SPINN

Enhanced Digital Radio **+** TV Multimedia Player

iriver

User's Guide

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iriver

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Components
Components are subject to change without notice and may vary from images shown.

SPINN

Earphones

Quick Start Guide & Warranty Card

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USB Cable
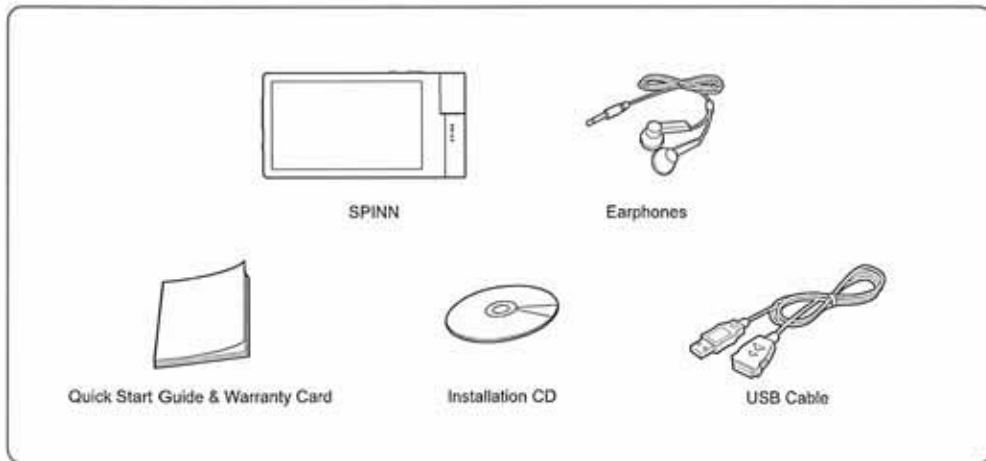
Locating the Controls

LCD   MIC   Back   HOLD   OK   RESET

Volume +

Volume -

Power

USB jack   Earphone jack
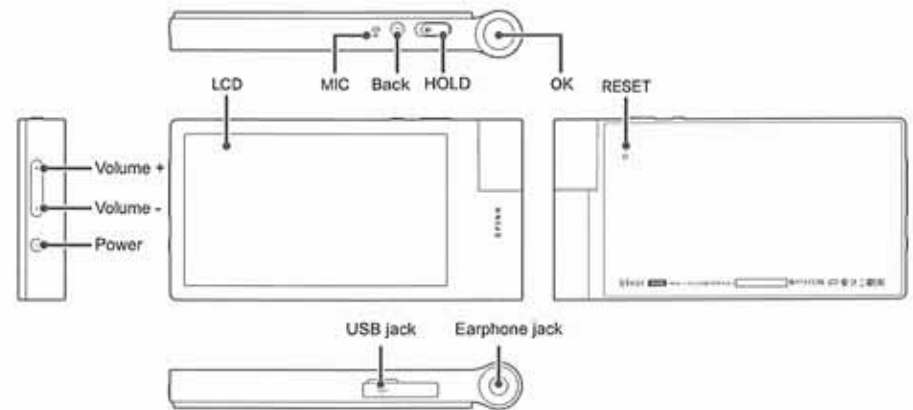
LCD Display

|While recording voice|

Current status

Current time   Battery

Now Recording

Elapsed recording time

Recorded file name

Remaining recording time

|While listening to FM radio|

Frequency indicator   PRESET On/Off

91.9 MHz

Current frequency   Channel number
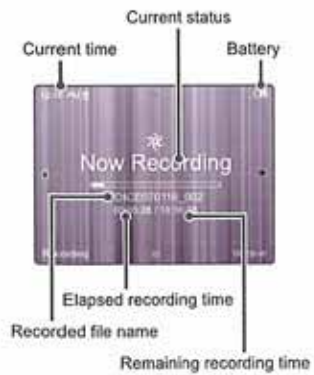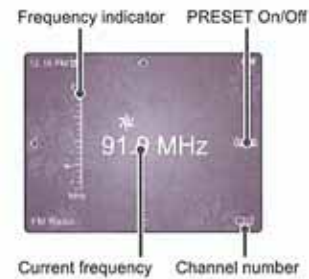
LCD Display

|While playing music|

Album information   Play mode

Album picture   Equalizer

Rating   Progress bar

File name/information   Next file   Playing time
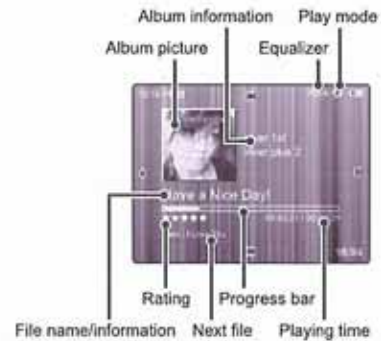
|while watching DMB or listening DAB service|

Signal level

Current broadcasting channel
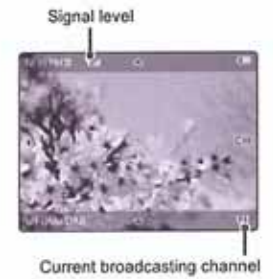
Installing iriver plus 3

iriver plus 3 is an integrated software that efficiently manages music, video and picture files.
iriver plus 3 gives you freedom to transfer music, video and picture files from PC to the product.

1. Insert the installation CD to your PC to display the installation process screen.

2. Select iriver plus 3 and click the [Install] button. Complete the installation process following the on-screen instructions.

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Note

■ Minimum requirements for using iriver plus 3
  · Intel® Pentium® II 233 MHz or higher processor speed   · Windows® 2000/XP   · 64MB or above memory
  · 30MB or above hard disk space   · 16 bit enabled speaker and sound card
  · Microsoft Internet Explorer version 6.0 or later   · SVGA or high resolution monitor (1024x768 resolution or higher)
■ For more information on using iriver plus 3, refer to page 38 - 40.

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Chapter 2
Basic Operations

Turning on/off the Player

1. Press the [⏻] button on the product to turn it on.
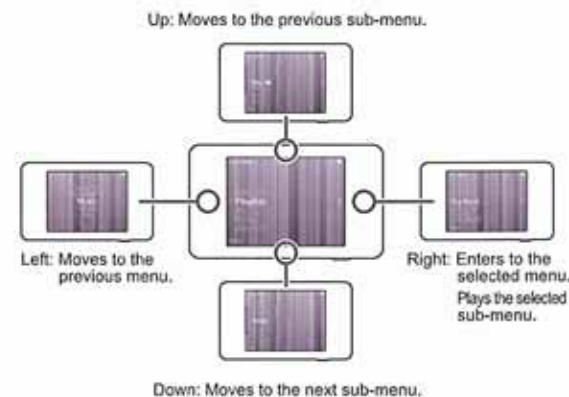
2. Press and hold the [⏻] button on the product to turn it off.

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- This product has an automatic power saving function to save battery power. Based on the setting in power saving mode, the product will be automatically turned off after designated period without operation. For more information on setting this mode, refer to [Settings > Timer > Auto Power off]. (Refer to page 35.)
- Based on this setting, the way to turn on the product and battery consumption rate will be changed. For more information on setting this mode, refer to [Settings > Advanced > Power Off Type]. (Refer to page 36.)
  - Sleep
    - When turn on the product, the last used function will be displayed.
    - The battery will be consumed slightly in this mode.
  - Power Off
    - When turn on the product, the main screen will be displayed. The start-up time will be slightly taken to read all stored files.
    - The battery will not be consumed when powered off.

iriver D-Click System™

1. The SPINN has an unique operating system named iriver D-Click System™.
   To operate the product, press down on the edge of the screen in one of four directions.

Up: Moves to the previous sub-menu.

Left: Moves to the previous menu.

Right: Enters to the selected menu.
Plays the selected sub-menu.

Down: Moves to the next sub-menu.

- Four arrows will be changed into different shapes based on the functions in each menu.
- Press and hold [LEFT] to return to the [Home] menu.
- In different menus, press and hold [RIGHT] to display the screen of current playing music.
- While playing file, press and hold [RIGHT] to display the additional features.

Using HOLD

1. Slide the HOLD switch to right to enable the HOLD function.

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Note

* Volume control is available while the HOLD function is turned on.

Connecting Products

| Connecting Earphones to the SPINN |

1. Connect the earphones to the jack of the product.

| Using Antenna |

1. To enhance signal reception performance of DMB/DAB broadcasting, pull out the antenna to the full.

Note

* If signal reception performance is poor, pull out and reorient or relocate the receiving antenna.
* Be sure to check the direction when you fold the antenna. If you fold the antenna to improper direction with excessive power, it can be damaged.
* Do not bend the antenna with excessive power to avoid damage.
* Keep the antenna away from children to avoid eye injury by prick.
* Keep the antenna away from electric sources such as power outlet.

| Charging the Battery |

1. Turn on your PC and connect the SPINN to it using the USB cable.

Note

* While the product is connected to PC using the USB cable, the integrated battery is will be charged automatically.
* Do not use any other USB cable that is not provided with the product. It may case a malfunction.
* Check if the B20 is connected to a high-power USB 2.0 port. Some low-power USB ports built in some peripheral devices such as certain keyboards and USB hub without integrated power may not provide enough power to charge.
* While the PC is switched to standby mode, the product may not be charged.
* Charge the product only in room temperature. The product may not be charged in extremely hot and cold place.
* The available usage time of charged battery becomes gradually short after some time.
* It will be fully charged within 3 hours. (Based on fully discharged and stop mode)
* The charging time might be extended when you use the product while charging.

Connecting Products

| Inserting/Removing Mini SD Card |

1. Open the card slot cover after turning off the product.

2. Insert and slightly press a Mini SD card to the direction as shown below.

3. Press the card again to remove it.

Note

- Be sure to insert/remove a Mini SD card after turning off the product.
- Do not use excessive power to insert a Mini SD card. It can cause a malfunction of the product or a damage of Mini SD card.
- Do not remove a Mini SD card while it is being used. It can cause a deletion of data, malfunction of the product or a damage of Mini SD card.
- Do not insert or remove a Mini SD card repeatedly.
- If you insert a Mini SD card improperly, it can cause a malfunction of the product or the card cannot be removed.

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| Recommended Types of Mini SD Card |

Brand	SanDisk, LG

Note

- **Device may not be working with all Mini SD cards. Please follow our recommendation. Check iriver homepage for updates.**
- **Transfer speed of Mini SD card is subject to change depending on PC.**
- Always backup valuable data first since formatting Mini SD card will delete all data in the card.
- Do not turn off the product or remove a Mini SD card while it is being formatted. It can cause a malfunction of the product and a damage of Mini SD card.
- It is recommended to format a Mini SD card as a FAT32 system in case the size is less than 2GB.
- If a Mini SD card was formatted by the product, reset the product after disconnecting a USB cable and connect the cable again.
- Format the Mini SD card when it is not detected or causes a malfunction.
- Mini SD card is not enclosed with the product. Please purchase it separately.
- The B20 supports a Mini SD card up to 2GB.

Connecting Products

| Connecting the SPINN to your PC |

1. Press the [⏻] button on the product to turn it on.

2. Turn on your PC and connect the SPINN to it using the USB cable.

3. If it is properly connected, the LCD will be shown as below.

USB Connected

Connecting Products

| Copying File/Folder (Using as a removable disk) |

Copying file/folder to the product

1. After selecting the file/folder in your PC, drag & drop it to the drive which appears as the product.

Deleting file/folder from the product

1. After selecting the file/folder, click it with the right mouse button and select [Delete].

2. Click [Yes] in the [Confirm File Delete/Confirm Folder Delete] popup window to delete the file/folder.

> **Note**
>
> • Always properly connect the USB cable.
> • When you transfer data using the USB cable, never disconnect it or turn off the power to protect your data from damage.

Connecting Products

| Disconnecting the SPINN from your PC |

1. Click the icon on the taskbar to disconnect the product using the "Safely Remove Hardware" menu.

2. Click the [Stop] button to confirm disconnection.
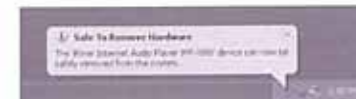
> **Note**
>
> • The icon on the taskbar may be hidden in some operating systems. Click "Show hidden icons" to display the hidden icon.
> • The "Safely Remove Hardware" may not be available while using some applications such as Windows Explorer or Windows Media Player.
>   Close all applications first before performing the "Safely Remove Hardware".
> • If the "Safely Remove Hardware" is not performed properly, try it after a few minutes.

Extras | Recording

| Recording |

1. Select [Extras-Recordings] in the [Home] menu.

2. In Standby mode, press [RIGHT] to start recording and press it again to stop recording.

| Additional Features |

In Standby mode, press and hold [RIGHT] to display the additional features.

• Saved Recordings: Displays the list of recorded files. Press [UP/DOWN] to select the file and press [RIGHT] to play it.
  ◈ When a Mini SD card is inserted, you can display the file list by selecting [Internal Memory / External Memory].
• Voice Recording Quality: Sets the quality of recorded voice.
• Voice Detector: Records voice only when sound can be detected.

Note

• You cannot control the volume while recording.
• If the remaining memory space or power is not enough, the recording will be automatically stopped.
• The recorded file will be saved in the Recordings/Voice folder as following formats.
  (YY: Year, MM: Month, DD: Day, XXX: Sequential number)
  Internal memory: VOICEYYMMDD_XXX.MP3
  External memory: E_VOICEYYMMDD_XXX.MP3
• The designated path for recorded file can be set in [Settings > Advanced > Recording File Save Location]. (Refer to page 36.)
• The file size per one minute varies by the recording quality. Low: Approximately 250 KB / Middle: Approximately 500 KB High: Approximately 1MB

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Extras | Alarm Clock

| Set Alarm Time |

1. Select the [Extras-Alarm Clock] in the [Home] menu.

2. Press [RIGHT] to activate/deactivate alarm clock.

| Additional Features |

Press and hold [RIGHT] to display the additional features.

• Show Icons: Selects whether the icons will be displayed or not in the [Alarm Clock] menu.
• Set Alarm Time: Sets the time of alarm clock.
  [RIGHT] – Switches between sub-menus.
  [UP/DOWN] – Sets the sub-menu.
• Set Quick Alarm: Automatically turns on after designated time.
• Select Alarm Type: Selects the type of alarm to be operated.
• Alarm Volume: Sets the sound volume.
• Alarm Duration: Sets the duration of alarming sound.

Extras | Flash Games You can play various contents and flash games.

| Playing Flash Games |

1. Select [Extras – Flash Games] in the [Home] menu.

2. In game list, press [UP/DOWN] to select the contents and press [RIGHT] to play a game.

Note

- When a Mini SD card is inserted, you can display the game list by selecting [Internal Memory / External Memory].
- Key function settings are subject to change depending on contents.
- If you start flash game while listening to music, music will stop and the flash game will be played.

Extras | Text You can read text file conveniently.

| Selecting Text |

1. Select [Extras-Texts] in the [Home] menu.

2. In text list, press [UP/DOWN] to select the file and press [RIGHT] to display the text file.

| Viewing text |

- Press [UP/DOWN] to scroll up or down.
- Press [RIGHT] to start or stop the automatic scroll function.
- Press [LEFT] to display the list of texts.
- If you stop viewing text, the last displayed page will be stored. (You can store 10 pages for latest 10 text files.)

| Additional Features |

While reading text, press and hold [RIGHT] to display the additional features.

- Show Icons: Selects whether the icons will be displayed or not in the [Texts] menu.
- Auto Scroll Speed: Sets the scroll speed.
- Text View Type: Selects amount to be scrolled when pressing [UP/DOWN].
- Font Size: Selects the size of font.
- Text Language: Selects the proper language for foreign text.

Note

- When a Mini SD card is inserted, you can display the text list by selecting [Internal Memory / External Memory].
- The automatic scroll will be deactivated when the [Text View Type] is set to [Percent].
- If texts are not displayed properly, check the language setting in the [Text Language].

Extras | Browse Device You can manually check and play various media saved in B20.

| Browsing Device |

1. Select [Extras-Browse Device] in the [Home] menu.
2. In file (folder) list, press [UP/DOWN] to select the previous/next file (folder).

3. Press [RIGHT] to move to a sub-folder or play the selected file.

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Note

- When a Mini SD card is inserted, you can display the file (folder) list by selecting [Internal Memory / External Memory].
- To play the file transferred by Windows Explorer (without using iriver plus 3), follow the steps below.
  · Music file
    : In [Settings > Advanced > Music Browse Type], set the type to [File Tree] and browse the file in the [Music] menu.
    : Browse and play the file in [Extras > Browse Device].
  · Picture file
    : Browse and play the file in [Extras > Browse Device].

| Deleting file |

1. After selecting the file, press and hold [RIGHT].

Note

- You cannot delete the file which is currently being played.

FM Radio

| Listening to FM radio |

1. Select [FM Radio] from the [Home] menu.
2. Press [Up/Down] to select the broadcasting station.

| Scanning FM Radio Station |

- After deactivating Preset by pressing [RIGHT], press [UP/DOWN] to move to the previous/next frequency.
- After deactivating Preset by pressing [RIGHT], press and hold [UP/DOWN] to move to the available previous/next frequency.
- After activating Preset by pressing [RIGHT], press [UP/DOWN] to move to the previous/next preset radio station.

| Additional Features |

While listening to FM Radio, press and hold [RIGHT] to display the additional features.
- Recordings: Records the radio broadcasting which you are listening to.
- Saved FM Recording: Displays the list of recorded files. Press [UP/DOWN] to select the file and press [RIGHT] to play it.
  ⊕ When a Mini SD card is inserted, you can display the file list by selecting [Internal Memory / External Memory]
- FM Recording Quality: Sets the recording quality of radio broadcasting.

| Additional Features |

- Save Preset/Delete Preset: Stores the current frequency to the channel. If the frequency is already stored, the existing channel will be deleted.
- Stereo/Mono: Switches the radio reception mode between Stereo/Mono.
- Auto Preset: Automatically scans and stores frequencies to the channels. Up to 30 channels can be stored.
- Tuner Region: Sets the frequency range based on local standard.
  - Korea / US: 87.5~108.0MHz
  - Japan: 76.0~108.0MHz - Europe: 87.50~108.00MHz
- Speaker On/Off: Selects whether you will activate or deactivate speaker.
  ⊕ The cord of earphones functions as an antenna during radio reception with speaker.

Note

- If the remaining memory space or power is not enough, the recording will be automatically stopped.
- The recorded file will be saved in the Recordings/FM Radio folder as following format. (YY: Year, MM: Month, DD: Day, XXX: Sequential number)
  Internal memory: TUNERYYMMDD_XXX.MP3
  External memory: E_TUNERYYMMDD_XXX.MP3
- The designated path for recorded file can be set in [Settings > Advanced > Recording File Save Location]. (Refer to page 36.)
- The file size per one minute varies by the recording quality.
  Low: Approximately 250 KB   Middle: Approximately 500 KB
  High: Approximately 1MB

Now Playing

| Displaying Now Playing Music Screen |

1. Select [Now Playing] in the [Home] menu.
2. The screen of currently playing music will be displayed.

Note

- You can display the same screen by pressing and holding [RIGHT] in the menu screen.

Music

| Selecting Music |

1. Select [Music] in the [Home] menu.
2. Press [UP/DOWN] to select the music file and press [RIGHT] to play it.

| Listening to Music |

- Press the [+/−] button to control the volume.
- While playing music, press [RIGHT] to pause/resume.
- While playing music, press and hold [UP/DOWN] to play fast forward or fast reverse.
- While playing music, press [UP/DOWN] to play the previous/next music.

Note

- Max. playtime: Approximately 27 hours (based on MP3, 128 Kbps, 44.1 KHz, Volume level 20, EQ Normal, LCD off)
- The browsed result will be changed based on the setting in [Settings > Advanced > Music Browse Type]. (Refer to page 36.)
  - Database: Browses file by Playlists, Artists, Songs, Albums and Genres.
  - File Tree: Browses music file by folder.
    ❖ When a Mini SD card is inserted, you can display the file (folder) list by selecting [Internal Memory / External Memory].
- You can manage your own playlist using iriver plus 3.

| Additional Features |

While playing music, press and hold [RIGHT] to display the additional features.

- Play mode: Selects the play mode which decides the playing order.
- Add to Quick List: Adds selected music to the Quick List.
- Select EQ: Selects the EQ to be used for playing music.
- Rate: Classifies your favorite music by star ratings.
- Scan Speed: Sets the speed of fast forward and fast reverse.
- Playback Speed: Sets the speed of music playback.
- Lyric Display: Shows/hides lyric. It is available only when the music file contains lyric information.
  ❖ It only supports Korean.

Note

- If [Settings > Advanced > Music Browse Type] is set to [File Tree], [Add to Quick List] and [Rate] will not be displayed.

Videos

| Selecting Video |

1. Select [Videos] in the [Home] menu.
2. In a video list, press [UP/DOWN] to select the video file and press [RIGHT] to play it.

| Watching Video |

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- Press the [+/−] button to control the volume.
- While playing music, press [RIGHT] to pause/resume.
- While playing video, press and hold [UP/DOWN] to play fast forward or fast reverse.

Note

- When a Mini SD card is inserted, you can display the video list by selecting [Internal Memory / External Memory].

| Additional Features |

While playing video, press and hold [RIGHT] to display the additional features.

- Scan Speed: Sets the speed of fast forward and fast reverse.
- Resume: Selects whether the video is resumed from the last played point or from the beginning of a file when the player was stopped.
- Sequential Play: When there are files with related names, selects whether those are played with sequential order or not.

Note

- Max. playtime: Approximately 5 hours (based on 320×240 @30fps, video: 384 kbps, audio: MP3, 128 kbps, 44.1 KHz) Max. play time is subject to change depending on video type.
- Be sure to use iriver plus 3 when you transfer video file. Otherwise, unexpected errors might be happened during video playback.

Playing Podcast File

What is Podcast?

Podcast is a brand new customizable personal media that user can download and enjoy favorite programs without waiting for broadcasting schedule. Podcast provides portable media player users with various kinds of audio and video files including news, dramas and other media contents. For more information, please visit http://www.podcastready.com.

Transferring Podcast file to the product

To transfer Podcast file to the product, you need to use Podcast Manager.
Use the application with the Podcast icon on iriver plus 3.

Playing Podcast File

1. Select [Music > Podcast] in the [Home] menu.
2. Press [UP/DOWN] to select the downloaded audio file and press [RIGHT] to play it.

Recovering Podcast

If you format the product, all system files of Podcast will be deleted.
To recover those files, use the [Recovering Podcast] menu.

1. After connecting the product to the USB jack of your PC using the USB cable, run iriver plus 3.
2. Select [Tools > Portable Device > Recovering Podcast] to start the recovery process.
3. When the recovery process is successfully completed, disconnect and reconnect the product from/to your PC. Now the Podcast icon is displayed on the product.

Using Bluetooth

Register a Bluetooth-compliant stereo headset with your player before you can configure the wireless connection. When done, you can listen to the music through the Bluetooth headset.

| Bluetooth Specification |

The performance of a Bluetooth device can vary, depending on the specification.
This product is compliant with the standard Bluetooth specifications.

1. Specifications for certain purposes: In general, the transmission output is great, causing less reduction of the signal strength but requiring more power from the battery.

2. Standard Specifications: The transmission output is comparatively low, which causes more reduction of the signal strength but minimizes the power consumption to increase the useful time.

Note

- The Bluetooth device can cause a noise or malfunction, depending on the use conditions.
  - Electrical interference from a physical contact on the product, for instance, if you take the product on the one hand and wear the stereo headset.
  - From a physical contact on the transmitter or receiver of the product or the stereo headset
  - Electrical variation from electrical jamming by the wall, corner or office partitioning
  - Electrical interference from the same frequency-band devices including medical equipment, microwave oven and wireless LAN.
- The longer the distance between the product and the stereo headset is, the quality will be deteriorated in proportion and if the distance exceeds a certain range, the wireless networking is disconnected.
- When pairing the Bluetooth device with the product, make it within a short distance as possible.
- You are not recommended to use text and photo view modes while listening to the music with the headset. Otherwise, it can cause a delayed response of the button operation and interference with the Bluetooth communications.

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Chapter 4
Setting up the SPINN

Setting up the SPINN
You can configure your own settings in the SPINN.
The menu configurations are subject to change with different firmware versions.

| Date & Time |

- Date & Time: Sets the current time and date.
  [RIGHT] – Switches between sub-menus.
  [UP/DOWN] – Sets the sub-menu.

| Sound |

- Custom EQ: Changes levels of each frequency range to create your own equalization.
- SRS WOW HD: Sets the levels of 3D sound effect.
  - SRS : Customizes SRS 3D sound effects.
  - TruBass : Customizes the bass sound level.
  - FOCUS : Sets the clarity of sound.
  - WOW : Sets the proper boost level by earphone model.
  - Definition : Recovers reduced sound to original level.
- Fade-In: Volume increases gradually when playback starts.

| Display |

- Display Orientation: Reverses the screen 90 degrees.
- Wallpaper: Configures wallpaper settings.
- LCD Brightness: Changes the brightness of display.
- Theme: Selects a screen saver.
- Fonts: Changes the font to be displayed.
  ⊕ To support proper recovery, set [Advanced > Select USB Mode] to [Power & Data] when you set up the theme and font.
- Save UCI: Saves user defined theme and font to the product.

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Setting up the SPINN

| Smart Key |

Configures function to be assigned to the Smart Key.

- A-B Repeat: Plays between point A and B repeatedly.
- Home: Returns to [Home] menu while operating the product.
- Play/Pause: Plays/pauses current playing music or video.
- Shuffle: Randomly plays music or video.
- Display Orientation: Reverses the screen 90 degrees.
- Start/Stop Recording: Starts/stops recording.
- LCD On/Off: Turns on or off the LCD.

| Timer |

- Auto Power off: Automatically turns the power off after designated time without operation.
- Sleep: Automatically turns the power off after designated time.
- Backlight: Sets the time that the backlight is turned on.

Setting up the SPINN

| Advanced |

* Language: Selects the language for your convenience.
* Sort: Determines the order of files.
* Text Scroll Speed: Sets the scroll speed of characters when file information is too long to display at one time.
* Rebuild Library: Recreates the library data of a file.
* Antenna Type: Sets the antenna type to use.
   ◈ If you use earphones as an antenna, the signal might be weaker than using external antenna.
* DMB/DAB Band: Sets the DMB/DAB band by country.
   ◈ L-Band setting needs the external antenna to receive signal.
   - Band3 : Europe   - Band3 Korea : Korea
   - Band3 China : China (Beijing, Guangzhou)
   - L-Band : China (Shanghai), Europe
   - L-Band Canada : Canada
   - Band3 + L-Band : To scan both Band3 and L-Band at a time in Europe
* Select USB Mode: Selects the USB connection type to your PC.
   - Power & Data: When the USB connection is made, the product is also connected to PC.
   - Power & Play: When the USB connection is made, the [Connect USB] message will be displayed in the [Home] menu. Select [Connect USB] and press [RIGHT] to connect the product to your PC.
* Format Device: Deletes all data in the product.
* Music Browse Type: Selects the type for browsing music.

| Advanced |

   - Database: Using ID3, TAG or Playlist function, browse music files transferred by applications (iriver plus 3).
   - File Tree: Browses music files transferred by Windows Explorer.
   ◈ The default browse type is set to [Database].
* Connection Type: Select the type for transferring file to PC.
   - MSC (UMS): Using iriver plus 3, transfers file with the MSC connection type.
   ◈ **Mass Storage Class (MSC) is a traditional UMS type.**
   - DMB/DAB: Uses a DMB/DAB service using iriver plus 3.
* Recording File Save Location: Selects the location of recorded file between internal and external memory.
* Power Off Type: Selects the type for turning off the player.
   - Sleep: When turn on the product, the last used function will be displayed.
   - Power Off: When turn on the product, the main screen will be displayed. The warming up time will be slightly taken to read all stored files.
* System Information: Displays system information of the product.
* Reset All Settings: Resets the product to the factory setting.

| About |

* About: Displays information of the product.

Contents

Using iriver plus 3

| Adding Media to Library |

1. When you run iriver plus 3 for the first time, the Add Media Wizard will start.

2. Follow the on-screen instructions on the PC to add media files such as music and picture to the library.

| Ripping Songs from a CD |

1. Insert an audio CD into the CD drive and run iriver plus 3.

2. In iriver plus 3, select the checkbox from [Music > CD Drive] and click [CD Ripping] in bottom left.

3. After ripping song, select the [All Music] to check whether the ripped song is added to the library.

Using iriver plus 3

| Transferring Media to the iriver SPINN |

Using iriver plus 3

1. After connecting the product to the USB jack of your PC using the USB cable, run iriver plus 3.
2. Select the checkbox beside the file to transfer and click [⬤].
3. The selected file starts to transfer and the progress status is displayed in the Status window on bottom left.
4. Now you can find the selected music in your library.

Using Windows Explorer

1. Connect the product to the USB jack of your PC using the USB cable.

2. Copy the contents to proper folders as below.
   - Text: iriver SPINN/Texts
   - Music: iriver SPINN/Music
   - Picture: iriver SPINN/Pictures
   - Video: iriver SPINN/Video

Note

• The supported file formats are listed below.

Type	Extension	Format	
Flash	SWF	Flash file type	Adobe Flash Lite 2.1
Game	SWF	Frame rate	Less than 15 frames/sec.
		Audio	ADPCM or MP3 128Kbps, Less than 44.1 KHz
Text	TXT	Unicode text, Local code text	
Music	MP3, WMA	8~320Kbps	
	OGG	Q1~Q10	

Type	Extension		Format
Picture	JPG		Baseline JPG (Progressive JPG is not supported.)
Video	AVI	Video	MPEG4 SP(Simple Profile), Less than 30 frames/sec. 2Mbps
		Resolution	QVGA(320X240)
		Audio	Supports MP3 up to 320 Kbps, 44.1 Khz is recommended, CBR
	WMV	Video	WMV9 SP, Less than 30 frames/sec. 768 Kbps
		Resolution	QVGA(320X240)
		Audio	Supports WMA up to 320 Kbps

Safety Instructions

| Product Safety |

- Do not display a same image on the screen for certain amount of time since it may cause ghost effect.
- Do not place objects inside the device other than CD's.
  It may cause malfunction.
- Do not place heavy objects on the player.
  It may cause damage and malfunction.
- Do not dampen your player with rain (water), beverage, chemicals, cosmetics and so on.
  It may cause damage and malfunction.
- Keep away from harsh environments including humid, dusty, and smoky areas.
  It may cause malfunction.
- Keep out of direct sunlight and extreme heat and cold.
  It may cause malfunction.
- Do not keep the product close to magnetic substance such as magnet, TV, monitor and speaker.
  It may cause malfunction.

- Never dismantle, repair, or rebuild your player without permission.
  It may cause damage and malfunction.
- Do not clean with chemical or detergent.
  It may cause malfunction.
- Do not drop or subject the device to impact.
  It may cause damage and malfunction.
- Do not press more than two buttons altogether.
  It may cause damage and malfunction.
- Do not disconnect the USB cable while transferring data.
  It may cause malfunction.
- Try to connect the product to the rear USB port in your PC. In some individually assembled PCs, improper USB port may cause malfunction.
- Do not connect any other device or object to the Earphone jack except for earphones.
  It may cause damage and malfunction.

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Safety Instructions

| Other important things to remember |

- Do not use headphones / earphones while cycling, driving, or operating any motorized vehicle.
  It is dangerous and is illegal in some areas.
- Do not use the product while moving including driving, walking or mountain climbing.
  It may cause injury.
- Use the product in a safe place to avoid accident.
  It may cause injury.
- Always be careful not to be tumbled by nearby objects when you use the product while moving.
  It may cause injury.
- It is not recommended to use the product during electrical storms.
  It may cause injury.
- Do not bend an antenna with excessive power to avoid damage.
  It may cause injury.

- Keep the antenna away from electric sources such as power outlet.
  It may cause injury.
- Reduce volume or stop using the player if you experience a ringing in your ears.
  It may cause injury.
- Do not listen to music via headphone/earphone with high volume for a long time.
  It may cause injury.
- Do not use headphone / earphones at high volume.
  It may cause injury.
- Keep headphone-/earphone cords under control to avoid getting caught on nearby objects.
  It may cause injury.
- Do not sleep with headphones / earphones in the ears. Do not use headphones / earphones for excessive periods of time.
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Safety Instruction.

CAUTION

Risk of explosion if battery is replaced by an incorrect type.

Dispose of used batteries according to the instructions.

"This transmitter must not be co-located or operating in conjunction

With any other antenna or transmitter."

CAUTION

Antenna shall be mounted in such a manner to minimize the potential

For human contact during normal operation.

The antenna should not be contacted during operation to avoid

The possibility of exceeding the FCC radio frequency exposure limit.

Troubleshooting

| Please check out! |

* The player will not power on!
  - Check whether the battery is discharged. Charge the product using USB cable and check it again.
  - Insert a thin and pointed object (such as a straightened paper clip) into the reset hole to reset the device.
* The product cannot be charged after connecting power.
  - Check whether the USB cable is firmly connected.
* The battery power is consumed even though the product is turned off.
  - Check whether you are using certain functions such as alarm or FM Recording.
  - Check whether the setting in [Settings > Advanced > Power Off Type] is set to [Sleep]. The battery power is slightly consumed in [Sleep] mode.
* The signal reception performance for DMB/DAB is poor.
  - The channel scanning time might be longer if the signal is weak or not provided in that area. DMB/DAB service might not be available in a null point such as basement or inside a building.
  - DMB/DAB service might not be available in some districts. Be sure to check whether DMB/DAB service is covered in that area.
  - The quality of DMB/DAB service is subject to change depending on the conversion status provided by broadcasting service provider.

* The LCD display is turned off frequently.
  - To save power consumption, the LCD is designed to be turned off after designated time. Set up the duration in [Settings > Timer > Backlight].
* The product cannot be connected properly using the USB cable.
  - Check whether the USB cable is firmly connected.
* Poor radio or DMB/DAB service reception with heavy noise!
  - Check whether the earphones jack is dirty.
  - Check whether an earphone is connected.
  - Adjust the position of the player and earphones.
  - Turn off any nearby electronic equipment to avoid potential interference.
* No sound during playback!
  - Check whether the volume is set to "0".
  - Check whether the plug or connection jack of earphones is dirty.
  - Check whether the music file is corrupted.
* The memory space is changed after formatting.
  - The memory space can be changed depending on the operating system.
* The start-up time is too long.
  - Check whether too many files are stored in the product. It is recommended to store 1,000 music files and 2000 picture files.

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Federal Communications Commission (FCC)

* Caution :
  Any changes or modifications in construction of this device which are not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

* This device complies with part 15 of the FCC Rules.

* Operation is subject to the following two Conditions :
  (1) This device may not cause harmful interference, and
  (2) this device must accept any interference received, including interference that may cause undesired operation.

Note

* This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Riles. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment 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 equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged 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 equipment into an outlet on a circuit different from that to which the receiver is connected.
  - Consult the dealer or an experienced radio/TV technician for help.