power on play function are "Internet Radio", "USB", "AM" and "FM". All other input sources are stopped at their first respective screen.
• If there is no file in the first folder in the root directory of the USB memory, files in the USB memory cannot be played using the Power on Play function.

IR Remote

To prevent mistaken operation, you can disable the remote signal sensor function for the supplied remote control.

• The default setting is "Enable".

1 **Press [MENU].**
Turns on the Menu settings mode and the Menu appears on the display (☞page 28 "Menu map").

2 **Use △▽ to select "Other" – "IR Remote", then press [ENTER], <▶/Ⅱ ENTER> or ▷.**
"IR Setting" menu appears.

3 **Use △▽ to select "Disable", then press [ENTER], <▶/Ⅱ ENTER> or ▷.**

| **Enable** | Enables the remote control signal sensor function. |
| **Disable** | Disables the remote control signal sensor function. |

NOTE

When "Disable" is selected, the remote control cannot be used to operate this unit.

Key Lock

To prevent mistaken operation, you can lock the operation buttons on the main unit to disable operation from the main unit. You can select whether to lock all buttons or to lock specific buttons.

• The default setting is "Enable".

1 **Press [MENU].**
Turns on the Menu settings mode and the Menu appears on the display (☞page 28 "Menu map").

2 **Use △▽ to select "Other" – "Key Lock", then press [ENTER], <▶/Ⅱ ENTER> or ▷.**
"Key Lock" menu appears.

3 **Use △▽ to select "All" or "Manual Lock", then press [ENTER], <▶/Ⅱ ENTER> or ▷.**

| **All** | Locks all operation buttons on the main unit. |
| **Manual** | Locks selected operation buttons on the main unit. |

4 **[When "Manual Lock" is selected]**
Press △▽ to select the buttons that you want to lock, then press [ENTER], <▶/Ⅱ ENTER> or ▷.

PLAY/PAUSE	Locks the <▶/Ⅱ ENTER> button.
Cursor	Locks the △▽◁ ▷ buttons.
SOURCE	Locks the <SOURCE> button.
FAVORITE	Locks the <FAVORITE> button.

5 **Use △▽ to select "Disable", then press [ENTER], <▶/Ⅱ ENTER> or ▷.**

| **Enable** | Enables the selected operation buttons. |
| **Disable** | Disables the selected operation buttons. |

🖉

Press and hold **<SOURCE>** for at least 1 second to lock all of the operation buttons on the unit, and disable operations from the unit (☞page 39 "Locking operation buttons on the unit"). When all of the buttons are locked, press and hold **<SOURCE>** for at least 1 second to cancel the lock, and enable operations from the unit (☞page 39 "Cancelling the operation button lock on the unit").

Screen Saver

Use the following procedure to set the screen saver.
When the Screen Saver is set to "On", if no operations are performed for more than 30 minutes, the Screen Saver function operates.
When the Screen Saver function operates, the source icon at the top left of the display flashes.
When a button on the unit or remote control is pressed, the Screen Saver function is cancelled.

• The default setting is "Off".

1 **Press [MENU].**
Turns on the Menu settings mode and the Menu appears on the display (☞page 28 "Menu map").

2 **Use △▽ to select "Other" – "Screen Saver", then press [ENTER], <▶/Ⅱ ENTER> or ▷.**
"Screen Saver" menu appears.

3 **Use △▽ to select "On", then press [ENTER], <▶/Ⅱ ENTER> or ▷.**

See the illustration on the previous page for details of the buttons used for the operations on this page.

Symbols used to indicate buttons in this manual

Button located on both the main unit and the remote control
→ **BUTTON**

Button only on the main unit ——→ **<BUTTON>**

Button only on the remote control ——→ **[BUTTON]**

△▽ ▷

<▶/❚❚ ENTER>

[MENU]

[ENTER]

△▽ ▷
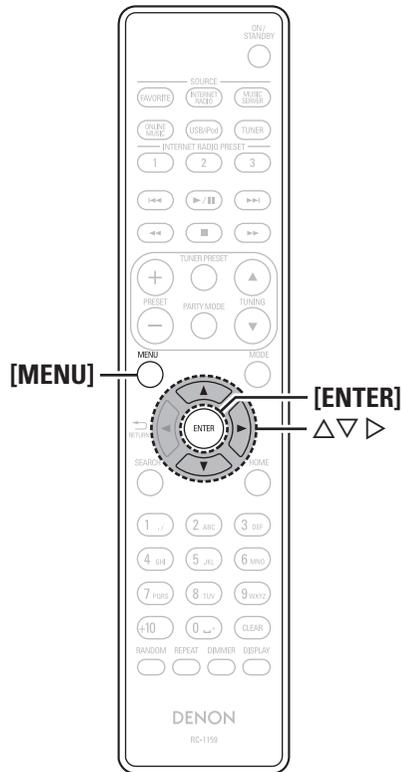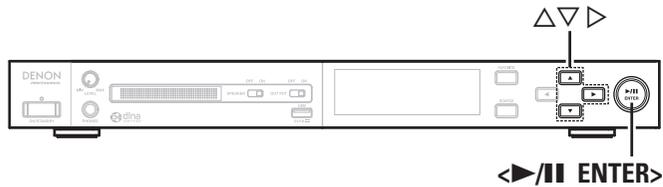
Firmware Update

• In order to update the firmware, the environment and settings required for connecting to broadband internet are needed (☞page 7).

• Perform the firmware update operation after at least 2 minutes has elapsed since turning this unit's power ON.

1 Press [MENU].
Turns on the Menu settings mode and the Menu appears on the display (☞page 28 "Menu map").

2 Use △▽ to select "Other" – "Firmware Update", then press [ENTER], <▶/❚❚ ENTER> or ▷.

Check for Update	Check for firmware updates. You can also check approximately how long it will take to complete an update.
Start	Execute the update process.

• If updating fails, the set automatically retries, but if updating is still not possible, one of the messages shown below is displayed. If the display reads as shown below, check the settings and network environment, then update again.

Display	Description
Updating fail	Updating failed.
Login failed	Failure to log into server.
Server is busy	Server is busy. Wait a while then try again.
Connection fail	Failure in connecting to server.
Download fail	Downloading of the firmware has failed.

Add New Feature

• In order to add new functions, the environment and settings required for connecting to broadband internet are needed (☞page 7).

• Perform the add new feature operation after at least 2 minutes has elapsed since turning this unit's power on.

1 Press [MENU].
Turns on the Menu settings mode and the Menu appears on the display (☞page 28 "Menu map").

2 Use △▽ to select "Other" – "Add New Feature", then press [ENTER], <▶/❚❚ ENTER> or ▷.

Start Upgrade	Execute the upgrade process.

• If the upgrade is not successful, an error message identical to those in "Firmware Update" (☞page 34) will appear on the display. Check the settings and network environment, then update again.

Upgrade Status	Display a list of the additional functions provided by the upgrade.
Upgrade ID	The ID number shown on this screen is needed when carrying out the procedure.

✐

See the D&M Professional website for details about updates.
When the procedure is complete, "Registered" is displayed and updates can be carried out. If the procedure has not been carried out, "Not Registered" is displayed.

[Notes concerning use of "Firmware Update" and "Add New Feature"]

• Do not turn off the power until updating or upgrading is completed.

• Even with a broadband connection to the Internet, approximately 20 minutes is required for the updating/upgrading procedure to be completed.

• Once updating/upgrade starts, normal operations on this unit cannot be performed until updating/upgrading is completed.

• Furthermore, updating/upgrading the firmware may reset the backup data for the parameters, etc. set for this unit.

• If the update or upgrade fails, remove and re-insert the power cord. "Update Retry" appears on the display and update restarts from the point at which update failed. If the error continues despite this, check the network environment.

🖉

• Information regarding the "Firmware Update" function and "Add New Feature" will be announced on the D&M Professional web site each time related plans are defined.

• When usable new firmware is released with "Firmware Update" or "Add New Feature", a notification message is displayed on the menu screen. When you do not want to be notified, set "Update Notification" (☞page 31) and "Upgrade Notification" (☞page 31) to "Off".

Language

Sets the language for display the menu.

• The factory language setting is "English".

1 Press [MENU].
Turns on the Menu settings mode and the Menu appears on the display (☞page 28 "Menu map").

2 Use △▽ to select "Other" – "Language", then press [ENTER], <►/II ENTER> or ▷.

| English | / | Deutsch | / | Français | / | Italiano | / | Spanish |

See the illustration on the previous page for details of the buttons used for the operations on this page.

Symbols used to indicate buttons in this manual

Button located on both the main unit and the remote control
→ **BUTTON**

Button only on the main unit ——→ **<BUTTON>**

Button only on the remote control ——→ **[BUTTON]**

<FAVORITE> △▽ ▷▽

<▶/❚❚ ENTER>

[FAVORITE]

[TUNER]

[■]

[TUNER PRESET]

[PRESET +, –]

[TUNING ▲▼]

[MODE]

[MENU]

[ENTER]

△▽◁ ▷

[SEARCH]

[HOME]

[NUMBER]
(0 – 9, +10)

[DISPLAY]

Tuning in radio stations (Europe model only)

RDS (Radio Data System)

Note that the RDS function only works when receiving RDS compatible stations.

RDS (works only on the FM band) is a broadcasting service which allows a station to send additional information along with the regular radio program signal.

The following four types of RDS information can be received with this unit:

❑ RDS Search

Use this function to automatically tune to FM stations that provide the RDS service.

1 Press **[TUNER]** to switch the input source to "TUNER (FM)".

• For details on selecting the input source using the unit buttons, see "Selecting the input source using unit operations" (☞page 9).

2 Press **[SEARCH]**.

3 Use △▽ to select "RDS Search", then press **[ENTER]**, **<▶/❚❚ ENTER>** or ▷.

Automatically begin the RDS search operation.

• If no RDS station is found, "No Programme" is displayed.

Viewing information during reception

Press **[DISPLAY]** while receiving a RDS to display the information currently being broadcast.

PS *1 → Freq. *2

RT ← PTY

*1 Program service name
• If a station name is entered, it is displayed.

*2 Frequency

PTY (Program Type)

PTY identifies the type of RDS program.
The program types and their displays are as follows:

NEWS	News	**WEATHER**	Weather
AFFAIRS	Current Affairs	**FINANCE**	Finance
INFO	Information	**CHILDREN**	Children's programmes
SPORT	Sports		
EDUCATE	Education	**SOCIAL**	Social Affairs
DRAMA	Drama	**RELIGION**	Religion
CULTURE	Culture	**PHONE IN**	Phone In
SCIENCE	Science	**TRAVEL**	Travel
VARIED	Varied	**LEISURE**	Leisure
POP M	Pop Music	**JAZZ**	Jazz Music
ROCK M	Rock Music	**COUNTRY**	Country Music
EASY M	Easy Listening Music	**NATION M**	National Music
		OLDIES	Oldies Music
LIGHT M	Light Classical	**FOLK M**	Folk Music
CLASSICS	Serious Classical	**DOCUMENT**	Documentary
OTHER M	Other Music		

❑ PTY Search

Use this function to find RDS stations broadcasting a designated program type (PTY).

For a description of each program type, refer to "PTY (Program Type)".

1 Press **[TUNER]** to switch the input source to "TUNER (FM)".

• For details on selecting the input source using the unit buttons, see "Selecting the input source using unit operations" (☞page 9).

2 Press **[SEARCH]**.

3 Use △▽ to select "PTY Search", then press **[ENTER]**, **<▶/❚❚ ENTER>** or ▷.

4 Use △▽ to call out the desired program type, then press **[ENTER]**, **<▶/❚❚ ENTER>** or ▷.

Automatically begin the PTY search operation.

• If no program of the specified type is found, "No Programme" is displayed.

TP (Traffic Program)

TP identifies programs that carry traffic announcements.
This allows you to easily find out the latest traffic conditions in your area before leaving home.

❏ TP Search

Use this function to find RDS stations broadcasting traffic programs (TP stations).

1 **Press [TUNER] to switch the input source to "TUNER (FM)".**

• For details on selecting the input source using the unit buttons, see "Selecting the input source using unit operations" (☞page 9).

2 **Press [SEARCH].**

3 **Use △▽ to select "TP Search", then press [ENTER], <▶/❙❙ ENTER> or ▷.**

Automatically begin the TP search operation.

• "No Programme" is displayed when there is no traffic information broadcast station.

RT (Radio Text)

RT allows RDS stations to send text messages that appear on the display.

✎

• When the RT mode is turned on while an RDS broadcast station not offering an RT service is tuned in, "NO TEXT" is displayed on the display.
• The RT mode cannot be set in the AM band or for FM stations not offering RDS broadcasts.

NOTE

The operations described below selecting "RDS Search" will not function in areas in which there are no RDS broadcasts.

❏ Tuner (FM/AM) operation

Operation buttons	Function
[FAVORITE]	Calls the Favorite function
<FAVORITE> (Press and release)	Plays back the radio station or file at the top of the Favorite List
<FAVORITE> (Press and hold)	Registers the radio station currently being played back to the Favorite List
[PRESET +, −]	Preset channel selection
[TUNER PRESET]	Preset menu
[■]	Stop
[TUNING ▲▼]	Tuning (up/down)
[MENU]	Menu
[MODE]	Switch search modes
△▽◁ ▷	Cursor operation (Up/Down/Left/Right)
ENTER	Enter
[SEARCH]	RDS search / PTY search / TP search / Auto preset
[HOME]	Return to top page
[0 – 9, +10]	Preset channel selection

See the illustration on the previous page for details of the buttons used for the operations on this page.

Symbols used to indicate buttons in this manual

Button located on both the main unit and the remote control
→ **BUTTON**

Button only on the main unit ————→ **<BUTTON>**
Button only on the remote control ————→ **[BUTTON]**

<SOURCE> △▽ ▷▽

<ON/STANDBY>   **<▶/Ⅱ ENTER>**

[▶▶Ⅰ]

[MODE]

[ENTER]
△▽◁ ▷

**[NUMBER]
(0 – 9, +10)**

[CLEAR]
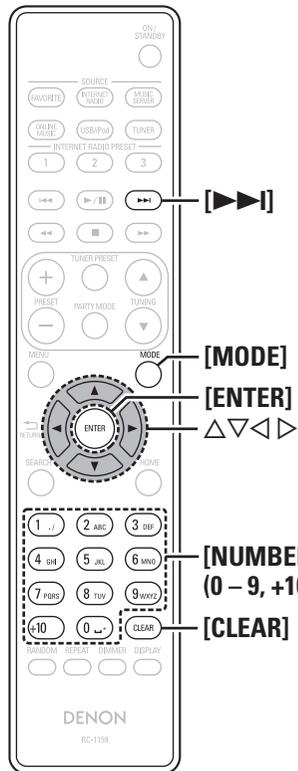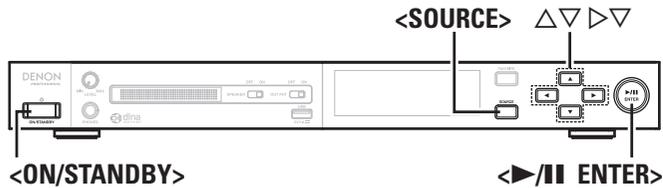
Other functions

Inputting characters

On this unit, the names displayed for "Giving station names to preset channels" (☞page 20) etc., screens can be changed as desired.
For inputting characters, there are two methods, as shown below.

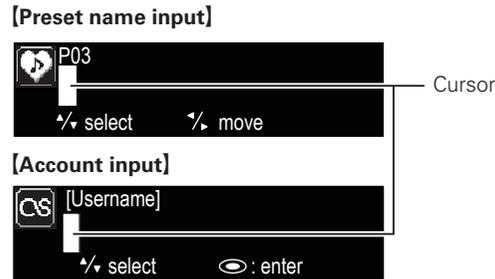| Method	Operations
Using the number buttons	• Operating with the remote control unit. • Multiple characters are assigned to a button, and each time the button is pressed, a character is switched.
Using the cursor buttons	• Operating with the remote control unit or the main unit. • Use △▽◁ ▷ and **[ENTER]** or **<▶/Ⅱ ENTER>** to input characters.

❏ Display of an input screen

【Preset name input】

P03

⁺/₋ select   ⁺/₋ move   Cursor

【Account input】

[Username]

⁺/₋ select   ◉ : enter

Using the number buttons

1 Display the screen for inputting characters.

2 Place the cursor at the character to be changed with ◁ ▷ and press **[NUMBER]** (0 – 9) until the desired character is displayed.

• The types of characters that can be input are as shown below.

(1 ./) **1 . @ - _ / : ~**   (6 MNO) **m n o M N O 6**
(2 ABC) **a b c A B C 2**   (7 PQRS) **p q r s P Q R S 7**
(3 DEF) **d e f D E F 3**   (8 TUV) **t u v T U V 8**
(4 GHI) **g h i G H I 4**   (9 WXYZ) **w x y z W X Y Z 9**
(5 JKL) **j k l J K L 5**   (0 ⌴) **0** (Space) **! " # $ % & ' ( ) ∗ + , ; < = > ? [\ ] ^ ` { | }**

• The input character type can be switched by pressing **[MODE]** while the display name is being changed.
• Press **[CLEAR]** to delete the character.
• For entering the characters assigned to one number button continuously, press ▷ to move the cursor to the right after entering a character then enter the next character.
• For entering characters assigned to separate buttons, press the number button continuously. The cursor automatically moves to the next position, and the entered character is registered.

3 Repeat step 2 to change the name then press **[ENTER]** or **<▶/Ⅱ ENTER>** to register it.

Example: For changing characters from "POPS" to "ROCK"

① Place the cursor at "P".   ▸ **P** O P S

② Press (7 PQRS) seven times.   ▸ **R** O P S
    "P" changes to "R".

③ Press ▷ twice.   ▸ R O **P** S
    "R" is automatically registered, and the cursor placed "P".

④ Press (2 ABC) six times.   ▸ R O **C** S
    "P" changes to "C".

⑤ Press ▷.   ▸ R O C **S**
    "C" is registered and the cursor placed "S".

⑥ Press (5 JKL) five times.   ▸ R O C **K**
    "S" changes to "K".

⑦ Press **[ENTER]** or **<▶/Ⅱ ENTER>** to register the input name.

ENGLISH

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Using the cursor buttons

1 **Display the screen for inputting characters.**

2 **Use ◁ ▷ to set the cursor to the character you want to change.**

3 **Use △▽ to change the character.**

• The types of characters that can be input are as shown below.

【Lower case characters】
abcdefghijklmnopqrstuvwxyz
【Upper case characters】
ABCDEFGHIJKLMNOPQRSTUVWXYZ
【Symbols】 **! " # $ % & ' ( ) * + , - . / : ; < = > ? @ [\ ] ^ _ ` { | } ~**
【Numbers】 **0123456789** (Space)

• The input character type can be switched by pressing **[MODE]** while the display name is being changed.
• Press **[CLEAR]** to delete the character.
• Press **[▶▶|]** to insert a space.

4 **Repeat steps 2 and 3 to change the name then press [ENTER] or <▶/|| ENTER> to register it.**

Last function memory

This stores the settings as they were immediately before going into the standby mode.
When the power is turned back on, the settings are restored to as they were immediately before going into the standby mode.

Locking operation buttons on the unit

Press and hold <SOURCE> for at least 1 seconds.
This locks all operation buttons on the main unit.
• All of the operation buttons on the unit turn off.
• If any of the buttons on the unit are pressed when the operation buttons are locked, "Key Locked" is displayed.

✎

To set the lock for individual buttons, see "Key Lock" (☞page 33).

Cancelling the operation button lock on the unit

When the operation buttons are locked, press and hold <SOURCE> for more than 1 second.
The lock is cancelled for the operation buttons on the unit, and operation for all of the buttons is enabled.

Restart

If for some reason the unit does not respond during use, or the power cannot be switched ON/OFF, restart the unit.

Press and hold <ON/STANDBY> for at least 5 seconds.
The unit automatically restarts.

✎

• If the unit does not restart when the operation above is performed, disconnect the power cord from the rear panel of the unit, re-connect it and then switch the power on.
  If operations still cannot be performed correctly, reset the microprocessor.
• This unit can be used continually for up to 24 hours. Continuing to use this unit for longer than 24 hours may result in operations failing to function correctly. To continue use for longer than 24 hours, restart the unit every 24 hours.

Resetting the microprocessor

Perform this procedure if the display is abnormal or if operations cannot be performed.
When the microprocessor is reset, all the settings are reset to their default values.

1 **Pull the power cord out of the power outlet.**

2 **Plug the power cord into a power outlet while pressing <SOURCE> and <▶/|| ENTER> simultaneously.**

3 **When the power indicator lights green, release the buttons.**
"Initialized" appears in the display.

✎

If "Initialized" does not display in step 3, start over from step 1.

See the illustration on the previous page for details of the buttons used for the operations on this page.

Serial remote control function

In the Serial remote control function, a host such as a computer is connected to the unit. By sending control commands from the host to the unit, the unit can be operated, and the status information of the unit can be checked both on the unit and host. There are 2 methods for connecting the host and unit, namely RS-232C control and IP Control.

RS-232C control

You will be able to perform the three control functions from the host by connecting an RS-232C straight cable to the RS-232C serial terminal (9-pin D-sub) connector.

【**Three control functions**】

① **Controlling and operating DN-700H from the host** (☞page 41)

② **Sending the status information to the host when DN-700H receives a status request command from the host** (☞page 41)

③ **Automatically sending the status information to the host when there is a change to the DN-700H status**(☞page 41)

❏ **Communication format**
• Compatible Connector: 9-pin D-sub (male)
• Communication speed: 9,600 Bps
• Data Bit: 8 Bit
• Parity: None
• Stop Bit: 1 Bit
• Flow Control: None

Pin Arrangement

Pin Number	Signal Name
1	Ground
6	NC
2	TxD
7	NC
3	RxD
8	NC
4	NC
9	NC
5	S. Ground

❏ **Connections**

Host

RS-232C straight cable

40
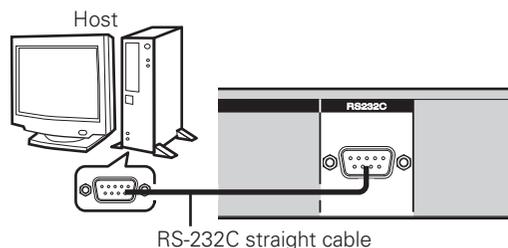
IP Control (Ethernet)

You will be able to perform the three control functions from the host by connecting an ethernet cable to the ethernet connector (Connector type:RJ-45 (10BASE-T/100BASE-TX).
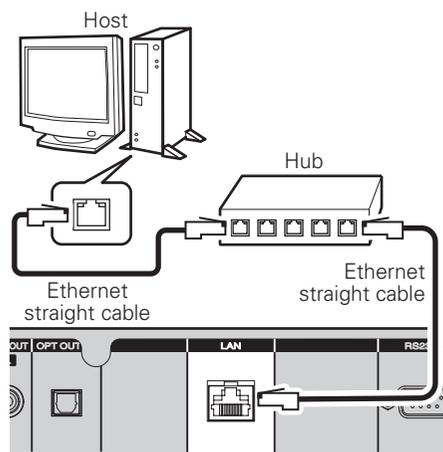
❏ **Communication format:**
• Communication system: A full duplex
• Communication speed: 10Mbps/100Mbps
• Communication port: TCP port 23 (telnet)
• Communication data length: 135bytes (maximum)

❏ **Connections**

① **Connecting the unit and host directly**

Host

Ethernet cross cable
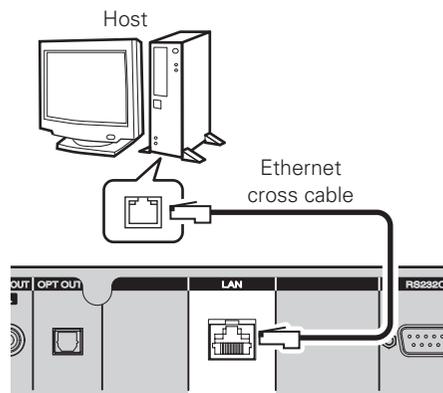
② **Connecting the unit and host via a hub**

Host

Hub

Ethernet straight cable

Ethernet straight cable

Communication protocol

The following three data forms are defined.

COMMAND

The message sent to a system from a host.
A command to a system is given from a host.
Refer to the following table for the contents of "Control command code table" (☞page 42).

RESPONSE

The message is sent to a host from a system.
If the 'request command' (COMMAND+?+CR(0x0D)) has came from a host.
The RESPONSE should be sent within 200ms of receiving the COMMAND.
The form of RESPONSE presupposes that it is the same as that of EVENT.
Refer to the following table for the contents of "Status request and status information code table" (☞page 44).

EVENT

The message sent to a host from a system.
The result is sent, when a system is operated directly and a state changes.
The form of EVENT presupposes that it is the same as that of COMMAND.
Refer to the following table for the contents of "Event Status Command table" (☞page 45).

❏ **Basic specification**
The command by ASCII CODE, parameter expression

NOTE

ASCII CODE which can be used is from 0x20 to 0x7F: the alphabet and the number of 0-9, and space (0x20), some signs, AND carriage return (0x0D) --- It is used only as a pause sign.

❏ Structure of Control Commands

Each packet of a control command begins with the COMMAND and ends with the End Character "0x0D" as shown below.

COMMAND	PARAMETER		End Character
			CR (0x0D)

COMMAND + PARAMETER + CR (0x0D)
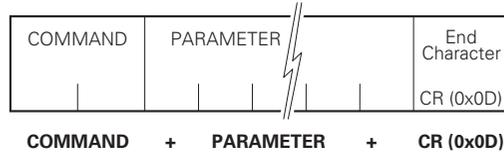
COMMAND: ASCII CODE of 2 characters
PARAMETER: ASCII CODE (up to 25 characters)

NOTE

To confirm the status information of the unit, send COMMAND + ? + CR to the unit from the host.
The unit status information is sent to the host.
For "Status request and status information code table" (☞page 44).

❏ Structure of Command Codes

| Item	Value (the hex value is indicated in parentheses)
Command	Indicate a description of the command.
Parameter	Indicate a description of the parameter.
End character	'CR'(0 x 0D)

The response timeout is 200 msec.

✎

• When a command is received, DN-700H responds within 200 msec.
• If DN-700H does not respond with either command even after 200 msec have elapsed, the next command is accepted.
• COMMAND is receivable also during transmission of EVENT.
• The RESPONSE should be sent as opposed to the request command by all the commands with which an EVENT exists , not need to the another request commands (ex. SV command).
• 1 seconds later, please transmit the next COMMAND after transmitting a power on COMMAND (PWON).

① **Controlling and operating DN-700H from the host**

When DN-700H receives a control command from the host, the unit executes the command.

Handshake flow charts for control command
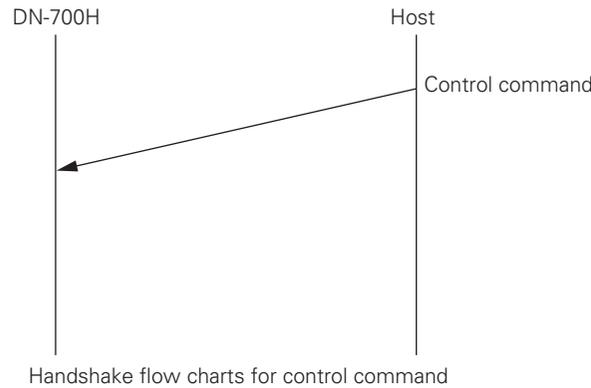
For "Control command code table" (☞page 42).

② **Sending the status information for a status request command from the host**

When DN-700H receives a status request command from the host, the unit responds the status information.
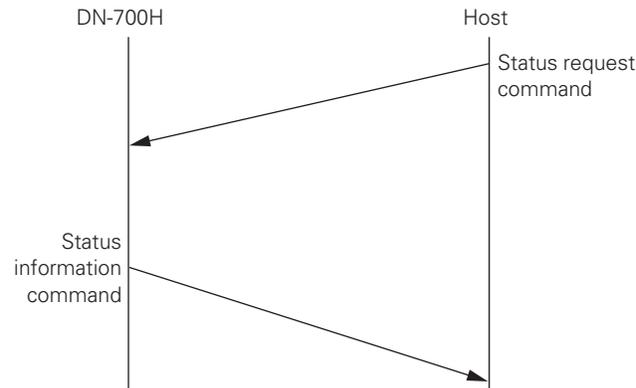
Handshake flow charts for status request command

For "Status request and status information code table" (☞page 44).

③ **Automatically sending the status information when there is a change to the DN-700H status**

When there is a change to the DN-700H status, DN-700H automatically sends the status information to the host.
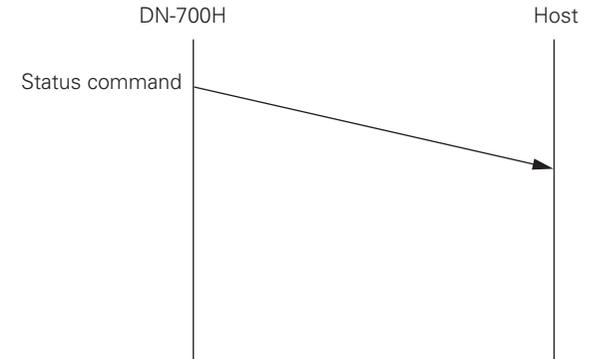
Handshake flow charts for status command

The commands used for sending status information are the same as the status information commands used for ②.
For "Status request and status information code table" (☞page 44).

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❏ Control command code table

CATEGORY	CONTENTS	COMMAND	PARAMETER	CODE	REMARKS
POWER	POWER ON	PW	ON	PWON<CR>	Operation is only possible using IP Control
	STANDBY		STANDBY	PWSTANDBY<CR>	
Input Source	Internet Radio	SI	InternetRadio	SIIRADIO<CR>	
	Music Server		MusicServer	SISERVER<CR>	
	USB		USB	SIUSB<CR>	
	Analog Tuner (AM/FM)		Analog Tuner(AM/FM)	SITUNER<CR>	
	RHAPSODY		RHAPSODY	SIRHAPSODY<CR>	Operation is only for U.S.A. and Canada models.
	PANDORA		PANDORA	SIPANDORA<CR>	Operation is only for U.S.A. and Canada models.
Favorite	FAVORITE direct change to No.**	FV	**	FV**<CR>	**: Favorite No
	"Cursor Up" Control	MN	CUP	MNCUP<CR>	
	"Cursor Down" Control		CDN	MNCDN<CR>	
	"Cursor Left" Control		CLT	MNCLT<CR>	
	"Cursor Right" Control		CRT	MNCRT<CR>	
	"Enter" Control		ENT	MNENT<CR>	
	"FAVORITE ON"		FAV ON	MNFAVON<CR>	
	"FAVORITE OFF"		FAV OFF	MNFAVOFF<CR>	
Analog Tuner (AM/FM)	TUNER Frequency UP	TF	ANUP	TFANUP<CR>	TF COMMAND: '*' parameters can NOT operate when INPUT source isn't TUNER.
	TUNER Frequency DOWN		ANDOWN	TFANDOWN<CR>	
	TUNER Frequency direct change		AN******	TFAN*******<CR>	****.** kHz at AM band (>050000 is AM.)(6 digits) *Only enabled when receiving AM broadcasts ****.** MHz at FM band (<050000 is FM.)(6 digits) *Only enabled when receiving FM broadcasts
	TUNER PRESET CHANNEL UP	TP	ANUP	TPANUP<CR>	TP COMMAND: '*' parameters can NOT operate when INPUT source isn't TUNER.
	TUNER PRESET CHANNEL DOWN		ANDOWN	TPANDOWN<CR>	
	TUNER PRESET direct change to No.**		(PRESET No.)	TPAN**<CR>	**: TUNER PRESET No
	TUNER PRESET MEMORY		ANMEM**	TPANMEM**<CR>	
	Band set to AM	TM	ANAM	TMANAM<CR>	
	Band set to FM		ANFM	TMANFM<CR>	
	Return TM Status		?	TM?<CR>	
	Tuning mode set to AUTO mode		ANAUTO	TMANAUTO<CR>	
	Tuning mode set to MANUAL mode		ANMANUAL	TMANMANUAL<CR>	

CATEGORY	CONTENTS	COMMAND	PARAMETER	CODE	REMARKS
Internet Radio Music Server USB iPod direct Online Service	"Play" Control (Internet Radio/Music Server /USB) "Play/Pause" Control (iPod Direct)	@TP	PLAY	@TPPLAY	
	"Pause" Control "Play/Pause" Control (iPod Direct)		PLAYPAUSE	@TPPLAYPAUSE	
	"Stop" Control		STOP	@TPSTOP	
	"Skip Plus" Control		JUMP+	@TPJUMP+	
	"Skip Minus" Control		JUMP-	@TPJUMP-	
	"Cursor Up" Control	NS	90	NS90<CR>	
	"Cursor Down" Control		91	NS91<CR>	
	"Cursor Left" Control		92	NS92<CR>	
	"Cursor Right" Control		93	NS93<CR>	
	"Repeat One"		9H	NS9H<CR>	USB/iPod DIRECT/Music Server
	"Repeat All"		9I	NS9I<CR>	USB/iPod DIRECT/Music Server
	"Repeat Off"		9J	NS9J<CR>	USB/iPod DIRECT/Music Server
	"Random On/Repeat ALL"		9K	NS9K<CR>	USB/ Music Server
	"Shuffle Songs" Control				iPod Direct Only
	"Random Off"		9M	NS9M<CR>	USB/ Music Server
	"Shuffle Off" Control				iPod Direct Only
	"Browse Mode/Remote Mode" Control		9W	NS9W<CR>	iPod Direct Only
	Preset1 Call	NSP	P1	NSP1<CR>	
	Preset2 Call		P2	NSP2<CR>	
	Preset3 Call		P3	NSP3<CR>	
	Preset1 Memory		P1 MEM	NSP1 MEM<CR>	
	Preset2 Memory		P2 MEM	NSP2 MEM<CR>	
	Preset3 Memory		P3 MEM	NSP3 MEM<CR>	
	Preset Name: P1		*	NSP01**********<CR>	************: 20 digits
	Preset Name: P2		*	NSP02**********<CR>	************: 20 digits
	Preset Name: P3		*	NSP03**********<CR>	************: 20 digits
	"Direct Character Search"(except iPod Direct)	NSD	*	NSD*<CR>	*: 0-9, A-Z

❑ Status request and status information code table

When the DN-700H receives a status request command from the host, it sends the status information to the host.
When there is a change to the DN-700H status, the DN-700H automatically sends the status information to the host.

Statrus request command (Host → DN-700H)			Status infomation command (DN-700H → Host)		REMARKS
Request.		Command	Response	Command	
POWER	PW Status	PW?<CR>	ON	PWON<CR>	
			STANDBY	PWSTANDBY<CR>	
Input Source	Input Source Status	SI?<CR>	TUNER	SITUNER<CR>	
			InternetRadio	SIIRADIO<CR>	
			MusicServer	SISERVER<CR>	
			USB	SIUSB<CR>	
Favorite	Favorite number status	FV?<CR>	Favorite number No.**	FV**<CR>	
Analog Tuner (AM/FM)	Frequency Status	TFAN?<CR>	Frequency	TFAN*******<CR>	****.** kHz at AM band (>050000 is AM.) (6 digits) *Only enabled when receiving AM broadcasts ****.** MHz at FM band (<050000 is FM.) (6 digits) *Only enabled when receiving FM broadcasts
	Preset Status	TPAN?<CR>	Preset number	TPAN**<CR>	**: TUNER PRESET No
	Mode Status	TM?<CR>	Auto mode	TMANAUTO<CR>	
			Manual mode	TMANMANUAL<CR>	
Internet Radio Music Server USB iPod direct Online Service	Onscreen Display Information List	NSE<CR> UTF-8 CODE Character	Displays current screen information	NSE0*************_?????<CR> NSE1※************_?????<CR> NSE2※************_?????<CR> NSE3※************_?????<CR> NSE4※************_?????<CR> NSE5※************_?????<CR> NSE6※************_?????<CR> NSE7*************_?????<CR> NSE8*************_?????<CR> NSE9*************_?????<CR>	*: UTF-8 CODE Character (MAX95byte) ?: Don't Care (The character after Null should be disregarded) _: Null ※: Cursor&Playable Music Information Data (1Byte) Bit1: Playable Music =1 Bit2, 3: Don't Care Bit4: CURSOR SELECT=1 Bit5, 6, 7, 8: Don't Care ************_?????: 96byte Fixed
	Net Audio Preset 1-3 status (UTF-8)	NSP<CR>	Displays the registered Preset name	NSP01 - NSP03	

❏ Event Status Command table

Unit event information is displayed.

EVENT	CONTENTS	EVENT	PARAMETER	CODE	REMARKS
POWER	POWER ON	PW	ON	PWON\<CR>	
	STANDBY		STANDBY	PWSTANDBY\<CR>	
Input Source	InternetRadio	SI	InternetRadio	SIIRADIO\<CR>	
	MusicServer		MusicServer	SISERVER\<CR>	
	USB		USB	SIUSB\<CR>	
	Analog Tuner(AM/FM)		Analog Tuner(AM/FM)	SITUNER\<CR>	
	RHAPSODY		RHAPSODY	SIRHAPSODY\<CR>	Operation is only for U.S.A. and Canada models.
	PANDORA		PANDORA	SIPANDORA\<CR>	Operation is only for U.S.A. and Canada models.
Favorite	"FAVORITE NAME" Request	FV	**	FV**aaaa_???????\<CR>	*: FAVORITE No. , a: Character Length(MAX32byte), _: Null
			aaaa_???????		?: Don't Care (The character after Null should be disregarded)
					**aaaa_?????: 35byte Fixed
Analog Tuner (AM/FM)	TUNER Frequency change	TF	AN******	TFAN****.**\<CR>	****.** kHz at AM band (6 digits)
					****.** MHz at FM band (6 digits)
	TUNER PRESET change to No.**		AN**(PRESET No.)	TPAN**\<CR>	**(PRESET No.)
	Band set to AM	TP	ANAM	TMANAM\<CR>	
	Band set to FM		ANFM	TMANFM\<CR>	
	Tuning mode set to AUTO mode		ANAUTO	TMANAUTO\<CR>	
	Tuning mode set to MANUAL mode	TM	ANMANUAL	TMANMANUAL\<CR>	
Onscreen Display Information	Answered By the NSE Command. Display Line0 Information	NSE	0	NSE0*************_?????\<CR>	*: UTF-8 CODE Character (MAX95byte) ?: Don't Care (The character after Null should be disregarded) _: Null ※: Cursor&Playable Music Information Data (1Byte) Bit1: Playable Music =1 Bit2, 3: Don't Care Bit4: CURSOR SELECT=1 Bit5, 6, 7, 8: Don't Care *************_?????: 96byte Fixed
	Display Line1 Information		1	NSE1※************_?????\<CR>	
	Display Line2 Information		2	NSE2※************_?????\<CR>	
	Display Line3 Information		3	NSE3※************_?????\<CR>	
	Display Line4 Information		4	NSE4※************_?????\<CR>	
	Display Line5 Information		5	NSE5※************_?????\<CR>	
	Display Line6 Information		6	NSE6※************_?????\<CR>	
	Display Line7 Information		7	NSE7*************_?????\<CR>	
	Display Line8 Information		8	NSE8*************_?????\<CR>	
	Display Line9 Information		9	NSE9*************_?????\<CR>	

Getting started

Connections

Basic operations

Advanced operations

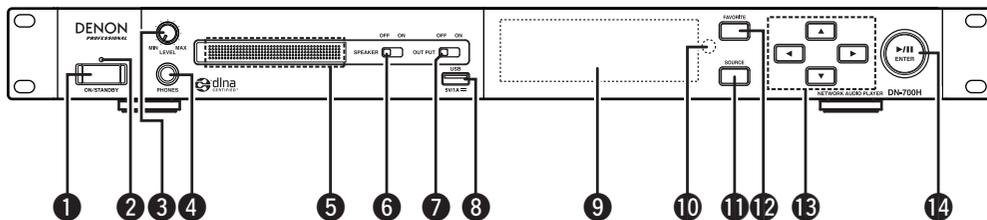Information

Explanation terms

Troubleshooting

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Index

Information

Part names and functions

For buttons not explained here, see the page indicated in parentheses ( ).

Front panel

**q Power operation button
(ON/STANDBY)** ··· (8)
Turns power to this unit on and off (standby).

w Power indicator ··· (8)
The power indicator changes as shown below according to the status of the unit.
• Standby ....Red
• Network standby................................. Orange
• Auto standby...Off

> **NOTE**
>
> The DENON PROFESSIONAL logo on the front panel lights blue when the power is turned on.

e Volume adjustment knob (LEVEL) ············· (5)
Adjusts the volume of headphones and the front speakers.
Press the switch to make it spring out. After adjusting the volume, press the switch back in again.

r Headphones jack (PHONES) ························· (5)

t Front speaker

**y Speaker output switch
(SPEAKER ON/OFF)** ······································ (4)
Switch to "ON" to output audio from the front speakers of the unit.
When this switch is "OFF", sound is not output from the front speakers of the unit.

**u Audio output switch
(OUT PUT ON/OFF)** ·· (4)
Switch to "ON" to output audio from an external device connected to the unit.
When this switch is "OFF", sound is not output from the external device.

i USB port··· (23, 25)
Used to connect USB memory devices or iPod.

o Display
Displays play status, settings, etc.

Q0 Remote control sensor ································ (3)

Q1 Input source select button (SOURCE) ········ (9)
Selects the input source.

Q2 Favorite button (FAVORITE) ······················ (22)
Calls stations or files registered in the favorite list. Also registers stations or files to the favorite list.

Q3 Cursor buttons (△▽◁ ▷) ····························· (9)

Q4 Play/Pause button (▶/Ⅱ) ····························· (9)

ENTER button ·· (9)

> The buttons on the unit are lit when they can be operated, and off when they cannot be operated.

Rear panel
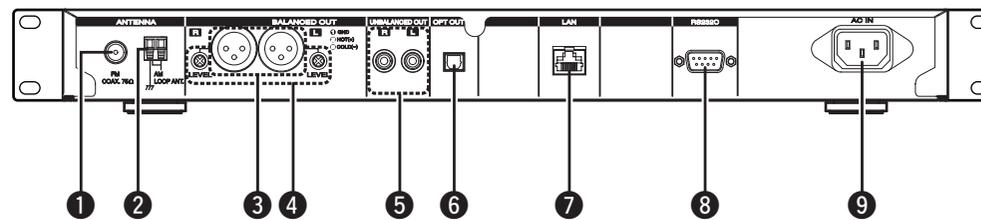
q FM antenna terminal······································ (6)
Connect the supplied FM indoor antenna. Connect to an external antenna if reception is poor.

w AM antenna terminal ····································· (6)
Connect to the supplied AM roop antenna.

e BALANCED OUT connectors ······················· (4)
Connect a separate Amplifier, Mixer, or Pre amplifier (sold separately).
Use the following types of cable to connect the devices.
• XLR Type
• Pin Arrangement: 1GND, 2 Hot, 3 Cold
• Applicable Connector: XLR-3-11C or equivalent

r LEVEL control knob······································· (4)
Adjust the volume level for balanced output.

t UNBALANCED OUT connectors ················· (4)
Connect a separate Amplifier, Mixer, or Pre amplifier (sold separately).
Use an RCA Type cable to connect the devices.

y Digital out connector (OPT OUT)··············· (5)
Connect a digital device such as a commercially available AV receiver or D/A converter.

u LAN connector··· (7)

i RS232C connector ·· (5)

o AC inlet (AC IN)··· (8)
Connect the supplied power cord.

ENGLISH

Part names and functions

Getting started | Connections | Basic operations | Advanced operations | Information | Explanation terms | Troubleshooting | Specifications | Index

Remote control

This section explains the buttons used to playback each input source.

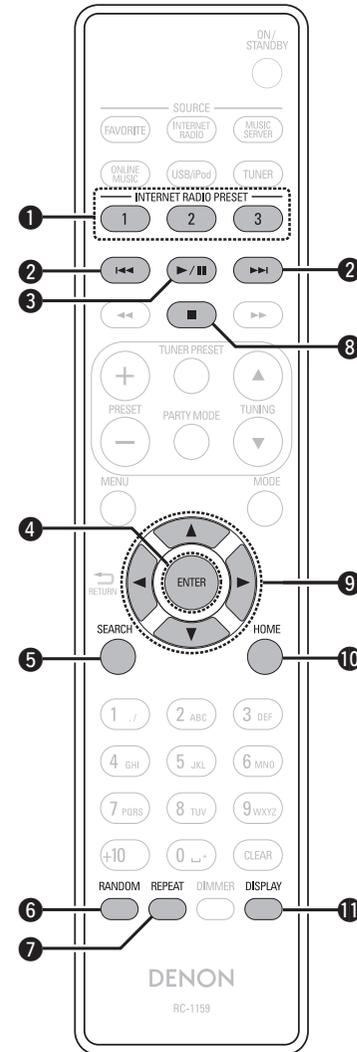## ❏ Buttons that work with all input sources (USB/iPod, TUNER and network)
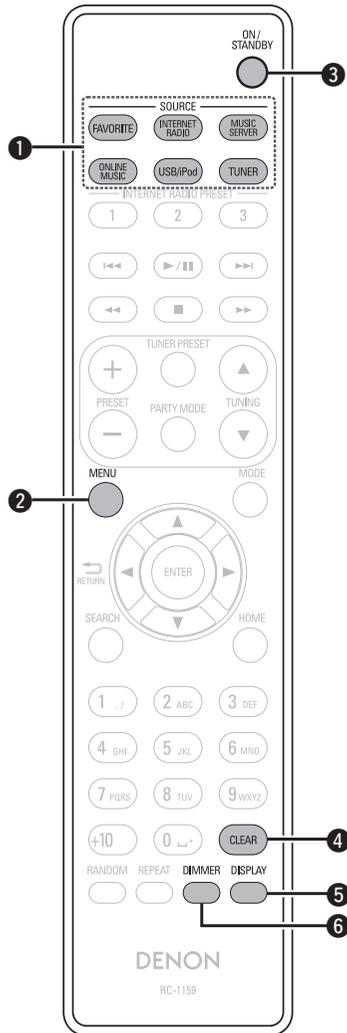
q **Input source select button** ·························· (9)
w **MENU button** ··· (23)
e **ON/STANDBY button** ·································· (8)
r **CLEAR button** ······································ (38, 39)
t **DISPLAY button** ·· (13)
y **DIMMER button** ··· (9)

NOTE

The PARTY MODE button is not used for any operations on this unit.
Also, the ONLINE MUSIC button is not used on European models.

❏ Buttons that work when the input source is "Internet Radio", "Music Server", "Pandora" or "Rhapsody"
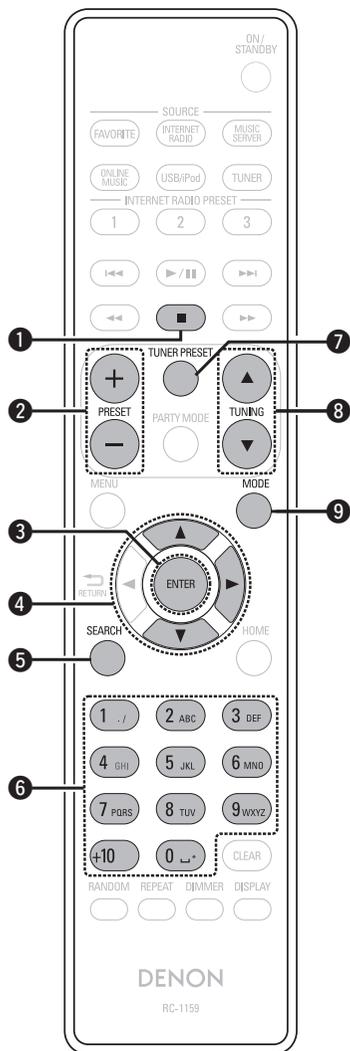
"Buttons that work with all input sources (USB/iPod, TUNER and network)" can also be used.

q **INTERNET RADIO PRESET buttons** ·········· (12)
w **Reverse-skip/Forward-skip buttons**
  (8**, **9**)** ·· (16)
e **Play/Pause button (**1/3**)** ·························· (16)
r **ENTER button** ··· (12)
t **SEARCH button** ·· (13)
y **RANDOM button** ······································ (16)
u **REPEAT button** ·· (16)
i **Stop button (**2**)** ···································· (13)
o **Cursor buttons (**uiop **)** ·························· (12)
Q0 **HOME button** ··· (13)
Q1 **DISPLAY button** ·· (12)

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❏ Buttons that work when the input source is "TUNER"

"Buttons that work with all input sources (USB/iPod, TUNER and network)" can also be used.

❏ Buttons that work when the input source is "USB/iPod"

"Buttons that work with all input sources (USB/iPod, TUNER and network)" can also be used.

iPod®

Made for
iPod iPhone

AirPlay

"Made for iPod" and "Made for iPhone" mean that an electronic accessory has been designed to connect specifically to iPod, or iPhone, respectively, and has been certified by the developer to meet Apple performance standards.

Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPod, or iPhone, may affect wireless performance.

AirPlay, the AirPlay logo, iPhone, iPod, iPod classic, iPod nano, iPod shuffle, and iPod touch are trademarks of Apple Inc., registered in the U.S. and other countries.

• Individual users are permitted to use iPhone, iPod, iPod classic, iPod nano, iPod shuffle, and iPod touch for private copy and playback of non-copyrighted contents and contents whose copy and playback is permitted by law. Copyright infringement is prohibited by law.

USB memory device

Important information

A USB memory device can be connected to the USB port of this unit to play music files stored on the USB memory device.

Also, files stored on an iPod can be played when the iPod is connected directly to the USB port of this unit. See "iPod® playback" (☞page 23).

• Only USB memory devices conforming to mass storage class and MTP (Media Transfer Protocol) standards can be played on this unit.
• This unit is compatible with USB memory devices in "FAT16" or "FAT32" format.

If the number of files stored in a USB memory device exceeds 1,000, the access speed may become slower.

【Types of files that can be played back by each function】

	USB memory devices ∗1
WMA (Windows Media Audio)	✓∗2
MP3 (MPEG-1 Audio Layer-3)	✓
WAV	✓
MPEG-4 AAC	✓∗3
FLAC (Free Lossless Audio Codec)	✓

∗1 USB
   • This unit is compatible with MP3 ID3-Tag (Ver. 2) standard.
   • This unit is compatible with WMA META tags.
   • WAV format Quantization bit rate: 16 bits.
∗2 Copyright-protected files can be played on certain portable players compatible with MTP.
∗3 Only files that are not protected by copyright can be played on this unit.
   Content downloaded from pay sites on the Internet are copyright protected. Also, files encoded in WMA format when ripped from a CD, etc. on a computer may be copyright protected, depending on the computer's settings.

【Playback file specifications】

	Sampling frequency	Bit rate	Extension
WMA (Windows Media Audio)	32/44.1/48 kHz	48 – 192 kbps	.wma
MP3 (MPEG-1 Audio Layer-3)	32/44.1/48 kHz	32 – 320 kbps	.mp3
WAV	32/44.1/48 kHz	–	.wav
MPEG-4 AAC	32/44.1/48 kHz	16 – 320 kbps	.aac/ .m4a/ .mp4
FLAC (Free Lossless Audio Codec)	32/44.1/48/ 88.2/96 kHz	–	.flac

Network audio

Important information

❏ About the internet radio function

• Internet radio refers to radio broadcasts distributed over the Internet.
  Internet radio stations from around the world can be received.
• This unit is equipped with the following Internet radio functions:
  • Stations can be selected by genre and region.
  • Internet radio stations can be preset (☞page 12).
  • Internet radio stations in MP3 and WMA (Windows Media Audio) format can be listened to.
  • Your favorite radio stations can be registered by accessing an exclusive DENON Internet radio URL from a Web browser on a computer.
• The function is managed for individual users, so you must provide your MAC or e-mail address.
  Exclusive URL: http://www.radiodenon.com
• The radio station database service may be suspended without notice.
• This unit's Internet radio station list is created using a radio station database service (vTuner). This database service provides a list edited and created for this unit.

❏ Music server

This function lets you play music files and playlists (m3u, wpl) stored on a computer (music server) connected to this unit via a network.
With this unit's network audio playback function, connection to the server is possible using one of the technologies below.
• Windows Media Player Network Sharing Service
• Windows Media DRM10

〔Types of files that can be played back by each function〕

Format*8	Internet radio	Music server *1		
		Windows Media Player 11	Windows Media Player 12	DLNA Server*3
WMA (Windows Media Audio) (with DRM)	*5	✓	✓	*4
WMA (Windows Media Audio) (without DRM)	✓	✓	✓	✓
MP3 (MPEG-1 Audio Layer-3)	✓	✓	✓	✓
WAV (Liner PCM)	*5	✓	✓	✓
m4a (iTunes AAC, without DRM)	*5	*6	✓*2	✓*2
FLAC (Free Lossless Audio Codec)	*5	*7	*7	✓

A server or server software compatible with distribution in the corresponding formats is required to play music files via a network.

*1 Music server
  • This unit is compatible with MP3 ID3-Tag (Ver. 2) standard.
  • This unit is compatible with WMA META tags.
  • WAV format Quantization bit rate: 16 bits.
*2 Only files that are not protected by copyright can be played on this unit.
  Content downloaded from pay sites on the Internet are copyright protected. Also, files encoded in WMA format when ripped from a CD, etc. on a computer may be copyright protected, depending on the computer's settings.
*3 Depending on the DLNA server specifications, formats that can be distributed may differ. Check the manual of your DLNA server. This table assumes the use of Twonky Media ver.4.4 (http://www.twonkyvison.de/). DLNA server software such as Twonky Media must be purchased separately.
*4 DLNA servers do not support the distribution of DRM contents.
*5 DN-700H supports the playback of MP3 and WMA (no copyright protection) format Internet Radio Stations.
*6 Windows Media Player 11 does not support m4a format distribution.
*7 Windows Media Player 11 and Windows Media Player 12 do not support FLAC format.
*8 For FLAC format files, 32/44.1/48/88.2/96kHz 16/24bit 2channel attribute files can be played. For other file formats (MP3, WMA, m4A, WAV), 32/44.1/48 kHz 16bit 2channel attribute files can be played.

〔Playback file specifications〕

	Sampling frequency	Bit rate	Extension
WMA (Windows Media Audio)	32/44.1/48 kHz	48 – 192 kbps	.wma
MP3 (MPEG-1 Audio Layer-3)	32/44.1/48 kHz	32 – 320 kbps	.mp3
WAV	32/44.1/48 kHz	–	.wav
MPEG-4 AAC	32/44.1/48 kHz	16 – 320 kbps	.aac/ .m4a/ .mp4
FLAC (Free Lossless Audio Codec)	32/44.1/48/ 88.2/96 kHz	–	.flac

NOTE

• When using Twonky Media, if there are more than 300 subfolders stored in the selected folder, music files may not be recognized.
• When using Windows Media Player 11, if there are more than 10000 music files registered in the selected folder, music files may not be recognized.
• Depending on the Music server used, the pause operation may be unavailable.

❏ About Pandora®

Pandora® is free personalized internet radio that helps you discover new music you'll love mixed in with music you already know. You can instantly listen to your own personalized radio stations that are created by simply entering a favorite artist, song, comedian or genre.
When you first listen to Pandora®, it is necessary to subscribe to a Pandora® account at the Pandora® homepage on your PC and register this machine. See the Pandora® website for details.
http://www.pandora.com/denon
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❏ About Rhapsody

Rhapsody is a paid music broadcast service of RealNetworks.
When you first listen to Rhapsody, it is necessary to subscribe to a Rhapsody account at the Rhapsody homepage by your PC and register this machine. See the Rhapsody homepage for details.
http://www.rhapsody.com/denon

Explanation terms

A

AirPlay

AirPlay sends (plays) contents recorded in iTunes or on an iPhone/iPod touch to a compatible device via the network.

B

Bit rate

This expresses the read amount per 1 second of video/audio data recorded in a disc. A larger number means higher sound quality, but also means a larger file size.

D

DLNA

DLNA and DLNA CERTIFIED are trademarks and/or service marks of Digital Living Network Alliance. Some contents may not be compatible with other DLNA CERTIFIED™ products.

DRM

DRM stands for Digital Rights Management. It is a general term that describes technology or functions that are used to protect the copyright of digital content such as music and movies.

F

FLAC

FLAC stands for Free lossless Audio Codec, and is a lossless free audio file format. Lossless means that the audio is compressed without any loss in quality. The FLAC license is as shown below.

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I

iTunes

iTunes is the name of the multimedia player provided by Apple Inc. It enables management and playback of multimedia contents including music and movies. iTunes supports many main file formats including AAC, WAV, and MP3.

M

MP3 (MPEG Audio Layer-3)

This is an internationally standardized audio data compression scheme, using the "MPEG-1" video compression standard. It compresses the data volume to about one eleventh its original size while maintaining sound quality equivalent to a music CD.

MPEG (Moving Picture Experts Group), MPEG-2, MPEG-4

These are the names for digital compression format standards used for the encoding of video and audio. Video standards include "MPEG-1 Video", "MPEG-2 Video", "MPEG-4 Visual", "MPEG-4 AVC". Audio standards include "MPEG-1 Audio", "MPEG-2 Audio", "MPEG-4 AAC".

S

Sampling frequency

Sampling involves taking a reading of a sound wave (analog signal) at regular intervals and expressing the height of the wave at each reading in digitized format (producing a digital signal).

The number of readings taken in one second is called the "sampling frequency". The larger the value, the closer the reproduced sound is to the original.

V

vTuner

This is a free online content server for Internet radio. Note that usage fees are included in upgrade costs.

For inquiries about this service, visit the vTuner site below.

vTuner website: http://www.radiodenon.com

This product is protected by certain intellectual property rights of Nothing Else Matters Software and BridgeCo. Use or distribution of such technology outside of this product is prohibited without a license from Nothing Else Matters Software and BridgeCo or an authorized subsidiary.

W

Windows Media DRM

This is a copyright protection technology developed by Microsoft.

Content providers are using the digital rights management technology for Windows Media contained in this device (WM-DRM) to protect the integrity of their content (Secure Content) so that their intellectual property, including copyright, in such content is not misappropriated. This device uses WM-DRM software to play Secure Content (WM-DRM Software). If the security of the WM-DRM Software in this device has been compromised, owners of Secure Content (Secure Content Owners) may request that Microsoft revoke the WM-DRM Software's right to acquire new licenses to copy, display and/or play Secure Content. Revocation does not alter the WM-DRM Software's ability to play unprotected content. A list of revoked WM-DRM Software is sent to your device whenever you download a license for Secure Content from the Internet or from a PC. Microsoft may, in conjunction with such license, also download revocation list onto your device on behalf of Secure Content Owners.

Windows Media Player Ver. 11 or later

This is a media player distributed free of charge by Microsoft Corporation.

It can be used to play playlists created with Windows Media Player Ver. 11 or later as well as files in such formats as WMA, DRM WMA, MP3 and WAV.

WMA (Windows Media Audio)

This is audio compression technology developed by Microsoft Corporation.

WMA data can be encoded using Windows Media® Player Ver.7, 7.1, Windows Media® Player for Windows® XP and Windows Media® Player 9 Series.

To encode WMA files, only use applications authorized by Microsoft Corporation. If you use an unauthorized application, the file may not work properly.

Troubleshooting

If a problem occurs first check the following:
1. Are the connections correct?
2. Is the set being operated as described in the owner's manual?
3. Are the other devices operating properly?
If this unit does not operate properly, check the items listed in the table below.
If the symptom is not covered on the check list, contact your dealer or service centers.
Service centers are listed at http://www.d-mpro.com.

【General】

Symptom	Cause	Countermeasure	Page
Set does not operate properly.	• External noise or interference is causing the set to malfunction.	• Reset the microprocessor.	39
Display not lit and sound not produced when power switched to on.	• Power cord not plugged in securely.	• Check the connections on the set's rear panel and the connection of the power plug to the power outlet.	8
Display lit but sound not produced.	• Wrong input source selected.	• Select the appropriate input source.	9
Display is off.	• The Dimmer setting is set to "Off".	• Set to something other than "Off".	9
Power turns off suddenly and POWER indicator flashes red. (Flashes at 0.25 second intervals)	• Set is damaged.	• Turn off the power and contact a D&M Professional service center.	–
"No Network Connection" is displayed.	• The network is not properly set up.	• Select a source other than the network function.	9
		• Perform "Network First Setup."	28

【Tuner】

Symptom	Cause	Countermeasure	Page
Continuous noise is heard when receiving FM programs.	• Antenna cable is not properly connected.	• Connect the antenna cable properly.	6
		• Connect an outdoor antenna.	–
Hissing or continuous noise is heard when receiving AM programs.	• This may be noise from a TV or interference from a broadcast station.	• Turn off the TV.	–
		• Change the position and direction of the AM loop antenna.	6

【Internet radio/Music server/iPod/USB memory device】

Symptom	Cause	Countermeasure	Page
Music files are not played correctly.	• The size of the album artwork image registered to the music file is too large.	• The supported album art image size for WMA, MP3, WAV, and FLAC formats is 500 x 500 pixel or smaller. For m4a format, the supported image size is 349 x 349 pixel or smaller. If the image is larger than the supported size, the audio file may not be played correctly.	–
When a USB memory device is connected, "USB/iPod" is not displayed.	• The set cannot recognize a USB memory device.	• Check the connection.	25
	• A USB memory device not conforming to mass storage class or MTP standards is connected.	• Connect a USB memory device conforming to mass storage class or MTP standards.	–
	• A USB memory device that the set cannot recognize is connected.	• This is not a malfunction. D&M Professional does not guarantee that all USB memory devices will operate or receive power.	–
	• USB memory device is connected via USB hub.	• Connect the USB memory device directly to the USB port.	–
iPod cannot be played.	• The input source is set to something other than "USB/iPod".	• Switch the input source to "USB/iPod".	9
	• Cable is not properly connected.	• Reconnect.	23
	• The iPod is connected to this unit using an iPod cable (commercially available) that is longer than 2 m (6.6 ft).	• Use a genuine cable or iPod cable that is shorter than 1 m (3.3 ft) to connect the iPod to this unit.	23

Symptom	Cause	Countermeasure	Page
Files on a USB memory device cannot be played.	• USB memory device is in a format other than FAT16 or FAT32.	• Set the format to FAT16 or FAT32. For details, refer to the USB memory device's operating instructions.	–
	• USB memory device is divided into multiple partitions.	• When divided into multiple partitions, only files stored in the top partition can be played.	–
	• Files are stored in a non-compatible format.	• Record the files in a compatible format.	49
	• You are attempting to play a file that is copyright protected.	• Files that are copyright protected cannot be played on this set.	49
Internet radio cannot be played.	• Ethernet cable is not properly connected or network is disconnected.	• Check the connection status.	7
	• Program is being broadcast in non-compatible format.	• Only Internet radio programs in MP3 and WMA can be played on this set.	50
	• The computer's or router's firewall is activated.	• Check the computer's or router's firewall settings.	–
	• Radio station is not currently broadcasting.	• Choose a radio station that is currently broadcasting.	12
	• IP address is wrong.	• Check the set's IP address.	28
Files stored on a computer cannot be played.	• Files are stored in a non-compatible format.	• Record in a compatible format.	50
	• You are attempting to play a file that is copyright protected.	• Files that are copyright protected cannot be played on this set.	50
	• Set and computer are connected by USB cable.	• The set's USB port cannot be used for connection to a computer.	–
Server is not found, or it is not possible to connect to the server.	• The computer's or router's firewall is activated.	• Check the computer's or router's firewall settings.	–
	• Computer's power is not turned on.	• Turn on the power.	–
	• Server is not running.	• Launch the server.	–
	• Set's IP address is wrong.	• Check the set's IP address.	28
Cannot connect to preset or favorite radio stations.	• Radio station is not currently broadcasting.	• Wait a while before trying again.	–
	• Radio station is not currently in service.	• It is not possible to connect to radio stations that are no longer in service.	–

Symptom	Cause	Countermeasure	Page
For some radio stations, "Server Full" or "Connection Down" is displayed and station cannot be connected to.	• Station is congested or not currently broadcasting.	• Wait a while before trying again.	–
Sound is broken during playback.	• Network's signal transfer speed is slow or communications lines or radio station is congested.	• This is not a malfunction. When playing broadcast data with a high bit rate, the sound may be broken, depending on the communications conditions.	–
Sound quality is poor or played sound is noisy.	• File being played has a low bit rate.	• This is not a malfunction.	–

Getting started

Connections

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【Pandora®】 (for U.S.A. and Canada models only)

Symptom	Cause	Countermeasure	Page
Cannot login to Pandora®. ("Email address" or "Password" is displayed.)	• Login information is incorrect.	• Check if the "Email address" for Pandora® has been properly entered. Re-enter the "Password". (Password is not displayed.)	17
"Account is no longer active" is displayed.	• Your account has expired.	• Obtain a new account. • Contact Pandora® Listener Support at pandora-support@pandora.com.	–
"Pandora is only available for use in United States" is displayed.	• You are trying to access from a country where Pandora® is not available.	• Pandora® is not available in all countries. Please check http://blog.pandora.com/faq/.	–
"Incorrect Email or Password" is displayed.	• You entered an incorrect account or password for the login authentication.	• Enter the correct email address and password.	17
"No skips remaining" is displayed.	• You may only skip up to 6 tracks per station, per hour (and free Pandora® accounts are limited to 12 skips per day). When the skips are used up, no more forward/skip operation is available.	• Unfortunately, our music licenses force us to limit the amount of tracks you can skip in an hour.	–
"100 Station Limit" is displayed.	• You have already registered 100 stations. You can not register a new station.	• Reduce the number of stations to fewer than 100.	–
"Please Try Again Later" is displayed.	• Pandora® is performing system maintenance.	• Please try again later.	–

【Rhapsody】 (for U.S.A. and Canada models only)

Symptom	Cause	Countermeasure	Page
Cannot login to Rhapsody. ("Incorrect Username or Password" is displayed.)	• Login information is incorrect.	• Check if the Username for Rhapsody has been properly entered. Re-enter the Password. (Password is not displayed.) www.rhapsody.com/denon	18

【AirPlay】

Symptom	Cause	Countermeasure	Page
The AirPlay icon ⬆ is not displayed in iTunes or on the iPhone/iPod touch.	• This unit and the computer or iPhone/iPod touch are not connected to the same network (LAN). • iTunes or the iPhone/iPod touch do not have firmware that supports AirPlay installed.	• Connect the computer or iPhone/iPod touch to the same network as this unit. • Update to the latest firmware.	3 34
No sound.	• This unit is not selected in the screen that is displayed when iTunes or the iPhone/iPod touch is started.	• Start iTunes or switch on the iPhone/iPod touch, click the AirPlay icon ⬆ in the displayed screen, and select this unit.	27

【Remote control】

Symptom	Cause	Countermeasure	Page
Set does not work properly when remote control operated.	• Batteries are worn. • You are operating outside of the specified range. • Obstacle between main unit and remote control. • The batteries are not inserted in the proper direction, as indicated by the polarity marks in the battery compartment. • The set's remote control sensor is exposed to strong light (direct sunlight, fluorescent light, etc.).	• Replace with new batteries. • Operate within the specified range. • Remove the obstacle. • Insert the batteries in the proper direction, following the polarity marks in the battery compartment. • Move the set to a place in which the remote control sensor will not be exposed to strong light.	3 3 – 3 3

Specifications

❏ Audio section

• **Audio channel :**	2 channel stereo
• **Frequency response :**	2 Hz – 48 kHz (Sampling frequency: 96 kHz)
	2 Hz – 20 kHz (Sampling frequency: 44.1 kHz)
• **Signal-to-noise Ratio :**	98 dB (1 kHz, 0 dB playback, A filter)
• **Dynamic range :**	96 dB (1 kHz, 0 dB playback, A filter)
• **Channel separation :**	88 dB (1 kHz, 0 dB playback, A filter)
• **Total Harmonic Distortion :**	0.01% (1 kHz, 0 dB playback, A filter)
• **Analog output**	
Balanced out L/R :	
Type :	XLR (1 : GND, 2 : Hot, 3 : Cold)
Maximum level :	+10 dBu / Under 600 Ω load (0 dBFS Reference)
Variable range :	+10 dBu to -6 dBu
Unbalanced out L/R	
Type :	RCA terminal
Standard level :	2 Vrms / Under 10 kΩ load
• **Digital output (optical) :**	–21 – –15 dBm
• **Headphone Output :**	20 mW / 32Ω
• **Monitor speaker Output :**	600 mW / 8 Ω

❏ Tuner section

• **FM tuner**	
Range of receivable frequencies	87.5 – 107.9 MHz
	(U.S.A. and Canada models)
	87.5 – 108.0 MHz
	(European,U.K. and Asia/Pacific models)
S/N ratio (mono)	65 dB
Sensitivity (S/N 50 dB)	7 dBμV (IHF)
• **AM tuner**	
Range of receivable frequencies	520 – 1710 kHz
	(U.S.A. and Canada models)
	522 – 1611 kHz
	(European,U.K. and Asia/Pacific models)
S/N ratio	40 dB
Sensitivity (S/N 20 dB)	56 dBμV/m

❏ Power supply

Power supply voltage/frequency	AC 120 V, 60 Hz
	(U.S.A. and Canada models)
	AC 230 V, 50/60 Hz
	(European,U.K. and Asia/Pacific models)
Power consumption	18 W
Power consumption in standby mode	0.2 W
Power comsumption in network standby mode	7.5 W

• For purposes of improvement, specifications and design are subject to change without notice.

Index

Dimensions / Abmessungen / Dimensions / Dimensions

Unit / Gerät / Unité / Unidad : mm (in)

434.0 (17 3/32)

325.0 (12 51/64)

482.6 (19)

44.0
1 (47/64)

30.0
(1 3/16)

6.0
(15/64)

45.0
(1 49/64)

344.0 (13 35/64)

45.0
(1 49/64)
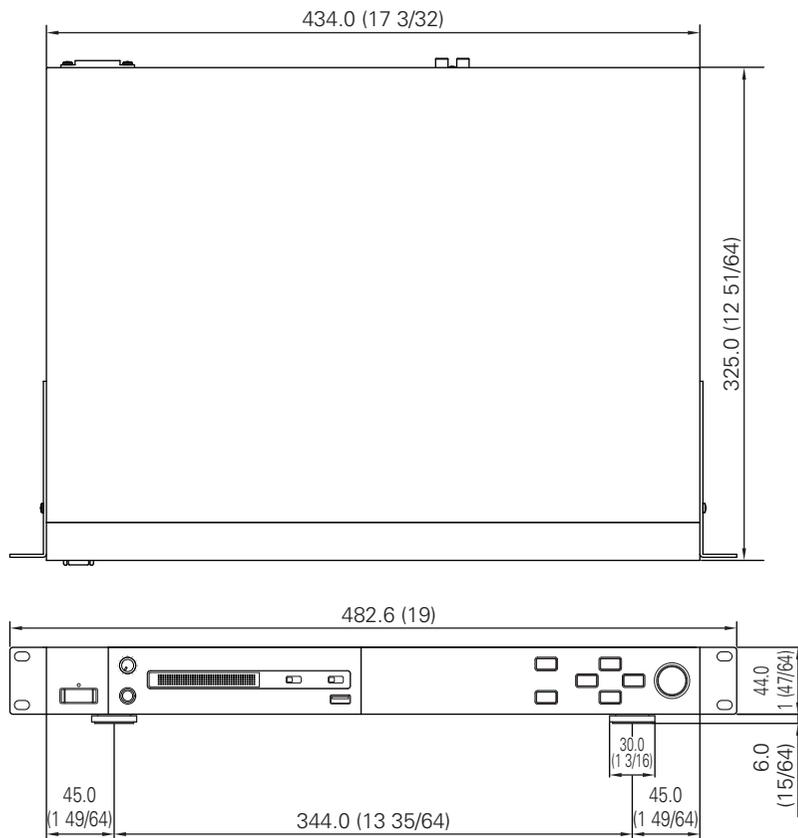
Weight / Gewicht / Poids / Peso

3.3 kg (7.4 lbs)

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