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You can read the recommendations in the user guide, the technical guide or the installation guide for DENON DN-F450R. You'll find the answers to all your questions on the DENON DN-F450R in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual DENON DN-F450R
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DENON
PROFESSIONAL

SOLID STATE RECORDER

DN-F450R

Owner's Manual



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Manual abstract:

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-F450R Serial No. 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: USE OF CONTROLS OR ADJUSTMENTS OR REFOR-MANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE. FCC INFORMATION (For US customers) 1.

COMPLIANCE INFORMATION Product Name: SOLID STATE RECORDER Model Number: DN-F450R 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. Denon Professional div. D&M Professional 1100 Maplewood Drive Itasca, IL 60143 Tel. 630-741-0330 2.

IMPORTANT NOTICE: DO NOT MODIFY THIS PRODUCT This product, when installed as indicated in the instructions contained in this manual, meets FCC requirements. Modification not expressly approved by DENON may void your authority, granted by the FCC, to use the product. 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. RISK OF ELECTRIC SHOCK DO NOT OPEN CAUTION 3. NOTE 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. This Class B apparatus complies with Canadian ICES-003. Cet appareil numrique de la classe B est conforme la norme NMB-003 du Canada. I ENGLISH DEUTSCH FRANAIS ITALIANO ESPAOL NEDERLANDS SVENSKA PORTUGUS IMPORTANT SAFETY INSTRUCTIONS READ BEFORE OPERATING EQUIPMENT This product was designed and manufactured to meet strict quality and safety standards. There are, however, some installation and operation precautions which you should be particularly aware of. 1. Read these instructions. 2. Keep these instructions. 3.

Heed all warnings. 4. Follow all instructions. 5. Do not use this apparatus near water.

6. Clean only with dry cloth. 7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.

8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat. 9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet. 10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

11. Only use attachments/accessories specified by the manufacturer. 12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over. 13. Unplug this apparatus during lightning storms or when unused for long periods of time. 14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

15. Batteries shall not be exposed to excessive heat such as sunshine, fire or the like. II PORTUGUS SVENSKA NEDERLANDS ESPAOL ITALIANO FRANAIS DEUTSCH ENGLISH CAUTION: (English) PRECAUCIN: (Espaol) n NOTE ON USE / HINWEISE ZUM GEBRAUCH WARNINGS Avoid high temperatures. Allow for sufficient heat dispersion when installed in a rack. Handle the power cord carefully. Hold the plug when unplugging the cord. Keep the unit free from moisture, water, and dust. Unplug the power cord when not using the unit for long periods of time. Do not obstruct the ventilation holes. Do not let foreign objects into the unit.

Do not let insecticides, benzene, and thinner come in contact with the unit. Never disassemble or modify the unit in any way. Ventilation should not be impeded by covering the ventilation openings with items, such as newspapers, tablecloths or curtains. Naked flame sources such as lighted candles should not be placed on the unit. Observe and follow local regulations regarding battery disposal. Do not expose the unit to dripping or splashing fluids. Do not place objects filled with liquids, such as vases, on the unit. Do not handle the mains cord with wet hands. When the switch is in the OFF 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.

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.



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Do not expose batteries to excessive heat such as sunshine, fire or the like. VORSICHT: (Deutsch) Para desconectar completamente este producto de la alimentacin elctrica, desconecte el enchufe del enchufe de la pared. El enchufe de la alimentacin se utiliza para interrumpir por completo el suministro de alimentacin a la unidad y debe de encontrarse en un lugar al que el usuario tenga fcil acceso. No exponga las pilas a calor excesivo, como a la luz solar, el fuego, etc. WARNHINWEISE Vermeiden Sie hohe Temperaturen. Beachten Sie, dass eine ausreichende Belftung gewhrleistet wird, wenn das Gert 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 Gert von Feuchtigkeit, Wasser und Staub fern. Wenn das Gert lngere Zeit nicht verwendet werden soll, trennen Sie das Netzkabel vom Netzstecker. Decken Sie den Lftungsbereich nicht ab. Lassen Sie keine fremden Gegenstnde in das Gert kommen. Lassen Sie das Gert nicht mit Insektiziden, Benzin oder Verdnnungsmitteln in Berhrung kommen.

Versuchen Sie niemals das Gert auseinander zu nehmen oder zu verndern. Die Belftung sollte auf keinen Fall durch das Abdecken der Belftungsffnungen durch Gegenstnde wie beispielsweise Zeitungen, Tischcher, Vorhnge o. . behindert werden. Auf dem Gert sollten keinerlei direkte Feuerquellen wie beispielsweise angezndete Kerzen aufgestellt werden.

Bitte beachten Sie bei der Entsorgung der Batterien die rtlich geltenden Umweltbestimmungen. Das Gert sollte keiner tropfenden oder spritzenden Flssigkeit ausgesetzt werden. Auf dem Gert sollten keine mit Flssigkeit gefllten Behlter wie beispielsweise Vasen aufgestellt werden. Das Netzkabel nicht mit feuchten oder nassen Hnden anfassen. Wenn der Schalter ausgeschaltet ist (OFF-Position), ist das Gert nicht vollstndig vom Stromnetz (MAINS) abgetrennt. Das Gert sollte in der Nhe einer Netzsteckdose aufgestellt werden, damit es leicht an das Stromnetz angeschlossen werden kann. Um dieses Gert vollstndig von der Stromversorgung abzutrennen, trennen Sie bitte den Netzstecker von der Wandsteckdose ab. Die Hauptstecker werden verwendet, um die Stromversorgung zum Gert vllig zu unterbrechen; er muss fr den Benutzer gut und einfach zu erreichen sein. Setzen Sie Batterien nicht brenniger Wrme aus, z. B.

Sonnenstrahlung, Feuer oder dergleichen. VOORZICHTIGHEID: (Nederlands) Om de voeding van dit product volledig te onderbreken moet de stekker uit het stopcontact worden getrokken. De netstekker wordt gebruikt om de stroomtoevoer naar het toestel volledig te onderbreken en moet voor de gebruiker gemakkelijk bereikbaar zijn. Stel de batterijen niet bloot aan felle zonneschijn, brand, enzovoorts. PRECAUTION: (Franais) Pour dconnecter compltement ce produit du courant secteur, dbranchez la prise de la prise murale. La prise secteur est utilise pour couper compltement l'alimentation de l'appareil et l'utilisateur doit pouvoir y accder facilement. N'exposez pas les batteries une chaleur excessive telle que le soleil, le feu ou autre. FRSIKTIHETSMTT: (Svenska) Koppla loss stickproppen frn eluttaget fr att helt skilja produkten frn nten. St i ck p r o p p e n a n v n d s f r a t t h e l t b r y t a strmforsrjningen till apparaten, och den mste vara lttillnglig fr anvndaren. Utstt inte batterierna fr stark hetta ssom solsken, eld eller liknande.

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'unit e deve essere facilmente accessibile all'utente. Non esporre le batterie a un calore eccessivo, per esempio al sole, al fuoco o altre fonti. ATENO: (Portugus) Para desligar completamente este produto da corrente, desligue a ficha da tomada elctrica. A ficha elctrica utilizada para interromper completamente a alimentao da unidade e deve estar num local onde o utilizador lhe possa aceder facilmente.

No exponha as pilhas a fontes de calor excessivo, como luz solar, fogo ou semelhantes. III ENGLISH DEUTSCH FRANAIS ITALIANO ESPAOL NEDERLANDS SVENSKA PORTUGUS n OBSERVATIONS RELATIVES A L'UTILISATION / NOTE SULL'USO / NOTAS SOBRE EL USO / ALVORENS TE GEBRUIKEN / OBSERVERA / NOTA SOBRE UTILIZAO AVERTISSEMENTS Eviter des tempratures leves. Tenir compte d'une dispersion de chaleur suffisante lors de l'installation sur une tagre. Manipuler le cordon d'alimentation avec prcaution. Tenir la prise lors du dbranchement du cordon. Protger l'appareil contre l'humidit, l'eau et la poussire. Dbrancher le cordon d'alimentation lorsque l'appareil n'est pas utilis pendant de longues priodes. Ne pas obstruer les trous d'aration. Ne pas laisser des objets trangers dans l'appareil. Ne pas mettre en contact des insecticides, du benzne et un diluant avec l'appareil. Ne jamais dmonter ou modifier l'appareil d'une manire ou d'une autre. Ne pas recouvrir les orifi ces de ventilation avec des objets tels que des journaux, nappes ou rideaux. Cela entraverait la ventilation. Ne jamais placer de flamme nue sur l'appareil, notamment den, benzeen of verfvverdunner met dit toestel in contact komen. Dit toestel mag niet gedemonteerd of aangepast worden.

De ventilatie mag niet worden belemmerd door de ventilatieopeningen af te dekken met bijvoorbeeld kranten, een tafelkleed of gordijnen. Plaats geen open vlammen, bijvoorbeeld een brandende kaars, op het apparaat. Houd u steeds aan de milieuvoorschriften wanneer u gebruikte batterijen wegdoet. Stel het apparaat niet bloot aan druppels of spatten. Plaats geen voorwerpen gevuld met water, bijvoorbeeld een vaas, op het apparaat. Raak het netsnoer niet met natte handen aan. Als de schakelaar op OFF staat, is het apparaat niet volledig losgekoppeld van de netspanning (MAINS). De apparatuur wordt in de buurt van het stopcontact genstalleerd, zodat dit altijd gemakkelijk toegankelijk is. VARNINGAR Undvik hga temperaturer. Se till att det finns mjlighet till god vrmeavledning vid montering i ett rack.

Hantera ntkabeln varsamt. Hll i kabeln nr den kopplas frn el-uttaget. Utstt inte apparaten fr fukt, vatten och damm. Koppla loss ntkabeln om apparaten inte kommer att anvndas i lng tid. Tpp inte till ventilationsppningarna.

Se till att frmmade freml inte trnger in i apparaten. Se till att inte insektsmedel p spraybruk, bensen och thinner kommer i kontakt med apparatens hlje. Ta inte isr apparaten och frsk inte bygga om den. Ventilationen br inte frhindras genom att tcka fr ventilationsppningarna med freml ssom tidningar, bordsdukar eller gardiner. Placera inte ppen eld, t. ex. tnda ljus, p apparaten. Tnk p miljaspekterna nr du bortskaffar batterier. Apparaten fr inte utsttas fr vtska. Placera inte freml fyllda med vtska, t.ex. vaser, p apparaten.



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Hantera inte ntsladden med vta hnder. ven om strmbrytaren str i det avstngda lget OFF, s r utrustningen inte helt bortkopplad frn det elektriska ntet (MAINS). Utrustningen ska vara installerad nra strmuttaget s att strmfrsrjningen r ltt att tillg.

AVISOS Evite temperaturas altas. Assegure uma suficiente dispersodo calor quando a unidade for instalada numa prateleira. Manuseie o cabo de alimentaocom cuidado.Puxe pela ficha quando desligar ocabo de alimentao. Mantenha a unidade afastada dahumidade, da gua e do p. Desligue o cabo de alimentaouquando no estiver a utilizar a unidade por longos perodos detempo. No obstrua os orifcios deventilao. No deixe objectos estranhos dentro da unidade. No permita que insecticidas, benzina e diluente entrem em contacto com a unidade. Nunca desmonte ou modifique dealguma forma a unidade. A ventilao no deve ser obstruda, tapando as aberturas de ventilao com objectos, como jornais, toalhas ou cortinas. No devem ser colocadas junto unidade fontes de chama aberta, como velas acesas. Respeite as regulamentaes locais relativas eliminao de pilhas. No exponha a unidade a gotejamento ou salpicos de lquidos. No coloque objectos com lquidos, como jarras, em cima da unidade.

No manuseie o cabo de alimentao com as mos molhadas. Quando o interruptor se encontra na posio OFF, o equipamento no est completamente desligado da REDE ELCTRICA. O equipamento deve ser instalado junto da fonte de alimentao, para que a fonte de alimentao esteja facilmente acessvel. IV PORTUGUS SVENSKA NEDERLANDS ESPAOL ITALIANO FRANAIS DEUTSCH ENGLISH The ventilation should not be impeded by covering the ventilation openings with items, such as newspapers, tablecloths, curtains, etc. No naked flame sources, such as lighted candles, should be placed on the apparatus.

Attention should be drawn to the environmental aspects of battery disposal. The apparatus shall not be exposed to dripping or splashing for use. No objects filled with liquids, such as vases, shall be placed on the apparatus. CAUTION DECLARATION OF CONFORMITY We declare under our sole responsibility that this product, to which this declaration relates, is in conformity with the following standards: EN60950-1, EN55022, EN55024, EN61000-3-2 and EN61000-3-3. Following the provisions of 2006/95/EC and 2004/108/EC Directive. (English) DECLARACIN DE CONFORMIDAD

BEREINSTIMMUNGSEKLRUNG Wir erklren unter unserer Verantwortung, da dieses Produkt, auf das sich diese Erklrung bezieht, den folgenden Standards entspricht: EN60950-1, EN55022, EN55024, EN61000-3-2 und EN61000-3-3. Entspricht den Bestimmungen der Richtlinien 2006/95/EG und 2004/108/EG. Nous dclarons sous notre seule responsabilit que l'appareil, auquel se rfere cette dclaration, est conforme aux standards suivants: EN60950-1, EN55022, EN55024, EN61000-3-2 et EN61000-3-3. Conforme aux dispositions des directives 2006/95/EC et 2004/108/EC. (Deutsch) Declaramos bajo nuestra exclusiva responsabilidad que este producto al que hace referencia esta declaracin, est conforme con los siguientes estndares: EN60950-1, EN55022, EN55024, EN61000-3-2 y EN61000-3-3.

Siguiendo las disposiciones de las Directivas 2006/95/CE y 2004/108/CE. Wij verklaren uitsluitend op onze verantwoordelijkheid dat dit produkt, waarop deze verklaring betrekking heeft, in overeenstemming is met de volgende normen: EN60950-1, EN55022, EN55024, EN61000-3-2 en EN61000-3-3. Voldoet aan de bepalingen van de EC-richtlijnen 2006/95/EC en 2004/108/EC. (Espaol) EENVORMIGHEIDSVERKLARING (Nederlands) DECLARATION DE CONFORMITE (Franais) VERENSSTMMELSESINTYG DICHIARAZIONE DI CONFORMIT Dichiariamo con piena responsabilit che questo prodotto, al quale la nostra dichiarazione si riferisce, conforme alle seguenti normative: EN60950-1, EN55022, EN55024, EN61000-3-2 e EN61000-3-3. Conforme alle norme delle direttive 2006/95/EC e 2004/108/EC. QUESTO PRODOTTO E' CONFORME AL D.M. 28/08/95 N. 548 (Italiano) Hrmed intygas helt p eget ansvar att denna produkt, vilken detta intyg avser, uppfyller fljande standarder: EN60950-1, EN55022, EN55024, EN61000-3-2 och EN61000-3-3. Fljer bestmmlselerna i Direktiv 2006/95/EC och 2004/108/EC.

(Svenska) DECLARAO DE CONFORMIDADE Declaramos sob nossa exclusiva responsabilidade que este produto, ao qual se refere esta declarao, se encontra em conformidade com as seguintes normas: EN60950-1, EN55022, EN55024, EN61000-3-2 e EN61000-3-3. De acordo com as disposies da Directiva 2006/95/CE e 2004/108/CE. (Portugus) D&M Professional Europe Kingsbridge House Padbury Oaks Longford Middlesex UB7 0EH UK V ENGLISH DEUTSCH FRANAIS ITALIANO ESPAOL NEDERLANDS SVENSKA PORTUGUS 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 deben tirarse ni incinerarse. Deber disponer de ellas siguiendo los reglamentos de su localidad relacionados con los desperdicios qumicos.

Este producto junto con los accesorios empaquetados es el producto aplicable a la directiva RAEE excepto pilas. 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 Recyclen geeignet und kann wieder verwendet werden. Bitte entsorgen Sie alle Materialien entsprechend der rtlichen RecyclingVorschriften. Beachten Sie bei der Entsorgung des Gertes die rtlichen Vorschriften und Bestimmungen. Die Batterien drfen nicht in den Hausmll geworfen oder verbrannt werden; bitte entsorgen Sie die Batterien gem der rtlichen Vorschriften. Dieses Produkt und das im Lieferumfang enthaltene Zubehr (mit Ausnahme der Batterien!) entsprechen der WEEE-Direktive. 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. UNE REMARQUE CONCERNANT LE RECYCLAGE: OBSERVERA ANGENDE TERVINNING: Les matriaux d'emballage de ce produit sont recyclables et peuvent tre rutiliss.



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Veillez disposer des matiaux conformment aux lois sur le recyclage en vigueur. Lorsque vous mettez cet appareil au rebut, respectez les lois ou rglementations en vigueur. Les piles ne doivent jamais tre jetes ou incinres, mais mises au rebut conformment aux lois en vigueur sur la mise au rebut des piles.

Ce produit et les accessoires inclus, l'exception des piles, sont des produits conformes la directive DEEE. Produktens emballage r tervinningsbart och kan teranvndas. Kassera det enligt lokala tervinningsbestmmelser. Nr du kasserar enheten ska du gra det i verensstmmelse med lokala regler och bestmmelser.

Batterier fr absolut inte kastas i soporna eller brnns.

Kassera dem enligt lokala bestmmelser fr kemiskt avfall. Denna apparat och de tillbehr som levereras med den uppfyller gllande WEEE-direktiv, med undantag av batterierna. UMA NOTA SOBRE A RECICLAGEM: 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'unit, osservare le normative o le leggi locali in vigore.

Non gettare le batterie, n 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. Os materiais de embalagem deste produto so reciclveis e podem ser reutilizados. Elimine quaisquer materiais de acordo com as normas de reciclagem locais. Quando eliminar a unidade, obedeas regras ou normas locais. As pilhas nunca devem ser deitadas fora ou incineradas, mas sim eliminadas de acordo com as normas locais relativas aos resduos qumicos. Este produto e os respectivos acessrios embalados em conjunto constituem o produto aplicvel de acordo com a directiva WEEE, excepto as pilhas. VI Contents Getting started 2 Main features 2 Accessories 2 Cautions on handling 2 Getting started Recording 16 Selecting a folder to store recorded files 16 Recording 16 Operations during recording 17 Add a file during recording (Manual track) 17 Adding marks (Marking) 17 Recording time chart 18 Control function 26 REMOTE terminal 1 26 Wired remote switch operations 26 Cascade recording 26 REMOTE terminal 2 27 Expanding remote functions 27 RS232C control 28 RS232C control 28 Part names and functions Part names and functions 3 Front panel 3 Rear panel 4 Display 5 Switching the display 5 Display during stop status 5 Display during recording and recording pause 6 Display during playback and playback pause 6 Connections Play 19 Selecting the folder to playback 19 Playback 19 Operations during playback 20 File switching (8, 9) 20 Fast forward and fast rewind (Search 6, 7) 20 Searching for Marks 20 Dividing a file 20 Information 40 Error messages 40 Troubleshooting 41 Setting defaults Connections 7 Preparations 7 Cables used for audio connection 7 Audio connections 7 Analog connection (Unbalanced connection) 7 Analog connection (Balanced connection) 7 Connecting to a computer 7 Connecting the external control terminal 8 Remote terminal 8 RS-232C terminal 8 Connecting headphone 8 Connecting the AC adaptor 8 Mounting SD card 9 Inserting an SD card 9 Removing the SD Card 9 Cautions on SD card 9 Specifications 42 Index 43 Recording USB mode (Connection between DN-F450R) and the computer 21 Connecting to a computer 21 Play USB mode and the computer File/Folder settings 22 File menu 22 File information (01 Information) 22 Renaming files (02 Rename) 22 Deleting files (03 Delete) 23 Copying files (04 Copy) 23 Moving files (05 Move) 23 Deleting marks (06 Delete Mark) 23 Folder menu 23 Selecting folders (1 Select) 24 Creating folders (2 Make Folder) 24 Renaming folders (3 Rename) 24 Deleting folders (4 Delete) 24 Locking operation buttons (Key lock) 25 Other functions 25 File/Folder Control function settings Setting defaults 10 Menu list 10 Setting defaults 11 Menu operations 11 Settings for recording or playback (Presets) 11 Display settings (Display) 14 Time & date settings (Time/Date) 14 Utility settings (Utility) 14 Checking the firmware version (F.W Version) 15 Information Specifications Index 1 Getting started Thank you for purchasing this DENON product. To ensure proper operation, please read this owner's manual carefully before using the product.

After reading the manual, be sure to keep it for future reference. Main features Stereo (2 channel) or monaural (1 channel) recording and playback Recording to various SD cards. 2 Types of recording format Recording using MP3 (MPEG1 Layer III) audio compression format. Recording using 16-bit Linear PCM format (uncompressed audio). Equipped with a level switching type balanced XLR connector for analog input. Computer compatibility (MS-DOSTM,

Windows, Macintosh compatible audio file) Automatic recording stops recording when there is no sound, and restarts recording when sound is detected (Silent Skip) Manual or automatic recording level control (ALC) Mark function makes specific search points without processing files Supports remote control operation from the two-line wired remote and RS-232C connections. Supplied with Windows application program DMP Mark Editor for editing the recorded files and marks. When two DN-F450R recorders are used, the Cascade recording function automatically continues recording on the other unit if there is no recording space remaining on the SD card. Accessories Check that the following parts are supplied with the product. 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 leaving home for long periods of time, be sure to unplug the power cord from the power outlet. About condensation If there is a major difference in temperature between the inside of the unit and 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. q Owner's manual ..

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. 1 DN-F450R Instruction manual DMP Mark Editor Installer DMP Mark Editor Instruction manual w e SDHC Logo is a registered trademark.



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NOTE Conduction noise or interference noise may cause the DN-F450R to malfunction. Therefore, when connecting this device to a computer, connect using the USB cable included. 2 Cautions on handling n Attaching the mounting brackets for a 19-inch 1U half-sized rack Part names and functions Front panel For buttons not explained here, see the page indicated in parentheses (). Getting started Getting started The DN-F450R is half the size of 1U. Attach the included rack mounting brackets to the DN-F450R. Then it can be mounted in an EIA 19-inch rack. 1. Remove two screws from the side panel of the DN-F450R.

2. Attach the rack mounting bracket to the DN-F450R with the included two screws. Attach the bracket on the opposite side. Part names Part names and functions and functions q we r t y u i o Q0 Connections Setting defaults Recording Q1 Q2 Q3 Q4 Q5 n Mounting in a rack Play Do not cover the top of the unit. Remember, heat is dispersed from the DN-F450R's upper surface. Set up the installation environment carefully. For example, take care to protect the DN-F450R from heat from other devices. If necessary, use forced ventilation. The surrounding conditions must meet the specifications described in "Specifications" on vpage 42. If the DN-F450R is placed near an amplifier, tuner or other components, noise (induced hum) or beat interference may result (especially during AM or FM reception).

If interference occurs, disconnect the DN-F450R or change the installation place. If the unit is not to be mounted in a rack, remove the rack mount brackets and attach the included feet. If there is electronic interference, install DN-F450R separately from other devices. q Power switch (ON/OFF) (11) w Headphone jack (PHONES) (8) e Headphone volume adjustment switch (LEVEL) (8) Press the switch to make it come out. After adjusting the volume, press the switch back in again.

Q1 Level indicator (LEVEL) (12) Lights green if the recording level or playback level exceeds the level set in "Level LED" in the setting menu. USB mode and the computer File/Folder Control function settings Q2 Level over indicator (OVER) (16) Lights red if the recording level exceeds -1dB during recording or recording pause. NOTE Do not turn the volume level too high when using headphones. Q3 Recording and Manual track button (REC / M.TRACK) (16, 17) Lights red during recording.

Flashes red while recording is paused. r USB port for PC (8) t SD card slot (9) y Display (5) u Display and Menu button (DISPLAY, MENU/STORE) (5, 11) Q4 Stop and Cue button (STOP / CUE) (17) Q5 Play and Pause button (PLAY/PAUSE) (19) Lights green during playback. Flashes green while playback is paused. Information i Mark and Lock button (MARK, LOCK) (17, 25) o Mark search and Recording balance buttons (MARK /+, REC BAL L/R) (16, 20) Specifications Q0 Jog dial (8, 9 / 6, 7 PUSH) (11, 20) Index 3 Rear panel q w e r t y u i o q Analog input (balanced) terminal (7) XLR type Pin assignment: 1 GND, 2 Hot, 3 Cold Applicable connector: XLR-3-12C or equivalent y REMOTE 2 jack (8) Connect the microphone remote RC600PMD (sold separately) or external remote controller. w FS switch (11) FS (full scale) indicates the maximum input level. u RS-232C terminal (8) i AC adaptor input terminal (8) Connect the supplied AC adaptor. e Analog input (unbalanced) terminal (7) RCA type o Attachment hole for AC adaptor cord holder (8) This holder attachment hole is used to prevent the connected cord from detaching from the terminal. r Analog output (unbalanced) terminal (7) RCA type t REMOTE 1 jack (8) Connect a wired remote switch equipped with a monaural headphone jack. 4 Display The display on the DN-F450R shows information about the DN-F450R and the various SD card attached. Details of the display differ depending on the operating status (stopped/recording/playing) of the DN-F450R.

Getting started Display during stop status Part names and functions Switching the display Press DISPLAY. The display details change each time the button is pressed. For details on the display details shown during each operation, see "Display during stop status" (vpage 5), "Display during recording and recording pause" (vpage 6), "Display during playback and playback pause" (vpage 6) n Total remaining capacity display q Total number of files in the current folder w Total remaining time display Connections Setting defaults n Common displays during each operation e q w If the remaining time exceeds 100 hours, "99: 59 : 59" is displayed. n Current time/Date display e Current date r Current time q q Display Screen Title Display w Mode Display during Settings S : Silent skip Mode (vpage 12) Recording Play w e r USB mode and the computer e Recording time remaining on an SD card Remaining capacity n Recording setting information display Q1 Q2 t Recording input source y Recording file format u "ALC" indication of "Level Cont" preset menu File/Folder Control function settings Information tyui o Q0 *This indication is not displayed when the recording level control is set to "Manual". i Sampling frequency o ON/OFF indication of "Silent Skip" preset menu *This indication is not displayed when the silent skip is set to OFF. Q0 ON/OFF indication of "Auto Track" preset menu *This indication is not displayed when auto track is set to OFF. Q1 Recording channel Q2 MP3 bitrate *Not displayed when the recording file format is PCM. Specifications Index 5 Display Display during recording and recording pause n Recording elapsed time display q File name during recording w Recording elapsed time Display during playback and playback pause n Playback elapsed time display q File name during playback w Elapsed time e Playback position on a file Position is not displayed for files for files recorded as VBR. q w e Total remaining recording time The remaining time changes depending on the recording format selected in the preset menu. q w e r Playback remaining time "VBR" is displayed when the playback file is VBR. n Total remaining recording time display n Playback remaining time display If the remaining time exceeds 100 hours, "99: 59 : 59" is displayed. If the remaining time exceeds 100 hours, "99: 59 : 59" is displayed. e r n Recording input level display r Recording input level t Level meter peak hold value (largest of L/R is displayed) n Playback output level display t Playback output level y Level meter peak hold value (largest of L/R is displayed) r t y Recording input source u Recording file format i "ALC" indication of "Level Cont" preset menu n Recording setting information display Q2 Q3 yuio Q0 Q1 *This indication is not displayed when the recording level control is set to "Manual".



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o Sampling frequency Q0 ON/OFF indication of "Silent Skip" preset menu *This indication is not displayed when the auto track is set to OFF. Q1 ON/OFF indication of "Auto Track" preset menu *This indication is not displayed when the silent skip is set to OFF.

Q2 Recording channel Q3 MP3 Bitrate *Not displayed when the recording file format is PCM. t y u File created date i Channel o MP3 bitrate Q2 Q1 This indication is not displayed when the file format is PCM. n File information display Q0 Number of marks Q1 ON/OFF indication of "Silent Skip" preset menu *This indication is not displayed when silent skip is set to OFF. uio Q0 Q2 Sampling frequency/Quantized bit number 6 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. DN-F450R is not equipped for connecting a microphone. Getting started Audio connections Analog connection (Unbalanced connection) Connect the line label analog input or output to ANALOG IN/OUT terminals (RCA terminals). Connecting to a computer Connect the computer USB cable to the USB port on the DN-F450R. Part names and functions Connections Setting defaults Preparations Cables used for audio connection Select the cables according to the equipment being connected.

L R CD, MD AUDIO OUT L R Amp Mixer Preamp AUDIO IN L R Recording L R Audio cables Analog Connection (RCA) White Red L R L R L R L R When you connect a computer using a USB cable to the USB port, you can easily copy audio files from an SD card on DN-F450R to the computer. The USB connection is only enabled when the DN-F450R is stopped (recording/playback are disabled). For details on the USB mode, see "USB mode (Connection between DN-F450R) and the computer" (vpage 21). Play USB mode and the computer File/Folder Control function settings Stereo audio cable (Included) Analog connection (Balanced connection) Connect the line label analog input or output to ANALOG IN/OUT terminals (XLR terminals). Analog Connection (XLR Balanced cable (Sold separately) Cable for connecting to the computer 1:GND 2:Hot 3:Cold Information USB cable (Included) CDR, CD L AUDIO OUT R Specifications Index 7 Connecting the external control terminal Remote terminal n REMOTE1 Connect a wired remote switch equipped with a monaural headphone jack to the REMOTE terminal 1 on DN-F450R. When using two sets of this unit, connect them at each REMOTE terminal 1 using a cable with a monaural headphone jack. Connecting headphone Connect the headphones to the headphone jack (PHONES). n Attaching the power cord holder I Connect the plug of the AC adaptor to the DC power inlet. power cord holder to cord 2 Pass the hole of the Then insert the holderthe the of the AC adaptor. to mounting hole.

You can use five remote options using a wired remote switch ("REMOTE terminal 1" (vpage 26)). You can also perform the Cascade recording function by connecting two DN-F450R recorders. For details on the Cascade recording function, see page 26. When you press the headphone volume adjustment switch (LEVEL), the switch will spring out. After adjusting the volume, press the switch back in again.

Mounting hole n REMOTE2 NOTE To prevent hearing loss, do not raise the volume level excessively when using headphones. Connect the microphone remote RC600PMD (sold separately) or external remote controller to REMOTE terminal 2. Connecting the AC adaptor Insert the AC adaptor when all other connections are completed. For the operation using REMOTE terminal 2, see page 27. 3 Fix the holder to the DN-F450R using the included screw.

RS-232C terminal Connect an RS-232C straight cable with a 9-pin D-sub connector to the RS-232C serial terminal. Power cord (supplied) To AC outlet (AC 120 V, 60 Hz) NOTE RS-232C control allows you to perform external control from the host. For details on RS232C control, see "RS232C control" (vpage 28). 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. 8 Mounting SD card Inserting an SD card Insert an SD card all the way in to the SD card slot. SD card Getting started Cautions on SD card Do not use a cracked or warped SD card or one that has been repaired with adhesive. "Loading.

.." appears on the display when SD card is mounted or loaded. Do not remove the SD card while this message is displayed. Part names and functions Connections Setting defaults Recording Insert an SD card all the way into the slot until it clicks. Play Removing the SD Card Check beforehand that playback from or recording to the SD card is stopped. USB mode and the computer Press the SD card. The SD card springs out. Remove the card. File/Folder Control function settings Information NOTE Removing the SD card during recording may result in incorrect writing of the recorded file.

Do not remove the SD card during recording. Specifications Index 9 Setting defaults Menu list For details on the menu operations, see "Menu operations" (vpage 11). Furthermore, for detailed explanations of each item, see the table on the Reference Page. Setting Detailed items items 01 File List 02 Presets Preset-1 01 Select Input /Preset-2 02 Edit Rec Format /Preset-3 RecChan (Record Channel) Fs (Sample Rate) LevelCont Level LED Auto Track Auto Mark SilentSkp (Silent Skip) SilentLvl (Silent Level) Skip Back Play Mode FinishMod (Finish Mode) Repeat PowOnPlay (Power On Play) Auto Cue Remote1 Machine ID Default Contents Manages and sets files and folders. Switches to the selected preset number.

Sets the audio input source for recording. Sets the audio format (MP3 or PCM) for recording. Sets the number of recording channels. Sets the sampling frequency for recording. Sets the adjustment method for the recording level.

Sets the input/output level for the Level display lit on the main unit. Sets the recording time for one file. Sets the writing of marks for silent detection. Sets recording pause or recording restart by silent detection. Sets the silence level for Auto Mark and Silent Skip. Sets the amount of time used for skipping back a track during playback or pause. Sets the playback mode. Sets the stop status when playback is stopped. Sets repeat playback. Sets the operation when the power is switched ON.



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Setting details StartPaus: During recording or playback, recording or playback starts when the switch of the external device is closed (short), and recording or playback is paused when the switch is opened (open). StrtPseTr: During recording, recording starts when the switch of the external device is closed (short), and paused when the switch is opened (open). Furthermore, if the switch is closed (short) again while recording is paused, the file is updated to a new file and recording restarts.

Mark: During recording or playback, a mark is added when the switch of the external device is closed (short). ManualTrk: During recording, if the switch of the external device is closed (short), the file is updated to a new file and recording continues. Cascade: When you perform this function, connect another DN-F450R to this DN-F450R ("Cascade recording" (vpage 26)). If there is no recording space remaining on the SD card in the first DN-F450R while recording, this function automatically continues recording on the second DN-F450R. Preset-1/ Preset-2/ Preset-3 Getting started n Renaming presets Setting Items 03 Rename Preset names can be renamed according to their use. A maximum of 8 characters can be input. Firstly, select the preset number that you want to rename from "02 Presets" in the menu. Next, select "03 Rename". Setting details n Entering Characters q lace the cursor in the position where you want to insert characters P using the MARK+ and MARK buttons. wRotate the jog dial to select the character to input.

ePress the jog dial to enter the character. rRepeat steps q to e until all characters are entered. tPress the jog dial when the entry is completed. Saves the entered characters. n Deleting Characters q lace the cursor to the right of the character you want to delete the P MARK+ and MARK buttons. wPress PLAY/PAUSE. Deletes a character on the left of the cursor. Part names and functions Connections Setting defaults Recording Machine ID Sets the machine ID information included in the file name. A maximum of 8 characters can be input. Since the default value of the machine ID is "1", the name of the first recorded file will be 1001.

MP3 (when recorded in MP3 format). If the machine ID is set as "aaaaa", the name of the first recorded file will be "aaaaa001.MP3". If the machine ID is o characters, the file name will be 001.MP3. (When recorded in MP3 format) NOTE The machine ID is common for the Preset-1 to Preset-3 settings. If it is changed, the new machine ID is applied to all Preset-1 to Preset-3 settings. Preset-1/ Preset-2/ Preset-3 Yes : Resets the selected preset name and its setting values to their default values. No: Values are not returned to the defaults. Default (Preset Default) Preset settings are returned to the default values for each preset.

Eight-character default names are assigned to the preset names. 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)! # \$ % & ' () + , ; = @ [] ^ _ ' { } ~ 0 1 2 3 4 5 6 7 8 9 " " To cancel without saving the entered characters, press the MARK button before saving. Play USB mode and the computer File/Folder Control function settings Information Specifications Index 13 Display settings (Display) Settings can be performed for the display. Rotate the jog dial to select "03 Display". Setting Items Contrast Sets the brightness of the display. Time Form Sets the type of the current time display. Date Form Sets the display order of the date. Setting details 1 / 2 / 3 / 4 / 5 / 6 / 7 / 8 / 9 / 10 The higher the setting value, the brighter the display becomes.

12H: Switches to the 12-hour display (AM/PM). 24H: Switches to the 24-hour display. M/D/Y: Displays the date in Month/Date/Year order. D/M/Y: Displays the date in Date/Month/Year order. Utility settings (Utility) Utilities perform such operations as saving and reading the various setting data for the DN-F450R and formatting the SD card.

Rotate the jog dial to select "05 Utility". Setting Items 01 Load Settings After reading the preset setting data stored on a SD card, changes the settings of DN-F450R to the setting data on the SD card. This function is used when more than one DN-F450R unit are used together to set all units with the same presets. 02 Save Settings Stores all of the current preset setting data on the SD card. To read the saved data onto a different DNF450R, use the operation in "01 Load Settings".

Setting details n Operation q Rotate the jog dial to select "Load Settings", and press the jog dial. "Load?" is displayed. w ote the jog dial to select "Yes", and press the jog dial. R The preset setting data starts reading. "Executing..." is displayed during the read process. When the read process is complete, "Completed" is displayed, and the DN-F450R returns to the stopped state. "DN-F450Rpreset.

txt" which is stored in the root folder in the SD card is read. n Operation q Rotate the jog dial to select "Save Settings", and press the jog dial. "Save?" is displayed. w ote the jog dial to select "Yes", and press the jog dial. R The preset setting data starts being saved. When the save process is complete, "Completed" is displayed, and the DN-F450R returns to the stopped state. The data is saved as "DN-F450Rpreset.txt" in the root folder of the SD card. When this operation is performed, the existing "DN-F450Rpreset. txt" data is overwritten.

n Operation q Rotate the jog dial to select "Media Format", and press the jog dial. "Format SD" is displayed. w ote the jog dial to select "Yes", and press the jog dial. R Formatting of the SD card starts. "Executing..." is displayed during the formatting. When the format process is complete, "Completed" is displayed, and the DN-F450R returns to the stopped state. File Sort Selects the sorting method for the file listing order.

Default Resets the Display Menu settings to the default values. The factory setting is "D/M/Y" for Europe. Alpha (Alphabet) :Files are arranged in the order of symbols, numbers, and alphabets. Date: Files are arranged in date order. Yes: Values are returned to the defaults. No: Values are not returned to the defaults. Time & date settings (Time/Date) Sets the clock on the DN-F450R. Rotate the jog dial to select "04 Time/Date". Setting Items 04 Time/Date Sets the built-in clock time. Records the time of this built-in clock as time data (recording start time) in a file.

Setting details 01:00 AM: Enter the time. Jan 01/2010: Enter the year, month and date. n Entering Numbers q lace the cursor in the position where you want to insert numbers P using the MARK+ and MARK buttons.



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Rotate the jog dial to select the number to input. Repeat steps q and w to enter all of the numbers. Press the jog dial when the entry is completed. Save the settings, and the screen returns to the menu screen. 03 Media Format Formats the SD card. NOTE Before using an SD card, be sure to format it on DN-F450R. If the SD card is formatted on a computer, this could cause sound cutoffs during recording.

To cancel without saving the entered characters, press the MARK before saving. 14 Getting started Part names and functions Connections Setting defaults Recording Play File/Folder Control function settings Information Specifications Index USB mode and the computer Checking the firmware version (F.W Version) Rotate the jog dial to select "06 F/W Version". Displays the DN-F450R's current firmware version. 15 Recording This section explains how to specify a SD card folder for a recording file and to record into that folder.

Power switch DISPLAY MARK REC BAL L, R Jog dial 1 Press REC/M.TRACK to pause recording. Recording REC/M.TRACK flashes red. Monitors the input source set for "Input" in the preset menu.

2 Adjust the recording level using REC LEVEL. REC/M.TRACK STOP PLAY/PAUSE REC LEVEL To adjust the recording level, change "LevelCont" in the preset menu to "Manual". When you adjust the recording level, make sure that the peak level is not 0dB by monitoring the level meter and level over display (LEVEL). When the "Level Cont" preset menu is set to "ALC", you cannot adjust the recording level using REC LEVEL. Selecting a folder to store recorded files 6 Select "01 Select" in the folder list menu, and rotate the jog dial. 1 Press the power switch. Press and hold 2 while stopped. DISPLAY for more than 1 second 3 Select "File List" in the menu list and press the jog dial. 4 The folder list is displayed.

The power of DN-F450R is switched ON. For details on how to display the folder list, see "Displaying the File Menu (Preparation)" (page 22). Choose the folder in which to store the recorded file, and display the file list of that folder. 3 Use RECBAL L, R to adjust the recording balance. To adjust the recording balance, set "LevelCont" in the preset menu to "Manual". When RECBAL L is pressed, the R (right) volume decreases by 1dB. When R is pressed, the L (left) volume decreases. This setting is maintained after the power is switched off. When the pre-recording adjustments are completed, stop the source playback, and playback the recording source again from the start. When the "Level Cont" preset menu is set to "ALC", you cannot adjust the recording level using REC LEVEL.

7 Press STOP, and the screen returns to the previous screen. NOTE To record on an SD card, be sure to format it on DN-F450R 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 "03 Media Format" (page 14). 5 Rotate the jog dial to select the folder in which you want to save the recording file, and press the jog dial.

To save a recorded file in a newly created folder, see "Creating folders (2 Make Folder)" (page 24). 16 Recording 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. Getting started 4 Press REC/M.TRACK to start recording.

REC/M.TRACK changes to being lit red. Part names and functions Press REC/M.TRACK during recording. The file is cut at the point where the button is pressed, and recording continues in a new file. You can set the recording level and recording balance even during a recording in progress. If there are no folders in the SD card, a folder "MPGLANG" is automatically created, and recorded files are stored in that folder. For details on transferring that file into a different folder, see "Moving files (05 Move)" (page 23). Connections Files can also be divided at a specified amount of time. For details, see "Auto Track" (page 12) in the preset menu.

Setting defaults NOTE @@ If the size of a file being recorded reaches 4GB, recording is continued by automatically switching to a new file. Recording n To stop recording Press STOP. Recording stops, and REC/M.TRACK goes out. The recorded file information is displayed. At this time, you can playback the recorded file by pressing PLAY/PAUSE. When the STOP button is pressed again, the total file number or overall remaining time is displayed. 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" (page 20).

Play USB mode and the computer n To pause recording Press PLAY/PAUSE during recording. Recording is paused, and REC/M.TRACK flashes red. When REC/M.TRACK is pressed again, recording resumes.

File/Folder Control function settings Press MARK during recording. A mark is added at the point where the button was pressed. When "Auto Mark" in the preset menu is set to "On", a mark is added at the point where the recording is resumed from the paused status. n 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" (page 18) before starting recording.

For details on checking various setting details, see "Display" (page 5). Marks can be added during playback using the same operation. A maximum of 30 marks can be written to one file. Marks can also be added automatically. For details, see "Auto Mark" (page 12) in the preset menu. @@ For details, see the instruction manual on the included CD-ROM. Information Specifications Index 17 Operations during recording Recording time chart All of the recording times are approximate times. Differences occur between SD card made by different manufacturers. n Recording time Stereo file Setting PCM-16 (48kHz) PCM-16 (44.1kHz) MP3-320 MP3-256 MP3-192 MP3-128 MP3-64 Bitrate 1536 kbps 1411 kbps 320 kbps 256 kbps 192 kbps 128 kbps 64 kbps Recordable time (Hours: Minutes) 1GB 1:29 1:37 7:07 8:53 11:51 17:47 35:33 2GB 2:58 3:13 14:13 17:47 23:42 35:33 71:07 4GB 5:56 6:27 28:27 35:33 47:24 71:07 142:13 8GB 11:51 12:54 56:56 71:07 94:49 142:13 284:27 16GB 23:42 25:48 113:47 142:13 189:38 284:27 568:53 32GB 47:24 51:36 227:33 284:27 379:16 568:53 1136:07 Monaural file Setting PCM-16 (48kHz) PCM-16 (44.



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