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Note that the contents of this manual are subject to change without any notice to improve the product's features.
Please refer to the JNC URL for the updated information.

http://www .jnc-digital.com

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Chapter 1

Connecting the JNC to a PC

This chapter describes how to connect your JNC player that uses its on-board 32MB, or 64MB flash memory and a 16MB, 32MB, or 64MB Memory Card (SmartMedia Card) to a PC. This allows you to transfer MP3 files and or data files between your JNC player and your PC.

1. System Information
2. What's in the JNC Box
3. Using the Battery Compartment
4. Battery Status
5. Connecting the JNC Player to a PC

1.System Information

The minimum system requirements for your computer:

- Windows 95 (OSR 2.1), 98, 2000
- Pentium 100MHz or faster
- USB (Universal Serial Bus) Port
- CD-ROM drive
- 10MB free hard disk space
- 32MB RAM

2.What's in the JNC Box?

The JNC package comes with several extra components. Please check to be sure all the following items came in your box.

- JNC player (1)
- Universal Serial Bus (USB) cable (1)
- Remote Earphone (1)
- AA size 1.5V Alkaline battery (1)
- Installation CD (1)
- User's guide (1)

3.Using the Battery Compartment

The battery lid is located on the right side of the player. Push the battery lid out and then up to open the battery lid. The supplied battery is an AA size 1.5V Alkaline battery. Insert the Battery into the slot in accordance with positive and negative symbols matching those of the battery.

Note: You may use any 1.5V AA size batteries. Use of an Alkaline battery is recommended for more playback time. You may also use a rechargeable AA size 1.2V Ni-Ca or Ni-MH battery.

4.Battery Status

The following figure shows the battery status lamp.

The battery status indicator shows how much life remains on the JNC player. When the battery is at full strength, the battery shaped indicator is fully filled in. When the battery supply is nearly empty, only the outline appears and blinks. This is the sign that the battery life is almost over. You should replace the battery at this time. The battery status indicator will be displayed in a few seconds after the player is turned on. With a fresh Alkaline battery, the JNC playback will last longer than normal batteries.

5.Connecting the JNC Player to a PC

To complete setup, you should use the USB cable to connect the JNC player to your computer.

- Connect the square end of the USB cable to the USB Port on the right side of your player.

- Connect the rectangular end of the USB cable to any available USB port on your computer.

Note:1. Turn on the player before connecting the USB cable.

2. If the battery is not installed in the player, the USB cable power is used. When the USB cable is removed, the player's settings such as volume. bookmark, ...will not be saved.

Chapter 2

The Software Installation

This chapter describes how to install the JNC Manager software. The JNC Manager is the communication software that allows your computer to share information with your JNC. In order for your player to work properly, the JNC Manager software must be installed correctly under Windows 98 and 2000.

1. Installing USB Driver
2. Setting up the JNC Manager Software
3. Setting up the Wave Driver (ADPCM Driver)
4. Uninstalling the JNC Manager
5. Uninstalling the Wave Driver

1.Installing USB Drivers

JNC has a PnP (Plug and Play) feature that guides you to select the USB drivers when the player is connected with the provided USB cable. Following describes how to install USB drivers for the JNC player.

1.First of all, you must turn the JNC Player on. Connect the player with the PC using the provided USB cable. Then, the PC will automatically recognize that a device is connected with a USB cable. Click the Next button.

2.Select the lower item since you know the drivers to select. Click the Next Button.
Note: If the OS is Window 2000, select the ther item that lets the PC search for the best driver.

3.Click the "Have Disk" button since the USB drivers are in the Installation CD.

4.Insert the Installation CD into your CD-ROM drive. Click the "Browse" button to select the folder where the USB drivers are located.

5. Select the "usb driver" folder in the CD-ROM drive where the Installation CD is inserted. Then select the "SSF-881.inf" file. Click the OK button.

6. Press the OK button.

7.Select "JNC SSF-88l USB Driver" item. Then, click the Next button.

8.Click the Next button. Then necessary files will be copied into your hard disk and updated the driver information

.

9. Now the JNC SSF-88l USB Driver setup is completed. Press the Finish button.

10.If the USB driver setup is successful, the "My Computer/Control Panel/Device Manager/Universal serial bus controller" item will have "JNC SSF-881 USB Driver" item as shown in the figure.

Note: If you separate the USB cable from the Player, the above item will be disappeared.

2.Setting Up the JNC Manager Software

Following is the installation instruction for the JNC Manager software setup.

1.Insert the installation CD into your CD ROM drive (say "D:" is the name of your CD ROM drive). Then, the setup file will be automaticaly executed. If it does autorun follow #2.

2.From the Windows menu, click the "Start" menu, and then the "Run" item. " SETUP.EXE" is the setup file for the "JNC Manager" software. Now, enter "d:\setup.exe", Do not forget putting the double quotation marks around the name. Pressing the OK button will start the JNC Manager software installation.

3.From the "Welcome!" dialog box, click the "Next" button to continue the software installation.

4.If you want to change the destination directory to another directory other than the default in the dialog box, click the "Browse" button to select the directory where you wish to copy the JNC Manager files. Now, click the "Next" button to continue installation.

5.You can click the "Back" button to re-configure the installation information. To continue installation, click the "Next" button to start copying necessary files into the installation directory .

6.Wait while copying the necessary files for the JNC Manager.

7.Now, click the "Finish" button. This will finish the JNC Manager software setup. Note: If your system had an old version of the comctl32.dll file in the Windows System folder, the file will be replaced with a new version and you will have to restart your system to run the Manager software properly. If you did not install the driver as described in earlier section, you do not need to restart the computer.

8. The "JNC SSF-881" item will be created in the "/Start/Program/JNC SSF-881" menu on the Windows menu bar and an "JNC SSF-881" icon will be created on your Windows desktop.

9. You can start JNC Manager by either clicking the JNC SSF-881 item in the "/Start/Program/JNC SSF-881" menu or clicking the JNC SSF-881 icon on the Windows desktop.

3.Setting Up the Wave Driver (ADPCM Driver)

You do not need to install this ADPCM wave driver if you already installed the JNC Manager software as described in the above section.

This AOPCM driver setup is required for those who do not want to install the JNC Manager software and want to listen to only the voice recorded Wave files. If you want to send your voice recorded Wave files to someone who does not have JNC player, they have to install the AOPCM wave driver as described below to listen to the voice files. The AOPCM driver setup let you play the Wave files that were converted from the voice files that you recorded using the voice recording feature of the JNC player.

Following is the installation instruction for the JNC Manager software setup.

1. Insert the installation CO into your CO ROM drive (say "D:\" is the name of your CO ROM drive). The driver setup file is located in the "D:\AdpcmDriver" folder.

2. From the Windows menu, click the "Start" menu, and then the "Run" item.

"AdpcrnDriver.exe" is the setup file for the ADPCM driver. Now, enter "d:\adpcmdriver\adpcmdriver.exe" where "d:\adpcmdriver" is the folder containing the "AdpcmDriver.exe" file on your CD ROM drive. Do not forget to put he double quotation marks around the name. Pressing the OK button will start the ADPCM driver installation.

3. From the "Welcome!" dialog box, click the "Next" button to continue the software Installation.

4. If you want to change the destination directory to another directory other than the default in the dialog box, click the "Browse" button to select the directory where you wish to copy the JNC Manager files. Now, click the "Next" button to continue installation.

5. You can click the "Back" button to re-configure the installation information. To continue installation, click the "Next" button to start copying necessary files into the installation directory .

6. Wait while copying the necessary files.

7. Now, click the "Finish" button. This will finish the ADPCM driver setup.

8. The "Uninstall ADPCM drivers" item will be created in the "/Start/Program/ADPCM Driver" menu on the Windows menu bar.

4.Uninstalling the JNC Manager

To uninstall the JNC Manager software, select the "/Start/Programs/JNC SSF-88/Uninstall" item on the Windows menu bar. This will remove all JNC files from the JNC SSF-881 folder.

5.Uninstalling the Wave Drivers

If you want to uninstall the ADPCM driver from your system, select the "/Start/Programs/ADPCM Driver/Uninstal1 ADPCM Driver" item on the Windows menu bar.

Chapter 3

The JNC Software Operation

The JNC Manager is the software that interacts with the JNC player and a PC. MP3 files, voice files, any data files or Phone/Memo titles can be downloaded to the JNC player. However, you can upload the data files, recorded voice files, phone groups, memo titles or FM group to a PC from the JNC player.

1. Opening JNC Manager

2. JNC Manager Description

1.Opening JNC Manager

Double click on the JNC SSF-88l icon on the Windows desktop or select the "/Start/Programs/JNC SSF-88l/JNC SSF-88I" item on the Windows menu bar.

2.JNC Manager Description

The following figure shows how the JNC Manager software looks like. Each function is explained below.

1.Phone/Memo/FM	9.Rename	17.Upload to PC from Memory Card
2.Option	10.New Folder	18.Delete
3.Command Box	11.Refresh PC	19.Refresh Player
4.About	12.Initialize Flash Memory	20.Voice E-Mail
5.Cut	13.Download to Flash Memory	21.Local Display
6.Copy	14.Upload to PC from Flash Memory	22.Flash Memory Display
7 Paste	15. Initialize Memory Card	23.Memory Card Display
8 Delete	16. Download to Memory Card	24.ADPCM Files/Phone Groups/Memo Titles/FM Groups

1.Phone/Memo/FM Button

Brings up the Phone/Memo/FM dialog box where you can view and edit your personal Phone lists, Memos and FM presets. Phone numbers are stored in "groups", Memos are organized by "title" and FM presets are stored in "groups".

Note:(1)You can also access the Phone/Memo/FM dialog box by clicking "Tools/Memo/Phone".

(2) The player supports multi-languages. Contents of the Phone groups, Memo titles and FM groups will be displayed in any language as they were created using the JNC Manager. If you edited contents under the Korean Windows 98 operating system, the contents will be displayed in Korean on the player's LCD.

- **Creating Phone Groups, Memo Titles and FM Groups**

To create a new Phone group, Memo title or FM group, select the "Phone", "Memo", or "FM" folder in the bottom left hand comer of the JNC Manager window, then click the right mouse button. From the pop-up menu, select "New Phone", "New Memo", "New FM", respectively. Enter the name of the Phone group, Memo title, or FM group, then double-click to open it.

- **Viewing** & **Editing** a **Phone Group**

Click the "Group" drop down menu to select among the saved Phone groups,

Note: The default Phone groups are "Country Code" and "City Code (USA)."

- To add a new phone number, click Insert, The "Phone Number Input" dialog box will appear. Simply type in the new name and phone number in their respective fields and press OK.

- To change an item, highlight it and click Edit.
- To remove an item, highlight it and click Delete.
- To save changes to your Phone group, click Save.

- **Viewing & Editing a Memo Title**

Click the "Title" drop down menu to select among the saved Memo titles.

Note: The default Memo titles are "Gettysburg Address" and "World News."

- To edit a Memo or add text to a new Memo, simply click in the "Memo" field and begin typing.
- To save your changes, click Save.
- If you do not wish to save, click OK. A dialog box will ask you if you would like to save. Click "No."

- **Viewing & Editing a FM Group**

Click the "Group" drop down menu to select among the saved FM groups.

- To add a new FM preset name and its frequency, click Insert. The "FM Preset Input" dialog box will appear. Simply type in the new FM preset name and frequency in their respective fields and press OK.

- To change an item, highlight it and click Edit.

- To remove an item, highlight it and click Delete.

- To save changes to your FM group, click Save.

2.**"Option" button**

Brings up the Setup menu, which allows you to specify the path of an MP3 player and/or Wave player on your PC.

Note: You can also access the Setup dialog box by clicking "tool - Option."

When you double-click on an MP3 file listed in the JNC Manager, the specified MP3 player will launch and play the file. If no MP3 player is specified, the File Manager will use the system's default MP3 player.
You may also specify a Wave player. The voice files you record with the JNC player and transfer to your PC will be played through the specified wave player. If you do not specify a wave player, the system's default wave player will be used.

3.**Command Box**

"*.MP3" is the default command so only MP3 files will be displayed in the JNC Manager. You may also select the "*.*" command to display all files or specify the type of file you wish to display.

4. "About" button

Displays the JNC version and its copyright information.

5- 9. Cut, Copy, Paste, Delete, and Rename buttons

These buttons work similar to the commands in the Windows Explorer software. You can cut, copy, paste, delete, rename or move the file(s) you selected on the PC's display panel (local display panel). However, folder(s) will not be moved or copied.

Note: Neither the Memo folder nor the Phone folder can be renamed. The Memo titles and Phone groups can be renamed or deleted, but not duplicated.

10. "New Folder" button

Creates a new folder under the selected folder on the local display panel. Use this button to create a new Phone group or Memo title.

11. "Refresh PC" button

If the information in the PC has been changed, press the "Refresh PC" button to update the changes.

12. "Initialize" button for the flash memory

This will initialize the flash memory in the JNC player. All files stored in the flash memory in the JNC player will be erased. You can initialize the flash memory when for some reason the JNC player is not being recognized by the JNC Manager or when you use an updated version of the JNC Manager at the first time.

13, 14, 16, 17. Upload/Download buttons & "Drag and Drop" feature

MP3 files and Data files can be copied from your PC to either the Flash Memory or Memory Card. But Phone groups, Memo titles and only one FM group will be copied from the PC to only the Flash Memory. To copy these files, you can use:

- "Drag-and-Drop": Select the files(s) in the JNC Manager window (left) and drag them to the Flash Memory windows or Memory Card window (right) of the JNC Manager window.

- Download button: Select the files(s) in the JNC Manager window (left), then press the right arrow button.

To copy Data files or PCM files (Voice Recordings) from JNC to an open folder on your PC, you can use:

- "Drag-an-Drop" : Select the files(s) in the Flash Memory window or Memory Card window and drag them to the destination folder in the Local Display window of the JNC Manager windows (left).

- Upload button: Select the file(s) in the JNC player window, then press the left-facing arrow button.

Note: You must select a destination folder. If a file with the same name already exists in the destination folder, you will be prompted whether or not to overwrite the file.

Notes on Uploading Files

- MP3 files and Phone/Memo groups will not be copied to your PC. Only Data files and Voice files can be uploaded. The JNC Manager will not allow you to upload MP3 files due to copy protection laws.

- If JNC is turned off while copying (in purpose or due to low battery status), the player may contain the wrong header information for the transferred data. You might need to re-initialize JNC.

Changing the Order of MP3 files in Flash Memory or Memory Card of the JNC Player

- To change the order of Mp3 files in the Flash Memory or Memory Card of the JNC player, click on the MP3 file(s) you want to move, then drag them up or down the list to the position you want them to appear and release the mouse button.
- The order of Data files, PCM files, Phone groups, Memo titles, and FM groups will not be changed.

15. "Initialize" button for the Memory Card

This will initialize the Memory Card in the JNC player. All files stored in the Memory card will be erased. You can initialize the Memory Card when for some reason the Memory Card is not being recognized by the JNC Manager or after inserting a new Memory Card.

18. "Delete" button in the Flash Memory or in the Memory Card

Only the highlighted files in blue either in the Flash Memory or in the Memory Card will be deleted. The grayed files will not be deleted.

19. "Refresh Player" button

If the file information in the Flash Memory or the Memory Card of the JNC player has been changed, press the .'Refresh Player" button to update the changes. You should also press the "Refresh Player" button if you replaced the Memory Card.

20. "Voice E-Mail" button

The Voice E-mail function allows you to send the recorded voice file from your PC through e-mail if your system is capable of sending e-mails. Here is how to use the Voice E-mail function.

- ❖ Upload a recorded voice file from the player to your PC.
- ❖ Select the voice file from the PC. Then the Voice E-mail icon on the tool bar will be enabled.
- ❖ Click on the Voice E-mail icon.
- ❖ You will be asked to convert the voice file to a general wave file. Press OK. Then, the file will be converted into a normal wave file.
- ❖ Then, the Voice E-mail dialog box will be displayed. Enter a receiver's e-mail address, and other entries to send the e-mail. Then, click the Send button to send the wave file.

If your SMTP server that is used to send the e-mail was not set in your system, the converted voice file will not be sent and abort the Voice E-mail feature.

21. "Local Display" panel

Shows you the files stored on your PC, e.g. the MP3 files, Data files, Phone groups, and Memo titles that you want to copy to the player. The default "*.mp3" command will display only MP3 files in the opened folders. You may also select the "*.*" command to display all files or specify a file type to be displayed.

Selecting Multiple Files

- Hold down the "Ctrl" key while clicking the files you want to select.
- If you click a highlighted file, the file will be deselected.
- If you click a file while holding down the "Shift" key, the files between the first and last clicked file will be selected.
- The total size of the selected files will be displayed in the bottom area of the panel.

Note: The Phone group, Memo titles and only one FM group can be copied to the built-in Flash Memory. But they can not be copied into the Memory Card. Also note that voice recordings will be stored in the built-in Flash Memory only.

22. "Flash Memory Display" panel

The upper right panel of the JNC Manager is the Flash Memory display panel. All files stored in the Flash Memory of the JNC player will be displayed. "Total Memory" and "Free Memory" are displayed in kilobytes at the bottom of the Flash Memory Display panel. You can use these numbers to quickly determine how much flash memory is available to download additional files.

Note: The Phone group, Memo titles and only one FM group can be copied to the built-in Flash Memory. But they can not be copied into the Memory Card. Also note that voice recordings will be stored in the built-in Flash Memory only.

23. "Memory Card Display" panel

The lower right panel of the JNC Manager is the Memory Card display panel. All files stored in the Memory Card of the JNC player will be displayed. "Total Memory" and "Free Memory" are displayed in kilobytes at the bottom of the Memory Card Display panel. You can use these numbers to quickly determine how much memory in the Memory Card is available to download additional files.

24. ADPCM Files/Phone Groups/Memo Titles/FM Groups

ADPCM files are the Voice files recorded using the built-in microphone. You can upload ADPCM files to your PC, play them through any standard Wave player like Windows Media Player. Please refer to the "Tools/Option" menu to set a software Wave player or MP3 player.

Note: Memo titles and Phone groups can not be uploaded to the PC. However, the FM group can be uploaded to the FM folder in the PC display panel so that you can edit the FM preset names.

MP3 file info

You can modify file descriptions, also known as ID3 tags, for any MP3 file selected in the local display panel by selecting "Tool/MP3 Info" from the JNC Manager menu. Press the " Add" button to replace the ID3 tag information of the selected MP3 file with the revised ID3 tag information. Press the Remove button to delete the ID3 tag information from the selected MP3 file.

Note : The file name displayed on the JNC LCD will be the Title and/or Artist name if they are contained in the 103 tag of the MP3 files, If the 103 tag does not contain the Title and/or Artist name, only the MP3 file name excluding the MP3 extension will be displayed on the LCD.

25. Firmware Upgrade (Optional)

Upgrading the firmware is an optional feature of the player. You may upgrade the player's firmware if your player is capable of upgrading it. Following describes how to upgrade the firmware.

(I) From the menu bar, click the "Tools/Update Firmware" item, then the file open dialog box will appear. Select the firmware file that you want to upgrade. Note that the firmware file will be provided on our web site.

(II) Once you select the firmware file, the player will update the firmware.

(III) Wait until the player updates the firmware.

(IV) Press OK when updating the firmware is done.

You can get the recent firmware from the www.jnc-digital.com web site

Chapter 4

The JNC Player Operation

This chapter provides an overview of the JNC player and LCD screen. It is important to remember that JNC has 5 primary function modes: MP3 function mode (where you view and play stored MP3 files). Voice function mode (where you record and play voice recording files), FM function mode (where you preset and tunes FM channels), Memo function mode (where you browse the Memo titles), and Phone function mode (where you browse the phone groups). The front panel keys have different functions in each mode.

1. JNC Player Overview 2. Display Overview

2. JNC Player Operation

3. Remote Earphone Operation

1.JNC Player Overview

The following illustration shows the various parts of the JNC player. Its features and functions are described below.

1.**REC** (Record Button) -Allows you to record your voice through the built-in microphone. Pressing the REC button will start a voice recording and pressing the button again will stop the voice recording.

Note. The recorded data will be stored in the built-in Flash Memory, not in the Memory Card.

2.**FUNC** (Function Button) -Pressing FUNC repeatedly to change the Function mode to one of the following:

- MP3 : MP3 playback function mode
- VOX : Voice recording/playback function mode
- FM : FM preset/tuning function mode
- MEM : Memo browsing function mode
- TEL : Telephone browsing function mode

3. **MODE** -During the playback of the MP3 and Voice, press the Mode button to change the Repeat Status to one of the followings:

- **Normal** - Plays all stored MP3 songs or Voice files in order, then stops after the last song.
- **Repeat** - Plays the current song over and over.

- **Repeat All** - Plays all stored MP3 songs over and over in order.
- **Random** - Plays an stored MP3 songs or Voice files in random order.
- **Random Repeat All** - Plays an stored MP3 songs or Voice files in random order, then repeats over and over.

In the Stop mode of the MP3 and Voice, press the Mode button to see the Status Information; Total Flash Memory size, available Flash Memory size, total Memory Card size, available Memory Card size, Genre type, FM band, etc.

4.ERASE/BOOKMARK/A « B -On the Stop mode, erases the current MP3 file, Voice file, FM preset, Memo title, or Phone group. During an MP3 or Voice playback, sets and repeats the A-B area or bookmark. You can also set a bookmark for a FM preset. The bookmark will be removed when deleting a file or removing the SmartMedia card.

5,EARPHONE -Connects JNC to headphones or headsets. You may use the remote earphone which is an optional product provided by Jebsen & Co., Ltd.

6.LED (Recording Indicator) -Blinks while recording also blinks when the player is turned on.

7.LCD -Liquid Crystal Display. Displays the current status of JNC.

8.12. "+/-" -In the MP3 and Voice playback mode or FM mode, increases /decreases the playback volume. In the Memo mode, increases/decreases the scrolling speed of the Memo contents.

9.PLAY/STOP -Holding down this button will turn the player on. If you want to turn it off, hold down the button again. In the MP3 and Voice playback mode, this button plays or stops the current MP3 song or Voice file. In the Memo mode, displays and scrolls the contents of the Memo title.

10,11. PREY/NEXT (Previous and Next Button) -In the MP3 function mode, Voice playback function mode, FM function mode, Memo function mode, Phone function mode and FM function mode, selects the previous or next MP3 song, Voice file, FM preset channel, Memo title, Phone group, or FM preset. In the FM tuning mode, decreases/increases the FM frequency by 0.1MHz or 0.05MHz step depending on countries to which the player was set. Holding down the key win seek the previous or next FM frequency automatically.

13. BATTERY COMPARTMENT -1.5V AA Alkaline battery or a rechargeable AA size 1.2V Ni-Ca or Ni-MH battery can be used.

14. EQ (Equalizer Button) -During the MP3 playback, changes the Equalization Preset to one of the following:

- **Normal:** Normal sound setting
- **Classic:** Optimized sound setting for Classical music
- **Jazz:** Optimized sound setting for Jazz music
- **Pop:** Optimized sound setting for Pop music
- **Rock:** Optimized sound setting for Rock music In the FM mode, changes the sound to mono or stereo.

15.HOLD -Disables the buttons on the player. This can help to ensure safe playback while jogging or performing other activities which might bump the controls, or to prevent accidental operation after putting the player to sleep.

16.USB PORT (Universal Serial Bus Port Socket) -Connects the player to the PC's USB port.

17.MEMORY CARD SLOT -A 3.3V SmartMedia-Card of 16MB, 32MB or 64MB can be used within this slot.

Note: SV SmartMedia-Card can not be used!

The JNC player has to be turned off before inserting a Memory card. After inserting a Memory card, you have to refresh or initialize the JNC using the JNC Manager software.

- Inserting a Memory Card
  As shown on the back of the player , insert the Memory Card into the slot toward the arrow direction. Make sure the cutting edge matches to the figure on the back of the player. Also make sure the card is properly inserted. If it is not, the Memory Card will not be recognized.

- Removing the Memory Card
  Slide the Eject knob on the back of the player upward. Then, the Memory Card will be ejected.

18. MIC (Microphone) -Records your voice and other ambient sound. Excellent for recording lectures or meetings.

2.Display Overview

1.Function Mode Display - Displays the Function Mode name. Pressing the Function key will display the Function Mode name as follows:

- **MP3** **:** MP3 playback mode
- **VOX** **:** Voice playback/record mode
- **FM** **:** FM tuning/preset mode
- **MEM** **:** Memo browsing mode
- **TEL** **:** Telephone browsing mode

2.Track Number -The current track number over the total track number for the MP3 songs. Voice files and FM preset channels is displayed.

3.Time/FM Frequency Status -Shows the current time status: elapsed time, total time, or FM frequency.

4. Title Display -Displays the artist and name of the current MP3 song, Voice file name, FM preset channel name, Memo title or it's contents, Phone group name or it's contents, and any necessary comments.

- **MP3 file name** **:** 28 alphabets displays.
- **Voice file name** **:** 8 alphabets displays.
- **FM preset name:** 14 alphabets displays.
- **Memo title** **:** 14 alphabets displays.
- **Memo contents** **:** 4096 alphabets displays.
- **Phone group, phone name, phone number:** 14 alphabets displays.

5. Bitrate - Shows the bitrate of the current MP3 song.

6. Volume Indicator -Indicates the volume level that ranges 0 to 20.

7. Animation Icon -Animates as performing the playback, fast backward, fast forward, stop, and recording.

8.Battery Indicator -Graphically displays the amount of battery power remaining.

9.Bookmark -Indicates that the Bookmark is set. Bookmark function will work only during the playback of the current MP3 song or Voice file or listening to the FM.

- **Setting the Bookmark**
  During a playback of MP3 file or Voice file or listening to the FM, double-click the Erase/Bookmark/A « B button. Then the bookmark position will be set and the bookmark icon will be enabled.
  Note: If you set a Bookmark, then the A « B Repeat function that was previously set will be disabled. If you delete a file or remove the Small Media card, the bookmark will be disabled.

- **Playing the Bookmark**
  After setting the Bookmark, pressing the Erase/Bookmark/A « B button once will start playing the current MP3 song. Voice file from the bookmark position or go to the FM preset.
- **Disabling the Bookmark**
  Double-click the erase/Bookmark/A « B button if a bookmark was set.

	Erase/Bookmark/A↔B	Bookmark Action (during playback)
1	Double-click	Sets the bookmark (starting position)
2	Single-click	Starts the playback from the bookmark position
3	Double-click	Disables the bookmark

10. A « B Repeat -Indicates that an A ↔ Repeat is set and repeats playback between the A ↔ B Repeat area. The A ↔ B Repeat will work only during the playback of the current MP3 song or Voice file.

- **Setting the A « B Repeat**
  During the playback of the current MP3 file or Voice file, press the Erase/Bookmark/A « B button once. Then the starting position of the A ↔B Repeat will be set if an A ↔B Repeat was not set previously. Note that the "A ↔" icon is displayed and the letter "B" is blinking to indicate to set the end position of the A « B Repeat area. Pressing the Erase/Bookmark/A ↔B button again will mark the end position of the A ↔B Repeat area. Then playback will start and repeat from the starting position of the A ↔B Repeat area to the end position. Note: If the end position is placed before the starting position, the end position will not be set. If the end of the MP3 song or Voice file is reached, the end position will be automatically the end of the file.

- **Playing the A « B Repeat**
  As soon as the end position of the A « B Repeat is set, the A ↔ B Repeat will begin.

- **Disabling the A « B Repeat**
  If you press the Erase/Bookmark/A ↔B button once during the playback of the A ↔ B Repeat area, the A ↔B Repeat function will be disabled. Stopping the playback or selecting other track will also disable the A↔B Repeat.

	Erase/Bookmark/A↔B Button	A↔B Repeat Action
1	Single-click	Sets the starting position of the A↔B Repeat
2	Single-click	Sets the end position of the A↔B Repeat and starts playback of the A↔B Repeat area
3	Single-click	Disables the A↔B Repeat

11. Repeat Status Icon -Graphically indicates the Repeat and Random status

3.JNC Player Operation

JNC is much more than a music player. This section introduces special features of JNC including playing MP3 songs and Voice files, recording voice, tuning FM channels, and browsing Phone groups and Memo titles.

- **Power On**
  Press and hold down the Play/Stop button. Then, the player will be turned on and return to the function mode that was used when the previous power was off.

- **.Auto Power Off**
  Press and hold down the Play/Stop button again. The player will be turn off automatically 30 seconds after stopping an MP3 music or Voice file.

3-1. MP3 PLAYBACK

Press the FUNC key until the "MP3" letters are displayed on the upper left comer of the LCD. Then a screen like the following will appear .

- **Selecting an MP3 file**
  Use the Previous or Next button to select an MP3 file. Then the track number, total playback time, bitrate, and the file name will be displayed.

- **Starting Playback**
  Press the Play/Stop button. If there is more than one MP3 file, the player will play them all until playback is stopped.
- **Stopping Playback**
  Press the Play/Stop button again during a playback. To delete an MP3 file, see the instruction in the Erasing Files section.

Note: The following file information is shown on the display using a sample data.

- **"MP3"** - Indicates that your are in the MP3 mode.
- **'"01-09"** - The file's track number followed by the total number of files; e.g. the first of nine MP3 files.
- **"005:23"** - Length of the MP3 file in minutes and seconds. During playback, the time resets to 000:00, then counts the seconds.
- **"128 Kbps"** - The bitrate of the current MP3 tile.
- **"House of the Rising"** -The MP3 Title and/or Artist name if that name information is included in the ill3 tag of the MP3 file. If the ill3 tag does not include the Title and/or Artist name, the LCD will display the MP3 file name only excluding the MP3 extension.

  Note: For setting the Repeat type, A-B Repeat and Bookmark, please see the Display Overview section above.

3-2. Voice Playback

Press the FUNC key until the "VOX" letters are displayed on the upper left comer of the LCD. Then a screen like the following will appear.

- **Selecting a Voice Recording file**
  Use the Previous or Next button to select a voice recording file. Then the track number, total playback time, and the voice recording file name will be displayed.
- **Starting Playback**
  Press the Play/Stop button. If there is more than one voice recording file, the player will play them all until playback is stopped.

- **Stopping Playback**
  Press the Play/Stop button again during playback. To delete a voice recording file, see the instruction in the Erasing Files section.

Note: The following file information is shown on the display using a sample data.

- **"VOX"** -Indicates that your are in the Voice mode.
- **"01-09"** -The file's track number followed by the total number of files; e.g. the first of nine Voice files.
- **"005:23"** -Length of the Voice file in minutes and seconds. During playback, the time resets to 000:00, then counts the seconds.
- **"Voice File: 05"** -Indicates the voice file name with the current voice file track number.

3-3. VOICE RECORDING

Voice recordings will be done only in the Voice Stop mode. 1MB of a voice recording will take about 4 minutes of voice recording time. Press the FUNC key until the "VOX" letters are displayed on the upper left corner of the LCD. Then a screen like the following will appear.

- **Beginning a voice recording**

  Press the REC button to start a voice recording. The Voice file name will be created automatically.

  Note: the LED located in the center just above the LCD will be blinking while recording.

- **Stopping the voice recording**

  Press the REC button again during a voice recording. The LED stops blinking. Recording will stop and the file will be saved automatically. The filename that will be stored in the JNC Manager will be "Voice File xx" where xx is the next available smallest file number.

Note: To play the recorded voice file. see Voice Playback section.

Voice recording files will be stored only in the built-in Flash Memory. The removable Memory Card will not be used for storing voice recording files. The maximum number of voice recordings files is 99.

3-4. FM FUNCTION MODE

The FM function mode lets you listen to the FM preset channels that were previously set or are currently seeking. Press the FUNC key until the "FM" letters are displayed on the upper left comer of the LCD. Then a screen like the following will appear. Frequency of the FM preset channel that was used in the last time will be loaded and received.

Note: The maximum number of FM presets you can use are 20.

- **Selecting a FM Preset Channel**
  Press the Next or Previous button, then the next or previous available FM preset channel will be displayed and its frequency will be received. To seek a next or previous FM frequency automatically. hold down the Next or Previous button.

Auto tuning FM Frequency
During the tuning mode, holding down the Next or Previous button will automatically search the next or previous FM frequency.

- **Setting FM Stereo/Mono**
  Press the EQ button, the FM Stereo and Mono toggle. If Stereo is set, the letters "Str" will be displayed below the volume level icon.
  Note: The following file information is shown on the display using an FM preset channel.

  - **"FM"** -Indicates that your are in the FM mode.
  - **'"01-05"** -The current FM preset channel number followed by the total number of FM presets; e.g. the first FM preset channel is selected among the five FM resets. The maximum number of FM presets are 20. You can create the FM presets using the player or you can also edit the FM presets using the JNC Manager.
  - **"107.70"** -The FM frequency in MHz being received.
  - **"FM Preset: 01"** -Indicates the name of the first FM preset channel. You may edit this FM preset channel name using the JNC Manager.

3-5. Setting FM Presets

First of all, as described in the FM section above, change to the FM function mode by pressing the FUNC key if you are in other function mode like MP3, Voice, Memo, or Phone mode. In the FM function mode, press the MODE button once. Then, you are ready to seek and set a FM frequency.

Seeking a FM frequency
To seek a FM frequency manually, press the Next or Previous button to increase
or decrease the frequency by a 0.1MHz or 0.05MHz step depending on countries to which the player was set. To seek the next or previous FM frequency automatically, press and hold down the Next or Previous button.

Saving the sought FM frequency

After seeking a FM frequency, press the Record button to save the sought FM frequency in an appropriate FM preset number. The FM frequency is stored in ascending order and then the FM preset numbers will be re-organized. If you do not want to save, press any button other than the Play/Stop, Next and Previous button. To continue setting FM presets, seek a FM frequency, and save it as described above.

- **Returning to the FM tuning mode**

Press the FUNC key once. Then you will be on the FM tuning mode.

- **Setting FM Frequency band mode**

There are three FM frequency band modes with different frequency ranges and increasing/decreasing steps.

(I) Korea and US mode
Range: 87.5MHz-108MHz Step : 100KHz
(2) Japan mode
Range: 76MHz-90MHz Step : 100KHz
(3) Worldwide mode
Range: 76MHz-108MHz Step : 50KHz

To change the FM frequency band mode, hold down the Mode button for more than 5 seconds and release the button from the FM mode. Then one of the three modes above will be set.

Note: Once you changed the FM frequency band mode, all preset information will be erased!

3-6. Browsing Memo Title

Using the player, you can browse contents of the Memo titles that were created using the JNC Manager and transferred to the player.

Note: Contents in different languages can be displayed on the LCD of the player.

Press the FUNC button until the "MEM" letters are displayed on the upper left comer of the LCD. Then the first Memo title will be loaded. A screen will look like the figure.

The above screen describes the "Gettysburg Address" is the first Memo title of the 5 Memo titles.

- **Selecting a Memo Title**
  Press the Next or Previous button. Then the next or previous Memo title will be displayed.

- **Viewing contents of the selected Memo title**

  After selecting a Memo title, press the Play/Stop button. Then the contents of the selected Memo title will be displayed and scrolled to the left. To stop scrolling the contents, press the Play/Stop button again. To select a Memo title, press the FUNC button.

- **Setting the scrolling speed**
  Press the "+" or "-" button, then scrolling speed will be increased or decreased by 1 level. Higher the value, faster the scrolling speed. The scrolling speed ranges from 1 to 10.

- **Returning to the Memo title**
  Press the FUNC button while scrolling content of the Memo title. If you are returned to the Memo title, pressing the FUNC button will change to the Phone mode to let you browse the Phone groups and their contents. Please see the next section, "Browsing Phone Group".

3-7. Browsing Phone Group

Using the player, you can browse contents of the Phone groups that were created using the JNC Manager and transferred to the player.

Note: Contents in different languages can be displayed on the LCD of the player.

Method of browsing a Phone group is similar to "Browsing Memo title" section above. Press the FUNC button until the "TEL" letters are displayed on the upper left comer of the LCD. Then the first Phone title will be loaded. A screen will look like the figure.

The above screen describes that the "Office" is the first Phone group of the 5 Phone groups.

- **Selecting a Phone group**
  Press the Next or Previous button. Then the next or previous Phone group will be displayed.

- **Selecting a phone name of the Phone group**
  After selecting a Phone group, press the Play/Stop button. Then the first phone names in the selected Phone group will be displayed. To select the next or previous phone name, press the Next or Previous button. The selected phone name will be displayed. If you want to select a Phone group, press the FUNC button

- **Viewing the phone number of the selected phone name**
  After selecting a phone name, press the Play/Stop button. Then the phone number of the selected phone name will be displayed, and scrolled if the phone number is long and does not fit into the display line. If you want to select a Phone name, press the FUNC button.

- **Returning to the Phone group**
  Press the FUNC button until a Phone group name is displayed on the screen. If you are returned to the Phone group, pressing the FUNC button will change to the MP3 mode (next function mode) which will let you enjoy the digital MP3 songs.

3-8. Erasing Files

You can erase unnecessary MP3 files, Voice files, FM groups including FM presets, Phone groups, or Memo titles from the player. Erasing will be done when no files are being played. Following sections describe how to erase files according to each Function mode.

- **Erasing MP3 files / Voice files**
  Press the FUNC button until you get into the MP3 mode or VOX mode. Select an MP3 file or Voice file by pressing the Next or Previous button. After selecting the MP3 file or Voice file you want to erase, make sure the MP3 or Voice playback is stopped. **Double-click** the ERASE button. Then you will be asked to confirm erasing as shown in the figure.

While "Erase? Yes=Play, No=Others" is being displayed, press the **Play/Stop button to confirm erasing.** Then, "Erasing..." will be show shortly while erasing the file.

To cancel erasing the file, press any other button.

- **Erasing FM presets**

Press the FUNC button until you get into the FM function mode. Select a FM preset by pressing the Next or Previous button. Press the stop button. **Double-click** the ERASE button. Then you will be asked to confirm erasing as shown in the figure.

While "Erase? Yes=Play, No=Others" is being displayed, press the **Play/Stop button to confirm erasing.** Then, "Erasing..." will be shown shortly while erasing the FM preset. **To cancel erasing the FM preset, press any other button.**

- **Erasing Memo titles/Phone groups**

Press the FUNC button until you get into the Memo mode or Phone mode. Select a Memo title or Phone group by pressing the Next or Previous button. After selecting the Memo title or Phone group you want to erase, double-click the ERASE button. Then you will be asked to confirm erasing as shown in the figure.

While "Erase? Yes=Play, No=Others" is being displayed, press the **Play/Stop button to confirm erasing.** Then, "Erasing..." will be shown shortly while erasing the Memo Title or Phone group

To cancel erasing the FM preset, press any other button.

3-9. Status Information

From the Stop state where no MP3 songs or Voice files are being played, the following status information will be displayed in the Title Display area as you press the MODE button:

- "**T Flash xxx MB"** - where xxx is the total memory size in Megabytes of the built-in Flash Memory.
- **"A Flash xxxMB"** - where xxx is the available memory size of the built-in Flash Memory.
- **"T SMC xxxMB"** - where xxx is the total memory size in Megabytes of the removable Memory Card.
- **"A SMC xxxMB"** - where xxx is the available memory size of the removable Memory Card.
- **"Genre xxxxxxx"** - where xxxxxxx is the genre type (Normal, Classic, Jazz, Pop) for MP3 songs.

4.Remote Earphone Operation

The remote earphone will work only with the MP3 playback, Voice files playback and FM tuning. Other features will not work.

1.Hold Switch

Disables the buttons on the front of the remote earphone. This can help to ensure a safe playback and prevent accidental operation. The buttons of the player will work even though the Hold switch is on while the player's Hold switch is on.

2.Next Button

In the MP3 or Voice mode, skips to the next song. In the FM function mode, skips to the next FM preset channel number.

3. Previous Button

In the MP3 or Voice mode, skips to the previous song. In the FM function mode, skips to the previous FM preset channel number.

4. Play/Pause Button

In the MP3 or Voice playback mode, pressing the button will pause the playback at the current position. In the MP3 or Voice stop mode, pressing this button will start playing from the paused position or stopped position. In the FM tuning mode, pressing this button will mute the FM station. So, you will not hear any sound. Pressing the button again will un-mute.

Changing Function Mode

Holding down the Play/Pause button will change the function mode in order as follows:

→ MP3 mode → Voice mode → FM mode →

When the mode is changed to MP3 or Voice, the MP3 song or Voice file will be played automatically. For the FM mode, the FM preset channel will be tuned.

5. Stop Button

In the MP3 or Voice playback mode, stops the playback and returns to the beginning of the current file. So, the current file will play from the beginning when the Play button is pressed.

Turning the Player Off

Holding down the Stop button will put the player to sleep. Turning the Player On Press any key other then the stop key on the remote earphone. Then the player will be turned on and return to the function mode that was used when the previous power was off.

6. Rotary Volume

Controls the volume level.

Chapter 5

JNC General Information and Specifications

This chapter describes what JNC is about. The characteristics and specifications are explained.

I. What Is JNC

2. How Does JNC Work?

3. Characteristics -Advantages of JNC

4. Product Specifications

1.What is JNC ?

JNC is a palm size audio device that uses no moving parts for playback and lets you enjoy a high quality sound product that uses MPEGl Layer 3, a standard compression method providing an excellent quality audio. In short, JNC is the portable palm size MP3, audio player that does not use tapes or CDs.

MP3 is a well known , high quality digital audio format. MP3 files can be compressed up to 1/12 of the original wave file size. You can get thousands of MP3 files without leaving your home or waiting in long lines in record stores. Just download the files legally from anywhere in the world through your Internet connection. You should have to pay for the downloaded MP3 files to the MP3 provider. The files may then be transferred to your player and listened to on your home stereo, in your car, on the beach, or anywhere you wish to go! Also, you can make your own CD quality MP3 files from your audio CDs or WAV files with the use of the MP3 encoder software.

2.How Does JNC Work ?

You'll need to have MP3 files stored on your computer connected to the JNC player with a Universal Serial Bus (USB) cable.

Using the provided JNC Manager software, select the MP3 files you wish to transfer from your PC to the JNC. You can transfer songs or data files from your PC to your JNC via USB port with the supplied USB cable. However, due to the copy protection, the MP3 files are not allowed to upload from your JNC to your PC! You can copy only the data files except the MP3 files from the JNC to the PC.
Using JNC as a data storage device is another great benefit of the JNC product features. When transferring large data from PC to PC, you can carry an equivalent of more than 40 floppy disks! A floppy diskette can carry only 1.44 MB of data, but you can carry as many as the built-in memory plus the size of the Memory Card.

3. Characteristics – Advantages of JNC

1.Excellent quality sound

JNC plays MP3 files, the high quality digital audio files whose size can be compressed from 40-50MB to about 4MB without losing any part of the original sound. JNC guarantees the pure sound while handling, exercising and jogging.

2. Onboard 32MB/64MB flash memory and optional Memory Card of 16MB, 32MB, or 64MB

JNC uses its built-in 32MB/64MB flash memory and provides a Memory Card slot for more portable memory storage. Store MP3 files in the Memory Cards, and enjoy them with JNC by replacing the Memory Card.

3. Easy drag-and-drop feature for downloading MP3 and data files.

JNC allows you to select and enjoy your own favorite MP3 files made from your audio CDs or downloaded from Internet. With the drag-and-drop feature, JNC lets you easily download music or data files from your PC to JNC. However you can upload only the data files from JNC to your PC.

4. Shock-free player

JNC does not require a physical mechanism such as cassette tapes or CDs. It is semi-permanent unlike others that use such shock-sensitive mechanism.

5. Compact, lightweight and portable

JNC is small and light enough to fit in your pocket and provides the respectability without any sound distortion while you are jogging, cycling, working out, or doing any other dynamic activities.

6. Use for a language purpose

JNC helps you study different languages with MP3 files encoded for such language purposes like story books and news broadcasts.

7. Use as a data storage

The on-board 32MB/64MB flash memory and optional Memory Card can be used to store not only MP3 files but also any data files such as doc, gif, txt, bmp, wav, etc.

8. Low power consumption
An AA size 1.5V Alkaline battery is recommended for longer playback time.
9. Save your money

You can get thousands of songs at a fraction of CD prices from various MP3 Internet providers via the innovative Try & Buy program without leaving home! You can buy only one song at a time, no more buying a CD for the one or two songs you want.
10. Copy protection

JNC will allow you to copy only the data files from the JNC player to your PC. MP3 files will not be copied from the JNC player to the PC.

4.Product Specifications

1.JNC Player

Storage Media	: Built-in 32MB, or 64MB flash memory.
	: Memory Card connector (I) for a removable 3.3-V 16MB, 32MB, or 64MB SmartMedia Card.
Dimension	: 57.5mm(W) x 83.6mm(L) x 17.2mm(H)
	: 22.6" (W) x 32.9" (L) x 6.8" (H)
Weight	: 74g (2.61 oz) Without Battery
Display	: Graphic Display LCD (112 dots x 16 dots, 24 dots x 8 dots, and icons)
	: Song numbers, playback time, file name (in various language), etc.
PC Interface	: USB cable.
Power	: A single AA 1.5V Alkaline battery
Max. Output	: Earphone; 5.OmW x 2
Frequency Range	: 20Hz -20KHz
Others	: Memory Card slot
	: Battery compartment
	:USB cable connector.
	:Earphone connector; 3.5 PH.
	: Play/Stop, Next, Previous, Volume, Function, Mode, Erase and Equalization button.
	: Hold switch.

2. Accessories

-AA size 1.5V Alkaline battery (I)
-Universal Serial Bus cable (I)
-Installation CD (I)
-Remote Earphone (I)

Chapter 6

Appendix

This Appendix chapter shows the precautions and warranty conditions for the JNC product.

1. Precautions
2. Warranty Conditions
3. Characteristics – Advantages of JNC
4. Trouble Shootings

1.Precautions

Following statements are the precautions that the users should always keep in mind. Any violation of one or more of the following precautions may cause damage and will void the warranty.

Upgrades

The on-board 32MB/64MB flash memory is not upgradable. However, you can use a removable 3.3 Volt 16MB, 32MB, or 64MB SmartMedia Card.

A void heat, moisture and static electricity.

To maintain good performance, do not use the unit in places which are extremely hot, cold, dusty, or humid. In particular do not keep the unit in a high humidity area such as a bathroom, near a heater or in an area exposed to direct sunlight (e.g., inside a parked car). Be careful because it may become extremely hot. When you carry the batteries in your pocket, do not put other metal objects in your pocket, such as coins or keys. Friction caused from the metal and the batteries rubbing together may cause a fire.

Caution or impact

Do not drop the JNC player or allow any sharp impact. This may cause serious damage to the player.

Chemicals

Do not use chemicals to clean the player. This may change the color of the player or damage the surface. Use a soft towel to clean the surface of the player.

Batteries

If the battery wears out, it is time to replace with a new battery.

2.Warranty Conditions

Who is Protected

This warranty protects the original consumer owner of this JNC product and is non-transferable.

What is Covered and How Long

This warranty covers the cost of replacing internal operating parts and service/labor to repair or replace those parts. Each JNC product is covered for 90 days labor and 90 days parts, from the date of purchase, defined as follows:

(I) Original Consumer Retail Purchase,

(II) first Rental Purchase Agreement, or

(III) First Lease Purchase Agreement (the "Warranty Period"). Labor and replacement parts supplied during the Warranty Period are covered only for the remaining portion of the original Warranty Period. The Jebsen & Co., Ltd Warranty Administrator and its JNC distributors shall have no liability for service under this warranty if non-OEM (Original Equipment Manufacturer) replacement parts are used in the repair of your JNC product.

Other Warranty Coverage

Commercial, Industrial or Educational use has the same warranty coverage as stated in this warranty.

What are the Exceptions

This warranty does not cover: (I) damage from misuse, abuse neglect or accident, natural disasters, or Acts of God; (2) cabinetry, decorative parts, knobs, or buttons; (3) an JNC product which has been electronically or mechanically modified in any way or incorporated into other products; (4) installation and set-up service adjustments; or (5) owner instruction. Your Owner's Guide provides information regarding operating instructions and user controls. For additional information, contact your authorized JNC dealer. This Exclusive Limited Warranty excludes all incidental and consequential damages. Some states do not allow the exclusion of incidental and consequential damages, so the above exclusion may not apply to you.

ALL IMPLIED W ARRANTIES, INCLUDING IMPLIED W ARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE LIMITED IN DURATION TO THE DURATION OF TIS WARRANTY PERIOD.

Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you. This Exclusive Limited Warranty gives you specific legal right and you may also have other rights which vary from state to state.

3.Trouble Shooting

THE BUTTONS ARE NOT WORKING

- Check to see if the battery is inserted with the proper polarities (+/-).
- Check to see if the battery needs replacement.
- Check to see if the "Hold" button is on. Release the Hold button.
- Check to see if the memory status is all right. Initialize the JNC player using the JNC Manager.
- Try reinserting the battery. Sometimes, you will need to reinsert the battery. This will re-initialize the player.

I CAN NOT DOWLOAD FILES

- Be sure the USB cable is properly connected to your PC and the JNC player.
- Be sure the USB drivers are installed properly.
- Be sure there is enough available memory on the player. Check the remaining memory level and check the size of the files stored on the player.
- Check if the battery is low. If so, you may replace the battery.

I LOST SOME OF MY DATA

- Some data may be damaged due to power instability while downloading files. If so, initialize the JNC memory using the JNC Manager.
- Jebsen & Co., Ltd. will not be responsible for lost or damaged data downloaded to your JNC.
- We recommend you backup your data in a safe place such as a hard drive, CD-ROM, Zip.

HOW DO CASSETTE ADAPTERS WORK?

- You may use a cassette adapter for a car stereo system to listen to the JNC. Connect the plug of the cassette adapter with the earphone jack of the JNC player and insert the cassette adapter in the car stereo player.

HOW IS THE A V AILABLE MEMORY SIZE DISPLAYED?

- The memory chip on the JNC player is composed of blocks, each of which can be 16KB, or 32KB, depending on the type of flash memory. A whole block will be used, even when you are only trying to store a one-byte file. Therefore, even though the selected files on the local panel show less than the available size on the player, you still may not be able to download the files to the player.

HOW DO I UPGRADE THE MEMORY?

- The 32MB, or 64MB flash memory is already built-in the JNC player. Thus you are not allowed to upgrade the built-in flash memory. However, you may use the removable memory slot for a 16MB, 32MB, or 64MB Memory Card (3.3 Volt SmartMedia Card). The JNC player must be turned off before you replace the Memory Card.

WHY DOES THE VOLUME CHANGE FOR DIFFERENT SONGS?

- MP3 files will play at different volume levels depending on how they were made. If you made an MP3 file at a high volume level, it will be played louder than the MP3 files made at a lower volume level.

HOW IS THE A V AILABLE MEMORY SIZE ON THE JNC DISPLA YED?

- A memory chip on the JNC is composed of blocks each of which can be 16KB, or 32KB depending on the flash memory type. A whole block will be used although you try to store one byte file. Thus, even though the selected files on the local panel shows less than the available size on the JNC, you may not be able to download the files to the JNC.

HOW DO I GET A DETAIL INFORMATION ABOUT MP3 FILES ?

- Please visit the JNC home page at http://www.jnc-digital.com
- You can obtain the latest information on JNC including a growing number of legal MP3 Internet sites and updated Q&A.

WHY CAN'T I UPLOAD MP3 FILES FROM THE PLAYER TO THE PC?

- The upload feature for MP3 files is disabled to prevent violation of copy protection laws; however, you may upload other types of files.

WHY DOES MY DISPLA Y APPEAR WEAK?

- The battery has run down and is in need of replacement.

HOW MANY MINUTES OF MP3 FILES CAN THE JNC PLAYER HOLD?

- It depends on the memory size of the JNC. 1MB of memory will take about I minute of the near CD quality sound playback. Thus the JNC player with 64MB or 32MB memory can hold approximately for 64 minutes, or 32 minutes of the near CD quality sound MP3 files respectively.

WHEN DO I NEED TO REPLACE THE BA TTERY?

- When the battery is consumed, the battery indicator on the LCD becomes empty and will begin blinking. When the battery is nearly empty, you may have a strange sound. It is time to replace the battery.

WHAT KIND OF BATTERY SHOULD I USE?

- The battery should be AA size. You can use an Alkaline battery for more playback time. You may also use a rechargeable AA size 1.2 V Ni-Ca or Ni-MH battery.

THE PLAYER WORKED WELL BUT THE MANAGER SOFTWARE CAN NOT RECOGNIZE

- If you had no problem communication with the player previously, it may happen that the JNC player can not be recognized by the JNC Manager program. In this case, initialize the player by clicking the Initialize button. Also, check if the USB driver is correctly installed.

JNC CAN NOT BE RECOGNIZED

Make sure you installed the Universal Serial Bus (USB) drivers. Please refer to the Chapter 2, Installing USB Drivers section for more information for installing the USB drivers. Reconnect the USB cable to the player and wait for the Windows detect the USB driver.