

**SD/USB Recorder** 

**DN-500R** 

**Owner's Manual** 

## **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-500R

Serial No. .



# 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.

# FCC INFORMATION (For US customers)

1. COMPLIANCE INFORMATION Product Name: SD/USB Recorder

**Model Number: DN-500R** 

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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#### 2. IMPORTANT NOTICE: DO NOT MODIFY THIS PRODUCT

This product, when installed as indicated in the instructions contained in this manual, meets FCC requirements. Modification not expressly approved by DENON may void your authority, granted by the FCC, to use the product.

#### 3. NOTE

This product has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This product generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this product does cause harmful interference to radio or television reception, which can be determined by turning the product OFF and ON, the user is encouraged to try to correct the interference by one or more of the following measures:

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

CAN ICES-3(B)/NMB-3(B)

# Informati

## 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.

- 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 aut 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

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 gemakkeliik bereikbaar ziin.

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.

#### ATENCÃO: (Português)

Para desligar completamente este produto da corrente. deslique 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.

#### □ NOTE ON USE / HINWEISE ZUM GEBRAUCH

#### **WARNINGS**

- Avoid high temperatures. Allow for sufficient heat dispersion when installed in a
- 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.
- Do not keep the battery in a place exposed to direct sunlight or in places with extremely high temperatures, such as near a heater.

#### WARNHINWEISE

- 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 aeltenden Umweltbestimmungen.
- Das Gerät sollte keiner tropfenden oder spritzenden Flüssiakeit 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.
- Lagern Sie die Batterie nicht an einem Ort, an dem sie direktem Sonnenlicht oder extrem hohen Temperaturen ausgesetzt ist, wie z. B. in der Nähe eines Heizgeräts.

# □ OBSERVATIONS RELATIVES A L'UTILISATION / NOTE SULL'USO / NOTAS SOBRE EL USO / ALVORENS TE GEBRUIKEN / OBSERVERA / NOTA SOBRE UTILIZAÇÃO

AVERTISSEMENTS	AVVERTENZE	ADVERTENCIAS	WAARSCHUWINGEN	VARNINGAR	AVISOS
Eviter des températures	Evitate di esporre l'unità a	Evite altas temperaturas.	Vermijd hoge temperaturen.	Undvik höga temperaturer.	Evite temperaturas altas.
élevées.	temperature elevate.	Permite la suficiente dispersión	Zorg er bij installatie in een	Se till att det finns möjlighet	Assegure uma suficiente
Tenir compte d'une dispersion	Assicuratevi che vi sia	del calor cuando está instalado	audiorack voor, dat de door het	till god värmeavledning vid	dispersãodo calor quando a
de chaleur suffisante lors de	un'adeguata dispersione del	en la consola.	toestel geproduceerde warmte	montering i ett rack.	unidade forinstalada numa
l'installation sur une étagère.	calore quando installate l'unità in	Maneje el cordón de energía	goed kan worden afgevoerd.	• Hantera nätkabeln varsamt.	prateleira.
Manipuler le cordon	un mobile per componenti audio.	con cuidado.	Hanteer het netsnoer	Håll i kabeln när den kopplas	Manuseie o cabo de
d'alimentation avec précaution.	<ul> <li>Manneggiate il cavo di</li> </ul>	Sostenga el enchufe cuando	voorzichtig.	från el-uttaget.	alimentaçãocom cuidado.Puxe
Tenir la prise lors du	alimentazione con attenzione.	desconecte el cordón de	Houd het snoer bij de stekker	<ul> <li>Utsätt inte apparaten för fukt,</li> </ul>	pela ficha quando desligar
débranchement du cordon.	Tenete ferma la spina quando	energía.	vast wanneer deze moet	vatten och damm.	ocabo de alimentação.
Protéger l'appareil contre	scollegate il cavo dalla presa.	Mantenga el equipo libre de	worden aan- of losgekoppeld.	<ul> <li>Koppla loss nätkabeln om</li> </ul>	Mantenha a unidade afastada
l'humidité, l'eau et la poussière.	Tenete l'unità lontana	humedad, agua y polvo.	Laat geen vochtigheid,	apparaten inte kommer att	dahumidade, da água e do pó.
Débrancher le cordon     Maliana de la cordon     Maliana de la cordon	dall'umidità, dall'acqua e dalla	Desconecte el cordón de	water of stof in het apparaat	användas i lång tid.	Desligue o cabo de
d'alimentation lorsque l'appareil	polvere.	energía cuando no utilice el	binnendringen.	<ul> <li>Täpp inte till</li> </ul>	alimentaçãoquando não estiver
n'est pas utilisé pendant de	Scollegate il cavo di	equipo por mucho tiempo.	Neem altijd het netsnoer uit	ventilationsöppningarna.	a utilizar aunidade por longos
longues périodes.	alimentazione quando prevedete	<ul> <li>No obstruya los orificios de ventilación.</li> </ul>	het stopkontakt wanneer het	<ul> <li>Se till att främmande föremål</li> </ul>	períodos detempo.  • Não obstrua os orifícios
Ne pas obstruer les trous d'aération.	di non utilizzare l'unità per un lungo periodo di tempo.	No deje objetos extraños	apparaat gedurende een lange periode niet wordt gebruikt.	inte tränger in i apparaten.	deventilação.
Ne pas laisser des objets	<ul> <li>Non coprite i fori di ventilazione.</li> </ul>	dentro del equipo.	De ventilatieopeningen mogen	Se till att inte insektsmedel	<ul> <li>Não deixe objectos estranhos</li> </ul>
étrangers dans l'appareil.	Non inserite corpi estranei	No permita el contacto	niet worden beblokkeerd.	på spraybruk, bensen och	dentro da unidade.
Ne pas mettre en contact des	all'interno dell'unità.	de insecticidas, gasolina y	Laat geen vreemde voorwerpen	thinner kommer i kontakt med	Não permita que insecticidas,
insecticides, du benzène et un	Assicuratevi che l'unità non	diluyentes con el equipo.	in dit apparaat vallen.	apparatens hölje.  Ta inte isär apparaten och	benzina e diluente entrem em contacto com a unidade.
diluant avec l'appareil.	entri in contatto con insetticidi,	Nunca desarme o modifique el	Voorkom dat insecticiden,	försök inte bygga om den.	Nunca desmonte ou modifique
Ne jamais démonter ou	benzolo o solventi.	equipo de ninguna manera.	benzeen of verfverdunner met	Ventilationen bör inte	dealguma forma a unidade.
modifier l'appareil d'une	<ul> <li>Non smontate né modificate</li> </ul>	• La ventilación no debe guedar	dit toestel in contact komen.	förhindras genom att täcka	<ul> <li>A ventilação não deve</li> </ul>
manière ou d'une autre.	l'unità in alcun modo.	obstruida por haberse cubierto	Dit toestel mag niet	för ventilationsöppningarna	ser obstruída, tapando as
Ne pas recouvrir les orifices	<ul> <li>Le aperture di ventilazione</li> </ul>	las aperturas con objetos	gedemonteerd of aangepast	med föremål såsom tidningar,	aberturas de ventilação com objectos, como jornais, toalhas
de ventilation avec des objets	non devono essere ostruite	como periódicos, manteles o	worden.	bordsdukar eller gardiner.	ou cortinas.
tels que des journaux, nappes	coprendole con oggetti, quali	cortinas.	De ventilatie mag niet	Placera inte öppen eld, t.ex.	<ul> <li>Não devem ser colocadas</li> </ul>
ou rideaux. Cela entraverait la	giornali, tovaglie, tende e così via.	No deberán colocarse sobre	worden belemmerd door de	tända ljus, på apparaten.	junto à unidade fontes de
ventilation.	Non posizionate sull'unità	el aparato fuentes inflamables	ventilatieopeningen af te dekken	<ul> <li>Tänk på miljöaspekterna när du</li> </ul>	chama aberta, como velas acesas.
Ne jamais placer de flamme	fiamme libere, come ad esempio	sin protección, como velas	met bijvoorbeeld kranten, een	bortskaffar batterier.	<ul> <li>Respeite as regulamentações</li> </ul>
nue sur l'appareil, notamment	candele accese.	encendidas.  • A la hora de deshacerse de las	tafelkleed of gordijnen.	<ul> <li>Apparaten får inte utsättas för</li> </ul>	locais relativas à eliminação
des bougies allumées.  • Veillez à respecter les lois en	Prestate attenzione agli aspetti legati alla tutela dell'ambiente	pilas, respete la normativa para	Plaats geen open vlammen, bijvoorbeeld een brandende	vätska.	de pilhas.
vigueur lorsque vous jetez les	nello smaltimento delle batterie.	el cuidado del medio ambiente.	kaars, op het apparaat.	Placera inte föremål fyllda	<ul> <li>Não exponha a unidade a</li> </ul>
piles usagées.	L'apparecchiatura non deve	No exponer el aparato al goteo	Houd u steeds aan de	med vätska, t.ex. vaser, på	gotejamento ou salpicos de
L'appareil ne doit pas être	essere esposta a gocciolii o	o salpicaduras cuando se	milieuvoorschriften wanneer u	apparaten.  • Hantera inte nätsladden med	líquidos.
exposé à l'eau ou à l'humidité.	spruzzi.	utilice.	gebruikte batterijen wegdoet.	våta händer.	<ul> <li>Não coloque objectos com</li> </ul>
Ne pas poser d'objet contenant	<ul> <li>Non posizionate sull'unità alcun</li> </ul>	No colocar sobre el aparato	Stel het apparaat niet bloot aan	Även om strömbrytaren står	líquidos, como jarras, em cima
du liquide, par exemple un	oggetto contenente liquidi, come	objetos llenos de líquido, como	druppels of spatten.	i det avstängda läget OFF	da unidade.
vase, sur l'appareil.	ad esempio i vasi.	jarros.	Plaats geen voorwerpen gevuld	(STANDBY), så är utrustningen	Não manuseie o cabo de
Ne pas manipuler le cordon	<ul> <li>Non toccare il cavo di</li> </ul>	No maneje el cable de	met water, bijvoorbeeld een	inte helt bortkopplad från det	alimentação com as mãos
d'alimentation avec les mains	alimentazione con le mani	alimentación con las manos	vaas, op het apparaat.	elektriska nätet (MAINS).	molhadas.
mouillées.	bagnate.	mojadas.	Raak het netsnoer niet met	<ul> <li>Utrustningen ska vara</li> </ul>	Quando o interruptor se
Lorsque l'interrupteur	Quando l'interruttore è nella	Cuando el interruptor está en	natte handen aan.	installerad nära strömuttaget	encontra na posição OFF
est sur la position OFF	posizione OFF (STANDBY),	la posición OFF (STANDBY), el	Als de schakelaar op OFF     (STANDRY) staat is het	så att strömförsörjningen är lätt	(STANDBY), o equipamento
(STANDBY), l'appareil n'est pas complètement déconnecté du	l'apparecchiatura non è completamente scollegata da	equipo no está completamente desconectado de la	(STANDBY) staat, is het apparaat niet volledig	att tillgå.	não está completamente desligado da REDE
SECTEUR (MAINS).	MAINS.	alimentación MAINS.	losgekoppeld van de	Förvara inte batteriet på en	ELÉCTRICA.
L'appareil sera installé près de	L'apparecchio va installato	El equipo se instalará cerca	netspanning (MAINS).	plats som utsätts för direkt	O equipamento deve ser
la source d'alimentation, de	in prossimità della fonte di	de la fuente de alimentación	De apparatuur wordt in de	solljus eller på platser med	instalado junto da fonte de
sorte que cette dernière soit	alimentazione, in modo che	de manera que resulte fácil	buurt van het stopcontact	extremt höga temperaturer, som nära ett värmeelement.	alimentação, para que a
facilement accessible.	quest'ultima sia facilmente	acceder a ella.	geïnstalleerd, zodat dit altijd	Som nara ett varmeelement.	fonte de alimentação esteja
Ne placez pas la pile dans un	accessibile.	No coloque las pilas en un lugar	gemakkelijk toegankelijk is.		facilmente acessível.
endroit exposé à la lumière	<ul> <li>Non tenere la batteria in</li> </ul>	expuesto a la luz directa del	Bewaar de batterijen niet op een		Não deixe a pilha num local
directe du soleil ou dans	luoghi esposti alla luce solare	sol o donde la temperatura sea	plaats waar deze blootstaan aan		exposto à luz solar directa
des endroits présentant des	diretta o con temperature	extremadamente alta, como	direct zonlicht of op plaatsen		ou em locais sujeitos a
températures extrêmement	estremamente elevate, ad	cerca de una calefacción.	waar zeer hoge temperaturen		temperaturas extremamente
élevées, par exemple près d'un	esempio in prossimità di		heersen, zoals in de buurt van		elevadas, como, por exemplo,
radiateur.	dispositivi di riscaldamento.		een kachel.		junto de um aquecedor.

#### DECLARATION OF CONFORMITY

Our products following the provisions of EC/EU directives, that as follows;

LV: 2006/95/EC EMC: 2004/108/EC RoHS: 2011/65/EU

ErP: EC regulation 1275/2008 and its frame work directive 2009/125/EC

#### ÜBEREINSTIMMUNGSERKLÄRUNG

Unsere Produkte unterliegen den Bestimmungen der folgenden EG/EU-Richtlinien:

LV: 2006/95/EC EMC: 2004/108/EC RoHS: 2011/65/EU

ErP: EG-Vorschrift 1275/2008 und deren Rahmenrichtlinie 2009/125/EC

#### DECLARATION DE CONFORMITE

Nos produits sont conformes aux dispositions des directives CE/UE comme suit ;

LV: 2006/95/EC EMC: 2004/108/EC RoHS: 2011/65/EU

ErP: Réglementation CE 1275/2008 et sa directive cadre 2009/125/CE

#### • DICHIARAZIONE DI CONFORMITÀ

I nostri prodotti sono conformi a quanto previsto dalle direttive EC/EU, come specificato di seguito:

LV: 2006/95/EC EMC: 2004/108/EC RoHS: 2011/65/EU

ErP: Norma EC 1275/2008 e relativa legge quadro 2009/125/EC

#### DECLARACIÓN DE CONFORMIDAD

Nuestros productos cumplen las disposiciones de las directivas de la CE/UE siguientes:

LV: 2006/95/EC EMC: 2004/108/EC RoHS: 2011/65/EU

ErP: Normativa de la CE 1275/2008 y su directiva marco 2009/125/CE

#### EENVORMIGHEIDSVERKLARING

Onze producten volgen de voorwaarden van de EG/EU-richtlijnen zoals volgt;

LV: 2006/95/EC EMC: 2004/108/EC RoHS: 2011/65/EU

ErP: EG-verordening 1275/2008 en zijn kaderrichtlijn 2009/125/EG

#### ÖVERENSSTÄMMELSESINTYG

Våra produkter uppfyller följande föreskrifter i EC/EU-direktiv:

LV: 2006/95/EC EMC: 2004/108/EC RoHS: 2011/65/EU

ErP: EU-direktiv 1275/2008 och dess ramdirektiv 2009/125/EC

#### • DECLARAÇÃO DE CONFORMIDADE

Nossos produtos seguem as disposições da CE / UE directivas, que, como se segue;

LV: 2006/95/EC EMC: 2004/108/EC RoHS: 2011/65/EU

ErP: Regulamento (CE) 1275/2008 e a respectiva Directiva-Quadro 2009/125/CE

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#### 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-Verschriften

Beachten Sie bei der Entsorgung des Gerätes die örtlichen Vorschriften und Bestimmungen. Die Batterien dürfen nicht in den Hausmüll geworfen oder verbrannt werden; bitte entsorgen Sie die Batterien gemäß der örtlichen Vorschriften.

Dieses Produkt und das im Lieferumfang enthaltene Zubehör (mit Ausnahme der Batterien!) entsprechen der WEEE-Direktive.



#### UNE REMARQUE CONCERNANT LE RECYCLAGE:

Les matériaux d'emballage de ce produit sont recyclables et peuvent être réutilisés. Veuillez disposer des matériaux conformément aux lois sur le recyclage en vigueur.

Lorsque vous mettez cet appareil au rebut, respectez les lois ou réglementations en vigueur.

Les piles ne doivent jamais être jetées ou incinérées, mais mises au rebut conformément aux lois en vigueur sur la mise au rebut des piles.

Ce produit et les accessoires inclus, à l'exception des piles, sont des produits conformes à la directive DEEE.

#### NOTA RELATIVA AL RICICLAGGIO:

I materiali di imballaggio di questo prodotto sono riutilizzabili e riciclabili. Smaltire i materiali conformemente alle normative locali sul riciclaggio.

Per lo smaltimento dell'unità, osservare le normative o le leggi locali in vigore.

Non gettare le batterie, né incenerirle, ma smaltirle conformemente alla normativa locale sui rifiuti chimici.

Questo prodotto e gli accessori inclusi nell'imballaggio sono applicabili alla direttiva RAEE, ad eccezione delle batterie.

#### ACERCA DEL RECICLAJE:

Los materiales de embalaje de este producto son reciclables y se pueden volver a utilizar. Disponga de estos materiales siguiendo los reglamentos de reciclaje de su localidad.

Cuando se deshaga de la unidad, cumpla con las reglas o reglamentos locales.

Las pilas nunca deberán tirarse ni incinerarse. Deberá disponer de ellas siguiendo los reglamentos de su localidad relacionados con los desperdicios químicos.

Este producto junto con los accesorios empaquetados es el producto aplicable a la directiva RAEE excepto pilas.

#### EEN AANTEKENING MET BETREKKING TOT DE RECYCLING:

Het inpakmateriaal van dit product is recycleerbaar en kan opnieuw gebruikt worden. Er wordt verzocht om zich van elk afvalmateriaal te ontdoen volgens de plaatselijke voorschriften.

Volg voor het wegdoen van de speler de voorschriften voor de verwijdering van wit- en bruingoed op.

Batterijen mogen nooit worden weggegooid of verbrand, maar moeten volgens de plaatselijke voorschriften betreffende chemisch afval worden verwijderd.

Op dit product en de meegeleverde accessoires, m.u.v. de batterijen is de richtlijn voor afgedankte elektrische en elektronische apparaten (WEEE) van toepassing.

#### OBSERVERA ANGÅENDE ÅTERVINNING:

Produktens emballage är återvinningsbart och kan återanvändas. Kassera det enligt lokala återvinningsbestämmelser. När du kasserar enheten ska du göra det i överensstämmelse med lokala regler och bestämmelser.

Batterier får absolut inte kastas i soporna eller brännas. Kassera dem enligt lokala bestämmelser för kemiskt avfall. Denna apparat och de tillbehör som levereras med den uppfyller gällande WEEE-direktiv, med undantag av batterierna.

#### 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.

# **Getting started**

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

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## **Main Features**

#### Interface

- Equipped with SD/SDHC card slot (max 32 GB per card slot) and USB2.0 (high speed) compatible drive connector
- Equipped with a USB2.0 (low speed) compatible keyboard connector for file name editing and control using a keyboard
- Equipped with a serial control connector (RS-232C) for connection to an RC-F400S or command control
- Equipped with a parallel remote connector (25Pin D-sub) for remote control without a computer

## Audio

- Equipped with XLR (analog/digital) and RCA (analog/digital) input/ output connectors for ensuring high connectivity with various devices using the standard level setting function
- Equipped with a headphone jack with volume control knob to respond to a wide range of needs such as recording monitoring, etc.
- Equipped with SRC (sampling rate converter) on the digital output section that automatically converts different sampling rates from the source playback to a digital output with a fixed output sampling rate

## NOTE

The reproduction or use of materials such as music data or files may be restricted under the Copyright Act or other applicable laws, or under the terms of a license agreement between yourself and the material owner. Check that the conditions of use for all materials are thoroughly satisfied before reproduction etc., and use this equipment correctly. DENON Professional cannot accept any responsibility whatsoever for acts of copyright infringement undertaken by the user.

### **Functions**

- Equipped with a dual recording function that enables simultaneous recording from SD card and USB devices, further improving backup capabilities
- Equipped with a relay recording function that continues recording on a different media when the remaining free space on the original recording media falls below 2MB, enabling long recording without the sound cutting out
- Equipped with a recording monitor function for simultaneous monitoring of recorded data, enabling reliable monitoring of the recording status
- Equipped with a timer recording/timer playback function that enables scheduled recording/playback for automatic recording or automatic playback of scheduled events
- Equipped with an editing function (merge/divide/copy/move/undo) and USB keyboard file name input function for editing files from a computer, etc.
- Equipped with a pitch control and master key function for fine adjustment of the playback speed

## **Accessories**

Check that the following parts are supplied with the product.

Quick start guide (Book)
③ CD-ROM1
<ul> <li>DN-500R Instruction manual</li> </ul>
DMP Mark Editor Installer
<ul> <li>DMP Mark Editor Instruction manual</li> </ul>
4 Security Screw for SD card door2
⑤ Plastic pin and retainer 1 each
(plastic pin and retainer is attached to the SD card door at the
time of purchase.)



# **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 not using the machine 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 the surroundings, condensation may form on parts inside the unit, causing the unit to fail to operate properly.

If this happens, let the unit sit for an hour or two with the power 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.

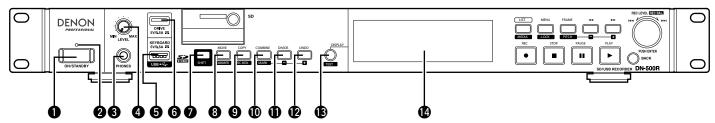
#### Rack mount cautions (Required rack specifications for mounting the DN-500R on a rack)

- EIA Standard 19 inch rack
- 1U Size installation compatible rack
- Rack that has a guide rail or shelf board that can support this device

# **Part names and functions**

## **Front Panel**

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



#### Power switch (ON/STANDBY)

• Turns the unit power on and off (standby).

#### 2 Power indicator

- Power on: Green
- Normal standby: Red
- 3 Headphone jack (PHONES) .....(12)
  - Connect the headphones.

# Headphone Volume Adjustment Knob (LEVEL) ......(12)

- Adjusts the volume of the headphones.
- Press the knob to make it spring out. After adjusting the volume, press the knob back in again.
- USB connector for keyboard (KEYBOARD) .....(49)
  - Connect a USB keyboard.

- **6** USB connector for USB device (DRIVE) ··· (14)
- Connect a USB device.

#### SHIFT button

- Allows access to features indicated under each button.
- The shift mode is enabled when the **SHIFT** button is lit (25 page 18 "02 Shift Mode").

#### **8** MOVE/DIMMER button ...... (20, 48)

- Moves the file of the current track.
- Press when the SHIFT button is lit to switch the display brightness of the display and LED.
- The brightness of the dimmer can be set in "36 Display Dimmer" (Papage 20) and "37 LED Dimmer" (Papage 20) in the "Preset Setting".

- **9** COPY/REC MON. button ...... (29, 33, 48)
- Copies the file of the selected track.
- Press when the SHIFT button is lit to switch the recording monitor on or off.

#### **©** COMBINE/MARK button ......(37, 41, 47)

- Combines the selected track with a different track.
- Press when the SHIFT button is lit to adds a mark to the current playback or recording position.

### **1** DIVIDE/MARK – button ...... (37, 41, 47)

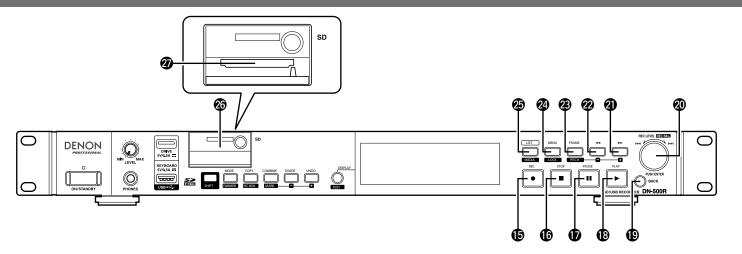
- Divides the currently selected track at the current playback position.
- Divides the recording track at the current recording position.
- Press when the **SHIFT** button is lit to jump to the mark prior to the current playback position.

- **UNDO/MARK + button** ..... (41, 48)
  - Undoes the prior edit.
  - Press when the **SHIFT** button is lit to jump to the mark after the current playback position.

#### **B** DISPLAY/TEXT button ...... (8, 9)

- Switches the display.
- Press when the **SHIFT** button is lit to scroll the text display.
- **Display** ..... (8)





- **⑤ REC button (●)**.....(31)
  - When "08 One Touch Rec" (Page 18) in "Preset Setting" is "Off", press the button once to enter the record pause mode and press again to start recording.
  - When "08 One Touch Rec" (Prage 18) in "Preset Setting" is "On", press the button once to start recording.
  - The **REC** button lights during recording.
  - The **REC** button flashes during recording is paused.
- **ⓑ** STOP button **(■)**.....(17, 39)
  - Press the button during playback or when playback is paused to stop playback. These operations can be set in "23 Finish Mode" (Prage 19) of "Preset Setting".
  - Press the button during recording or when recording is paused to stop recording and standby at the start of the last recorded file.
  - The **STOP** button lights when a track is stopped or cued.
  - Press when a track is cued to stop.

- **PAUSE button (II)** ......(32, 39)
  - Press the button during playback or recording to pause playback or recording.
  - The PAUSE button lights when playback or recording is paused.

#### **(39)** Play button (▶)......

- Starts playback.
- The PLAY button lights during playback or when playback is paused.

#### BACK button

- Returns to the previous menu.
- When the file list is displayed, press the SHIFT button when it is lit to move the cursor to the top of the list.

### ② Jog Dial/PUSH ENTER button

- Rotate the dial to skip tracks.
- Used to adjust the recording level during recording or when recording is paused.
- Used to move the cursor or select setting items when the menu is displayed.
- Rotate the dial when the SHIFT button is lit to adjust the recording level or recording balance during recording or when recording is paused.
- Press the button to enter the setting item or menu.

#### **②** Fast Forward/Pitch + button

- **(>>)** .....(40, 41)
- Fast forwards the track.
- In frame mode, this button jumps frame units in the forward direction.
- Press when the SHIFT button is lit to set the pitch.

#### Fast Rewind/Pitch - button

- (◄◄) .....(40, 41)
- Fast rewinds the track.
- In frame mode, this button jumps frame units in the reverse direction.
- Press when the SHIFT button is lit to set the pitch.

## **② FRAME/PITCH button** ...... (40, 41)

- Switches the functions of buttons ◀◀ and ▶▶ to frame mode or search mode.
- The FRAME button lights in frame mode.
- Press when the **SHIFT** button is lit to switch the pitch on or off. The **PITCH** button lights when Pitch is on.

### **MENU/LOCK button** .....(15, 17, 30)

- Displays the menu.
- Press when the SHIFT button is lit to lock the operation buttons on the unit.

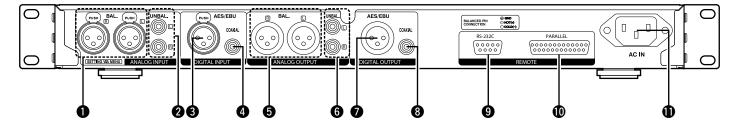
#### **② LIST/MEDIA button** ...... (26, 27, 31, 39)

- The "File List" is displayed.
- Press when the **SHIFT** button is lit to display the media list for switching media.

# **②** SD Card Door ......(13) **②** SD Card Slot ......(13)

 Insert an SD/SDHC card (max. 32GB). SDXC and UHS are not supported.

# Rear Panel



1 Analog input (Balanced) terminal (11)
XLR Type
<ul> <li>Pin Arrangement: 1. GND / 2. Hot (w/ Phantom) / 3. Cold</li> <li>The line input level can be changed using "08 Volume Input" (rapage 22) in "System Setting".</li> </ul>
Analog input (Unbalanced) terminal(11)  • RCA Type
<b>3 Digital input (XLR) terminal</b> (11)  • XLR Type  • IEC60958 Type I
<ul><li>Pin Arrangement: 1. Common / 2. Hot / 3. Cold</li></ul>
<b>4</b> Digital input (RCA) terminal(11)  • IEC60958 Type II

	alog output (balanced) terminal(11 (LR Type
	in Arrangement: 1. GND / 2. Hot / 3. Cold
	alog output (unbalanced) terminal ······(11 CA Type
•  [	gital output (XLR) terminal(11 EC60958 Type I (AES/EBU) 'in Arrangement: 1. Common / 2. Hot / 3. Cold
-	gital output (RCA) terminal(11 EC60958 Type II (COAXIAL)

RS-232C Terminal	(12, 56)
<ul> <li>9pin DSUB Connector (Female)</li> </ul>	
Parallel port (PARALLEL)	(12, 59)
<ul> <li>25pin DSUB Connector (Female)</li> </ul>	
D AC Inlet (AC IN)	(12)
<ul> <li>Connect the supplied power cord.</li> </ul>	

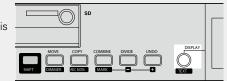
# **Display**

The playback status and information about various media is displayed on the DN-500R display. Details of the display differ depending on the operating status (stopped/recording/playing) of the DN-500R.

**Switching the display** 

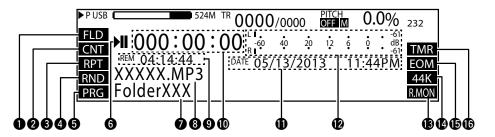
#### Press DISPLAY.

 The display details change each time the button is pressed.



## Playback/pause/search/stop display

• The properties display can also be switched using DISPLAY.



### Playback range display

- Displays the current playback range.
- Displays the settings configured in "19 Play Range" (\*\*) page 19) in "Preset Setting".
   FLD: Current folder/ALL: All folders

### 2 Playback mode display

 Displays the settings configured in "20 Play Mode" (Ppage 19) in "Preset Setting".
 CNT: Continuous playback

SGL: 1 track playback

### 3 Repeat playback display

 Displays the settings configured in "24 Repeat" (☐ page 19) in "Preset Setting".
 RPT: Displayed when repeat playback is on.

### 4 Random playback display

 Displays the settings configured in "21 Random" (Propage 19) in "Preset Setting".
 RND: Displayed when random playback is on.

### **6** Programmed playback display

• Displays the settings configured in "22 Program" (Program of page 19) in "Preset Setting".

PRG: Displayed when programmed playback is on.

#### 6 Status display

• Displays the operating status.

STOP	
CUE	CUE
PAUSE	
AUDIBLE PAUSE	M
SEARCH	44>>
PLAY	•
REC PAUSE	<b>.</b> II
REC	•

#### **7** Folder name

Displays the path to the selected folder.

#### Track name

• Displays the selected track name.

#### Remaining time display

- Displays the remaining time of the current track.
- The display format can be set in "33 Time Display" (Program page 20) in "Preset Setting".
- When the selected track is VBR (Variable Bit Rate) format, the estimated remaining time is displayed.

### Elapsed time display

- The elapsed time of the currently selected track is displayed.
- The display format can be set in "33 Time Display" (Earpage 20) in "Preset Setting".

### Time/Date display

- The current date and time are displayed when playback is stopped.
- During playback, the date and time when the selected track was created are displayed.
- The display format can be set in "14 Time Form" and "15 Date Form" (\*\*Prage 22) in "Preset Setting".

#### Playback level display

- Displays the playback level
- With a three-second peak hold.

#### Recording monitor display

Displays the recording monitor status.
 R.MON: Displayed when the recording monitor is on.

#### Sampling rate display

- Displays the sampling rate of the audio output. (44 K/48 K/96 K)
- When a sampling rate is not applied when Ext(AES) is used, "EXT" flashes in the display. Nothing is displayed when "Auto" is used.

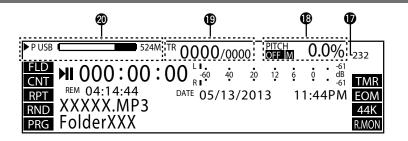
#### End of track notification display

 "EOM" is displayed when a setting other than "Off" is set for "31 End Of Message" (\*\* page 20) in "Preset Setting".

#### Timer Display

• "TMR" is displayed when the "Timer Recording" (Papage 34) or "Timer playback" (Papage 44) is set.

Edit Function



#### Remote serial connection display

 Lights when remote serial commands are being received.

#### Pitch display

- Displays the ON/OFF status of the pitch function, master key and playback speed (percentage).
- "M" is displayed when the master key is on.

#### Track number display

 The right side displays the total number of tracks on the selected media, and the left side displays the selected track number.

#### Media display

- Displays the type of currently selected media (SD/USB) and the amount of free space.
- The currently selected media is set in the upper part and "P" is displayed in front of the media.
- The backup media (dual recording) is set in the lower part (when applicable) and "B" is displayed in front of the media. When a secondary media (relay recording) is set, "S" is displayed in front of the media.
- If there is no free space on the lower media, "MEDIA FULL" is displayed.
- If the lower media reaches 2000 tracks, "TRACK FULL" is displayed.
- If writing is prohibited to the lower media, "WRITE LOCK" is displayed.
- "▶" indicates the currently selected media.

# **Properties display (Playback/pause/search/stop)**

Property
10001 BGM\_001.mp3( /Full/Path)
101/02/2013 10:23:45AM
144K Mo 320kbps
148 Mo 320kbps
148 Mo 320kbps

#### 1 Title Name

#### 2 Track number/file name

- Displays the selected track number and file name.
- The path to the folder in which the file is stored is displayed in the parentheses ().

#### 3 Time/Date Display

- Displays the date and time when the selected track was created.
- The display format can be set in "14 Time Form" and "15 Date Form" (Preset Setting".

#### 4 Track recording information

- Sampling rate
- Channel
- St: Stereo / Mo: Monaural
- Number of quantization bits or bit rate

#### **5** Album name

 Only for MP3 files, the album name within the ID3 tag is displayed.

#### Title

• Only for MP3 files, the title name within the ID3 tag is displayed.

#### Artist

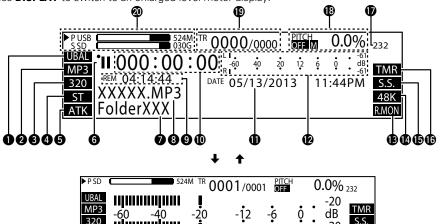
 Only for MP3 files, the artist name within the ID3 tag is displayed.



If the text information does not fit in the display, press **TEXT** in shift mode to scroll and display the hidden text.

# Display during recording and when recording is paused

• Press **DISPLAY** to switch to an enlarged level meter display.



#### • Recording input display

• Displays "09 Audio Input" (@page 18) of the current "Preset Setting".

ATK 11 000:00:00

 UBAL: Unbalanced / BAL: Balanced / AES: AES/EBU / COAX: Coaxial

### 2 Recording file display

- Displays "10 Rec Format" (Propage 18) of "Preset Setting".
- MP3 / WAV

## 3 Recording format display

- Displays "10 Rec Format" (@Ppage 18) of "Preset Setting".
- MP3: Bit rate / WAV: No. of quantization bits

### 4 Recording channel display

- Displays "11 Rec Channel" (Prage 18) of the current "Preset Setting".
- ST: Stereo / MONO: Mono (Lch) / MIX: Lch Rch Mix

## 6 Auto track display

XXXXX.MP3

 Displays "ATK" when "14 Auto Track" (№ page 18) of the current "Preset Setting" is on

48K

R.MON

### 6 Status display

• Displays the operating status.

-20

STOP	
CUE	CUE
PAUSE	
AUDIBLE PAUSE	M
SEARCH	44>>
PLAY	<b>&gt;</b>
REC PAUSE	.11
REC	

## 7 Folder name display

• Displays the path to the selected folder.

#### Track name display

• Displays the progress bar when "14 Auto Track" (Papage 18) of "Preset Setting" is set to anything other than off.

#### Remaining time display

- Displays the remaining recordable time on the selected media.
- The display format can be set in "33 Time Display" (Propage 20) in "Preset Setting".
- "--:-:" is displayed if the format cannot be applied to the remaining time display.

#### Elapsed time display

- Displays the elapsed recording time of the current track.
- The display format can be set in "33 Time Display" ((☐ page 20) in "Preset Setting".

#### Time/Date display

• The recording start date and time are displayed during the recording operation.

#### Recording level meter

 Displays the recording level. With a threesecond peak hold.

#### Recording monitor display

Displays the recording monitor status.
 R.MON: Displayed when the recording monitor is on.

### Displays the recording sample rate.

- Recording sampling rate.
- Displays "12 Sample Rate" (Propage 18) of "Preset Setting".
- When a sampling rate is not applied when Ext(AES) is used, "EXT" flashes in the display.

### Silent skip display

• Displays "S.S." when "16 Silent Skip" (☐ page 19) of "Preset Setting" is on.

### Timer Display

• "TMR" is displayed when the "Timer Recording" (Papage 34) or "Timer playback" (Papage 44) is set.

#### Remote serial connection display

• Displayed when the remote serial command is being received.

#### Pitch display

- Displays the ON/OFF status of the pitch function, master key and playback speed (percentage).
- "M" is displayed when the master key is on.

#### Track number display

 The right side displays the total number of tracks on the selected media, and the left side displays the selected track number.

## Media display

- Displays the type of currently selected media (SD/USB) and the amount of free space.
- The currently selected media is set in the upper part and "P" is displayed in front of the media.
- The backup media (dual recording) is set in the lower part (when applicable) and "B" is displayed in front of the media. When a secondary media (relay recording) is set, "S" is displayed in front of the media.
- If there is no free space on the lower media, "MEDIA FULL" is displayed.
- If the lower media reaches 2000 tracks, "TRACK FULL" is displayed.
- If writing is prohibited to the lower media, "WRITE LOCK" is displayed.
- "▶" indicates the currently selected media.

# **Connections**

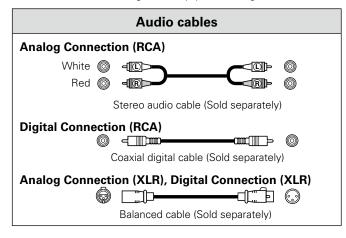
#### NOTE

- Do not plug in the power cord until all connections have been completed.
- When making connections, also refer to the operating instructions of the other components.
- Insert the plugs securely. Loose connections will result in the generation of noise.
- Be sure to connect the left and right channels properly (left with left, right with right).
- Connect the cables to the correct input and output terminals.
- Do not bundle power cords together with connection cables. Doing so can result in humming or noise.

# **Preparations**

## **Cables used for audio connection**

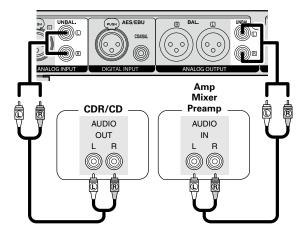
Select the cables according to the equipment being connected.



# **Audio connections**

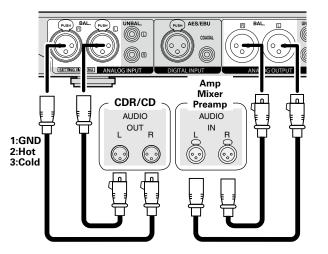
# **Analog connection (unbalanced connection)**

Connect line-level analog inputs/outputs to the analog (unbalanced) input/output terminals for playback or recording.



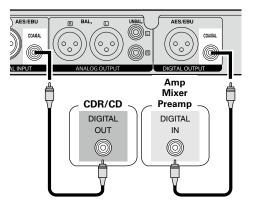
# Analog connection (balanced connection)

Connect line-level analog inputs/outputs to the analog (balanced) input/output terminals for playback or recording.



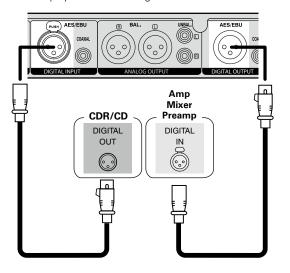
# **Digital connection (COAXIAL)**

Connect digital inputs/outputs to the digital input/output (COAXIAL) connectors for playback or recording.



# **Digital connection (AES/EBU)**

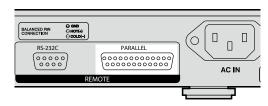
Connect digital inputs/outputs to the digital input/output (AES/EBU) connectors for playback or recording.



# Connecting the external control terminal

# **Parallel port**

Connect the external device to the parallel port.

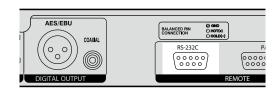


Parallel control can be used to control DN-500R from an external device.

For details on parallel control, see "Parallel control" (@page 59).

## **RS-232C terminal**

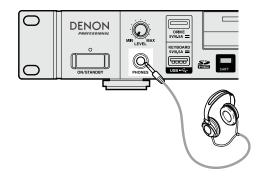
Connect an RS-232C straight cable with a 9-pin D-sub connector to the RS-232C serial terminal.



RS-232C control allows you to perform external control from the host. For details on RS-232C control, see "Serial remote control function" (2) page 56).

# **Connecting headphones**

Connect the headphones to the headphone jack (PHONES).





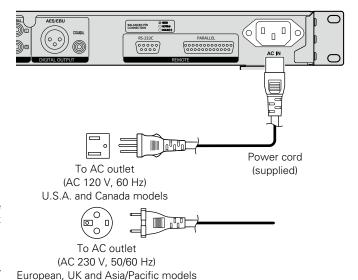
When you press the headphone volume adjustment knob (**LEVEL**), the knob will spring out. After adjusting the volume, press the knob back in again.

### NOTE

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

# **Connecting the power cord**

Insert the power cord when all other connections are completed. Be sure to connect the ground wire also.



#### NOTE

- Be sure to insert the power plug firmly into the AC outlet. If the plug is not properly inserted, it could cause a malfunction or noise.
- Do not unplug the power cord while the unit is operating.
- Do not use a power cord other than the cord supplied with this unit.

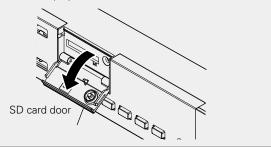
# Mounting recording media

## SD card

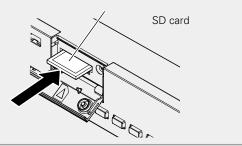
## $\square$ Inserting an SD card

**1** Open the SD card door in the direction indicated with the arrow.

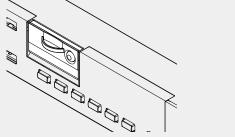
The screen displays "SD DOOR OPEN".



**2** Insert the SD card fully into the SD card slot until a "click" sound is heard.



**?** Close the SD card door.



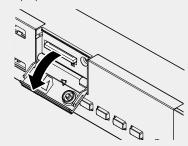
 If the SD card door does not close with a "click", check that the SD card is fully inserted into the slot.

## ☐ Removing the SD Card

Check beforehand that playback from or recording to the SD card is stopped.

Open the SD card door in the direction indicated with the arrow.

The screen displays "SD DOOR OPEN".

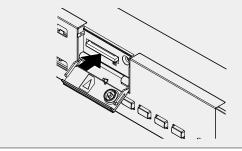




- The operation in progress continues even while "DOOR OPEN" is displayed
- To make "DOOR OPEN" disappear, close the SD card door or press the jog dial.

**?** Press the SD card.

The SD card springs out. Remove the card.



NOTE

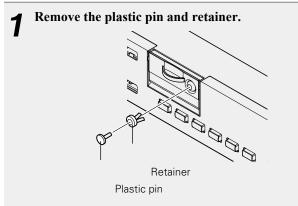
Removing the SD card during recording may result in incorrect writing of the recorded file.

Do not remove the SD card during recording.

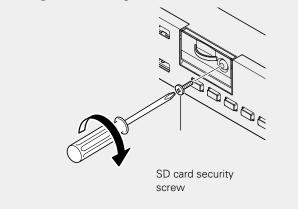
## **□** SD card protection

The DN-500R SD card door can be fixed in place using the SD card security screw included. (A small Phillips screwdriver is required for installation).

Fixing the SD card door prevents the door from being opened easily, thus preventing accidental loss of the SD card.



- Store the removed plastic pin and retainer in a safe place.
- **2** Attach the security screw to the screw hole from which the plastic pin was removed, and tighten it using a small Phillips screwdriver.



Edit Function

### **About SD card**

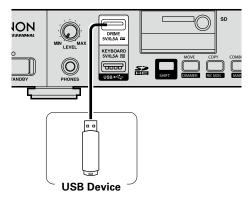
For details of SD cards that have been confirmed as being compatible for use by DENON, see the DENON website (URL: http://www.d-mpro.com).

## Connecting a USB device

The DN-500R supports USB flash memory and external USB device (mass storage class).



- USB-HUBs are not supported.
- HFS+ is only supported for playback.
- FAT16/FAT32 file systems are supported.



## NOTE

Removing the USB drive during recording may result in incorrect writing of the recorded file.

Do not remove the USB drive during recording.

# **Cautions when recording media is mounted**

- Do not used a cracked or warped SD card or USB drive, or one that has been repaired with adhesive.
- "Loading..." appears on the display when recording media is mounted or loaded. Do not remove the recording media while this message is displayed.

# Menu List

Setting button	MENU	Setting Item	Page
	01 User Preset Sel	01 PRESET1	
		02 PRESET2	18
		03 PRESET3	
		01 Preset Title	18
		02 Shift Mode	18
		03 Power On	18
		04 Dual Rec	18
		05 Relay Rec	18
		06 Rec Level Type	18
		07 ALC	18
		08 One Touch Rec	18
		09 Audio Input	18
		10 Rec Format	18
		11 Rec Channel	18
		12 Sample Rate	18
		13 Pre Record	18
MENU		14 Auto Track	18
	02 Preset Setting X	15 Auto Mark	19
	U2 Preset Setting X	16 Silent Skip	19
		17 Silent Level	19
		18 Silent Time	19
		19 Play Range	19
		20 Play Mode	19
		21 Random	19
		22 Program	19
		23 Finish Mode	19
		24 Repeat	19
		25 Auto Cue	19
		26 Skip Back	19
		27 Search Mode	19
		28 Auto Fade In	19
		29 Auto Fade Out	19
		30 Start Delay	20

Setting button	MENU		Setting Item		Page
		31 End Of Message			20
		32 Master Key			20
		33 Time Display			20
		34 File Sort			20
		35 Dimmer			20
	02 Preset Setting X	36 Display Dimmer			20
	02 Fleset Setting A	37 LED Dimmer			20
		38 Screen Saver			20
		39 Fader Start			20
		40 Para Rem Mode			20
		41 Keyboard Type			20
		42 Default			20
				Edit	1
				Insert	34
	03 Rec Timer	Rec Timer List	Rec Timer Menu	Clear	
	00 1100 1111101	(Max. 30)	Tide Tillier Wiena	All Clear	
				Timer On	
				Timer Off	
			Play Timer Menu  Program List Menu	Edit	44
MENU		Play Timer List		Insert	
04 Play Timer	04 Play Timer			Clear	
		(Max. 30)		All Clear	
				Timer On	
				Timer Off	
		Program List		Preview	
				Insert	
	05 Program List			Remove	
	05 Program List	(Max. 99)		Remove All	
				Load	1
			Save	1	
				Preview	
				Auto Mapping	-
2011				Set	1
	0011-41:-4	Hot List	Liet Liet Manne		
	06 Hot List	(Max. 20)		Remove	46
				Remove All	
				Load	
				Save	

Setting button	MENU	Setting Item	Page
		01 Timer Priority	21
		02 Rec Folder	21
		03 Signal Pass Thru	21
		04 User Area	21
		05 File Name Form	21
		06 Mono Play	21
		07 Output Rate	21
		08 Volume Input	22
		09 Ref(XLR/RCA)	22
		10 Input Trim Lch	22
		11 Input Trim Rch	22
	07 System Setting	12 Output Trim Lch	22
		13 Output Trim Rch	22
		14 Time Form	22
MENU		15 Date Form	22
		16 Display Contrast	22
		17 Language	22
		18 Serial Bit Rate	22
		19 Machine Name	22
		20 Daylight Saving	22
		21 Admin Passwd	22
		22 Auto Reboot	22
		23 Default	22
	08 Utility	01 Time/Date	24
		02 Load Setting	24
		03 Save Setting	24
		04 Firmware Version	25
		05 Format Media	25
		06 Speed Check	25

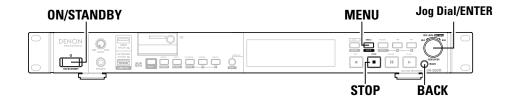
DN-500R can record audio input on an SD card in the unit or to a USB drive.

DN-500R is equipped with various recording and playback settings so that you can use wideranging applications to record and play back.

DN-500R also allows you to program up to three preset settings. Use this feature to preset recording and playback setting patterns in advance, according to your purpose. You can switch the settings for a specific purpose by simply selecting the preset number.

When using this unit for the first time, be sure to set the clock before use. For details on how to set the clock, see "Time/Date" (@page 24).

## **Menu operations** (Preset selection/Preset setting/System setting)



## **Press ON/STANDBY.**

The power of DN-500R is switched ON, and the display screen lights.

While DN-500R is stopped, press MENU.

The menu list is displayed.

#### 01 User Preset Sel 02 Preset Setting 1

- 03 Rec Timer
- 04 Play Timer
- 05 Program List
- For details on the setting items in each menu, see "Menu List" (repage 15).

## Rotate the jog dial to select the menu of the settings that you want to change, and press ENTER.

The menu list of the selected item is displayed.

- If an Admin password is set for "System Setting", the password needs to be entered.
- Rotate the jog dial to select the setting item that you want to change, and press ENTER.

The setting item is chosen.

- Rotate the jog dial to select the detailed item that you want to set, and press ENTER. The setting item is chosen.
- To continue to set other items, perform the operation in step 4, 5 again.
- To return to the upper level menu from the menu item currently being set, press BACK.
- After you finish all settings, press MENU.

The changed settings are saved, and DN-500R returns to the stopped status.

## **Canceling settings**

Follow the steps below.

1) Press STOP.

Displays the "Exit without Saving?".

2 Rotate the jog dial to select "OK", and press ENTER. The settings are canceled.

☐ Selecting presets (User Preset Sel)

Three presets (PRESET1/PRESET2/PRESET3) can be created.

Select and use the presets according to how the unit is used.

## ☐ Preset Setting

These settings are performed independently for each of the 3 presets (Preset-1/Preset-2/ Preset-3). Firstly, select the preset number that you want to set from "01 Presets" in the menu.

• There are preset items that have different initial values for PRESET 1, 2 and 3. In this case, the PRESET number is recorded after the initial value.

Setting Items	Setting details (Items in bold are factory default)
01 Preset Title	Preset X (X=1 - 3)
Changes the preset name.	
	For details, see "Renaming presets" (Prage 21).
02 Shift Mode	Momentary: Switches to the shift mode when holding down the SHIFT
Sets operations for the	button when another button is pressed.
SHIFT button.	Lock: Switches to the shift mode when the <b>SHIFT</b> button is pressed. In
	this case, the <b>SHIFT</b> button lights.
03 Power On	<b>Stop:</b> Stops when the power is switched on.
Sets the operation when the DN-500R power is switched	Resume Play: Start playback from the track that was played last by the previous operation.
on.	Play First: Playback starts from the first track in the folder that was played
	last by the previous operation.
	Rec: Starts recording in the folder of the currently selected media.  Settings for the save folder can be configured in "02 Rec Folder"  (Page 21) in "System Setting".
04 Dual Rec	Off: Turns dual recording off.
Sets the backup media for	SD: Selects SD as the backup media.
dual recording.	USB: Selects USB as the backup media.
05 Relay Rec	Off: Turns relay recording off.
Sets the media (secondary	SD: Selects SD as the secondary media.
media) on which recording	USB: Selects USB as the secondary media.
continues when relay	
recording is used.	
06 Rec Level Type	Master/Bal: Adjusts the input level and balance of the left and right
Sets the jog dial as the	channels.
selection method for the recording level.	Separate L/R: Adjusts the input level of the left and right channels individually.

Setting Items	Setting details (Items in bold are factory default)
07 ALC	Off (PRESET1/2): Turns ALC off.
Sets ALC (Auto Level	Mix: Sets the same ALC for the left and right channels.
Control).	<b>Separate</b> (PRESET3): Sets ALC for the left and right channels individually.
08 One Touch Rec	Off (PRESET1/2): Press the REC button once to pause recording, and again
Sets the <b>REC</b> button	to start recording.
operation.	On (PRESET3): Press the <b>REC</b> button once to start recording.
09 Audio Input	Bal: Records the XLR analog input terminal source.
Selects the audio input	UnBal: Records the RCA analog input terminal source.
source for recording.	AES / EBU: Records the XLR digital input terminal source.
	Coaxial: Records the RCA digital input terminal source.
10 Rec Format	MP3-320 (PRESET2) / MP3-256 / MP3-192 /
Selects the audio format	MP3-128 (PRESET1) / MP3-64 / PCM-16 /
(MP3 or PCM) for recording.	PCM-24 (PRESET3)
J.	• Indicated bitrate values are those when you record as a stereo file.
	• Select the bitrate for the MP3 format.
	Select the quantized bit number for the PCM format.
	• MP3 cannot be selected when the "12 Sample Rate" is 96k.
11 Rec Channel	Stereo: Records as a stereo (2-channel) file.
Select whether to record as	Mono(L): Records as a monaural (left channel) file.
a stereo file or a monaural	MonoMix: Mixes as stereo (2-channel) and records as a -3dB file.
file.	
12 Sample Rate	44.1k (PRESET1/2): Records at 44.1kHz.
Selects the sampling	48k: Records at 48kHz.
frequency for recording.	96k (PRESET3): Records at 96kHz.
, ,	Ext (AES): Records with an external clock (AES/EBU).
	NOTE
	This is only enabled for recording analog input.
	• 96k cannot be selected when the "10 Rec Format" is MP3.
13 Pre Record	Off: Turns pre recording off.
When recording is started	1sec / 2sec / 3sec / 4sec / 5sec
from the recording paused	
status, recording starts	
retroactively for this set	
amount of time.	
14 Auto Track	Off: Record without creating a new file.
Creates a new file for each	1min / 5min / 10min / 15min / 30min / 1hour / 2hour / 6hour / 8hour /
recording time set and	12hour / 24hour
continues recording.	
ŭ	NOTE
	• When the size of a recorded file reaches 2GB, recording automatically
	switches to a new file and continues.
	• There could be sound cutoffs for a short period of time between files
	depending on the capacity of a recorded file.

Setting Items	Setting details (Items in bold are factory default)
If an input that is below the level set in "17 Silent Level" continues for longer than the time set in "18 Silent Time" (P page 19), marking information is written in the file. This mark is useful when searching for a specific point during playback.	<ul> <li>Off: Turns the auto mark function off.</li> <li>On: Turns the auto mark function on.</li> <li>A maximum of 30 marks can be written to one file.</li> <li>Marking numbers are attached in numerical order starting from 1.</li> <li>Marks can also be added manually. For details, see "Add marks (marking)" (Papage 41).</li> <li>Marks can be edited using the "DMP Mark Editor" software included For details, see the instruction manual on the included CD-ROM.</li> </ul>
If an input that is below the level set in "17 Silent Level" continues for longer than the time set in "18 Silent Time", recording is paused. Recording is restarted when input above the set level is received again.	Off: Turns the silent skip function off. On: Turns the silent skip function on. The s.s icon is shown on the display (F) page 37 "Silent skip recording").  • If the recording is temporarily stopped because of the silent skip function "S.S" will flash on the display.  • When "16 Silent Skip" is "On", a maximum 0.5 second pre recording is added before starting recording from the recording paused state.
17 Silent Level Sets the silent level when "15 Auto Mark" or "16 Silent Skip" is set to on.	-60dB / -54dB / <b>-38dB</b> / -20dB
18 Silent Time Set the silence judgment time for silent skip recording.	1sec/2sec/3sec/4sec/5sec
<b>19 Play Range</b> Sets the track playback range.	All: Plays back all of the tracks in all folders.  Folder: Plays back all of the tracks in the selected folder.
20 Play Mode Sets the track playback mode.	Continuous: Continuously plays the tracks within the selected folder or within all folders (according to the "19 Play Range" setting) Single: Plays back only 1 track.

Setting Items	Setting details (Items in bold are factory default)
21 Random	On: Random order playback is performed.
Sets random playback.	Off: Random order playback is not performed.
22 Program	On: Plays back tracks in the set order (programmed playback).
Sets programmed playback.	Off: Programmed playback is not performed.
23 Finish Mode	Stop: Playback stops.
Sets the operation when	<b>Next</b> : When playback is stopped, the next track is cued.
olayback is stopped.	Recue: Playback stops and returns to the cue point.
24 Repeat	On: Repeat playback is performed.
Sets repeat playback.	Off: Repeat playback is not performed.
25 Auto Cue	Off: Turns the auto cue function off.
Sets the auto cue function.	-48dB/-42dB/-36dB: After the track has been selected, audio in the beginning of the track that is below the set volume level is skipped and temporarily stops playback.
	The auto cue function temporarily stops playback at the point where playback restarts after skipping the silent portion at the beginning of a file. <b>NOTE</b>
	If the silent portion cannot be detected at the beginning of a file even after 20 seconds, then temporarily stops playback at the beginning of the file.
26 Skip Back	0.5 - 2 - 60sec: Set the skip back time for a track that is currently being
The track skips back just the	played back to 0.5 second intervals between 0.5 and
set amount of time during	10 seconds, or 5 second intervals between 10 and 60
playback or when paused,	seconds.
and plays back or remains paused (@page 40 "Skip back").	
27 Search Mode	Normal: Plays back audio in 2 x speed search, but does not play back
Sets the search mode.	audio at faster playback speeds.
	Silent: Audio is not played back during search.
28 Auto Fade In	Off: Does not function.
Sets the fade in time at the start of playback.	0.5 sec/1.0 sec/3.0 sec: The volume gradually increases for the set time.
29 Auto Fade Out	Off: Does not function.
	0.5 sec/1.0 sec/3.0 sec: The volume gradually decreases for the set time.

Setting Items	Setting details (Items in bold are factory default)
30 Start Delay	Off: Does not function. (Playback starts immediately).
Sets the playback start	100ms / 200ms / 300ms: Playback starts after the set time.
timing.	
31 End Of Message	<b>Off</b> : Does not function.
Sets how the EOM display	0 sec: Flashes for 0.5 seconds when the track ends.
lights in the display.	5 sec / 10 sec / 15 sec / 20 sec / 30 sec / 60 sec: Flashes for the set
	amount of time before the track ends.
32 Master Key	Off: Disabled.
Sets the master key for the	On: Enabled.
pitch control function.	
33 Time Display	HH:MM:SS: Displayed in hours/minutes/seconds.
Sets how the playback	MMM:SS;FF: Displayed in minutes/seconds/frames.
and recording time are	
displayed.	
34 File Sort	<b>Name:</b> Sorts files into order of symbols $ ightarrow$ numbers $ ightarrow$ alphabetical
Selects the sorting method	order.
of the file list order.	Date: Sorts files into date order.
	NOTE
	Files are sorted in folder units.
35 Dimmer	Off: Does not function.
Turns the "36 Display	ON: Functions.
Dimmer" and "37 LED	ON. Functions.
Dimmer" settings on/off.	
36 Display Dimmer	100%: Normal brightness.
Sets the brightness of the	75%: 75 % of the normal brightness.
display.	50%: 50 % of the normal brightness.
display.	25%: 25 % of the normal brightness.
	0%: Off in the standby status, and 25 % of the normal brightness during
	operation.
37 LED Dimmer	100%: Normal brightness.
Sets the LED brightness.	75%: 75 % of the normal brightness.
	50%: 50 % of the normal brightness.
	25%: 25 % of the normal brightness.

Setting Items	Setting details (Items in bold are factory default)
38 Screen Saver	Off: Does not function.
Sets the screen saver.	On: The screen saver starts when there are no operations for 30 minutes.
<b>39 Fader Start</b> Sets the operations when	Play: Plays back while the FADER START pin of the parallel remote is closed.
parallel remote is used.	Play-Pause: Plays back while the FADER START pin is closed, and pauses when this pin is opened.
	Play-Next: Plays back while the FADER START pin is closed, and jumps to the next track when this pin is opened.
	Play&Lock: Plays back while the FADER START pin is closed, and locks the keys of the unit.
	Play&Lock-Pause: Plays back when the FADER START pin closes, and locks the keys of the unit. Playback pauses when this pin opens.
	Play&Lock-Next: Plays back when the FADER START pin closes, and locks the keys of the unit. Playback jumps to the next track when this pin opens.
	StartPause: During recording or playback, recording or playback starts when FADER START is closed, and recording or playback is paused when FADER START is opened.
	StartPauseTrack: During recording, Recording starts when FADER START is closed and is paused when FADER START is opened. Furthermore, if FADER START is closed again when recording is paused, the file is updated to a new file and recording restarts.
	ManualTrack: If FADER START is closed when recording is paused, the file is updated to a new file and recording continues.
	For details on parallel remote, see "Parallel control" (Prage 59).
40 Para Rem Mode	Hot Start: Sets the Hot Start mode.
Sets the operating mode of the parallel remote function.	Hot Cue: Sets the Hot Cue mode (Playback is not performed by Hot Start).
<b>41 Keyboard Type</b> Sets the language type of the keyboard connected to the DN-500R.	US(English)/UK(English)/FR(French)/GE(German)/IT(Italian)/SP(Spanish)/DU(Dutch) / SW(Swedish) / JP(Japanese)
42 Default	Resets all of the preset settings to the defaults.

□ Renaming presets

Preset names can be renamed according to their use. A maximum of 32 characters can be input.

## **Entering Characters**

First, select the preset number that you want to rename from "01 User Preset Sel" in the menu. Next, select "01 Preset Title" in "02 Preset Setting".

① Place the cursor in the position where you want to insert characters using the <<, >>> buttons.

Preset Title

ABC

</>
</>
</>
SHAPE IN:JOG

- (2) Rotate the jog dial to select the character you want to enter, and press **ENTER**.
- 3 Repeat steps 1 and 2 or step 2 to enter all of the characters.
- 4) When you have finished entering the characters, press **ENTER**.
  - Saves the entered characters.

## **Deleting Characters**

- ① Place the cursor to the right of the character you want to delete the  $\blacktriangleleft\blacktriangleleft$ ,  $\blacktriangleright\blacktriangleright$  buttons.
- 2 Press **FRAME**.
  - Deletes a character on the left of the cursor.



- By default, presets have a name that is eight characters long. To rename an existing name, delete the currently set characters first and then enter a new name.
- The following characters and symbols can be entered.

ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz(space)! #\$%&'()+,-;=@[]^\_'{}~0123456789

The characters on the above underlined part, from ¡ to ÿ, are Latin alphabets. Alphabets are available when the display language is set to "Eng", but not available when it is set to "Jpn". For information about the display language, refer to "17 Language" (😭 page 22).

- To cancel without saving the entered characters, press the **BACK** button before saving.
- These characters can also be entered using a USB keyboard.

## □ System Setting

Setting Items	Setting details (Items in bold are factory default)
01 Timer Priority	Off: Timer playback only starts in the standby, stop or cue state.
Sets the priority of timer playback.	On: Timer playback starts any time other than when recording.
02 Rec Folder	<b>Current</b> : Recorded data is saved into the currently selected folder.
Sets the folder where data is saved when recording.	Fixed: Recorded data is saved into a fixed folder directly below the root folder.  A folder is automatically created if there is no folder.  The folder name is "DMH_REC".
	When "19 Play Range" (@ page 43) in "Preset Setting" is set to "All",
	data is saved to the root folder.
03 Signal Pass Thru	Off: The input signal is not passed through to the rear audio terminals.
Sets the input signal to the rear audio terminals when	On: The input signal is passed through unchanged to the rear audio terminals.
recording or when recording	
is paused.	
	The input signal will always be present in the headphones regardless of the Signal Pass Thru setting.
04 User Area	Off: User area is not used.
Sets the character string	On: User area is used.
(user area) added to the	on. God area is about
recorded file name.	
	For details on how to input the characters, see "Renaming presets"
	( <b>全</b> page 21).
<b>05 File Name Form</b> Sets the file name creation format when recording.	MN_DT_UA: "Machine name_recording start time_user area.***" MN_UA_DT: "Machine name_user area_recording start time.***" DT_MN_UA: "Recording start time_machine name_user area.***" DT_UA_MN: "Recording start time_user area_machine name.***" UA_MN_DT: "User area_machine name_recording start time.***" UA_DT_MN: "User area_recording start time_machine name.***" (* is the extension.)
06 Mono Play	Off: Channels are output in accordance with the input source.
Sets monaural playback.	On: Channels are summed and output as monaural
07 Output Rate	<b>Auto</b> : Audio output based on the rate of the input media or file.
Sets the sampling rate of output audio.	44.1k: Audio output at 44.1 kHz. 48k: Audio output at 48 kHz.
output audio.	Ext (AES): Uses an external clock (AES/EBU) to output audio.
	Ext (ALS). Oses all external clock (ALS/LBO) to output audio.
	When the external clock is 96kHz, audio is output according to the sampling rate of the playback file if the playback file has a sampling rate other than 96kHz.

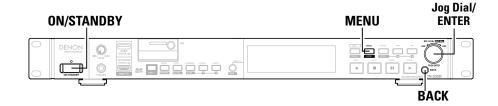
Setting Items	Setting details (Items in bold are factory default)
08 Volume Input	Fixed (0dB): Fixed at 0dB.
Sets the analog recording	<b>Variable</b> : Mute can be adjusted from -60 – <b>0</b> – 10dBu in 0.1dB increments.
input level.	
09 Ref (XLR/RCA)	<b>+24dBu/+10dBV</b> : XLR=+24dBu / RCA=+10dBV
Sets the input/output	·
standard level.	+18dBu/+4dBV: XLR=+18dBu / RCA=+4dBV
10 Input Trim Lch	+2.0dB – <b>0dB</b> – -2.0dB
Adjusts the analog input for	
the left channel in 0.1dB	
increments.	When adjusting it, the sound is output to the output terminal.
11 Input Trim Rch	+2.0dB – <b>0dB</b> – -2.0dB
Adjusts the analog input for	
the right channel in 0.1dB	
increments.	When adjusting it, the sound is output to the output terminal.
12 Output Trim Lch	+2.0dB – <b>0dB</b> – -2.0dB
Adjusts the analog output	
for the left channel in 0.1dB	
increments.	
13 Output Trim Rch	+2.0dB – <b>0dB</b> – -2.0dB
Adjusts the analog output for	
the right channel in 0.1dB	
increments.	101 0 11 1 10 10 11 11 (0.0 4.0 10.0 10.0 10.0 10.0 10.0 10.0 10
14 Time Form	<b>12h</b> : Switches to the 12-hour display (AM/PM).
7.	24h: Switches to the 24-hour display.
time display.	
15 Date Form	MDY: Displays the date in Month/Day/Year order.
' '	DMY: Displays the date in Day/Month/Year order.
date.	YMD: Displays the date in Year/Month/Day order.

Setting Items	Setting details (Items in bold are factory default)
<b>16 Display Contrast</b> Sets the contrast of the display.	1 – <b>5</b> : 1 is the darkest, 5 is the brightest.
17 Language*1 Selects the display language for the file names and folder names.	<b>Eng</b> : Displays the file names and folder names in English.  Jpn: Displays the file names and folder names in Japanese.
<b>18 Serial Bit Rate</b> Sets the serial communication bitrate for RS-232C.	<b>9600</b> : 9600 bps 38400: 38400 bps
19 Machine Name*1 Displays the name of the recorder (maximum 12 characters).	DN-500R
<b>20 Daylight Saving</b> Sets daylight saving time.	Off: Daylight saving time is not applied. On: Daylight saving time is applied. Set the start and end date of daylight saving time and the offset time of up to six hours in 15-minute increments.
21 Admin Passwd Sets the Admin Password for when "System Setting" is used.	****: Set the password between 6 to 12 characters.  For details on how to input the password, see "Renaming presets" (Far page 21).
22 Auto Reboot	Off: Does not automatically reboot. On: Reboots automatically if the main processor freezes.
23 Default	Resets all of the system settings to the defaults.

\*1 The DN-500R will automatically reboot (power off and then back on) to enable the settings.

Edit Function

# **Menu Operations (Utility)**



## ☐ Select Utility

**→** Press ON/STANDBY.

The power of DN-500R is switched ON, and the display screen lights.

**2** While DN-500R is stopped, press MENU. The menu list is displayed.

**Q** Rotate the jog dial to select "Utility", and press ENTER.

- Press **BACK** to return to the previous item.
- Press **MENU** to exit the menu when the menu is displayed. The menu display turns off.

# Saving the menu settings to an SD card or USB memory

This unit has a function for saving the menu settings to an SD card or USB flash memory. This function is useful for transferring the settings from one DN-500R onto other DN-500R units.



- Data that can be saved
- Preset settings: PRESET1, PRESET2, PRESET3 data, currently used preset number
- System setting
- Recording timer setting
- Playback timer setting
- Playback pitch information, recording input level, recording monitor

#### NOTE

When "21 Admin Passwd" (Page 22) is set in "System Setting", the System Setting data is not applied if the password in the DN-500R is not the same.

☐ Time/Date

• Set the current time. The time must be set before using the unit because the set time is used as the recorded file name.

**■** Select "Utility" and rotate the jog dial to select "Date/Time", then press ENTER.

**2** Rotate the jog dial to select the input position (year/month/day/hour/minute), and press ENTER.

Date/Time

Date: May/13/2013

Time:11:54

</>></>> Change:JOG Push

**?** Rotate the jog dial to select the setting item, and press ENTER.

- The current time display type (12-hour display/24-hour display) can be selected in "14 Time Form" (\*\*\* page 22) in "System Setting".
- The display order of the date (year/month/date) can be selected in "15 Date Form" (Prage 22) in "System Setting".
- When all settings are entered they will be automatically saved and the utility menu will be displayed. If only some of the settings are changed, but not all, press BACK twice.

"Fix" and "Discard" are displayed.

**5** Rotate the jog dial to select "Fix", and press ENTER. Confirm the settings.

\_ committee commiger

• Select "Discard" to discard the changes.

NOTE

This unit is equipped with a clock function, but the time may become skewed due to the installation condition of the unit.

## □ Load Setting

Reads the preset setting file stored in the root directory of the currently used media (SD/USB), and changes the settings of the unit accordingly.

- **Select "Utility" and rotate the jog dial to select "Load Setting", then press ENTER.**Displays the "Load Preset?".
- 2 Select "OK" with the jog dial, and press ENTER.

  The "DN-500R.ini" file on the currently used media is read, and the unit's settings are updated.

  When the update is complete, "Completed" is displayed.

## **□** Save Setting

Saves the current preset settings in the root directory of the currently used media (SD/USB).

- **1** Select "Utility" and rotate the jog dial to select "Save Setting", then press ENTER. Displays the "Save Preset?".
- Select "OK" with the jog dial, and press ENTER.
  The "DN-500R.ini" file is saved in the root directory of the currently used media.
  When the update is complete, "Completed" is displayed.
   The file uses UTF8.

☐ Firmware Version

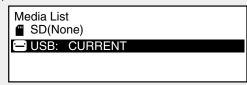
Displays the firmware version of the DN-500R.

**Select "Utility" and rotate the jog dial to select "Firmware Version", then press ENTER.** Displays the firmware version of the DN-500R.

☐ Format Media

Formats the currently used media (SD/USB).

Select "Utility" and rotate the jog dial to select "Format Media", then press ENTER. The media list is displayed.



**?** Rotate the jog dial to select the media, and press ENTER.

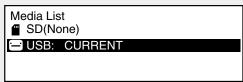
Select "OK" with the jog dial, and press ENTER.

"Formatting" is displayed during formatting, and "Completed" is displayed when the formatting is complete.

☐ Speed Check

Checks the read and write speed of the currently used media (SD/USB). Always perform a speed check on media before using it.

Select "Utility" and rotate the jog dial to select "Speed Check", then press ENTER. The media list is displayed.



**?** Rotate the jog dial to select the media, and press ENTER.

**3** Select "OK" with the jog dial, and press ENTER. Media check starts and "Check Speed ..." is displayed.

• The following results are displayed when the speed check is complete.

"Good": The checked media is suitable for use.

"Good w/o Rec Mon": The checked media is suitable for simple recording but is unsuitable for recording monitoring.

"Poor": The checked media is unsuitable for use.

4 Select "OK" and press ENTER.

# **Selecting Media**

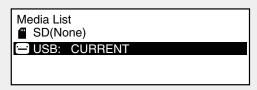
# **Media List**

Media that can be selected are displayed in a list.



## ☐ Displaying the media list and selecting media

**1** When in the stopped state, hold down SHIFT and press MEDIA. The media list is displayed.



- "(None)" is displayed after the media name for media that is not ready to playback. CURRENT: The currently selected media.
- DUAL: Media set as backup media in "04 Dual Rec" (@page 18) of "Preset Setting".

  RELAY: Media set as secondary media in "05 Relay Rec" (@page 18) of "Preset Setting".
- **2** Rotate the jog dial to select the media, and press ENTER.

  The selected media becomes the currently selected media, and the unit returns to the stopped state.

# **File List**

The list of folders and files that can be selected is displayed.

**Selecting Files and Folders** 

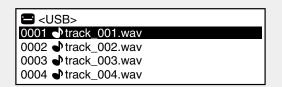


## File List Menu

Perform file management operations. You can check file information, change file names, and delete, copy and move files.

## ☐ Selecting folders and files and displaying the file list menu

Press LIST when the playback screen is displayed. The "File List" is displayed.



#### □ Folder selection

- Use the jog dial to select "<Up One Level>" for the parent folder and press ENTER to display the file list in the folder one level above.
- Use the jog dial to select the folder and press **ENTER** to display the file list in the selected folder.
- Press **LIST** to exit folder selection and return to the stopped status.

#### ☐ File selection

• Use the jog dial to select a file and press **ENTER** to close the file list and cue the start of the selected

## Rotate the jog dial to select the file or folder to operate, and press MENU. The File List Menu is displayed.

■ <usb></usb>	01 Draviano
	01 Preview
0001 Track_001.wa	02 Select All
0002 • track_002.wa	03 Rename
0003 • track_003.wa	04 Delete
0004 track_004.wa	05 Copy

• Press **BACK** in the file list menu display to return to the previous screen.

### ☐ File List Menu

Display	Explanation	
01 Preview	Previews just one track of the selected file.	
02 Select All	Selects all files in the list.	
03 Rename*	Changes the file name or folder name.	
04 Delete	Deletes selected files or folders.	
05 Copy*	Copies selected files or folders.	
06 Move*	Moves selected files or folders.	
07 Make Folder	Creates a new folder.	
08 Delete Mark	Deletes all marks from the selected file.	
09 Property	Displays information of the selected file.	

\*: Directly after editing, "UNDO" (Page 48) can be used to return the edit to the previous state.

## Playing back files (01 Preview)

Playback starts to preview the selected file.

# Rotate the jog dial to select "01 Preview", and press ENTER.

 Press STOP or ENTER to stop playback and return to the file list menu.

# Selecting all files for copying/moving/ deleting (02 Select All)

Use to select all files to copy, move or delete. Selects or deselects all files in the file list.

# Rotate the jog dial to select "02 Select All", and press ENTER.

All files are selected and the display returns to the file list. Check marks are added to the front of the files.

• If all files were selected, this deselects all files.



If the folder is changed, the selected state is cleared.

## ☐ Selecting multiple files to copy, move or delete

Use to select multiple files to copy, move or delete.

### In the file list, hold down SHIFT and press ENTER.

The file or folder on the cursor is selected and a check mark is added in front of it.

- Only files within the same folder can be selected.
- To deselect a file or folder, perform the selection operation again.



When the folder was changed, the selected state is cleared.

# Changing the file name or folder name (03 Rename)

Change the name of the selected file. Up to 252 characters can be entered.

1

# Select "03 Rename" in the folder list menu, and press ENTER.

The rename menu is displayed.

File Rename

track\_001.wav

</>:<</>> BKSP:FRAME IN:JOG

# **2** Change the file name or folder name.

• The method for renaming the file is the same as "Renaming presets" (\*\*\* page 21).

# **3** Press ENTER to save the changes.

• To return to the previous screen without saving the changes, press **BACK**.



If a space is entered at the start or end of the file name or folder name, the space is deleted when the file name or folder name is saved.

## **Deleting Files and Folders (04 Delete)**

Delete the selected file or folder.

# Select "04 Delete" in the folder list menu, and press ENTER.

"Delete?" is displayed.

- Select "OK" with the **ENTER** to delete the file.
- Select "Cancel" and press ENTER to cancel the file deletion and return to the file list menu.

## **Copying Files and Folders (05 Copy)**

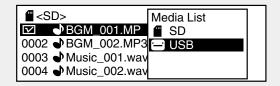
Copy the selected file or folder to a different media or folder.

**1** Select "05 Copy" in the folder list menu, and press ENTER.

A media list for selecting the copy destination is displayed.

**2** Rotate the jog dial to select the copy destination media, and press ENTER.

The folder list is displayed.



**3** Rotate the jog dial to select "<Copy Here?>" in the copy destination folder level, and press ENTER.

The copy process starts.

- During copying, "Executing ... \*\*\*%" (\*: progress status) is displayed.
- When the copying is complete, "Completed" is displayed.
- Select "Cancel" and press ENTER to cancel copying.

### NOTE

Copying cannot be performed in the following situations.

- When the media is write prohibited
- When there is not enough free space on the media
- When there is same file name / folder name

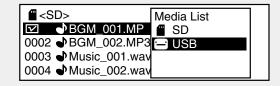
## Moving files (06 Move)

Move the selected file or folder to a different media or folder.

**1** Select "06 Move" in the folder list menu, and press ENTER.

A media list for selecting the move destination is displayed.

**2** Select the move destination media and press ENTER. The folder list is displayed.



Rotate the jog dial to select "<Move Here?>" in the move destination folder level, and press ENTER.

The move process starts.

- During moving, "Executing ... \*\*\*%" (\*: progress status) is displayed.
- When the moving is complete, "Completed" is displayed.
- Select "Cancel" and press **ENTER** to cancel moving.

### NOTE

Files cannot be moved to other media in the following situations.

- When the media is write prohibited
- When there is not enough free space on the media
- When there is same file name / folder name

# **Creating folders (07 Make Folder)**

Create a new folder in the selected folder.

**1** Rotate the jog dial to select "07 Make Folder", and press ENTER.

The name change menu is displayed.

Make Folder

New Folder

</>:</>> BKSP:FRAME IN:JOG

**2** Enter the folder name.

 For details on how to input, see "Renaming presets" (@page 21).

Press ENTER to save the changes.

 Press BACK to return to the previous screen without saving the changes.



If a space is entered at the start or end of the folder name, the space is deleted when the folder name is saved.

## **Deleting marks (08 Delete Mark)**

Deletes all of the marks written into the selected file.

# Select "08 Delete Mark" in the folder list menu, and press ENTER.

"Delete Mark?" is displayed.

- Select "OK" with the ENTER to delete the marks.
- Select "Cancel" and press **ENTER** to cancel the mark deletion and return to the file list.

# File information (09 Property)

The selected file information is displayed

# Rotate the jog dial to select "09 Property", and press ENTER.

File information is displayed.

Property track\_001.wav 2013/04/23 0 :15AM 00:00:33 96kHz St 4608kbps

• Press **BACK** to return to the file list menu.

# **Other functions**

# **Locking operation buttons (Key lock)**

Hold down SHIFT and press LOCK for more than 1 second.

Displays the "Keys Restricted".

Buttons other than those shown below are locked.

- ☐ Operation buttons that can be used SHIFT, LOCK, ON/STANDBY, PLAY, PAUSE, REC, MARK +/-, FRAME, ◄◄, ▶▶, I◄◄, ▶▶1
- Press and hold ON/STANDBY for more than 4 seconds to power off the unit.
- **2** Additionally, hold down **SHIFT** and press **LOCK** for more than 1 second.

Displays the "All Keys Locked".

Buttons other than those shown below are locked.

- Operation buttons that can be used SHIFT, LOCK, ON/STANDBY
  - Press and hold **ON/STANDBY** for more than 4 seconds to power off the unit.
- Additionally, hold down SHIFT and press LOCK for more than 1 second.

Displays the "All Keys Unlocked".

All keys are unlocked.

Edit Function

# Recording

This section explains how to specify a recording media folder for a recording file and to record into that folder.

The procedure for recording to an SD card and a USB drive is the same.

Before using an SD card or USB device, use "Speed Check" (P page 25) in the utilities to check that the SD card or USB device is suitable to use with this unit.

# Selecting the recording media or folder for storing the recorded files

### **→** Press ON/STANDBY.

The power of DN-500R is switched ON, and the display screen lights.

# When in the stopped state, hold down SHIFT and press MEDIA. The media list is displayed.

### 3 Select media.

• For details on selecting the media list, see "Displaying the media list and selecting media" (\*\*\* page 26).

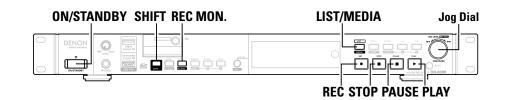
# **4** While DN-500R is stopped, press LIST. The "File List" is displayed.

### Select the folder.

- For details on selecting a folder, see "Selecting folders and files and displaying the file list menu" (@page 27).
- When "Current" is selected in "02 Rec Folder" (\*\* page 21) in "System Setting", the recorded file is stored in the selected folder. To store in a different folder, select a different folder. However, when "All" is selected in "19 Play Range" (\*\* page 19) in "Preset Setting", files are stored in the root folder
- When "Fix" is selected in "02 Rec Folder" in "System Setting" a fixed folder is automatically created directly below the root folder. The default folder name is "DMH\_REC".

#### NOTE

To record on an SD card, be sure to format it on DN-500R before recording. If the SD card is formatted on a computer or is used for recording without formatting it, this could result in sound cutoffs during recording. For details on the formatting procedure, see "Format Media" (\*\*\* page 25).



### Recording

#### Press REC.

The unit switches to the recording paused state, and the **REC** buttons flashes and **PAUSE** buttons light.

The display switches to the recording display.

- When "On" is selected in "08 One Touch Rec" (@page 18) in "Preset Setting", recording starts immediately when **REC** is pressed.
- The following results are displayed for media that cannot be recorded.
- "No Format" for unformatted media or media with unsupported formatting
- "Write Inhibited" for write protected media
- "Media Full" if the recordable free space is less than 2MB
- "Track Full" if the number of files exceeds 2000

## Adjust the recording level and recording balance.

• To adjust the recording level and balance, select "Variable" in "08 Volume Input" (Prage 22) in "System Setting" in advance.

Also, the input level can only be adjusted when "07 ALC" (@page 18) is set to "OFF" and "09 Audio Input" (@page 18) is set to "Bal" or "UnBal" in "Preset Setting".

• There are two methods for level and balance adjustment. Select "06 Rec Level Type" (Prage 18) in "Preset Setting".

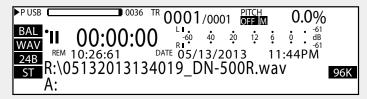
#### • Master/Bal

The input level can be adjusted using the jog dial. Also, hold down **SHIFT** to adjust the input level balance for the left and right channels using the jog dial.

#### Separate L/R

The input level of the left channel can be adjusted using the jog dial. Also, hold down **SHIFT** to adjust the input level balance for the right channel using the jog dial.

Press REC.
Recording starts.



#### □ Pre-recording

When the pre-recording time is set in "13 Pre Record" (Prage 18) in "Preset Setting", when recording is started, the recording starts retroactively for the set amount of time. If there is not more recording paused time that the pre-record set time, pre-recording cannot be done for the set amount of time.

#### ☐ File name

The file name of the file in which recording is started is composed of the machine name, recording start time and user area data. The file creation formats can be selected in "05 File Name Form" (Fpage 21) in "System Setting". The file name can be inputted when "04 User Area" (Fpage 21) in "System Setting" is "On".

(After recording has started, the recording start time in the file name continues to proceed until the recording start time is confirmed.)

- You can adjust the recording level and balance even during recording.
- If the recordable space on the media falls below 2MB, recording stops.



#### Press STOP.

Recording stops, and **REC** turn off.

Recorded file information is displayed, and the display switches to the stop display. At this time, you can playback the recorded file by pressing **PLAY**.



If the directory in which the recording is saved is the root directly, the total number of folders and files is limited to 512 by FAT16 (8.3 file name) conditions.

#### To pause recording

Press **PAUSE** during recording.

- Recording is paused, **REC** buttons flashes **PAUSE** lights.
- Press **REC** again to resume recording on the same file.
- When "15 Auto Mark" (Papage 19) in the preset menu is set to "On", a mark is added at the point where the recording is resumed from the paused status.

#### **Cautions on recording capacity**

The amount of recording capacity required differs depending on the set recording format, number of recording channels, and sampling frequency.

To ensure that you do not run out of recording capacity during recording, check the recordable time in the "Recording time chart" (Pagage 38) before starting recording.

# **Recording Monitor**

The Record Monitor feature allows you to monitor the audio that has been recorded to the media.

#### □ Recording Monitor

- Press REC MON. in shift mode to switch the Recording Monitor on/off.
- When the Recording Monitor is on, the Recording monitor display (R.MON) lights.

Data stored on the media is read from the media and monitored. You can preview the data to confirm it has recorded correctly onto the media.

#### ☐ Signal path through monitor

- This can monitor during recording pause and recording.
- When "03 Signal Pass Thru" (Page 21) is set to "On" in "System Setting", the input signal selected in "09 Audio Input" (Page 18) in "Preset Setting" is output.

Monitoring is performed irrespective of whether the headphones setting is "on" or "off".

#### NOTE

- A delay occurs in the monitor against the input signal because recorded data is then read.
- The monitor may stop due to the type or condition of the used media because recording and playback are performed simultaneously.
- The recording monitor cannot be used during dual recording.

# **Dual recording**

The selected media and backup media can be recorded simultaneously.

## **1** Select the media to record.

• For details on selecting the media, see "Displaying the media list and selecting media" (Prage 26).

### **9** Select the backup media.

- For details on selecting backup media, see "04 Dual Rec" (№ page 18) in "Preset Setting".
- Dual recording is given priority when both "04 Dual Rec" and "05 Relay Rec" are selected in "Preset Setting".

# **3** Start recording using the same operation as normal recording.

Recording starts simultaneously for the selected media and backup media.

- The file of BackUp Media is stored in the folder made with "15 Date Form" (F) page 22) in System Setting.
- During recording, if the free space is fully used in the selected media first, recording to both the selected media and backup media stops.
- During recording, if the free space is fully used in the backup media first, recording to the backup media stops but continues to the selected media.
- When the selected media and backup media are the same media, dual recording is canceled and normal recording starts.
- When the recording monitor is on, normal recording starts only for the selected media.

# Relay recording

Data is recorded to the first selected media, and when the remaining space on that media falls below 2MB, recording stops on that media and starts on the secondary media (media for continual recording).

# Select the media for current recording.

• For details on selecting the media list, see "Displaying the media list and selecting media" (Pp page 26).

# 2 Select the secondary media.

- For details on selecting secondary media, see "05 Relay Rec"
   (Propage 18) in "Preset Setting".
- Dual recording is given priority when both "04 Dual Rec" and "05 Relay Rec" are selected in "Preset Setting".

# **3** Start recording using the same operation as normal recording.

Recording starts first on the selected media. When recording is complete on the selected media, recording starts on the secondary media.

- When recording is complete on the secondary media, recording stops and relay recording is complete.
- When the selected media and backup media are the same media, relay recording is canceled and normal recording starts.
- The file of Relay Media is stored in the folder made with "15 Date Form" (12) page 22) in System Setting.

## Timer Recording

- Recording is performed for the set amount of time from the specified time.
- The recording start time specification (schedule type) can be set as the day of week and time or date and time.
- A maximum of 30 recording timers can be set.

#### ☐ Recording timer list menu

Edit	Enters or edits the timer information.			
Insert	Enters new timer information before the selected			
	timer.			
Clear	Deletes the selected timer information.			
All Clear	Deletes all of the timer information.			
Timer On	Turns the selected timer on.			
Timer Off	Turns the selected timer off.			

# Timer recording start time and recording time settings

While DN-500R is stopped, press MENU. The menu list is displayed.

**2** Rotate the jog dial to select "Rec Timer", and press ENTER.

Displays the recording timer list.

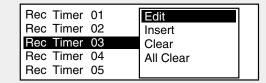
Rec Timer	01	_M_W_F_ 15:30
Rec Timer		Apr/01/2013 12:01
Rec Timer	03	<empty></empty>
Rec Timer	04	<empty></empty>
Rec Timer	05	<empty></empty>



-1

**3** Rotate the jog dial to select "Empty", and press ENTER.

Displays the recording timer list menu.



**Rotate the jog dial to select "Edit", and press ENTER.** Displays the type of recording schedule.

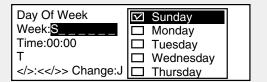
**5** Rotate the jog dial to select the type of schedule, and press ENTER.

Type types of recording start schedules are as follows.

- Day of Week: Specify the day and time.
- Date Time: Specify the date and time.

- □ When entering "Day of Week"
- 1) Rotate the jog dial to select the input position, and press ENTER.
- 2 Rotate the jog dial to select the recording day, and press ENTER.

A check mark is added in front of the selected day.



3 After selecting the day, rotate the jog dial to select "Exit", and press ENTER.

The recording start schedule is fixed.

- Repeat this process to select more than one day.
- Select "All" to select all of the days.
- Selected days can be canceled by selecting them again.

Information

🛕 🗆 When entering "Date Time"

-2

Date Time Date: Jan/00/0000 Time: 00:00

</>:<</>> Change:JOG Push

- 1) Rotate the jog dial to select the input position, and press ENTER.
- ② Rotate the jog dial to select the "year", and press ENTER.
- 3 Rotate the jog dial to select the "month", and press ENTER.
- **4** Rotate the jog dial to select the "date", and press ENTER.

The recording start schedule is fixed.

• The display order of the date (year/month/date) can be selected in "15 Date Form" (\*\*\* page 22) in "System Setting".

# **7** Rotate the jog dial to select the recording start time (hour/minute), and press **ENTER**.

The recording start time is fixed.

- The current time display type (12-hour display/24-hour display) setting can be selected in "14 Time Form" (\*\*\* page 22) in "System Setting".
- When "EveryHour" is selected, recording is performed every hour.

Rotate the jog dial to select the recording time (hours/minutes) and press ENTER.

The recording timer is displayed in the recording timer list when the recording timer input is completed.

- The recording timer can be set up to 99 hours 59 minutes.
- The timer switches on when the timer settings are complete.

**9** Enter information to be stored in the user area.

- For character input, see "Renaming presets" ( page 21).
- 10 When all settings are entered they will be automatically saved and the utility menu will be displayed. If only some of the settings are changed, but not all, press BACK twice.

"Fix" and "Discard" are displayed.

**1** Rotate the jog dial to select "Fix", and press ENTER. Confirm the settings.

• Select "Discard" to discard the changes.

### Turning timer recording on/off

**1** In the recording timer list, rotate the jog dial to select the recording timer that you want to turn on or off, and press **ENTER**.

Displays the recording timer list menu.

**2** Rotate the jog dial to select "Timer On" or "Timer Off", and press ENTER.

Displays the recording timer list.

#### **Editing timer recording information**

In the recording timer list, rotate the jog dial to select the recording timer that you want to edit, and press ENTER.

Displays the recording timer list menu.

2 Changing the start time or end time of a selected recording timer
Rotate the jog dial to select "Edit", and press ENTER.

• For details on how to configure, see "Timer recording start time and recording time settings" (Papage 34).

3 Inserting a new recording timer in front of the selected recording timer

Rotate the jog dial to select "Insert", and press ENTER.

- For details on how to configure, see "Timer recording start time and recording time settings" (Page 34).
- If the number of recording timers exceeds 30, the last timer data is deleted.

Deleting the selected recording timer

① Rotate the jog dial to select "Clear", and press ENTER.

Displays the "Clear?".

② Rotate the jog dial to select "OK", and press ENTER.

The selected recording timer is deleted and the recording timer list is displayed.

- **∠** Deleting all recording timers
  - 1 Rotate the jog dial to select "All Clear", and press ENTER.

Displays the "All Clear?".

2 Rotate the jog dial to select "OK", and press ENTER.

All recording timers are deleted and the recording timer list is displayed.

• Press **BACK** to cancel editing.

#### **Using timer recording**

- Set the timer recording information and turn the timer on.
- Load a recording media to the current recording media.
- When the timer recording time is reached, recording starts with highest priority irrespective of the condition of the devices.
   However, the timer does not operate when the menu or file list, etc., is displayed.
- If the timer recording time is reached during recording, the recording file up to that point is created and a new timer recording is started.
- When the unit is in standby, the power turns on and recording starts.

# **Operations during recording**

### Add a file during recording (Manual track)

The manual track function divides tracks at the desired place during recording. Recording continues as a new file.

#### Press DIVIDE or REC during recording.

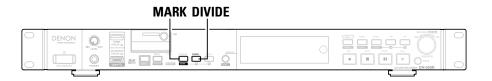
The file is cut at the point where the button is pressed, and recording continues in a new file.



Files can also be divided at a specified amount of time. For details, see "14 Auto Track" (Propage 18) in "Preset Setting".

#### NOTE

- There could be sound cutoffs for a short period of time between files depending on the capacity of a recorded file.
- If the size of a file being recorded reaches 2GB, recording is continued by automatically switching to a new file.
- The manual track function is not available for two seconds after starting recording.



#### Adding marks (Marking)

By writing marking information to files, during playback you can search for marks and start playback from specific locations.

By using this method, you can create specific search points within files without splitting files.

For details on how to search and playback from marks, see "Searching for Marks" (Ppage 41).

#### Press MARK, in shift mode during recording.

A mark is added at the point where the button was pressed.



- A maximum of 30 marks can be written to one file.
- Marks can also be added automatically. For details on the settings, see "15 Auto Mark" (Preset Setting".

#### Silent skip recording

When recording starts, silent sections during the recording can be detected and the recording paused during the silent sections.

Set "16 Silent Skip" (Preset 19) in "Preset Setting" to "On". The s.s indicator lights.

- **△** Set the silence judgment level in "17 Silent Level" (Tpage 19) in "Preset Setting".
- Set the silence judgment time in "18 Silent Time" (Preset Setting".
- If the recording input level is at a level lower than that selected in "Silent Level" and continues for a length of time that exceeds the time selected in "Silent Time", recording to the media is paused and the S.S indicator flashes.

Subsequently, when a recording input level that exceeds the level selected in "Silent Level" is detected, recording starts again. If "13 Pre Record" in "Preset Setting" is set at this time, the prerecording function operates.

• If "15 Auto Mark" in "Preset Setting" is "On", a mark is recorded when the recording starts.

# **Recording time chart**

All of the recording times are approximate times. Differences occur between recording media made by different manufacturers.

#### ☐ Recording time

#### Stereo file

Setting	Dituete	Recordable time (Hours: Minutes)					
	Bitrate	1GB	2GB	4GB	8GB	16GB	32GB
PCM-24 (96kHz)	4608 kbps	0:30	0:59	1:59	3:57	7:54	15:48
PCM-24 (48kHz)	2304 kbps	0:59	1:59	3:57	7:54	15:48	31:36
PCM-24 (44.1kHz)	2117 kbps	1:04	2:09	4:18	8:36	17:12	34:24
PCM-16 (96kHz)	3072 kbps	0:44	1:29	2:58	5:56	11:51	23:42
PCM-16 (48kHz)	1536 kbps	1:29	2:58	5:56	11:51	23:42	47:24
PCM-16 (44.1kHz)	1411 kbps	1:37	3:13	6:27	12:54	25:48	51:36
MP3-320	320 kbps	7:07	14:13	28:27	56:56	113:47	227:33
MP3-256	256 kbps	8:53	17:47	35:33	71:07	142:13	284:27
MP3-192	192 kbps	11:51	23:42	47:24	94:49	189:38	379:16
MP3-128	128 kbps	17:47	35:33	71:07	142:13	284:27	568:53
MP3-64	64 kbps	35:33	71:07	142:13	284:27	568:53	1136:07

#### Monaural file

0	D'i	Recordable time (Hours: Minutes)					
Setting	Bitrate	1GB	2GB	4GB	8GB	16GB	32GB
PCM-24 (96kHz)	2304 kbps	0:59	1:59	3:57	7:54	15:48	31:36
PCM-24 (48kHz)	1152 kbps	1:59	3:57	7:54	15:48	31:36	63:13
PCM-24 (44.1kHz)	1058 kbps	2:09	4:18	8:36	17:12	34:24	68:48
PCM-16 (96kHz)	1536 kbps	1:29	2:58	5:56	11:51	23:42	47:24
PCM-16 (48kHz)	768 kbps	2:58	5:56	11:51	23:42	47:24	94:49
PCM-16 (44.1kHz)	705 kbps	3:13	6:27	12:54	25:48	51:36	103:12
MP3-320	160 kbps	14:13	28:27	56:53	113:47	227:33	455:07
MP3-256	128 kbps	17:47	35:33	71:07	142:13	284:27	568:53
MP3-192	96 kbps	23:42	47:24	94:49	189:38	379:16	758:31
MP3-128	64 kbps	35:33	71:07	142:13	284:27	568:53	1137:47
MP3-64	32 kbps	71:07	142:13	284:27	568:53	1137:47	2275:33



If the recording conditions are the same, the recording time of a monaural file will be twice longer than the recording time of a stereo file.

# **Playback**



# **Selecting files to playback**

Press ON/STANDBY.

The power of DN-500R is switched ON, and the display screen lights.

When in the stopped state, hold down SHIFT and press MEDIA.

The media list is displayed.

3 Select media.

• For details on selecting the media list, see "Displaying the media list and selecting media" (12 page 26).

**4** While DN-500R is stopped, press LIST. The "File List" is displayed.

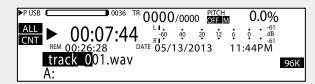
Select a file.

The start of the selected track is cued.

• For details on selecting files, see "Selecting folders and files and displaying the file list menu" (Paragraphy).

### **Playback**

Press PLAY.
PLAY lights and playback starts.



- Playback is performed according to the "19 Play Range" and "20 Play Mode" (Page 19) settings in "Preset Setting".
- When playback is complete, the setting of "23 Finish Mode" (Program 19) in "Preset Setting" is applied.

2 ☐ To pause playback Press PAUSE during playback.

Playback is paused and **PAUSE** lights.

• When **PLAY** is pressed again, playback is restarted.

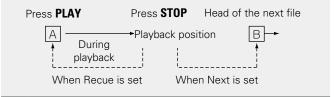
To stop playback Press STOP.

Playback stops, and **PLAY** goes out.

- The playback position is moved to the playback start position set for "23 Finish Mode" (Papage 19) in the preset menu and stops playback.
- Press **STOP** again to switch to the stopped state.
- The playback stop position varies as follows depending on the setting for "23 Finish Mode" in the preset menu.

When Next is set: When STOP is pressed during file playback, playback is stopped at the head (point B) of the next file.

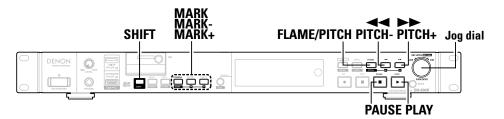
When Recue is set: When STOP is pressed during file playback, playback is stopped at point where playback was previously started (point A).





- This unit can play back VBR (Variable Bit Rate) format files.
- The remaining time display when VBR (Variable Bit Rate) format files are played back is an estimate.

# **Operations during playback**



#### **Changing files**

#### Rotate the jog dial during playback or while stopped.

- Rotating in a clockwise direction switches to the next file.
- Rotating in the counterclockwise direction switches to the start of the current file, and then to previous files.

#### Press PLAY or PAUSE during search.

- When **PLAY** is pressed, playback continues from the position where search was exited.
- When **PAUSE** is pressed, playback is paused at the position where search was exited.

#### ☐ Exiting fast forward and fast rewind (search)

# **Jumping by frames (Frame jump)**

- Press FRAME during playback, cue or pause to switch to the Audible Pause state.
- FRAME, ◀◀ and ▶▶light.

Press FRAME.

# Either press ◀ or ▶▶, or rotate the jog dial.

- Pressing ➤➤ moves 1 frame in the forward direction.
- When rotating the jog dial, one click moves one frame.
- Press FRAME to cancel frame search mode and return to the playback paused state.



1 frame is 1/75 seconds.

#### Fast forward and fast rewind (Search)

#### Press $\triangleleft \triangleleft$ or $\triangleright \triangleright$ during playback or in the stopped state.

- Press ◀◀ for fast rewind playback.
- Press ►► for fast forward playback.
- The search speed changes each time the button is pressed.





- Sound is not output at speeds above 2x.
- When "Silent" is selected in "27 Search Mode" (@page 19) in "Preset Setting", sound is not output at 2x speed or any speed above.
- When fast forward search is used to the end of the last file, or when fast rewind search is used to the start of the first file, the file pauses.

#### NOTE

- Search cannot be performed on files that are recorded using VBR.
- If a VBR file is found during the search process, the search ends at the VBR file.

Rewind a specified amount of time and

• Set the time in "26 Skip Back" (@page 19) in "Preset Setting".

During playback or pause, the track returns only the set amount of

NOTE

playback (Skip back)

- Skip back cannot be operated from the front panel buttons.
- Files recorded in VBR can not be skip back.

### Playback pitch adjustment (Pitch control)

The playback speed can be adjusted within a range of -16~% to +16~%.

By adjusting the pitch, you can listen to recordings over a shorter time span, or listen more slowly to difficult to hear sections.

1 Press PITCH while holding down SHIFT during playback, cue or when stopped.

The pitch LED lights and pitch adjustment is enabled.

**2** Press PITCH + or PITCH – while holding down SHIFT.

- The pitch changes by 0.1% each time the button is pressed.
- Press and hold the button to change the pitch continuously.
- To cancel the pitch control, press PITCH again while holding down the SHIFT button.

# ☐ To change the pitch without altering the musical interval, use (master key).

When the playback speed is adjusted using the pitch control, the musical interval changes according to the playback speed.

When the master key function is on, the playback sound is played back without changing the musical interval even if the pitch is adjusted.

• For details on the key control settings, see "32 Master Key" (Prage 20) in "Preset Setting".

When "32 Master Key" is set to "On", "M" appears in the display.

#### **Add marks (marking)**

By writing marking information in files, you can search for marks and play back from a certain point.

# During playback or in the stopped state, hold down SHIFT and press MARK.

A mark is added at the point when you press it.

When a mark is added, "Mark \*" (\*: number of marks) is displayed.



You can write up to 30 marks in a file.

#### NOTE

- You cannot add marks to MP3 files that are not recorded by DN-500R.
- You cannot add marks when files are recorded in VBR.

#### **Searching for Marks**

During playback, cue or in the stopped state, hold down SHIFT and press MARK + or MARK -.

- When MARK + is pressed, the track is forwarded to the next marked point and paused.
- When **MARK** is pressed, the system returns to the previous marked point and is paused.



Marks can only be searched within the current file.

### Random playback

**1** Set "21 Random" ( page 19) in "Preset Setting" to "On".

**Press PLAY**.

Tracks are selected at random and playback starts.

## Program playback

- A maximum of 99 tracks can be registered to a program.
- The program can be saved to the media and can be read later.

#### ☐ Program list menu

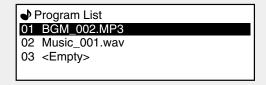
Preview	Previews the selected file.	
Insert	Enters a program. Or enters a new program in front o	
	the selected program.	
Remove	Deletes the selected program.	
Remove All	Deletes all programs.	
Load	Reads the programs on the selected media.	
Save	Saves the programs on the selected media.	

#### **Create program**

While DN-500R is stopped or in cue, press MENU. The menu list is displayed.

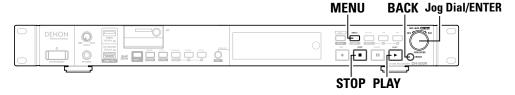
**2** Rotate the jog dial to select "Program List", and press ENTER.

"Program List" is displayed.



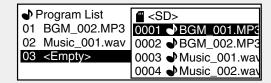
**3** Rotate the jog dial to select "<Empty>", and press ENTER.

The "Program List Menu" is displayed.



**4** Rotate the jog dial to select "Insert", and press ENTER.

The "File List" is displayed.



- Rotate the jog dial to select the file you want to program, and press ENTER.
  - Displays the "Execute".
- For details on selecting files, see "Selecting folders and files and displaying the file list menu" (@page 27).
- **6** Rotate the jog dial to select "Execute", and press ENTER.

The program is entered.

- "Program List" is displayed.
- ☐ Previewing a file to be programmed

  Rotate the jog dial to select "Preview", and press

  ENTER.
- Preview playback of the selected file starts.
- Press **STOP** to exit playback and return to step 6.
- Repeat steps 3 to 6 to create a program list.

#### □ Previewing programmed files

Place the cursor on the programmed file in the program list menu, and press ENTER.

The "Program List Menu" is displayed.

**2** Rotate the jog dial to select "Preview", and press ENTER.

Preview playback of the selected file starts.

• Press **STOP** to end playback and return to the program list menu.

#### **Program playback**

Set "22 Program" (Tpage 19) in "Preset Setting" to "On".

• Press PLAY.

Tracks are played back in the created program order.

• If there are no program settings, tracks are played in normal playback.

☐ Relationship between program, play range and random settings (Panage 43)

- unaoi	oottiiig	o 120 pago 101		
22 Program	21 Random	19 Play Range	Playback content	
On	Off	-	Program playback in the set track order.	
On	On	-	Random playback within the program.	
Off	Off	All	Plays back all tracks in all sub folders from the root folder in the order set in "34 File Sort" (@page 20) of "Preset Setting".	
Off	On	All	Random playback within all files.	
Off	Off	Folder	Plays back all tracks in the selected folder.	
Off	On	Folder	Plays back all tracks in the selected folder in random order.	

#### ☐ Repeat playback

When "24 Repeat" (Preset 19) is set to "On" in "Preset Setting", repeat playback is performed in accordance with the relationship of the "19 Play Range", "20 Play Mode", "21 Random" and "22 Program" settings in "Preset Setting".

#### **Editing the program**

- ☐ Inserting a new program in front of the selected program
  - 1) Rotate the jog dial in the program list and place the cursor on the program immediately after where you want to insert the program, and press ENTER.

The "Program List Menu" is displayed.

2 Rotate the jog dial to select "Insert", and press ENTER.

The "File List" is displayed.

- When the number of programs exceeds 99, the last program is deleted.
- ☐ Deleting the selected program file 2 (1) Rotate the jog dial in the program list and place the cursor on the program that you want to delete, and press ENTER.

The "Program List Menu" is displayed.

2 Rotate the jog dial to select "Remove", and press ENTER.

Displays the "Remove?".

3 Rotate the jog dial to select "OK", and press ENTER.

The selected program file is deleted, and the "Program List" is displayed.

- 3 Deleting all program files

  (1) Proce CALTER
  - 1) Press ENTER on the program list.

The "Program List Menu" is displayed.

2 Rotate the jog dial to select "Remove All", and press ENTER.

Displays the "Remove All?".

(3) Rotate the jog dial to select "OK", and press ENTER.

All program files are deleted, and the program list is displayed.

• Press BACK to cancel editing.

### Saving/reading program data

- ☐ Saving the program to the selected media 100 program lists can be saved.
- 1) Press **ENTER** on the program list. The "Program List Menu" is displayed.
  - 2 Rotate the jog dial to select "Save", and press ENTER.
  - 3 Rotate the jog dial to select <Save Here?> on the folder in which you want to save the file, and press ENTER.
  - 4 Rotate the jog dial to select "OK", and press ENTER.

Displays the text editor.

Displays the "Save?".

(5) Enter the file name of the program to be saved, and press ENTER.

The program is saved in the specified folder, and the "Program List" is displayed.

- The saved file uses UTF8.
- For details on how to input, see "Renaming presets" (Ppage 21).
- ☐ Reading the program from the selected media

1) Press ENTER on the program list.

The "Program List Menu" is displayed.

2 Rotate the jog dial to select "Load", and press ENTER.

Displays the "Misc List".

- 3 Rotate the jog dial to select the file to read, and press ENTER.
  - Displays the "Load?".
- 4 Rotate the jog dial to select "OK", and press ENTER.

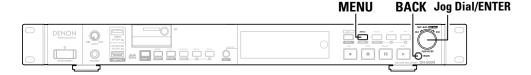
The read program is displayed in the program list.

## **Timer playback**

- Playback is performed from the specified time for the set file.
- The playback start time specification (schedule type) can be set as the day of week and time or date and time.
- A maximum of 30 playback timers can be set.

#### ☐ Playback timer list menu

Edit	Enters or edits the timer information.			
Insert	inters new timer information before the selected			
	timer.			
Clear	Deletes the selected timer information.			
All Clear	Deletes all of the timer information.			
Timer On	Turns the selected timer on.			
Timer Off	Turns the selected timer off.			



# Timer playback start time and playback file settings

While DN-500R is stopped, press MENU. The menu list is displayed.

**2** Rotate the jog dial to select "Play Timer", and press ENTER.

Displays the playback timer list.

**3** "Timer recording start time and recording time settings" (Page 34) operations 3 to 7 are performed.

When the playback start time input is completed, the "File List" is displayed.

**4** Rotate the jog dial to select the file you want to use for timer playback, and press **ENTER**.

When the playback timer input is completed, the playback timer list is displayed.

• When the timer settings are complete, the set timer turns on.

### Turning timer playback on/off

In the playback timer list, rotate the jog dial to select the playback timer that you want to turn on or off, and press ENTER.

Displays the playback timer list menu.

**2** Rotate the jog dial to select "Timer On" or "Timer Off", and press **ENTER**.

Displays the playback timer list.

Information

### **Editing timer playback information**

In the playback timer list, rotate the jog dial to select the playback timer that you want to edit, and press ENTER.

Displays the playback timer list menu.

2 Changing the start time or end time of a selected playback timer

Rotate the jog dial to select "Edit", and press ENTER.

- For details on how to configure, see "Timer recording start time and recording time settings" (Papage 34).
- Inserting a new playback timer in front of the selected playback timer

  Rotate the jog dial to select "Insert", and press ENTER.
- For details on how to configure, see "Timer recording start time and recording time settings" (12) page 34).
- The last timer data is deleted.
  - Deleting the selected playback timer
  - ① Rotate the jog dial to select "Clear", and press ENTER.

Displays the "Clear?".

2 Rotate the jog dial to select "OK", and press ENTER.

The selected playback timer is deleted and the playback timer list is displayed.

**፫** □ Deleting all playback timers

① Rotate the jog dial to select "All Clear", and press ENTER.

Displays the "All Clear?".

2 Rotate the jog dial to select "OK", and press ENTER.

All playback timers are deleted and the playback timer list is displayed.

• Press **BACK** to cancel editing.

#### **Using timer playback**

- Set the timer playback information and turn the timer on.
- Load a timer playback media to the current playback media.
- The timer playback priority for when the playback start time is reached can be set in "01 Timer Priority" (12) page 21) in "System Setting". However, the timer does not operate when the menu or file list, etc., is displayed or during recording.
- When the unit is in standby, the power turns on and playback starts.
- If other operations are performed during timer playback, timer playback is cancelled.

#### **Hot Start**

- The unit can be controlled from other devices using RC-F400S, parallel input and serial commands.
- When a button is pressed, this function instantly starts playback of a pre-selected file.
- Hot start can be set for 20 tracks.

#### ☐ Hot list menu

Preview	Previews the selected file.	
Auto Mapping	20 tracks are automatically set to the hot list.	
Set	Sets the hot list. Or re-sets the selected hot list.	
Remove	Deletes the selected hot list.	
Remove All	Deletes all hot lists.	
Load	Reads the hot lists on the selected media.	
Save	Saves the hot lists on the selected media.	

#### Registering tracks to a hot list

**While DN-500R is stopped or in cue, press MENU.**The menu list is displayed.

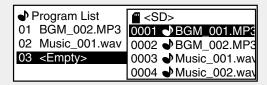
Rotate the jog dial to select "Hot List", and press ENTER.

"Hot List" is displayed.

**3** Rotate the jog dial to select "<Empty>", and press ENTER.

The "Hot List Menu" is displayed.

**4** Rotate the jog dial to select "Set", and press ENTER. The "File List" is displayed.



**5** Rotate the jog dial to select the file you want to select for hot start, and press ENTER.

Displays "Preview" and "Execute".

- For details on selecting files, see "Selecting folders and files and displaying the file list menu" (Propage 27).
- Rotate the jog dial to select "Execute", and press ENTER.

Hot start is entered.

"Hot List" is displayed.

- ☐ Previewing a hot start file

  Rotate the jog dial to select "Preview", and press

  ENTER.
- Preview playback of the selected file starts.
- Press **STOP** to exit playback and return to step 6.
- Repeat steps 3 to 6 to create a hot list.

#### ☐ Automatically registering tracks to a hot list

Rotate the jog dial in the hot list menu to select "Auto Mapping", and press ENTER.

A 20-track hot list is automatically registered.

• Files are registered in order from the first file in accordance with the "19 Play Range" (Page 19) settings in "Preset Setting".

#### ☐ Previewing files registered in the hot start list

Place the cursor on a hot start file in the hot start list, and press ENTER.

The "Hot List Menu" is displayed.

**2** Rotate the jog dial to select "Preview", and press ENTER.

Preview playback of the selected file starts.

• Press **STOP** to end playback and return to the hot start list.

#### **Deleting a hot list file**

- Deleting the selected hot list file
- The operating method is the same as operation 2 of "Editing the program" (★★ page 43).
- Deleting all hot list files
   The operating method is the same as operation 3 of "Editing the program" (\*\*) page 43).

### Saving/reading hot list data

- Saving the hot list to the selected media
  - The operating method is the same as operation 1 of "Saving/ reading program data" (\*\*\* page 43).
  - 100 hot lists can be saved.
- Reading the hot list from the selected media
  - The operating method is the same as operation 2 of "Saving/ reading program data" (\*\*\* page 43).

# **Edit Function**

### **EDIT**

Edit files.

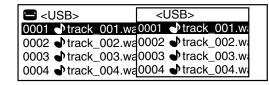
#### **COMBINE**

Combine the selected file with another file on the same media to create a new file

1

# Press **COMBINE** when the combine source files are cued or paused.

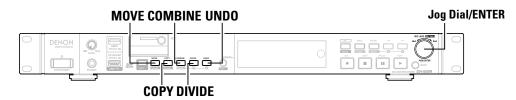
The "File List" is displayed to select the combine target.



# **2** Rotate the jog dial to select the combine target file, and press ENTER.

Combining starts.

- The file name of the file created by combining source files is created according to the same rules as recording. For details, see "File name" (Papage 32).
- Files stored on other media cannot be combined.
- During combining, "Executing ... \*\*\*%" (\*: progress status) is displayed.
- When the combination is complete, "Completed" is displayed.
- Select "Cancel" and press **ENTER** to cancel combining.





- The combined file is stored in the combination source folder.
- The files used in the combination remain unchanged.

#### NOTE

Combining cannot be performed in the following situations.

- When the selected media is write prohibited
- When there is not enough free space on the selected media
- The maximum file size is 2GB
- When the file format is a format other than WAV
- When the total number of files reaches 2000
- When the number of bits differs
- When the number of channels differs
- When the sampling rate differs

#### **DIVIDE**

The selected file is split into 2 files in the specified location.



Press DIVIDE during playback, cue or pause.

Displays "Divide?".



Rotate the jog dial to select "OK", and press ENTER.

Division starts.

- During the division, "Executing ... \*\*\*%" (\*: progress status) is displayed.
- When the division is complete, "Completed" is displayed.
- Select "Cancel" and press **ENTER** to cancel the division.

- "\_A" is added to the previous file name for the first part of the divided file. (Example: When aaa.mp3 is divided -> aaa A.mp3)
- "\_B" is added to the previous file name for the second part of the divided file. (Example: When aaa.mp3 is divided -> aaa B.mp3)
- The original file used in the division remains unchanged.

#### NOTE

Dividing cannot be performed in the following situations.

- When the selected media is write prohibited
- At the start point or end point of a file
- When the file format is a format other than WAV or MP3
- When the number of files reaches 1999
- When there is not enough free space on the selected media
- When the file name after division already exists

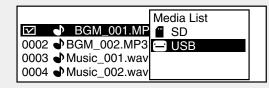
**COPY** 

Copies the selected file to a different folder or folder on a different media.

To copy multiple files, use "05 Copy" in the file list.

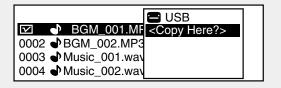
1 Press COPY when the file that you want to copy is stopped, cued or paused.

A media list for selecting the copy destination is displayed.



**2** Rotate the jog dial to select the copy destination media, and press ENTER.

The folder list is displayed.



**3** Rotate the jog dial to select "<Copy Here?>" in the copy destination folder level, and press ENTER.

Copying starts.

- During copying, "Executing ... \*\*\*%" (\*: progress status) is displayed.
- When the copying is complete, "Completed" is displayed.
- Select "Cancel" and press **ENTER** to cancel copying.

NOTE

Copying cannot be performed in the following situations.

- When the media is write prohibited
- When there is not enough free space on the media

#### **MOVE**

Moves the selected file to a folder on the same or different media. To move multiple files, use "06 Move" in the file list.

Press MOVE when the file that you want to move is stopped, cued or paused.

A media list for selecting the move destination is displayed.

Select the move destination media and press ENTER.

• The folder list is displayed.

Rotate the jog dial to select "<Move Here?>" in the move destination folder level, and press ENTER.

Moving starts.

- During moving, "Executing ... \*\*\*%" (\*: progress status) is displayed.
- When the moving is complete, "Completed" is displayed.
- Select "Cancel" and press ENTER to cancel moving.

#### NOTE

Files cannot be moved to other media in the following situations.

- When the media is write prohibited
- When there is not enough free space on the media

#### **UNDO**

Returns the edit operation performed immediately prior to the previous state.

"UNDO" can be used on COMBINE, DIVIDE, COPY, MOVE and file and folder renaming operations.

Press UNDO directly after the edit.
Displays "Undo?".

Rotate the jog dial to select "OK", and press ENTER. When the operation is complete, "Completed" is displayed.

#### NOTE

When the edit is cancelled using "UNDO", the file cannot be returned to it's previous state.

# **Control Function**

# **USB** Keyboard

This unit can be controlled using a keyboard by connecting a USB keyboard to the keyboard USB connector on this unit.

Keyboard key	Unit operation button
ESC	STOP (during Play, Rec etc.)
	BACK (during MENUs)
SHIFT + ESC	STOP (during MENUs)
ENTER	JOG ENTER
ARROW U /D /L /R	L /R: TRACK SKIP (during STOP/CUE/PLAY/SEARCH/
	AUDIBLE PAUSE)
	U /D: REC LEVEL (Master / Lch by PRESETRec Level Type)
	(during REC /REC PAUSE)
	U /D /L /R: JOG (Rotate) (during Not CUE)
SHIFT+ARROW U /D	REC LEVEL (Balance / Rch by PRESETRec Level Type)
	(during REC /REC PAUSE)
PAGE UP /DOWN	PAGE UP /DOWN
BACK SPACE	SKIP BACK (during Pause or Play)
HOME	File list Top (During File list)
DELETE	DELETE CHARACTER
	FRAME
/	PITCH
SPACE	PLAY / PAUSE (Toggle)
	SPACE (during TEXT editing)

Keyboard key	Unit operation button
Other	CHARACTER
PRINTABLE CHAR	
F1	DISPLAY
F2	FILE LIST
F3	PITCH –
F4	PITCH +
F5	LOCK
F6	RWD
F7	FWD
F8	MARK –
F9	MARK +
F10	MARK
F11	REC
F12	MENU
SHIFT + F1	TEXT
SHIFT + F2	RENAME CURRENT FILE (during CUE)
SHIFT + F3	DELETE CURRENT FILE (during CUE)
SHIFT + F4	COPY
SHIFT + F5	MOVE
SHIFT + F6	DELETE MARKS FROM CURRENT FILE (during CUE)
SHIFT + F7	COMBINE
SHIFT + F8	DIVIDE
SHIFT + F9	UNDO
SHIFT + F10	DIMMER
SHIFT + F11	REC MON
SHIFT + F12	MEDIA

#### NOTE

- Only keyboards that confirm to USB standards can be used with this unit.
- Before using a USB keyboard, set the language type in "41 Keyboard Type" (F) page 20) in "Preset Setting".

# Various playback functions with RC-F400S

You can perform Hot Start playback by using the hot start remote control RC-F400S (sold separately).

#### **RC-F400S** features

- Quick file search with the jog dial.
- Large 3.8" display (320X240 dots).
- Stationary top panel operations.



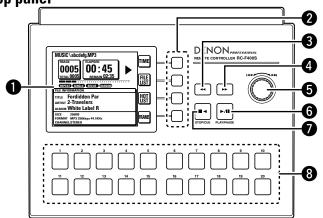
With RC-F400S, you can only perform playback operations. You cannot set various menu modes (menu list/file list/file menu). When you are making changes in the menu, the RC-F400S will display "wait...".

#### NOTE

If the firmware version of your RC-F400S is an earlier version than A-5.00 it will not work correctly with the DN-500R. Please visit our website (URL:http://www.d-mpro.com) for the latest firmware version. The RC-F400S version information is displayed under the startup screen that appears when it is turned on.

#### Part names and functions

# ☐ RC-F400S top panel



6 Play/Pause button (PLAY/PAUSE) .....(53)

Stop/Cue button (STOP/CUE) .....(53)

**8** Hot start buttons (1-20) ...... (53)

green light flashes during pause.

Lights orange during stop or cuing.

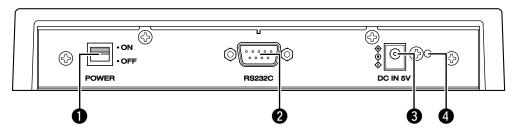
Corresponds to the Hot Start list.

The green light is on during playback and the

#### **1** Display ......(51) **2** Function buttons ......(51) Correspond to the function display. **3** Fast rewind button (◄◄)......(53) **5** Jog dial (**I**◄◄/▶►**I**).....(54)

- Rotate the jog dial to search for folders and files.
- Press the jog dial to play back the selected file.

# ☐ RC-F400S rear panel



<b>1</b> Power switch(53)
<b>2</b> RS-232C terminal (52)
3 DC power input terminal (52)
Connect the supplied power cord.

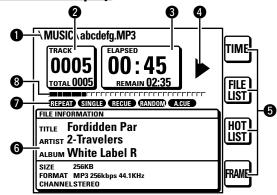
#### 4 DC power cord holder mounting hole

The supplied power cord holder will prevent the connected power cord from disconnecting from the terminal.

Playback

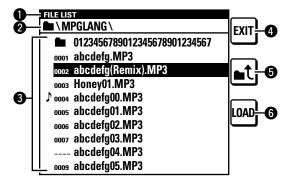
☐ RC-F400S display

#### Main screen display



- File name display
- 2 File number/total file count display
- 3 Time display
- **4** Operating Status Display
- **6** Function Display
  - TIME: Press the function button to switch the time display.
  - FILE LIST: Press the function button to play back the file in the file list mode.
  - HOT LIST: Press the function button to check the Hot Start list. [Special Feature of DN-500R]
  - FRAME: Press the FRAME button to start Audible pause from that position, and switch to frame search mode.
- 6 File information display
- Current playback mode display
- Playback elapsed position

#### File list display



1 Title display

Displays "FILE LIST".

2 Folder display

Displays the folder name.

"PROGRAM PLAY" is displayed during program playback.

File list

Displays file names.

The  $\hat{\mathcal{F}}$  mark is displayed for the file that is currently being played back or set to be played back.

**4** EXIT button

Enters the main mode.

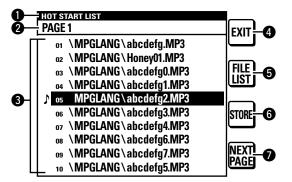
6 t button

Displays the list of folders in the selected media.

6 LOAD button

Sets the selected file to one of the Hot Start buttons 1-20.

#### **Hot Start list display**



Title display

Displays "HOT START LIST".

2 PAGE display

Displays the page.

Hot Start list

Displays the set file name.

The hark is displayed for the file that is being played back.

4 EXIT button

Enters the main mode.

FILE LIST button

Moves to the file list.

6 STORE button

When the media is set to USB, the set Hot Start list is saved as a file.

The PPL file is saved in the root directory.

• A PPL file is the file that saves the content of a Hot Start list.

NEXT PAGE/PREV PAGE buttons

Display the list in the next/previous page.

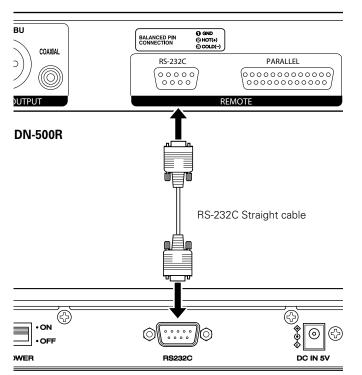
#### **Connection**

As shown below, connect the RS-232C port on DN-500R to the RS-232C port on RC-F400S using the straight cable that is supplied with RC-F400S.

- Once they are connected, turn the power switch on for the respective devices.
- Configure the following items in the DN-500R "System Setting".
- Serial bit Rate: 38400
- After connection, fix the cable by turning the cable terminal screws.

#### Notes on connecting the AC adapter

- Always turn the power switch off before connecting/ disconnecting the AC adapter.
- Do not touch the AC adapter with wet hands.
- When disconnecting the AC adapter, make sure that you hold the plug. Pulling or bending the cord may damage the cord or cause electric shock or fire.



RC-F400S

### **Hot Start playback**

You can instantly start playing back a file that is registered with the Hot Start buttons 1-20 on RC-F400S by pressing the corresponding button.

#### ☐ Perform Hot Start playback

After connecting DN-500R to RC-F400S, turn the power switch on for the respective devices.

- In the RC-F400S display, the startup screen "DENON PROFESSIONAL" appears.
- When the startup is completed, the file information is shown in the display.

**9** Press **HOT LIST** on the main screen.

The first 10 files in the Hot Start list are displayed.

To display files 11 through 20 in the Hot Start list, press **NEXT PAGE**.

**?** Press the Hot Start button for playback.

Hot Start playback starts.



Hot Start can also be performed from the main screen and the file list screen.

**□** Pause

During playback, press ►/II.

- During pause, ►/II flashes.
- To resume playback, press ►/II.

□ Stop

Press **■<**.

☐ Fast forward and fast rewind (search)

**During playback, press** ◀◀ or ▶▶.

- Press ►► to perform fast forward playback.
- The fast forward/fast rewind speed changes in the order shown below each time the button is pressed.
  - x2, x10, x50, x100, x200

#### □ Audible Pause

Press FRAME on the main screen.

 Press FRAME on the main screen during playback or pause to switch to the Audible Pause state.

#### ☐ Jumping by frames (Frame Accurate Search)

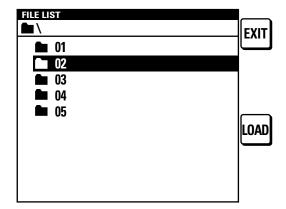
Press **◄** or **▶▶** during Audible pause.

- Pressing ◀◀ moves 1 frame in the reverse direction.
- Pressing ▶▶ moves 1 frame in the forward direction.

Setting defaults

☐ Set and allocate the Hot Start folder

The first 20 files in the selected folder are automatically allocated to the Hot Start buttons.



On the main screen, press FILE LIST.

The "File List" is displayed.

2 Select the folder you would like to set with the jog dial.

3 Press LOAD. The first 20 fi

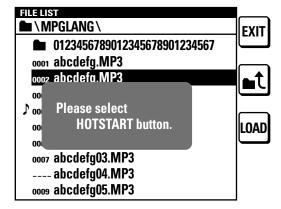
The first 20 files in the selected folder are automatically assigned to the hot start button.

"Completed" is displayed, and the settings are completed.

These settings can only be configured during stop or pause modes.

#### ☐ Set and allocate Hot Start points

Assign the Hot Start button for the file or point that you would like to play back.



On the main screen, press FILE LIST.

The "File List" is displayed.

**2** Select the file you want to set with the jog dial. Or, pause at the point where you want to resume playback in the set file.

Press the jog dial to play back the selected file.

• Press LOAD.

"Please select HOT START button" is displayed. To cancel, press ■◄.

To cancel, press ■◀.

Press the Hot Start button you want to allocate the setting to.

"Completed" is displayed and the setting has changed.
Press the set button to perform Hot Start playback.

Hot Starts can only be set in the stop or cue modes.

#### ☐ Save the Hot Start list

Convert the allocated Hot Start list into a file and save it to a current media connected to the DN-500R. If this file exists in the media, the Hot Start list in this file is automatically used for allocation.

**1** On the main screen, press HOT LIST. The Hot Start list is displayed.

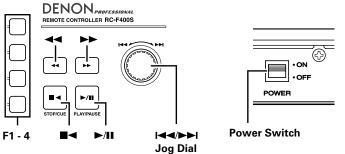
#### Press STORE.

- The Hot Start list is saved as "DN-500R.ppl" in the root directory of the media connected to the DN-500R.
- A saved PPL file can be re-read by operating the DN-500R.

#### NOTE

When the Hot Start list is loaded and any audio file in the list is missing on the media, that file is removed from the Hot Start list.

#### Playback from the main screen



#### □ Before playback

After connecting the DN-500R to the RC-F400S, turn the power switch on for the respective devices.

- The RC-F400S display shows the startup screen "DENON PROFESSIONAL".
- When the startup is completed, the file information is shown in the display.

#### □ Play back

Press ►/II.

The button lights green and file playback starts.

#### □ Pause

Press ►/II during playback or search modes.

- ►/II flashes during pause.
- To restart playback, press ►/II.

#### **□** CUE

Press ■◀.

#### □ STOP

Press ■ during cue.

☐ Repeat playback (0.5 sec)

Press FRAME.

#### □ Switching files (I◄◄/►►I)

During playback, stop or cue, rotate the jog dial.

- Rotate clockwise to switch to the next file.
- Rotate counterclockwise to switch to the beginning of the current file or the previous file.
- To switch to the previous file, rotate the jog dial counterclockwise within one second from the start of file playback.

#### ☐ Fast forward or fast rewind (search)

During playback, press ◀◀ or ▶▶.

- Press ►► to perform fast forward playback.
- The fast forward/fast rewind speed changes in the order shown below each time the button is pressed.
- x2, x10, x50, x100, x200



- If the "Search Mode" settings in the "Preset Menu" of the DN-500R are set to "Normal", sound is output when the search speed is 2x. Please note that sound is not output at search speeds above 2x.
- After you fast forward to the end of the last file or fast rewind to the beginning of the first file, the unit pauses.
- When you fast rewind to the beginning of the file, the fast rewind operation continues from the end point of the previous file.

#### NOTE

- When you perform search on a short file, the indicated speed may not be available.
- You cannot perform search on files that are recorded in VBR.
- If searched files contain a VBR file, the search stops at that VBR file.

#### ☐ Jump by frames (Frame Accurate Search)

#### **Press** ◀ or ▶ during Audible Pause.

- Pressing ▶▶ moves 1 frame in the forward direction.

#### **□** AUTO CUE

AUTO CUE automatically detects the audio level and performs the cue operation.

- When AUTO CUE is enabled, the playback mode display in the RC-F400S display shows (ACUE).
- The detected level is the set value for the preset menu "25 Auto Cue" (125 page 19).
- If the audio level is not detected for 20 seconds or more after the playback for automatic detection of the audio level has started, the cue operation is performed at the beginning of the file.

# **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.

#### **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 the DN-500R externally
- ② Sending the status information to the host when DN-500R receives a status request command from the host
- 3 Automatically sending the status information to the host when there is a change to the DN-500R status

#### □ About Connections

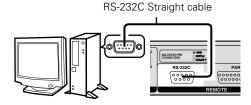
- Transmission System: Asynchronous full duplex transmission
- Compatible connector: 9-pin D-sub (male)
- Communication speed: 9,600/38,400 bps selectable (System Setting: Serial Bit Rate)
- Data bit: 8 bit
- Parity: None
- Start bit: 1 bit
- Stop bit: 1 bit
- Flow control: None

#### Pin arrangement

Signal name
Ground
NC
TxD
RTS*
RxD
NC
NC
NC
S. Ground

<sup>\* 4</sup>V/500mA power supply can be used for RTS.

#### **□** Connections



#### **D&M RC communication format**

#### ☐ Configuration of control commands

The packets of control commands start with the Start Character "@", and end with the End Character "0x0D" as shown below.

				1	
Start Character		ID	COMMAND	1	End Character
@		0	/_/		\r (0x0D)

#### ☐ Configuration of command codes

Item	Value (Hex value within parentheses)
Start Character	'@' (0x40)
ID	'0' (0x30)
Command	Indicates the command details.
End Character	'\r' (0x0D)



Response timeout is 100msec.

# □ ACK (received successfully) and NACK (receive failed) command codes

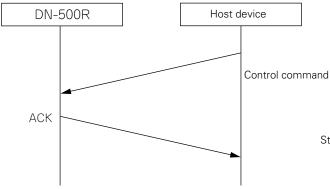
Content	Hex value	Transmission conditions
ACK	0x06	-
NACK	0x15	When an End Character (0x0D) is received with no Start Character "@"  When a command that does not exist is received  When there is a space more than 5 msec between command characters



- When a command is received, ACK or NACK is returned within 100 msec.
- If there is no response after 100 msec, the next command is permitted.

### ① External control and operation of the DN-500R

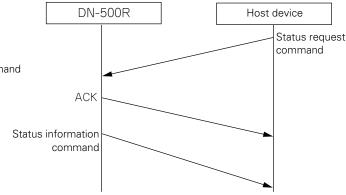
When the DN-500R receives a control command from the host, the DN-500R sends ACK (received successfully) to the host and executes the command.



However, if data other than a specified command or an End Character (0x0D) with no Start Character '@' is received, receive fails and NACK is returned.

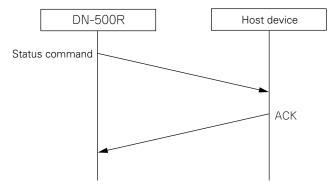
# 2 Status information output for external status request commands

When a status request is received from the host, the DN-500R returns ACK and a response to the request details.



Sequence diagram of status request command

However, if data other than a specified command or an End Character (0x0D) with no Start Character ('@') is received, receive fails and NACK is returned.



The command sent at this time uses the same status information command as ②.



About the command list see page "Appendix".

58

#### **Parallel** control

Parallel control has two modes, normal mode and hot start mode. The MODE 1,2 pins are used to switch this mode.

#### ☐ Parallel remote mode switching

Parallel remote mode is switched according to the status of parallel remote inputs #5 and #6.

MODE 1	HIGH	LOW	LOW	HIGH
MODE 2	HIGH	HIGH	LOW	LOW
FUNCTION	Named made	Hot start		Paganyad
FUNCTION	Normal mode	① Mode	② Mode	Reserved

- Hot Start ①: Hot list #1 #10 can be played from the parallel remote.
- Hot Start ②: Hot list #11 #20 can be played from the parallel remote.



- Hot start is a function that starts playback instantaneously from the preset point. Hot Start mode can be switched to Hot Cue using "40 Para Rem Mode" (@page 20) in the "Preset setting". If the mode is set to the Hot Cue mode, when Hot Start input is performed, playback does not start immediately and instead switches to the standby state at the start point.
- Operations for the FADER START terminals can be set in "39 Fader Start" (@Page 20) in "Preset Settina".

#### ☐ Hot Start Assignment

If one of the HOT START terminals is shorted when the RELOAD terminal is in the shorted state, the current track is assigned to the shorted Hot Start number (reload function). For details on assigning Hot Start, see "Hot Start playback" (Prage 53).

#### **□** About Connections

#### **Normal Mode**

NO.		DN-500R		
	I/O	NAME		
1	-	GND		
2	-	PLAY		
3		PAUSE		
4		STOP		
5	1	MODE 1		
6	- 1	MODE 2		
7	I	SEARCH ►►		
8	1	SEARCH ◀◀		
9	1	FADER START		
10	-	GND		
11	1	SKIP BACK		
12	1	MARK +		
13		MARK –		
14	0	PLAY TALLY		
15	0	PAUSE TALLY		
16	0	CUE TALLY		
17		MARK		
18		REC PAUSE		
19	I	REC		
20	0	STOP TALLY		
21	0	REC TALLY		
22	-	TALLY POWER SUPPLY		
23	-	GND		
24	1	TRACK +		
25	1	TRACK –		

#### **Hot Start Mode**

#### **Hot Cue Mode**

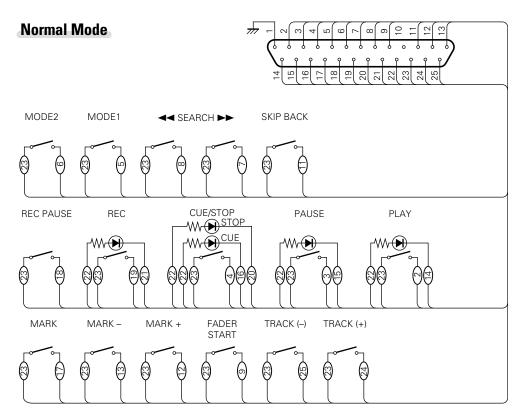
NO.		DN-500R		
	I/O	NAME		
1	-	GND		
2	1	PLAY		
3	I	PAUSE		
4	1	STOP		
5		MODE 1		
6	1	MODE 2		
7	1	RELOAD		
8	I	HOT START 1(11)		
9	1	HOT START 2(12)		
10	-	GND		
11	1	HOT START 3(13)		
12	1	HOT START 4(14)		
13	I	HOT START 5(15)		
14	0	PLAY TALLY		
15	0	PAUSE TALLY		
16	0	CUE TALLY		
17	1	HOT START 6(16)		
18		HOT START 7(17)		
19	1	HOT START 8(18)		
20	0	STOP TALLY		
21	0	REC TALLY		
22	_	TALLY POWER SUPPLY		
23	-	GND		
24	I	HOT START 9(19)		
25	I	HOT START 10(20)		

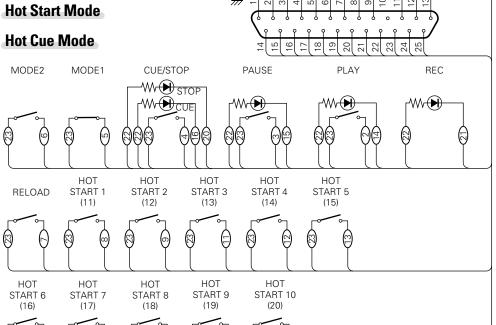
- In Hot Cue mode, the status switches to standby for hot start input.
- The () contents indicate the assignment for Hot Start 2 mode.

Edit Function

#### ☐ Remote Control Connection

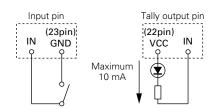
• Connection Example







It is assumed that the input pins and Tally output pins are used as follows.





- Tally output pin is an open collector. (Maximum current: 10 mA, maximum voltage; 5.5 V)
- Input pin is 5 V for Vcc TTL specification.
- The maximum current supplied by the Tally Power Supply (22 pin) is 100 mA.
- The input/output logic is active low (negative logic).
- The number indicated in the parentheses () is the number assigned in Hot Start2 mode.

#### NOTE

Power is supplied to the external remote controller from Pin No.22 (Tally Power Supply) from this terminal. However, as the maximum rating for this pin is +5 VDC 100 mA, select circuit and current controls (resistance values) so as not to exceed the rating. Using this equipment when the rated value is exceeded may cause damage to the equipment, which may also lead to fire or a similar unexpected accident.

# Information

# **Error messages**

[Details on procedure for handling error messages]

Error message	Cause/Solution	Page
No Media	Cannot detect media.	55
Unformat	• The media is formatted in an unsupported format. Format the media on DN-500R or set the format to FAT16 or FAT32. For details, see the operation instructions of the recording media.	-
Media Full	• The remaining space on a media is running low. Replace the media with a new one or delete files that are no longer required.	-
Track Full	The number of files on the selected media exceeds 2000. Recording cannot be performed if the number of files exceeds 2000. Replace the media with a new media or delete unneeded files.	8, 10, 31
Write Inhibited	• The selected media is write prohibited. Remove the write protection from the media.	31
File Not Found	Target file does not exist. Check the file.	27
Track Not Found	• The target track does not exist. Check the media.	-
Already Exists	<ul> <li>A file with the same name already exists.</li> <li>Copy, Move, Divide: Check the folder.</li> <li>Rename: Change the file name before entering the name.</li> </ul>	27
Err Media XX	Not supported on this unit. Replace the media.	-
VBR	This error message appears when a VBR file search is performed. Search cannot be performed on VBR files. When the selected track is VBR format, the estimated remaining time is displayed.	40, 55
Not Allowed Not Available	• This appears when an invalid operation is performed. The operation may be disabled due to other setting items such as the preset menu, etc. Check the details of the operation.	15
No Mark	• There are no marks for the mark jump. Set marks.	41
Some files are skipped	• There is a file with the same name in the copy or move location. Files with the same name cannot be copied or moved.	29

Error message	Cause/Solution	Page
ALC	• The Rec Level cannot be changed when the ALC settings are enabled. Turn the ALC settings off to change the Rec Level.	18, 31
Registered	• The file that you are to a program, hot start or timer playback list. Files registered to these lists cannot be edited.	29, 42, 44, 46

#### [Dual Recording Error Display]

Error message	Cause/Solution	Page
No Back Up Media (XXX)	Back up media cannot be detected.	33
Media Write Inhibited (XXX)	• The back up media is write prohibited. Remove the write protection from the media.	33
Back Up Media Full (XXX)	• There is no free space on the back up media. Replace the media with a new media or delete unneeded files.	33
Dual Rec Canceled (W01)	• The selected media is the same as the back up media set in the preset settings. Dual recording is canceled and normal recording is performed.	33
Dual Rec Canceled (W02)	• The recording monitor is on. Dual recording is canceled and normal recording is performed.	33

<sup>\*</sup> XXX: SD, USB

Error messages

[Relay Recording Error Display]

Error message	Cause/Solution	Page
No Secondary Media (XXX)	• The secondary media cannot be detected.	33
Secondary Media Write Inhibited (XXX)	•The secondary media is write prohibited. Remove the write protection from the media.	33
Secondary Media Full (XXX)	• There is no free space on the secondary media. Replace the media with a new media or delete unneeded files.	33

\* XXX: SD, USB

#### [RC-F400S error messages]

Error message	Cause/Solution	Page
Not Connected	• Check if it is properly connected to DN-500R. If this message persists, replace the cable.	_
Not Supported	• A device that is not supported by RC-F400S is connected. Check the connected device.	-
No Media	• The media inserted in DN-500R has not been detected. Eject and insert the media again.	55

# Troubleshooting

If a problem should arise, 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 external devices (mixer and player) 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/Solution	Page
Does not power on.	• Check whether the power cord is firmly connected to the AC	12
	outlet.	

#### [Recording]

Symptom	Cause/Solution	Page
Cannot perform recording.	• The recording media could be the cause of this trouble. Replace the recording media with another one and retry.	31
Although the music has been recorded	9 ,	31
properly, no sound is reproduced when it is played back.		18
There are sound cutoffs between files.	• There may be minor sound cutoffs between files depending on the capacity of a recorded file.	18, 31, 37
There are sound cutoffs during recording to an SD card.	cutoffs during recording. When you use an SD card with this	25, 31
There is a loud noise in the recorded file.	Check the level meter and Level Over Display (LEVEL) to make sure that the recording level does not exceed 0dB.	10
	Make sure that the electrical contacts of the cable connections are not poor.	11

#### (Playback)

Symptom	Cause/Solution	Page
Cannot perform playback or does not	1,	_
recognize a file.	Check whether this unit supports the format of the playback file.	_
	Check whether the target folder is within the first 8 levels of the root directory.	27
	Check whether the number of folders does not exceed 1000. This unit recognizes up to 1000 folders.	27
No sound is produced from the headphones.	Make sure that the headphone volume level adjustment switch (LEVEL) is not set to MIN.	12
	Check whether sound is reproduced from the headphones by using another audio file or recording media.	_
Poor sound quality	Check the software of your computer.	-
for playback on a	Check the frequency conversion program.	-
computer.	• This unit can record audio files using sampling frequencies of	
	48kHz and 96kHz. Some of the computer programs convert	
	the frequency to 44.1kHz (a sample rate converter is used).	
	Use a higher quality sample rate converter.	
Cannot read the files		-
on a computer.	and editing programs may not support the recording format of this unit (PCM 24 bits, 96kHz, etc.).	

#### [Recording media]

Symptom	Cause/Solution	Page		
The media is not shown in the display				
even though it is connected.	This unit supports USB mass-storage class flash memory and USB external storage. It does not recognize USB drives other than the above.	55		
	• You cannot connect USB devices to this unit via a USB hub.	55		
	<ul> <li>Make sure to supply external power to the type of USB hard disk drives that can connect to the external power source via AC adapter, etc.</li> </ul>	_		
The media icon is	• Check the display and make sure that the currently selected	26		
displayed, but the unit	media and the actual media that you want to use are the same.			
does not recognize	If they are not the same, display the media list to select the			
a file.	media to be used.			

#### [Operation]

Symptom	Cause/Solution	Page
Cannot add a character during renaming.	If the maximum number of characters has been already entered, you cannot add any more characters. To add a character, delete	
	characters before adding.	

### Main specifications

System

• Compatible media

• Playable formats, file systems

 Playable WAV Format Extension Resolution

Sampling frequency

• Playable MP3 Format Extension

Bit rate

Sampling frequency Playable AAC Format

> Extension Compression method

Bit rate

Sampling frequency Number of channels

Audio frequency characteristics

S/N ratio

• Total harmonic distortion

• Dynamic range

• Channel separation Variable pitch width

• Variable trim adjustment width ±2.0 dB

SD/USB Recorder SD/USB memory/USB HDD SD, USB: FAT16/FAT32/HFS+

WAV, AIFF, AIF 16 bit. 24 bit 96, 48, 44.1 kHz

MP3

32 - 320 kbps and VBR 48, 44.1 kHz

M4A AAC-LC

64 – 320 kbps and VBR 48, 44.1 kHz

2 (stereo), 1 (mono) 20 Hz - 20 kHz

(+0.5 dB / -1 dB)More than 89 dB (A-Weighted) Less than 0.01 % More than 106 dB

(for 24 bit WAV playback) Less than -90 dB -16 % - +16 %

□ Input

• BALANCED ANALOG IN L/R

Type Line setting Input level

Maximum input level Input impedance

• UNBALANCED ANALOG IN L/R

Type Input level Maximum input level Input impedance

• UNBALANCED DIGITAL IN Type

Input impedance Standard input level **Format** 

• BALANCED DIGITAL IN Type

> Input impedance Standard input level **Format**

XLR(1:GND, 2:Hot, 3:Cold)

+4 dBu

+24 dBu/+20 dBu/+18 dBu 20k0/kohms

RCA terminal -10 dBV

+10 dBV/+6 dBV/4 dBV 10 kΩ/kohms

RCA terminal 75 Ω/ohms

0.5 Vp-p IEC-60958(COAXIAL)

XLR(1:GND, 2:Hot, 3:Cold)

110 O/ohms 3.5 Vp-p

IEC-60958(AES/EBU)

☐ Output

• BALANCED ANALOG OUT L/R

Type Load impedance **Output level Maximum Output level** 

UNBALANCED ANALOG OUT L/R

Type Load impedance **Output level** 

**Maximum Output level** BALANCED DIGITAL OUT

> Type **Output impedance** Standard output level **Format**

UNBALANCED DIGITAL OUT

Type **Output impedance** Standard output level **Format** 

HEADPHONE OUT

0dBu=0.775 Vrms, 0dBV=1.0 Vrms

XLR(1:GND, 2:Hot, 3:Cold) Over 600 Ω/ohms

+4 dBu at 600 O/ohms load +24 dBu/+20 dBu/+18 dBu

RCA terminal

Over 10 kΩ/kohms -10 dBV

+10 dBV/+6 dBV/+4 dBV

XLR(1:GND, 2:Hot, 3:Cold)

110 Ω/ohms 3.0 Vp-p

IEC-60958(AES/EBU)

RCA terminal 75 Ω/ohms a-aV 2.0 IEC-60958(COAXIAL)

20 mW/32 Ω/ohms

#### □ Others

 Maximum storage capacity Up to 2 TB • Maximum file size 2 GB 2000 files Maximum number of files (for 1 folder) Maximum number of folders 1000 folders

• Maximum number of folder hierarchies 8 (under the root directory)

□ General

Power consumption

AC 120 V. 60 Hz Power supply

30 W

• Environmental conditions Operating temperature

Operating humidity

Storage temperature

−20 − 60 °C

(U.S.A and Canada models) AC 230 V. 50/60 Hz (European, U.K and Asia/ Pacific models)

0.4 W (standby)

25 - 85 %, no condensation

5 – 35 °C

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# Appendix

Appendix shows the list of commands that control this unit externally through a host device.

Normally, it is dealers such as installers that use the list of commands to make settings, so this section is only in English.

#### **□ D&M RC Communication format**

#### **Control Command List**

Description		Command	Remarks	
KEY	Standby	•	@02312'\r'	
Control	PowerON		@023PW'\r'	
	STOP		@02354'\r'	
	PLAY		@02353'\r'	
	PLAY PAUSE		@02348'\r'	
	SKIP BACK		@023SB'\r'	
	CUE		@023CU'\r'	
	Frame	ON	@0frON'\r'	
	Tamo	FWD	@0fr00'\r'	
		RWD	@0fr01'\r'	
	FF	ON	@02352'\r'	FRAME FWD while the FRAME ON.
			002002 11	FWD while STOP, PLAY and PLAY PAUSE
				When this command is received in FWD, Speed gose up by one step.
		Speed X	@02352X '\r'	FWD Speed X
		Speed A	@UZ30ZA \I	
	RWD	ONI	@022501/!	X=1:x2, X=2:10, X=3:50, X=4:x100, X=5:x200
	RVVD	ON	@02350'\r'	FRAME RWD while the FRAME ON.
				RWD while STOP, PLAY and PLAY PAUSE
				When this command is received in RWD, Speed gose up by one step.
		Speed X	@02350X '\r'	RWD Spead X
				X=1:x2, X=2:10, X=3:50, X=4:x100, X=5:x200
	Track Jump	nnnn	@0Trnnnn'\r'	nnnn:Track No (4 digits)
		nnn	@0TRnnn'\r'	nnn:Track No (3 digits)
	Track Jump >>I		@02332'\r'	
	Track Jump I<<		@02333'\r'	
	REC		@02355'\r'	
	REC PAUSE		@023Rp'\r'	
	Rec Monitor	ON	@023RM00'\r'	
		OFF	@023RM01'\r'	
	Timer Record Off		@023TO'\r'	
	M.Track		@023MT'\r'	When recording, the file is divided at the position in which the button was
				pushed. One addition to Track No.
	Mark		@023121'\r'	The second secon
	Mark FWD		@023M+'\r'	It jumps to the mark of forward.
	Mark RWD		@023M-'\r'	It jumps to the mark of reverse.

	Description		Command	Remarks	
Control	PITCH	ON		@02337ON'\r'	
		OFF		@02337OF'\r'	
		+		@02338'\r'	
		-		@02339'\r'	
		Value		@0PTSSXXXX'\r'	SS:ON/OFF, ON:SS=ON, OFF:SS=OF
					XXXX:Pitch Value
					First Sign=0:Plus/1:Minus
					Second Pitch 10(0~9) Third Pitch 1(0~9)
					Fourth Pitch 0.1(0~9)
					Example)ON, :+16.0%:SSXXXX=ON0160
	A-B			@02359'\r'	+16.0~-16.0% Range:0.1%
	Divide			@023Dd'\r'	
	Rec Volume +			@023V+'\r'	
				@023V+ \r @023V-'\r'	
	Rec Volume -				
	Rec Vol Balanse Right			@023BR'\r'	
	Rec Vol Balanse Left			@023BL'\r'	
	Rec Vol Right +			@023R+'\r'	
	Rec Vol Right -			@023R-'\r'	
	Rec Vol Left +			@023L+'\r'	
	Rec Vol Left -			@023L-'\r'	
	Volume Up			@02016'\r'	
	Volume Down			@02017'\r'	
	EJECT	T		@02345'\r'	
	HOT START PLAY	Hot Start No nn		@0HPnn'\r'	nn:Hot Start No(nn=01~20)
	HOT START CUE UP	Hot Start No nn		@0HCnn'\r'	nn:Hot Start No(nn=01~20)
	Lock Panel's Key			@023KL'\r'	
	Unlock Panel's Key			@023KU'\r'	
	SemiLock Panel's Key			@023KS'\r'	
	Hot Start List Save			@0HSSR'\r'	
	Combine	Track No nnnn		@023CBnnnn'\r'	
	UNDO			@023UD'\r'	
File List	Storage	SD		@0MMS1'\r'	
		USB		@0MMUS'\r'	
	Select Folder	xxxxxxxxx		@0SfXXXX'\r'	xxx Select Folder No
	Make Folder	xxxxxxxxx		@0MFxxxxxxxxxxx\r'	xxx New Folder name (Max 255 words)
	Rename Folder	xxxxxxxx	XXXXXXXXXX	@0RFxxxxxxxxxxxx:XXXXXXXXXXXXXXXXXXXXXXXXX	xxxx changing Folder name(Max 255 words) **4
					':' Separator
					XXXX New Folder name(Max 255 word) **4
					Invalid, when the folder name to change does not exist
	Delete Folder	xxxxxxxx	1	@0DRxxxxxxxxxxx'\r'	xxxx The folder name to delete (Max 255 words) **4
	2010101101001				AAAA THE TOIGHT HATTE TO GETELE (IVIAA 200 VVOIGS) A4
					Invalid, when the folder name to delete does not exist
					Invalid, when the folder name to delete does not exist

Description List Move File Innnn XXXXXXXXXX (			Command	Remarks	
Move File nnnn XXXXXXXXX @		@0MvnnnnXXXXXXXXXXX'\r'	nnnn:Move Track No. (4digits) *2		
				XXXX:Move folder name (Max 255 words) **4	
				Invalid, when Track No. which moves does not exist.	
				Invalid, when a movement place folder does not exist.	
				Invalid, when there is the same file name as the move folder.	
	nnn	XXXXXXXXXX	@0MVnnnXXXXXXXXXXX\'\r'	nnn:Move Track No. (3 digits) *2	
				XXXX:Move folder name (Max 255 words) **4	
				Invalid, when Track No. which moves does not exist.	
				Invalid, when a movement place folder does not exist.	
				Invalid, when there is the same file name as the move folder.	
Copy File	nnnn	XXXXXXXXXXX	@0CynnnnXXXXXXXXXXX'\r'	nnnn:Track No which Copy. (4 digits) *2	
			,	XXXX :Copy folder name(Max 255 words) **4	
				, a a a v v a a p , v a a a v v a a v a a a a v a a a a a	
				Invalid, when Track No. which Copy does not exist.	
				Invalid, when a Copy folder does not exist.	
				Invalid, when there is the same file name as the copy folder.	
	nnn	XXXXXXXXXXX	@0CYnnnXXXXXXXXXXX'\r'	nnn :Track No which Copy. (3 digits) **2	
				XXXX :Copy folder name(Max 255 words) **4	
				Invalid, when Track No. which Copy does not exist.	
				Invalid, when a Copy place folder does not exist.	
				Invalid, when there is the same file name as the copy folder.	
Cancel Move F	ile/Copy File	•	@0CNAL'\r'	Copy File, Move File effective while executing.	
File Delete(Tra		XXXX	@023Texxxx'\r'		
		XXXX	@023TExxx'\r'	xxx :Track No which Delate. <b>*</b> 2	
				Invalid without Track No. to delete.	
Rename File	nnnn	XXXXXXXXXX	@0RnnnnXXXXXXXXXXXX\\r'	nnnn :Track No which Rename (4 digits). <b>*</b> 2	
				XXXX :New File name(.No extension Max 251(255-4)words) *4 *5	
				An extension cannot be changed.	
				Invalid.when Track No. dose not exist.	
				invalia, vincii maak iva. aasa nat axist.	
				Invalid, when a Rename name already exists.	
	nnn	XXXXXXXXXX	@0RNnnnXXXXXXXXXXXX'\r'	Invalid, when a Rename name already exists.	
	nnn	XXXXXXXXXX	@0RNnnnXXXXXXXXXXXX'\r'		
	nnn	XXXXXXXXXX	@0RNnnnXXXXXXXXXXXX'\r'	Invalid, when a Rename name already exists. nnn :Track No which Rename. (3 digits) **2	
	nnn	XXXXXXXXXX	@0RNnnnXXXXXXXXXXXX'\r'	Invalid, when a Rename name already exists.  nnn :Track No which Rename. (3 digits) **2  XXXX :New File name(.No extension Max 251(255-4)words) **4 **5	
	nnn	XXXXXXXXXX	@0RNnnnXXXXXXXXXXXX'\r'	Invalid, when a Rename name already exists. nnn :Track No which Rename. (3 digits) **2	

	Description			Command	Remarks		
File List	HotStart Set	nn	XXXX	@0hsnnxxxx'\r'	nn:Hot Start No.,		
					xxxx:Track No. (4 digits)(The setting is cancelled in case of 0000.)		
					Usually, the head of a file is saved as a Hot Start starting position at the time.		
					In PLAY PAUSE, when nnn is the same as current Track, a current position is		
					saved as a Hot Start starting position.		
					(Only the file in a current folder can be set up.)		
		nn	XXX	@0HSnnxxx'\r'	nn:Hot Start No.,		
					xxxx:Track No. (3 digits)(The setting is cancelled in case of 000.)		
					Usually, the head of a file is saved as a Hot Start starting position at the time.		
					In PLAY PAUSE, when nnn is the same as current Track, a current position is		
					saved as a Hot Start starting position.		
					(Only the file in a current folder can be set up.)		
		nn	NNNNNNN	@0HsnnNNNNNNN\\r'	nn:Hot Start No.,		
					NNNNNN:Full Path(The setting is cancelled in case of none.)		
	Track Mark Erase			@023Me'\r'	All mark of a current track is deleted.		
Preset General	Preset Set	XX		@0PSXX'\r'	XX=01:Preset1:, 02:Presetr2 03:Preset3		
	Preset Title	n	XXXXXXXX	@0PNn:xxxxxxxx'\r'	n :Preset No. <b>%</b> 3		
					xxxx:Set Preset name <b>%</b> 4		
	Shift Mode	Momentary		@0SmMO'\r'			
		Lock		@0SmLK'\r'			
	PowerON	Resume Play		@0PORM'\r'			
		Play First		@OPOPF'\r'			
		STOP		@OPOST'\r'			
Preset Rec	Dual Rec	REC		@OPORE'\r'			
Preset Rec	Dual Rec	Off SD		@0dROF'\r' @0dRS1'\r'			
		USB		@0dRUS'\r'			
	Relay Rec	Off		@0rROF'\r'			
	Trelay frec	SD		@0rRS1'\r'			
		USB		@0rRUS'\r'			
	Rec level Type	Master/bal		@0RIMA'\r'			
	1100 10101 1 1 1 1 1 1	Separate L/R		@ORILR'\r'			
	Rec Level	Manual		@0RLMA'\r'			
		ALC(Separate)		@0RLSE'\r'			
		ALC(Mix)		@0RLMI'\r'			
	One Touch Rec	On		@0OR00'\r'			
		Off	·	@0OR01'\r'			
	Audio Input	UNBALANSE		@0INUB'\r'			
		BALANCE		@0INBA'\r'			
		Coaxial(Digi-Unbal)		@0INDI'\r'			
		AES/EBU(Digi-Bal)		@0INDB'\r'			

	Desc	ription		Command	Remarks		
Preset Rec	RecFormat	WAV(PCM)	XX	@0AFPMXX'\r'	XX:Bit length		
					24bit XX=24 16bit=16		
		MP3	XXX	@0AFM3XXX'\r'	XXX:Bit rate		
			, , , , ,		320Kbps:XXX=320		
					256Kbps:XXX=256		
					192Kbps XXX=192		
					128Kbps XXX=128		
				0.0000000000000000000000000000000000000	64Kbps XXX=064		
	Rec Cannel	STEREO		@0CHST'\r'			
		L-Mono		@OCHML'\r'			
		LR-MONO	1, 0, (	@OCHMX'\r'			
	Sample Rate	FS	XX	@0FSXX'\r'	XX:Sampling rate		
					96KHz:XX=96		
					48KHz:XX=48		
					44.1KHz:XX=44		
					Ext(AES):XX=EX		
	PreRec	x (sec)	<u> </u>	@0PRxS'\r'	x sec:x=1 ~ 5 (Sec )		
		OFF		@0PR'\r'			
	AutoTrack	Time	XXXX	@0ATXXXX'\r'	XXXX:		
	ratorraok	111110	70000	367 (170 00 ( )	1min=0001,5min=0002, 10min=0010,15min=0015		
					30min=0030,		
					1hour=0100, 2hour=0200, 6hour=0600		
					8hour=0800, 12hour=1200, 24hour=2400		
					Off=0000		
	AutoMark	ON		@0AM00'\r'			
		OFF		@0AM01'\r'			
	Silent Skip	ON		@0SS00'\r'			
		OFF		@0SS01'\r'			
	Silent Level	XX		@0SLXX'\r'	XX:		
					-20dB=20, -25dB=25 etc		
					A setting kind is the same as the content of the selection of Menu.		
	Silent Time	XX		@0SCXX'\r'	XX:		
					1sec=01, 5sec=05 etc		
					A setting kind is the same as the content of the selection of Menu.		
Preset Play	Play Range	All		@0pRAL'\r'	A Setting kind is the same as the content of the selection of Mena.		
riesetriay	riay nange	Folder		@0pRFD'\r'			
	Play Mode	Single.PLAY		@0PMSP'\r'			
	riay ivioue	Continuous		@0PMCN'\r'			
	D =l =			@0RN00'\r'			
	Random	ON OFF		@0RN01'\r'			
	Program Playback	ON		@0PG00'\r'			
		OFF		@0PG01'\r'			
	Finush Mode	STOP		@0FMST'\r'			
	(Shingle Mode)	Next		@0FMNT'\r'			
		Recue		@0FMRC'\r'			
	REPEAT	ON		@0RE00'\r'			
		OFF		@0RE01'\r'			
	Auto Cue	OFF		@0AC00'\r'			
		Level	XX	@0ACXX'\r'	XX:-20dB=20, -25dB=25 etc		
					A set kind is the same as the content of the selection of Menu		
	SKIP BACK (Time)	XXX		@0SBxxx'\r'	xxx=005:0.5sec		

	Descrip	otion	Command	Remarks
Preset Play	Search Mode	Normal	@0sMNO'\r'	
,		Silent	@0sMSL'\r'	
	Auto Fade In	xxx	@0Flxxx'\r'	xx:set Time
				Off:xx=00
				0.5sec:xx=05, 1.0sec:xx=10, 1.5sec:xx=15
	Auto Fade Out	xxx	@0FOxxx'\r'	xx:set Time
				Off:xx=00
				0.5sec:xx=05, 1.0sec:xx=10, 1.5sec:xx=15
	Start Delay	xxx	@0sDxxx'\r'	xxx:set Time(10msec)
	J. 1. 1. 2. 1. 2. 7			Off:xxx=000
				100msec:xxx=010
				200msec:xxx=020
				300msec:xxx=030
	EOM(End Of Message)	xx	@0EDxx'\r'	xx:set Time
	EON(End Of Message)	^^	GOLDAX (I	Off:xx=OF
				0.5sec:xx=01
				5sec:xx=05, 10sec:xx=10, 15sec:xx=15, 20sec:xx=20, 30sec:xx=30,
	Master Key	ON	@0KY00'\r'	60sec:xx=60
	(Pitch Control)	OFF	@0KY00 \r @0KY01'\r'	
Preset Disp	Time Display	HH:MM:SS	@0TDHMS'\r'	
Preset Disp	Time Display	MMM:SS:FF	@OTDMSF'\r'	
	File Sort	Alphabetical	@0FRAL'\r'	
	File Soft	Date/Time	@0FRDA'\r'	
	Dimmer	ON ON	@0DM00'\r'	
	Diminer	OFF	@0DM00 \\ @0DM01'\r'	
	Display Dimmer	100%	@0DD00'\r'	
	Display Diffifier	75%	@0DD00 \\ @0DD01'\r'	
		50%	@0DD01'\r'	
		25%	@0DD03'\r'	
		0%	@0DD03 \\"	
	LED Dimmer	100%	@0FD00,/L,	
	ELD DITITION	75%	@0LD01'\r'	
		50%	@0LD02'\r'	
		25%	@0LD03'\r'	
	Screen Saver	ON	@0Ss00'\r'	
		OFF	@0Ss01'\r'	
Preset Remote	Fedar Start	Play	@0FDPL'\r'	
		PlayPause	@0FDPU'\r'	
		PlayNext	@0FDNE'\r'	
		Play&Lock	@0FDLO'\r'	
		Play&LockPause	@0FDLP'\r'	
		Play&LockNext	@0FDLN'\r'	
		StartPause	@0FDSP'\r'	
		StartPauseTrack	@0FDST'\r'	
		Manual Track	@0FDMT'\r'	
	Para Rem Mode	Hot Start	@0PAHT'\r'	
		Hot Start Cue Up	@0PAHC'\r'	

Description				Command	Remarks	
Preset Other	KeyBoard	Englaish(US)		@0KBUS'\r'		
		Englaish(UK)		@0KBUK'\r'		
		France		@0KBFR'\r'		
		German		@0KBGE'\r'		
		Italia		@0KBIT'\r'		
		Spanish		@0KBSP'\r'		
		Nederland		@0KBNE'\r'		
		Swedish		@0KBSW'\r'		
		Japanese		@0KBJP'\r'		
Preset Default	PresetDefault	Preset(all)		@0DEFL'\r'	Default processing to current Preset	
Rec Timer	Timer Recording	SET	DayOfWeek	@0ShDWXXxxxxxxxxHHMMhhmmXXXX'\r'	XX:Reserve No→ 01-30	
					xxxxxxx:Setting on a day of the week	
					The initial ("S", "M", "T", "W", "T", "F", "S") of the day of the week to reserve	
					is connected, and the day of the week which is not reserved is connected by ""	
					hhmm:Time set	
					If it is "Every time", it is displayed by "**".	
					The Livery time, it is displayed by	
					Example) Every day 12:15	
					SMTWTFS1215	
					Example) It starts in 15 minutes every hour except Wednesday and Friday.	
					SMT_T_S**15	
					hhmm:Recording Time=houre, minute	
					XXXX:UserArea(Min words=0, Max Words=32Words)	
			DateTime	@0ShDTXXYYMMDDHHMMhhmmXXXX'\r'	XX:Reserve No→ 01-30	
					YYMMDDhhmm:Set Time(Year,Month,Day,Hour,Minute)	
					If it is "Every month" or "Every year", it is displayed by "**".	
					The boll of the state of the st	
					Example) 2012Y6M3D12:15	
					1206031215	
					Example) 2012Y Every month3D12:15	
					Lxample/20121 Every monthsD12.13	
					hhmm:Recording Time=houre, minute	
					XXXX:UserArea(Min words=0, Max Words=32Words)	
		Delete	•	@0ShDLXX'\r'	XX:ReserveNo 01-30	
		All Rec Timer De	elete	@0ShAD'\r'		

Description			Command	Remarks	
Play Timer	Timer Playback	SET DayOfWeek	@0TPDWXXxxxxxxxhhmmFFFFF'\r'	XX:Reserve No→ 01-30	
l lay millor	Timor riaysaak	Day Official		xxxxxxx:Setting on a day of the week	
				The initial ("S", "M", "T", "W", "T", "F", "S") of the day of the week to reserve	
				is connected, and the day of the week which is not reserved is connected by ""	
				hhmm:Time set	
				If it is "Every time", it is displayed by "**".	
				Example) Every day 12:15	
				SMTWTFS1215	
				Example) It starts in 15 minutes every hour except Wednesday and Friday.	
				SMT_T_S**15	
				FFFFFFFF:File neme(Full Path)	
		DateTime	@0TPDTXXYYMMDDhhmmFFFFF'\r'	XX:Reserve No→ 01-30	
				YYMMDDhhmm:Set Time(Year,Month,Day,Hour,Minute)	
				If it is "Every month" or "Every year", it is displayed by "**".	
				Example) 2012Y6M3D12:15	
				1206031215	
				Example) 2012Y Every month3D12:15	
				FFFFFFF:File neme(Full Path)	
		Delete	@0TPDLXX'\r'	XX:Reserve No 01-30	
		All Play Timer Delete	@0TPAD'\r'		
Program List	Program List Insert	nn NNNNNN	@0PInnNNNNNNN\\\r'	nn:Insert Position No.	
				NNNNNN:Full Pat	
	Program List Remove	nn	@0Pmnn'\r'	nn:Remove Position No.	
	Program List Load	NNNNNN	@0PINNNNNN'\r'	NNNNNN:Full Pat(m3u File)	
	Program List Save	NNNNNN	@0PsNNNNNN\\r'	NNNNNN:Full Pat(m3u File)	
Hot List	HotStart Load	NNNNNN	@0HLNNNNNNN\\r'	NNNNNN:Full Pat	
System Setting	Play Timer Priority	ON	@0tp00'\r'		
		OFF	@0tp01'\r'		
	Rec Folder	Current	@0RfCU'\r'		
		Fixed NNNNNNN	@0RfFXNNNNNNNN\\r'	NNNNNN:Full Pat	
	Signal Pass Thru	ON	@0Sp00'\r'		
		OFF	@0Sp01'\r'		
	User area	ON	@0US00'\r'		
		OFF	@0US01'\r'		
		xxxxxxxxxxxxxx	@0UAxxxxxxxxxxxxxxxx\r'	xxxxxxxxxxxxxxxx:User Area name(0-32 words)	
				When 0 is set, it is deleted.	
	File name form	MN_DT_UA	@0FfMDU'\r'		
		MN_UA_DT	@0FfMUD'\r'		
		DT_MN_UA	@0FfDMU'\r'		
		DT_UA_MN	@0FfDUM'\r'		
		UA_MN_DT	@0FfUMD'\r'		
		UA_DT_MN	@0FfUDM'\r'		
	Mono	ON	@0MO00'\r'		
		OFF	@0MO01'\r'		

	Description		Command	Remarks
System Setting		AUTO	@0dFAT'\r'	
,		44.1KHz	@0dF44'\r'	
		48KHz	@0dF48'\r'	
		Ext(AES)	@0dFEX'\r'	
	Volume Input	Fixed	@0VIFX'\r'	
	·	Variable	@0VIVA'\r'	
	Ref (XLR/RCA)	XX	@0FrXX'\r'	XX:Set value(dBu)
	(FS Reference)			XX=24:XLR=+24dBu / RCA=+10dBV
				XX=20:XLR=+20dBu / RCA=+6dBV
				XX=18:XLR=+18dBu / RCA=+4dBV
	Input Trim L	XXX	@0ltLXXX'\r'	XXX:Trim set value(+2.0dB~ -2.0dB)
	input min E	7000	GOILENON	XXX=+20:+2.0
	Input Trim R	XXX	@0ltRXXX'\r'	XXX:Trim set value(+2.0dB~ -2.0dB)
	input min n	^^^	@OILITAAA II	XXX=+20:+2.0
	Output Trim L	XXX	@0OtLXXX'\r'	XXX:Trim set value(+2.0dB~ -2.0dB)
	Output Trim L	^^^	@UUILAAA V	
	0	2004	@00.D\000\D	XXX=+20:+2.0
	Output Trim R	XXX	@0OtRXXX'\r'	XXX:Trim set value(+2.0dB~ -2.0dB)
				XXX=+20:+2.0
	Time Form	12h	@0TF12'\r'	
		24h	@0TF24'\r'	
	DateForm	MDY	@0DFMD'\r'	
		DMY	@0DFDM'\r'	
		YMD	@0DFYM'\r'	
	Display Contrast (Brightness)	XX	@0BNXX'\r'	XX:01-10
	Language	English	@0LNUS'\r'	
		Japan	@0LNJP'\r'	
	Machine Name	xxxxxxxxxx	@0MNxxxxxxxxxxx\\r'	xxxxxxxxxx:Machine Name
				A to Z, a to z, 0 to 9 Max12 words
	Daylight Saving	ON	@0dS00'\r'	
		OFF	@0dS01'\r'	
	DST Offset	hhmm	@0dohhmm'\r'	
	DST Start Date	MMDDhhmm	@0dsMMDDhhmm'\r'	
	DST End Date	MMDDhhmm	@0deMMDDhhmm'\r'	
	Admin Passwd	xxxxxxxxxx	@0PDxxxxxxxxxxx'\r'	xxxxxxxxxxx:Password
	, tarriir r deevva	7000000000		A to Z, a to z, 0 to 9 Max12 words
	Auto Reboot	ON	@0Ar00'\r'	11 to 2, a to 2, o to o max12 words
	/ Idto Hobout	OFF	@0Ar01'\r'	
	System Setting Defau		@0DESY'\r'	System sets All Default
Utility	Set Time	YYMMDDhhmm	@0DtYYMMDDhhmm'\r'	hhmm:hour,24H
Othicy	Set Time		SODET HVIIVIDDIIIIIIII (	Example)2013Y06M03D 12:15
				1306031215
	Preset Load	1	@0PVLD'\r'	100001210
	Preset Save		@0PVSA'\r'	
	Format		@023FOMAT'\r'	

## NOTE

- \* is State: When Stop, it is possible to set.
  - **%**1 Each command does working similar to the button of the unit.
  - \*2 "Track No." is a number of the playback order. The file is managed by "Track No." in serial communications. "Track No." is changed by "File Sort".
  - \*\*3 Preset is managed by not Preset Name but Preset No. (1-3) in serial communications.
  - **\***4 Character-code:ISO/IEC 8859-1

# **Status Command List**

	Status request command (Host	→ This unit)		Status message (this	s unit $ o$ host)	
	Request		Ans.		Command	Remarks
Status	Power Status	@0?PW'\r'	Power Mode	On	@0PW00'\r'	
				Standby	@0PW01'\r'	
	Card	@0?CD '\r'	Card	No Card	@0CDNC'\r'	
				Card In	@0CDCI'\r'	
				Card Error	@0CDCE'\r'	
				Unformat	@0CDUF'\r'	
				Write Protect	@0CDWP'\r'	
				Door Open	@0CDDO'\r'	
	Disc	@0?CD'\r'	Disc	No Disc	@0CDNC'\r'	
				Disc In	@0CDCI'\r'	
				Disc Error	@0CDCE'\r'	
	Status	@0?ST'\r'	Rec	D-In Unlock	@0STRU'\r'	
				Recording	@0STRE'\r'	
				RecPause	@0STRP'\r'	
			STOP	STOP	@0STST'\r'	
				Cue	@0STCU'\r'	
				During AutoCue	@0STAC'\r'	
				Scheduled	@0STSH'\r'	
			Play	PLAY	@0STPL'\r'	
				PLAYPAUSE	@0STPP'\r'	
				REPEAT PLAY	@0STPR'\r'	
				PAUSE		
				FF	@0STFF'\r'	
				RWD	@0STRW'\r'	
				A-B Repeat	@0STAB'\r'	
				Cue Execute	@0STCE'\r'	CUE running state
			Other	Loading	@0STLD'\r'	
				Busy	@0STBY'\r'	
				File List	@0STFL'\r'	
				TrackEdit/Preset	@0STED'\r'	
				Operation Error	@0STER'\r'	

	Status request command (Host $ o$ TI		Status message (this			
	Request	Command		ns.	Command	Remarks
Status	Time Mode(Display Mode)	@0?TMOD'\r'	Time Mode	RecRemainTime	@0TMRE'\r'	
			(Display Mode)	TotalTrackNumber		
				Total Mark	@0TMTM'\r'	
				Number		
				Algo	@0TMAG'\r'	
				Current Date/Time		
				TrackTime(Elapsed	@0TMTT'\r'	
				Time)		
				Current Date	@0TMCD'\r'	
				Current Time	@0TMCT'\r'	
				Recorded Time	@0TMRT'\r'	
				Recorded Data	@0TMRD'\r'	
				File name	@0TMFN'\r'	
				TrackRemainTime		
				Disc Total Time	@0TMTD'\r'	
				Recorded Channel		
				File information	@0TMFI'\r'	
				Level Meter	@0TMLV'\r'	
				File List	@0TMFL'\r'	
		0.0000		OFF	@0TMOF'\r'	
	Play Speed	@0?SP'\r'	Play Speed	XXX	@0SPXxxx'\r'	X:Direction
						FWD=F
						RWD=R
						XXX:speed 2x=002, 10x=10, 50x=050, 100x=100, 200x=200
	Media	@0?MM'\r'	Media	USB	@0MMUS'\r'	2007-200
				SD	@0MMS1'\r'	
	Date Time	@0?Dt'\r'	Date Time	YYMMDDhhmm	@0DtYYMMDDhhmm'\r'	YYMMDDhhmm:current date
	Rec Monitor	@0?Rm'\r'	Rec Monitor	ON	@0Rm00'\r'	
				OFF	@0Rm01'\r'	
	Lock Stat	@0?LS'\r'	Lock Stat	Lock	@0LSLK'\r'	
				Unlock	@0LSUL'\r'	
				SemiLock	@0LSSL'\r'	
Track	Total Track Number	@0?Tt'\r'		XXXX	@0TtXXXX'\r'	XXXX (4 digits):Total Track Number
Key select		@0?TT'\r'		XXX	@0TTXXX'\r'	XXX(3 digits):Total Track Number
						When the number of total tracks is 1000 or more,
						"FFF" is set (0TTFFF).
	Track Number	@0?Tr'\r'		XXXX	@0TrXXXX'\r'	XXXX(4 digits):Track Number
		@0?TR'\r'		XXX	@0TRXXX'\r'	XXX(3 digits):Track Number
						When the number of tracks is 1000 or more, "FFF" is set (0TRFFF).
	HOT START PLAY No. (xx:Hot Start N	o) @0?HP'\r'	HOT START PLAY	XX	@0HPXX'\r'	PLAY/PLAY of HOT START No.xx
	The state of the s	-, 50		, ,		During PAUSE/FF/RWD/REPEAT PLAY PAUSE
						@0HPxx'\n'
						During normal PLAY, STOP etc
						@0HP00'\n'
						WUTT OU VI

	Status request command (Host → This unit)			St	atus message (this		
	Request		Command	Ans		Command	Remarks
Track Key select	Elapse Time		@0?ET'\r'	Elapse Time	hhmmss	@0EThhhmmss'\r'	hh:hour (24h display 0~23) mm:minute ss:second
	Remain Time		@0?RM'\r'	Elapse Time	hhmmss	@0RMhhhmmss'\r'	hh:hour (24h display 0~23) mm:minute ss:second
	Rec Remain Time		@0?RT'\r'	Elapse Time	hhmmss	@0RThhhmmss'\r'	hh:hour (24h display 0~23) mm:minute ss:second
	Free	SD	@0?FE'\r'	SD	XXXXXX	@0FES1XXXXXX'\r'	XXXXXX:Capacity (With unit:B/KB/MB/GB/TB)
		USB	@0?FE'\r'	USB	XXXXXX	@0FEUSXXXXXX'\r'	XXXXXX:Capacity (With unit:B/KB/MB/GB/TB)
	Select Folder		@0?SF'\r'	Select Folder	XXXXXXXXXX	@0SFDXXXXXXXXXXX\'\r'	D:Media DN500R: USB=2, SD1=1 XXX:Folder Name
	Track Name	(xxxx:TrackNo (4 digits))	@0?tnxxxx'\r'	Track Name	XXXXXX	@0tnXXXXXX'\r'	4 digits
		(xxx:TrackNo (3 digits))	@0?Tnxxx'\r'	Track Name	XXXXXX	@0TnXXXXXX'\r'	4 digits
	Track Size	(xxxx:TrackNo (4 digits))	@0?tsxxxx'\r'			@0tsXXXXX'\r'	Track No 4 digits XX:File Size(KByte) 10KB->@0SZ10\r' (Decimal number) When there is no track or is no current Track or No Card etc. XXXX = 000 1KB=1024byte
		(xxx:TrackNo (3 digits))	@0?Tsxxx'\r'			@0TsXXXXX'\r'	Track No 4 digits XX:File Size(KByte) 10KB->@0SZ10\r' (Decimal number) When there is no track or is no current Track or No Card etc. XXXX = 000 1KB=1024byte
	Current Track Len		@0?tl'\r'	Current Track Len	MMMSSFF	@0tIMMMSSFF'\r'	1102-102-1010
	Text Information:File		@0?T1'\r'	Text Information:File	XXXX	@0T1XXXX'\r'	0-255 character
	Text Information:Artist		@0?T2'\r'	Text Information:Artist	XXXX	@0T2XXXX'\r'	0-255 character
	Text Information: Album	1	@0?T3'\r'	Text Information:Album		@0T3XXXX'\r'	0-255 character
	Total Folder Number		@0?Tf'\r'	Total Folder Number		@0TfXXXX'\r'	
	Folder Name		@0?Fnxxxx'\r'	Folder Name		@0FnXXXXXX'\r'	Four folder number digit specification XXXXXX:Folder name 256 words

Status request command (Host $ ightarrow$ This unit)				St	atus message (this		
Request Command			Ans		Remarks		
Track	Play Track Algo/File	СН	@0?ch'\r'	CH	STEREO	@0chST'\r'	
Key select					MONO	@0chMO'\r'	
'		Algo	@0?af'\r'	Algo	PCM	@0afPMXX'\r'	XX :Bit length
					MP3	@0afM3XXX'\r'	XXX:bps
					WAV	@0afWVXX'\r'	XX :Bit length
					AIFF	@0afAIXX'\r'	XX :Bit length
					AAC	@0afAAXXX'\r'	XXX:bps
		FS	@0?fs'\r'	FS	XX	@0fsXX'\r'	XX:
							96KHz=96, 48KHz=48, 44.10KHz=44
							The kind of the setting is the same as the selection
							of Menu.
		Artist	@0?at'\r'	Artist	XXX	@0atxxx'\r'	xxx:Artist Max 64 words
		Title	@0?ti'\r'	Title	XXX	@0tixxx'\r'	xxx:Title Max 64 words
		Album	@0?al'\r'	Album	XXX	@0alxxx'\r'	xxx:Album Max 64 words
	Hot Start Set	nn:Hot Start No	@0?Hsnn'\r'	Hot Start Set	1	@0Hsnnxxxxxxx:HHHmmss'\r'	xxx:Fullpath of Track
	1.00						:Separator
							HHHmmss:Time
			@0?HSnn'\r'	Hot Start Set		@0HSnnxxxHHHmmss'\r'	XXX(3 digits):Total Track Number
			90:11011111	not otall oot			HHHmmss:Time When
							the number of total tracks is 1000 or more, "FFF" is
							set (0HSnnFFFHHHmmss).
	Rec Volume		@0?RV'\r'	Rec Volume	LLRR	@0RVLLRR'\r'	LL:Left volume value, RR:Right volume value -60dB=60, MUTE=MU
	Ditab		@0?PT'\r' PITCH	DITCH	XXXX	@0PTSSXXXX'\r'	SS:ON/OFF, ON:SS=ON, OFF:SS=OF
	Pitch		(@O\\) bilch	PITCH		@UF133^^^ \\	XXXX:Pitch Value
							First Sign=0:Plus/1:Minus
							Second Pitch 10(0~9)
							Third Pitch 1(0~9)
							Fourth Pitch 0.1(0~9)
							Example)ON, :+16.0%:SSXXXX=ON0160
							+16.0~-16.0% Range:0.1%
	Total Mark Number		@0?Tm'\r'	Total Mark Number	XX	@0TmXX'\r'	XX:Total Mark number
	Mark Time	nn:Mark No.	@0?Mtnn'\r'	Mark Time	hhmmssff	@0Mthhmmssff'\r'	hh:hour (24h display 0~23)
							mm:minute
							ss:second
							ff:frame
	Total Program List Nur	mber	@0?tP'\r'	Total Program List Number	XX	@0tPXX'\r'	XX:Number of total registration(~99)
	Program List File Nam	e nn:List No.	@0?plnn'\r'	Program List File Name	XXXXXXXXXXX	@0plXXXXXXXXXXX'\r'	XXXXXX:File name
	Update List		@0?UL'\r'	Update List	No change	@0UL00'\r'	When Folder List is changed.
					Change	@0UL01'\r'	When Folder List is not changed.
Preset	Preset Setting		@0?PS'\r'	Preset	Preset1	@0PS01'\r'	
General					Preset2	@0PS02'\r'	
					Preset3	@0PS03'\r'	
	Preset Title	(x:Preset No)	@0?PNx'\r'	Preset Name	xxxxxxx	@0PNnxxxxxxx'\r'	n:Preset No
							xxxxxx:Preset Name
	Shift Mode	*	@0?Sm'\r'	Shift Mode	Momentary	@0SmMO'\r'	
					Lock	@0SmLK'\r'	

	Status request command (Host → This unit)		Status message (this unit $ o$ host)				
	Request		Command	A	lns.	Command	Remarks
Preset	Power On Mode		@0?PO'\r'	Power On Mode	Resume Play	@0PORM'\r'	
General					Play First	@0POPF'\r'	
					STOP	@0POST'\r'	
					REC	@0PORE'\r'	
Preset Rec	Dual Rec		@0?dR'\r'	Dual Rec	Off	@0dROF'\r'	
					SD	@0dRS1'\r'	
					USB	@0dRUS'\r'	
	Relay Rec		@0?rR'\r'	Relay Rec	Off	@0rROF'\r'	
	,			,	SD	@0rRS1'\r'	
					USB	@0rRUS'\r'	
	Rec level Type		@0?RI'\r'	Rec level Type	Master/bal	@0RIMA'\r'	
	1.00.010.1760			,	Separate L/R	@0RILR'\r'	
	ALC(Rec level)		@0?RL'\r'	Rec level	Manual	@0RLMA'\r'	
	7 120(1100 10101)		00.112 %	110010401	ALC(Separate)	@0RLSE'\r'	
					ALC(Mix)	@0RLMI'\r'	
	One Touch Rec		@0?OR'\r'	One Touch Rec	On	@00R00'\r'	
	One rough nec		@0:On v	One rough nec	Off	@00R01'\r'	
	InputSelect		@0?IN'\r'	InputSelect	UNBALANSE	@0INUB'\r'	
	Inputselect		@0:114 V	Imputselect	BALANCE	@OINBA'\r'	
					Coaxial(Digi-Unbal)		
					AES/EBU(Digi-Bal)	@0[VDB./*.	
	Rec Format		@0?AF'\r'	Algo	PCM-XX	@0AFPMXX'\r'	XX :Bit length
			@U!AF V		MP3-XXX	@0AFM3XXX'\r'	XXX:bps
					IVIP3-XXX	@UAFIVI3AAA V	
							320Kbps=320, 64Kbps=064 etc
							The kind of the setting is the same as the selection
							of Menu.
	Rec Channel		@0?CH'\r'	СН	STEREO	@0CHST'\r'	
					L-MONO	@0CHML'\r'	
			@0?FS'\r'		LR-MONO	@0CHMX'\r'	
	Sample rate	Sample rate		FS	XX	@0FSXX'\r'	XX:
							96KHz=96, 48KHz=48, 44.10KHz=44
							The kind of the setting is the same as the selection
							of Menu.
	PreRec		@0?PR'\r'	PreRec	OFF	@0PR'\r'	
					XX (sec)	@0PRxS'\r'	x sec:x= 1 ~ 5 (Sec)
	A.Track	Time	@0?AT'\r'	A.TrackTime	HHMM	@0ATHHMM'\r'	HH:hour MM:minute
		1					Off=0000,
							1min = 0001,5min = 0005
							30min = 0030,1hour = 0100
							The kind of the setting is the same as the selection
	A	0-104	@03AA4\\~!	A + = N A =l .	ON	@0.4.N.400.D.=!	of Menu.
	AutoMark	On/Off	@0?AM'\r'	AutoMark	ON OFF	@0AM00'\r'	
	0.1 + 01 ;	0 1011	0030011 1	0.01(10		@0AM01'\r'	
I	Silent Skip	On/Off	@0?SS'\r'	S.SKIP	ON	@0SS00'\r'	
	011		0.030.00	0.1	OFF	@0SS01'\r'	207
	Silent Time		@0?SC'\r'	Silent Time	XX	@0SCXX'\r'	XX:sec

	Status request co	This unit)	St	atus message (tl	his unit $\rightarrow$ host)		
Request Commai			Command	Ans		Command	Remarks
Preset Rec	Silent Level		@0?SL'\r'	Silent Level	XX	@0SLXX'\r'	XX: -20dB=20, -25dB=25 etc The kind of the setting is the same as the selection of Menu.
Preset Play	Play Range	On/Off	@0?pR'\r'	Play Range	All Folder	@0pRAL'\r' @0pRFD'\r'	
	Play Mode		@0?PM'\r'	Play Mode	Single Play	@0PMSP'\r' @0PMCN'\r'	
	Random	On/Off	@0?RN'\r'	Random	ON OFF	@0RN00'\r' @0RN01'\r'	
	Program Play/Norm	nal Play	@0?PG'\r'	Program Play/Normal	Normal Play Program Play	@0PG00'\r' @0PG01'\r'	
	Finish Mode		@0?FM'\r'	Play Finish Mode	STOP Next	@0FMST'\r' @0FMNT'\r'	
	(Shingle Mode)		@0?RE'\r'	Danast Mada	Recue	@0FMRC'\r' @0RE00'\r'	
	Repeat Mode	0111055		Repeat Mode	ON OFF	@0RE01'\r'	
	Auto Cue	ON/OFF	@0?AC'\r'	Auto Cue	OFF XX	@0AC00'\r' @0ACXX'\r'	xx:Auto Cue Level Example) -48dB:xx=48
	SKIP BACK	'	@0?SB'\r'	SKIP BACK	XXX(time)	@0SBXXX'\r'	xxx=005:0.5sec
	Search Mode		@0?sM'\r'	Search Mode	Normal Silent	@0sMNO'\r' @0sMSL'\r'	
	Auto Fade In		@0?Fl'\r'	Fade In	XXX(time)	@0FIXXX'\r'	xx:Set time Off:xx = 00 0.5sec:xx = 05, 1.0sec:xx = 10, 1.5sec:xx = 15
	Auto Fade Out		@0?FO'\r'	Fade Out	XXX(time)	@0FOXXX'\r'	xx:Set time Off:xx = 00 0.5sec:xx = 05, 1.0sec:xx = 10, 1.5sec:xx = 15
	Start Delay		@0?sD'\r'	Start Delay	xxx	@0sDxxx'\r'	xxx:set time(10msec) Off:xxx = 000 100msec:xxx = 010, 200msec:xxx = 020, 300msec:xxx = 030
	EOM(End Of Mess	age)	@0?ED'\r'	EOM(End Of Message)	XX(Time)	@0EDXX'\r'	xx=OF:Off, 00:0sec, 05:5sec • Unit: to 60sec.
	Master Key (Key Con Pitch)		@0?KY'\r'	Key Control	ON OFF	@0KY00'\r' @0KY01'\r'	
Preset Display	Time Display		@0?TD'\r'	Time Display	HH:MM:SS MMM:SS:FF	@0TDHMS'\r' @0TDMSF'\r'	
	File Sort		@0?FR'\r'	File Sort	Date/Time Alphabetical	@0FRDA'\r' @0FRAL'\r'	
	Dimmer		@0?DM'\r'	Dimmer	ON OFF	@0DM00'\r' @0DM01'\r'	
	Display Dimmer		@0?DD'\r'	Display Dimmer	100% 75% 50% 25%	@0DD00'\r' @0DD01'\r' @0DD02'\r' @0DD03'\r'	
					0%	@0DD03'\r'	

Status request command (Host $ ightarrow$ This unit)				Status message (this	s unit $ o$ host)	
	Request	Command		Ans.	Command	Remarks
Preset Display	LED Dimmer	@0?LD'\r'	LED Dimmer	100%	@0LD00'\r'	
				75%	@0LD01'\r'	
				50%	@0LD02'\r'	
				25%	@0LD03'\r'	
	Screen Saver	@0?Ss'\r'	Screen Saver	ON	@0Ss00'\r'	
				OFF	@0Ss01'\r'	
Preset	Fadar Start	@0?FD'\r'	Fedar Start	Play	@0FDPL'\r'	
Remote				PlayPause	@0FDPU'\r'	
				PlayNext	@0FDNE'\r'	
				Play&Lock	@0FDLO'\r'	
				Play&LockPause	@0FDLP'\r'	
				Play&LockNext	@0FDLN'\r'	
				StartPause	@0FDSP'\r'	
				StartPauseTrack	@0FDST'\r'	
				Manual Track	@0FDMT'\r'	
	Parallel Port	@0?PA'\r'	Parallel Port	Hot Start	@0PAHT'\r'	
				Hot Start Cue Up	@0PAHC'\r'	
Preset Other	KeyBoard	@0?KB'\r'	KeyBoard	Englaish(US)	@0KBUS'\r'	
				Englaish(UK)	@0KBUK'\r'	
				France	@0KBFR'\r'	
				German	@0KBGE'\r'	
				Italia	@0KBIT'\r'	
				Spanish	@0KBSP'\r'	
				Nederland	@0KBNE'\r'	
				Swedish	@0KBSW'\r'	
				Japanese	@0KBJP'\r'	

	Status request command (Host $ ightarrow$ This unit)				Status message (th		
	Request		Command	A	ns.	Command	Remarks
Rec Timer	Rec Timer	Timer No:XX	@0?ShXX'\r'	Rec Timer	DayOfWeek	@0ShDWxxxxxxxxHHMMhhmmXXXX"\r'	XX:Reserve No→ 01-30  xxxxxxx:Setting on a day of the week The initial ("S", "M", "T", "W", "T", "F", "S") of the day of the week to reserve is connected, and the day of the week which is not reserved is connected by "" hhmm:Time set If it is "Every time", it is displayed by "**".  Example) Every day 12:15 SMTWTFS1215 Example) It starts in 15 minutes every hour except Wednesday and Friday. SMT_T_S**15 hhmm:Recording time=hour, minute XXXX:UserArea(Min words number=0, Max words number=32words)
					DateTime	@0ShDTYYMMDDHHMMhhmmXXXX'\r'	XX:Reserve No→ 01-30 YYMMDDhhmm:Set Time(Year,Month,Day,Hour,M inute) If it is "Every month" or "Every year", it is displayed by "**"  Example) 2012Y6M3D12:15 1206031215 Example) 2012Y Every month3D12:15 hhmm:Recording Time= houre, minute XXXX:UserArea(Min words=0, Max Words=32Words)

	Status request comm	s unit)		Status message (th			
	Request		Command	Aı		Command	Remarks
Play Timer	Play Timer	Timer No:XX	@0?TPXX'\r'	Play Timer	DayOfWeek	@0TPDWxxxxxxxxHHMMFFFF'\r'	XX:Reserve No   01-30  xxxxxxx:Setting on a day of the week The initial ("S", "M", "T", "W", "T", "F", "S") of the day of the week to reserve is connected, and the day of the week which is not reserved is connected by "" hhmm:Time set If it is "Every time", it is displayed by "**".
							Example) Every day 12:15 SMTWTFS1215 Example) It starts in 15 minutes every hour except Wednesday and Friday. SMT_T_S**15 FFFFFFFF:file name(full path)**4
					DateTime	@OTPDTYYMMDDHHMMFFFF'\r'	XX:Reserve No→ 01-30 YYMMDDhhmm:Set Time(Year,Month,Day,Hour,M inute) If it is "Every month" or "Every year", it is displayed by "**"
							Example) 2012Y6M3D12:15 1206031215 Example) 2012Y Every month3D12:15
	Current Timer		@0?Ct'\r'	Current Timer	Rec Timer	@0CtRExx'\r'	FFFFFFF:file name(full path)%4 xx:Timer No. (01~30)
	D 1.T		0020.0	D 1.T	Play Timer	@OCtPLxx'\r'	xx:Timer No. (01~30)
	Reserved Timer		@0?Rt'\r'	Reserved Timer	Rec Timer Play Timer	@0RtRExx'\r' @0RtPLxx'\r'	xx:Timer No. (01~30) xx:Timer No. (01~30)
System	Play Timer Priority		@0?tp'\r'	Play Timer Priority	ON Play Timer	@0tp00'\r'	XX.Timer No. (01~30)
Setting	l lay fillier fillotty		@0:tp \( \)	l lay fifther fittority	OFF	@0tp00 \\ @0tp01'\r'	
Joething	Rec Folder		@0?Rf'\r'	Rec Folder	Current	@0RfCU'\r'	
	Tiec i oldei			110010101	Fixed	@0RfFXNNNNNNN\\\r'	NNNNNN:Fullpath
	Signal Pass Thru		@0?Sp'\r'	Signal Pass Thru	ON	@0Sp00'\r'	,
			·		OFF	@0Sp01'\r'	
	User area		@0?US'\r'	User area	ON	@0US00'\r'	
					OFF	@0US01'\r'	
			@0?UA'\r'		xxxxxxxxxxxxx	xx @0UAxxxxxxxxxxxxxxx\r'	xxxxxxxxxxxxxxxxxxxxxx:User Area name(0-32 words) 0 word:no set vlue
	File name form		@0?Ff'\r'	File name form	MN_DT_UA MN_UA_DT DT_MN_UA DT_UA_MN UA_MN_DT UA_DT_MN	@0FfMDU'\r' @0FfMUD'\r' @0FfDMU'\r' @0FfDUM'\r' @0FfUMD'\r' @0FfUMD'\r'	
	Mono		@0?MO'\r'	Mono	ON OFF	@0MO00'\r' @0MO01'\r'	

	Status request command (I	Host → This unit)		Status message (this		
	Request	Command		Ans.	Command	Remarks
System	Digital Out Fs	@0?dF'\r'	Digital Out Fs	AUTO	@0dFAT'\r'	
Setting				44.1KHz	@0dF44'\r'	
				48KHz	@0dF48'\r'	
				Ext(AES)	@0dFEX'\r'	
	Volume Input	@0?VI'\r'	Volume Input	Fixed	@0VIFX'\r'	
				Variable	@0VIVA'\r'	
	Ref (XLR/RCA)	@0?Fr'\r'	Ref (XLR/RCA)	XX	@0FrXX'\r'	XX:Set value(dBu)
	(FS Reference)		(FS Reference)			XX=24:XLR=+24dBu / RCA=+10dBV
						XX=20:XLR=+20dBu / RCA=+6dBV
						XX=18:XLR=+18dBu / RCA=+4dBV
	Input Trim L	@0?ltL'\r'	Input Trim L	XXX	@0ltLXXX'\r'	XXX:Trim setting value(+2.0dB~ -2.0dB)
			'			XXX=+20:+2.0
	Input Trim R	@0?ItR'\r'	Input Trim R	XXX	@0ltRXXX'\r'	XXX:Trim setting value(+2.0dB~ -2.0dB)
			1			XXX=+20:+2.0
	Output Trim L	@0?OtL'\r'	Output Trim L	XXX	@0OtLXXX'\r'	XXX:Trim setting value(+2.0dB~ -2.0dB)
						XXX=+20:+2.0
	Output Trim R	@0?OtR'\r'	Output Trim R	XXX	@0OtRXXX'\r'	XXX:Trim setting value(+2.0dB~ -2.0dB)
		30.34.1.1				XXX=+20:+2.0
	Time Form	@0?TF'\r'	Time Form	12h	@0TF12'\r'	7000-120.12.0
				24h	@0TF24'\r'	
	DateForm	@0?DF'\r'	DateForm	MDY	@0DFMD'\r'	
				DMY	@0DFDM'\r'	
				YMD	@0DFYM'\r'	
	Display Contrast	@0?BN'\r'	Display Contrast	XX	@0BNXX'\r'	XX:01-10
	(Brightness)		(Brightness)			
	Language	@0?LN'\r'	Language	English	@0LNUS'\r'	
				Japan	@0LNJP'\r'	
	Machine Name	@0?MN'\r'	Machine Name	XXXXXXXXXXX	@0MNxxxxxxxxxxx\r'	xxxxxxxxxxx:Machine Name
						A to Z, a to z, 0 to 9 Max12 words
	Daylight Saving	@0?dS'\r'	Daylight Saving	ON	@0dS00'\r'	
	, ,		, ,	OFF	@0dS01'\r'	
	DST Offset	@0?do'\r'	DST Offset	hhmm	@0dohhmm'\r'	hhmm:00:00~06:00(15min Step)
	DST Start Date	@0?ds'\r'	DST Start Date	MMDDhhmm	@0dsMMDDhhmm'\r'	
	DST End Date	@0?de'\r'	DST End Date	MMDDhhmm	@0deMMDDhhmm'\r'	
	Auto Reboot	@0?Ar'\r'	Auto Reboot	ON	@0Ar00'\r'	
				OFF	@0Ar01'\r'	
	Card Cheak	@0?CK'\r'	Card Cheak	XX.XXX (MB/S)	@0CKXXXXX'\r'	XX.XXX WriteSpeed(MB/S)
Version etc	Version	@0?VN'\r'	Version	xxxxxxxx:Version	@0VNxxxxxxxxmmmmmmm'\r'	xxxxxxxx:Version No(8 digits)
				No(8 digits)		mmmmmmm:model name
				mmmmmmmm:		(Case of DN-700R:DN-700R)
				model name		(Case of DN-500R:DN-500R)
Update	Update File ?	@0?UF'\r'	Update File ?	OK	@0UFOK'\r'	
(for RCF400S				NG	@0UFNG'\r'	
Update)	Update start	@0?UD'\r'	Update Data	XXXXX	@0UDXXXXX'\r'	XXXX:Update file information
-  - 0000,	'		1.	NG	@0UD'\r'	

## NOTE

\* is State :When Stop, it is possible to set.

- \*2 "Track No." is a number of the playback order. The file is managed by "Track No." in serial communications. "Track No." is changed by "File Sort".
- \*3 Preset is managed by not Preset Name but Preset No. (1-3) in serial communications.
- **\***4 Character-code:ISO/IEC 8859-1

# **Status Information List**

		Remarks				
	Status inf Ans.	•	Command			
When current media change.	Card	Card	No Card	@0CDNC'\r'		
			Card In	@0CDCl'\r'		
			Card Error	@0CDCE'\r'		
			Unformed	@0CDUF'\r'		
			Write Protect	@0CDWP'\r'		
			Door Open	@0CDDO'\r'		
	Disc	Disc	No Disc	@0CDNC'\r'		
			Disc In	@0CDCI'\r'		
			Disc Error	@0CDCE'\r'		
Vhen status change.	Status	Rec	D-In Unlock	@0STRU'\r'		
viion statas snangs.	Status	1100	Recording	@0STRE'\r'		
			RecPause	@0STRP'\r'		
		STOP	STOP	@0STST'\r'		
		3101	Cue	@0STCU'\r'		
			during AutoCue	@0STAC'\r'		
			Scheduled	@0STSH'\r'		
		Play	PLAY	@0STPL'\r'		
		riay	PLAYPAUSE	@0STPP'\r'		
			REPEAT PLAY PAUSE	@0STPR'\r'		
			FF	@0STFF'\r'		
			RWD	@0STRW'\r'		
			A-B Repeat	@0STAB'\r'		
			Cue Execute	@0STCE'\r'	CUE state	
		Oth - :	Loading	@0STLD'\r'	COE State	
		Other		@0STBY'\r'		
			Busy	@0STFL'\r'		
			File List	@USTFL'V"		
			TrackEdit/Preset	@0STED'\r'		
	T: 14 1 (5: 1 14 1)	T: 14 (5: 1 14 1)	Operation Error	@0STER'\r'		
	Time Mode(Display Mode)	Time Mode(Display Mode)	RecRemainTime	@0TMRE'\r'		
			TotalTrackNumber	@0TMTN'\r'		
			Total Mark Number	@0TMTM'\r'		
			Algo	@0TMAG'\r'		
			Current Date/Time	@0TMND'\r'		
			TrackTime(Elapsed Time)	@0TMTT'\r'		
			Current Date	@0TMCD'\r'		
			Current Time	@0TMCT'\r'		
			Recorded Time	@0TMRT'\r'		
			Recorded Data	@0TMRD'\r'		
			File name	@0TMFN'\r'		
			TrackRemainTime	@0TMTR'\r'		
			Disc Total Time	@0TMTD'\r'		
			Recorded Channel	@0TMCH'\r'		
			File information	@0TMFI'\r'		
			Level Meter	@0TMLV'\r'		
			File List	@0TMFL'\r'		
			OFF	@0TMOF'\r'		

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	110	HUHA

	Status ir	Remarks			
When current media change.	Media	Media	USB	@0MEUS'\r'	
			SD	@0MES1'\r'	
When current track change.	Cue Track No.	XXXX		@0CnXXXX'\r'	XXXX:Track No.
When total folder number change.	Total Folder Number	XXXX		@0TfXXXX'\r'	XXXX:Total Folder number
When folder change.	Select Folder	XXXXXXXXXXX		@0SFXXXXXXXXXXXXX\'\r'	XXX:Folder name
When total track number change.	Total Track Number	XXXX		@0TtXXXX'\r'	4 digits
When error occurs		Error		@0ERnnxxxx'\r'	"ss:display Time(00~99)
					00:Until Error of Status finish
					01:1Second
					02:2S
					03:3S
					xxx:Message (In the number of words, 1-30 words and the
					codes are ISO/IEC 8859-1)"

## License

### **ENGLISH**

This section describes software license used for DN-500R/RC-F400S. To maintain the correct content, the original (English) is used.

#### **FRANÇAIS**

Cette section concerne la licence du logiciel utilisé avec le lecteur DN-500R/RC-F400S.

Le document d'origine (en anglais) est utilisé afin d'assurer l'exactitude du contenu.

#### **ESPAÑOL**

Esta sección describe el contenido de la licencia del software para el DN-500R/RC-F400S.

Para mantener el contenido correcto, se utiliza el original (Inglés).

#### DEUTSCH

Dieser Abschnitt beschreibt die für den DN-500R/RC-F400S verwendete Software-Lizenz.

Um den korrekten Inhalt zu erhalten, wird das Original (Englisch) verwendet.

### **ITALIANO**

Questa sezione descrive la licenza software usata per il DN-500R/RC-F400S

Per mantenere il giusto contenuto, viene usata la forma originale (in inglese).

### **SVENSKA**

Denna sektion beskriver programvarulicenserna som används för DN-500R/RC-F400S.

För att behålla det korrekta innehållet används originalspråket (engelska).

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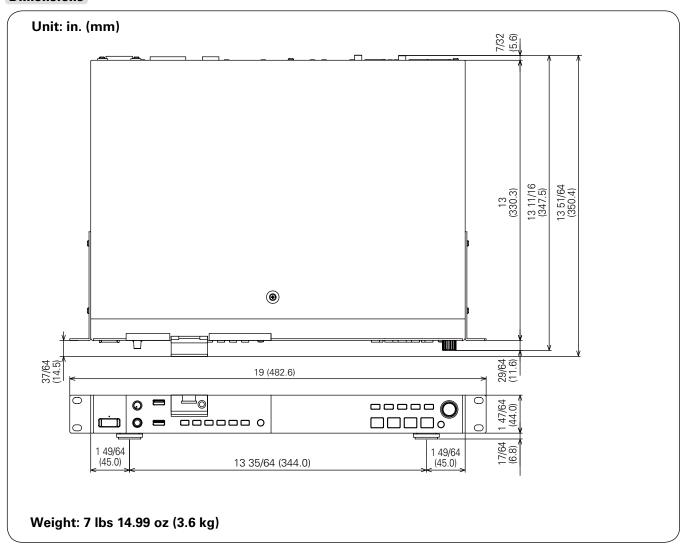
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