

YP-R1 user manual

MP3 Player

Draft 01 2009. 04. 21 YP-R1 0.57 EU

- For safety information, see page 1. Comply with all precautions to avoid dangerous situations and ensure peak performance of your MP3 player.
- Your MP3 player and display may differ from the illustrations in this manual.

Using this manual

- Some of the contents in this manual may differ from your MP3 player depending on the software installed. Some of the contents may be changed without prior notice. You can view the latest version of the manual on the Samsung website (http://www.samsungmobile.com/).
- To view the special features of your MP3 player, see "Special features of your MP3 player."
- To view troubleshooting, see "Troubleshooting."

Icons used in this manual

Icon	Function	
Notes, usage tips, or additional information		
Caution Safety warnings and precautions		
Menu names or text on the screen; for example: <yes></yes>		
[]	Buttons; for example: [Power] (represents the Power/lock key)	

Safety information

This manual describes how to properly use your new MP3 player. Read it carefully to avoid damaging the player and injuring yourself. Pay particular attention to the following serious warnings.



PROTECT YOURSELF



• Do not disassemble, repair, or modify this product on your own.



- Do not get the product wet or drop it in water. If the product gets wet, do not switch it on because you could get an electric shock. Instead, contact a Samsung Customer Service Center at 1-800-SAMSUNG.
- Do not use the product during a thunderstorm, as it may cause malfunction or a risk of electric shock.



- Do not use the earphones while you are driving a bicycle, automobile or motorcycle.
 - It can cause a serious accident, and furthermore, is prohibited by law in some areas.
- Using the earphones while walking or jogging on a road, in particular, on a crosswalk can lead to a serious accident.



• For your safety, make sure the earphone cable does not get in the way of your arm or other surrounding objects while you are taking exercise or a walk.

Safety information

PROTECT YOURSELF



- Using earphones or headphones for an extended time may cause serious damage to your hearing.
 If you are exposed to sound louder than 85db for an extended time, you may adversely affect your hearing. The louder the sound is, the more seriously damaged your hearing may be (an ordinary conversation is between 50 to 60 db and road noise is approximately 80 db).

 You are strongly advised to set the volume level to medium (the medium level is usually less than 2/3 of the maximum).
- If you feel a ringing in the ear(s), lower the volume or stop using the earphones or headphones.

PROTECT YOUR MP3 PLAYER



- Do not leave the player in temperatures above 95°F (35°C), such as a sauna or a parked car.
- Do not cause excessive impact on the player by dropping it.
- Do not place heavy objects on top of the player.
- Prevent any foreign particles or dust from entering into the product.
- Do not place the product near magnetic objects.



- Be sure to backup important data. Samsung is not responsible for data loss.
- Use only accessories provided by or approved by Samsung.



 Do not spray water on the product. Never clean the product with chemical substances such as benzene or thinner, as it may cause fire, electric shock or deteriorate the surface.



 Failure to follow these instructions may lead to physical injuries or damage to the player.



 When printing this user manual, we recommend that you print in color and check "Fit to Page" in the print option for better viewing.

SAFETY INFORMATION

FCC

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.

Caution: Any changes or modifi cations 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.

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 Rules. 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.

FCC RF Radiation Exposure Statement:

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This device and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter.

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 try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment to 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.

Declaration of Conformity

We, Samsung Electronics Co.,Ltd., declares under its sole responsibility that the product, Trade name Samsung & Model name YP-R1 has been tested according to the part 15 of the FCC Rules.

Party responsible for Product Compliance Samsung Electronics America QA Lab. 18600 Broadwick Street, Rancho Dominguez, CA 90220



Special features of your MP3 player







Listen to true threedimensional sound with the Samsung Digital Natural Sound engine (DNSeTM)



Be a cool DJ and mix music with your own beats in Beat DJ



Customize your main menu screen at your fingertip



Add your favorite widgets to the main menu screen



Easily create Bluetooth connections with a single motion



No more complicated keys! Control you player with one simple touch



Listen to music with the mini player while viewing photos or documents

Conveniently manage your player with "EmoDio"

Easily transfer contents from other sources to your player without having to convert file formats.

Automatically upgrade software via a USB connection. Receive regular content updates via RSS.

For more information about EmoDio, see <Help> of EmoDio.



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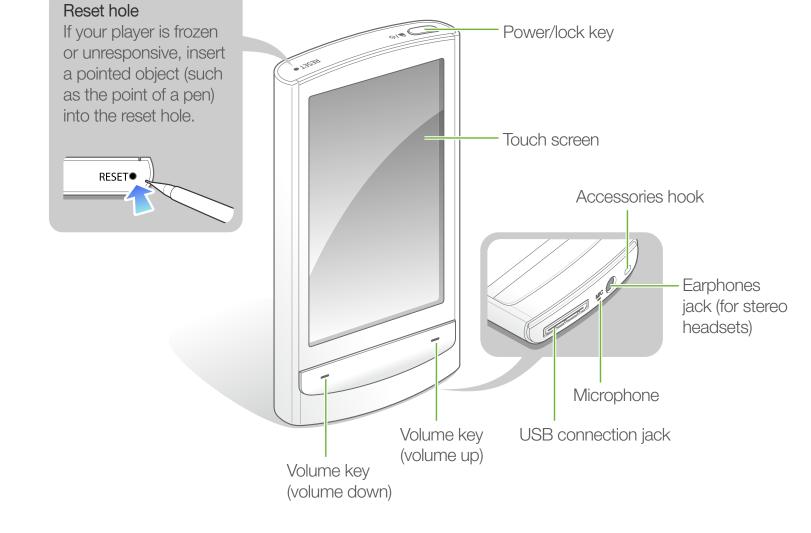


Use basic functions

Learn to perform basic operations with your player.

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Device layout



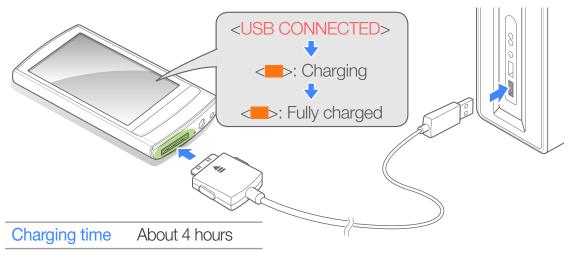


Charge the battery

Charge the battery before you use your player for the first time or when you have not used it for a long time.



- Connect the large end of the USB cable (with the triangle facing up) to the USB connection jack at the bottom of your player.
- Connect the small end of the USB cable to the USB port of a PC.



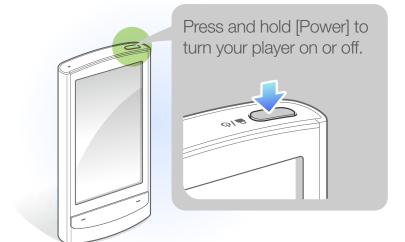
About batteries

- Charge and store the battery at 41° F~95° F (5° C~35° C).
- Do not charge the battery for more than 12 hours or leave the battery fully discharged for a long time. Doing so may shorten the battery life.
- Depending on how you use your player, actual battery life may vary and may be shorter than declared.

- The charging time may differ depending on your PC's capabilities.
- If you want to charge the battery on your laptop, make sure that the laptop's battery is full or the laptop is plugged into a power source.
- Your player's battery will not charge when your PC is in standby mode or when you disconnect the device from your PC.
- Your player's battery may not charge properly when using USB cables other than the one provided.

Turn your player on and lock the keys

Turn your player on or off

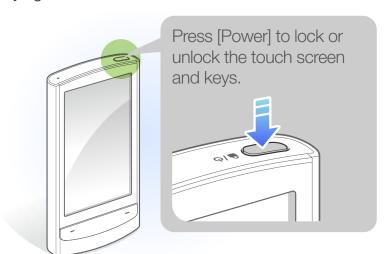




If you do not use your player for 5 minutes, it will automatically turn off.

Lock or unlock the touch screen and keys

Lock the touch screen and keys to prevent any unwanted operations while listening to music or playing video files.

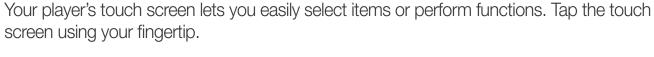


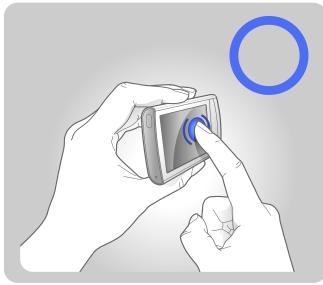
- When the touch screen and keys are locked, will appear at the top of the screen.
- You can also set your player to lock only the touch screen, so that you can still use the keys. See page 74.

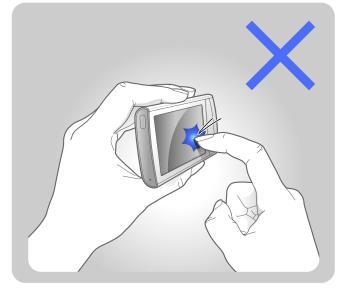


Use the touch screen

Learn how to use the touch screen and browse or select items.









Caution

To avoid damaging the touch screen, do not press too hard with your fingertips or use pointed objects to touch the screen.



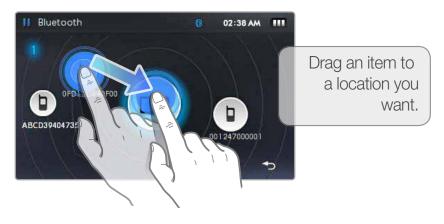
- Tap only one area of the screen at a time. The device will not recognize your input when you tap two or more areas simultaneously.
- Keep the touch screen dry. Humidity and liquids may lower the recognition of the touch screen.
- For best results, remove the protective film from the touch screen and do not allow accessories to cover the touch screen.
- The touch screen may not properly recognize inputs when you tap the screen with gloves, dirty fingers, fingernails, or sharp instruments such as ballpoint pens.



Dragging

To move an item on the screen or browse items, tap and hold your finger on the screen and drag your finger.

To move to the next screen or flip pages, quickly drag your finger in the desired direction.







Tapping

To select a menu or option, tap the screen once with your finger. You can also open the quick tray or menu tray by tapping the screen.



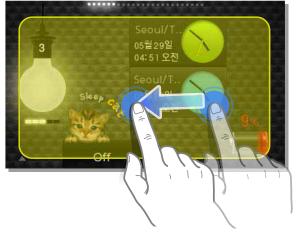
Use the main menu screen

Learn to move between the main menus, change the menu style or wallpaper, and organize your favorite menus.















To return to the main menu screen while using a function, tap and hold the bottom of the screen.

Change the menu style

- In the main menu, tap ▲ at the bottom of the screen.
- Tap <Style> from the menu tray.



3 Tap < or > to select a style you want.



Tap <OK> to save the style.

Select a wallpaper

- In the main menu, tap and hold an empty space.
- Tap an image from the file list.
- 3 Tap <OK> to save the wallpaper image.



Organize your favorite menus

Your player has three main menu screens by default. You can add two more screens or organize menus that you frequently use in one main menu screen.

- In the main menu, tap ▲ at the bottom of the screen.
- Tap <lcon> from the menu tray.



- Add or delete the menus you want from the menu list. See "Organize your favorite menus."
- When you are finished, tap <OK>.

Organize your favorite menus

To add a menu, drag a menu icon to the main menu screen.



To delete a menu, drag a menu icon from the main menu screen to the menu list.



To relocate a menu, tap <V> to close the menu list and move a menu icon to a location you want.









Use widgets

Learn to use functional and decorative widgets.



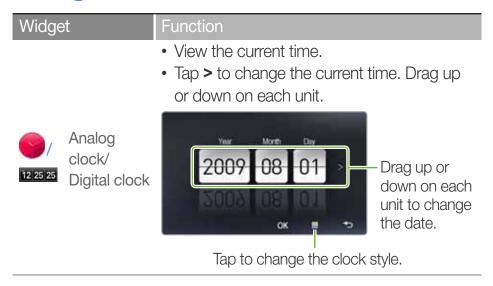
- In the main menu, tap \triangle at the bottom of the screen.
- 2 Tap <Widget> from the menu tray.

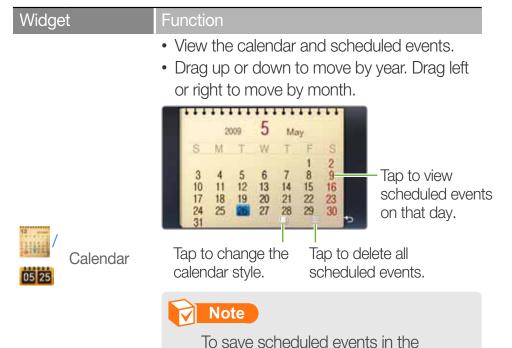


- 3 Add or delete the widgets you want from the widget list.
 - For adding or deleting widgets, see "Organize your favorite menus."
 - For information about widgets, see "Widget list."
- When you are finished, tap <OK>.



Widget list





<Calendar>.

calendar, download Microsoft Outlook event files (.ics file extension) from a PC. Event files must be saved in <File Browser> → <My Pack> →

Use basic functions>Use widgets

Widget	Function	
Photo frame	change the frame style.	
Tap to select a photo to display. Create your memos.		
Memo	Tap to delete a memo. Tap to change Tap to enter a memo. the memo style.	
Brightness	Tap the light bulb icon to adjust the brightness of the screen.	
Sleep time	Set the sleep time.	
Dual clock	View the current time in another country or city.	

Widget		Function
	Battery	Check the remaining battery.
20	Random play	Play music in a random order.
贵	Decoration item	A cookie gradually crumbles.
1	Decoration item	Flower petals flutter.
-	Decoration item	A butterfly circles around a flower.
	Decoration item	A cup of coffee steams.

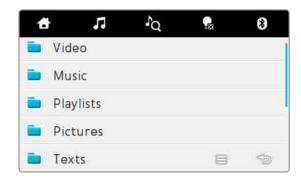
Use the quick tray and menu tray

Learn to use the quick tray and menu tray. Tap the top of the screen to open the quick tray. Tap the empty space at the bottom of the screen to open the menu tray.



Quick tray

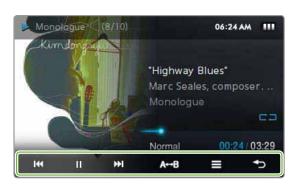
The quick tray allows you to use other functions or return to the main menu screen.



Icon	Function	
ð	Return to the main menu screen.	
5.	Launch the mini player. See page 21.	
ď	Search for music. See page 42.	
	Turn off the screen and lock the keys. See page 10.	
	Connect a Bluetooth headset your player last	
	connected to. If you connect your player to a	
8	Bluetooth device for the first time, see "Find and pair	
	with other Bluetooth-enabled devices" for setting up	
	the Bluetooth connection.	

Menu tray

The menu tray displays options available in the current menu.



Use the mini player

Learn to listen to music with the mini player while viewing photos or documents.



Listen to music with the mini player.



То	Do this
Skip to the previous file or the next file	Tap I ← or → I
Skip backward or forward in a file	Tap and hold 【◀ or ▶】
Pause or resume playback	Tap∏or ▶



If you were listening to the FM radio the last time you used the mini player, the FM radio will start automatically when you launch the mini player from the quick tray.

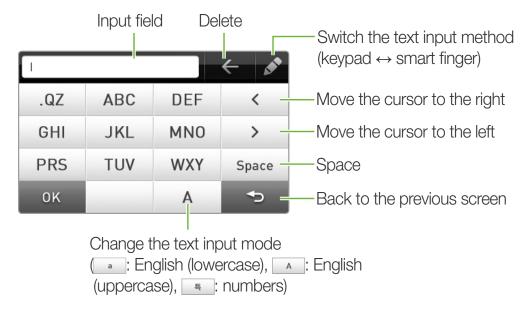


Enter text

Learn to enter text using the virtual keypad or with smart finger.



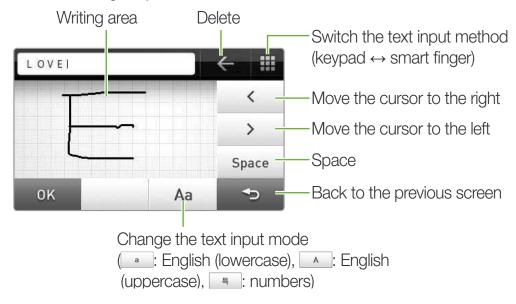
- Tap an appropriate alphanumeric key until the character you want appears on the screen.
 - You can tap to show or hide the virtual keypad.



When you are finished, tap <OK>.

Enter text with smart finger

- 1 Tap 🖍 to switch to smart finger.
- Change the text input mode.
- Write characters in the writing area.
 - ▼ When entering a keyword in the music search screen



When you are finished, tap a word from the list that appears.

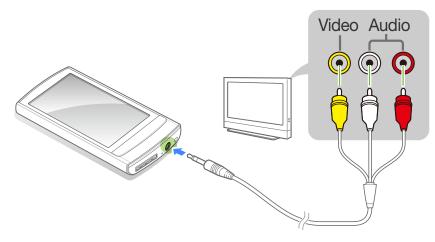


Connect your player to a TV

Learn to connect the player to the TV with an additional TV-OUT cable and view multimedia files, such as photos and videos, on the TV screen.



Connect your player to a TV using a TV-OUT cable.



- 2 Turn on your TV and select a video output mode on the TV.
- Turn on your player and view photos or videos.
- Tap = on the playback screen.
- 5 Tap <TV> from the option list.
 - The TV screen displays the photos or videos you are viewing on your player.
- 6 Control playback using the menu tray on your player.
 - Tap to end the connection with the TV.

- Some features of your player may not be available when your player is connected to a TV.
- Your player may not be compatible with some TVs.



Manage media files

Download media files to your player using EmoDio or a removable disk, and browse or delete files stored in your player.

Download media files	26
Search for files	30
Delete files	31

Download media files

Learn to download media files from a PC to your player with EmoDio or by connecting your player as a removable disk.



To avoid damage to your player and corruption of your files, do not disconnect the USB cable while files are being transferred.



Supported file formats and PC requirements

Supported file formats

Menu		File formats
9	Music	MP3, WMA, Ogg, AAC, FLAC
	Videos	AVI, WMV
	Picture	JPG
	Text	TXT
F	Flash Player	SWF
	i iasii i iayei	OVVI

Recommended PC requirements

CPU	Pentium 500 MHz or higher
Operating System	Windows 2000/XP/Vista
Others	Resolution 1024x768 or higherMicrosoft DirectX 9.0 or higherInternet Explorer 6.0 or higher

Manage media files > Download media files

Download files with EmoDio

You can easily download various media files with EmoDio.



- For information about installing EmoDio on a PC, refer to the Quick Start Guide supplied with your player. To view precautions when installing, go to http://www.emodio.com.
- EmoDio will be regularly upgraded for peak performance. Some features may change without prior notice.
- Using the USB cable, connect your player to a PC.
 - EmoDio will launch automatically on your PC.
- Click <My PC> on the main screen of EmoDio.
- 3 Click < Get folder> or < Get file> at the bottom of the screen.
- Select a folder you want.
 - The list of the files stored in your PC appears.
- - The selected file is copied to your player.



- You cannot use your player when connected to a PC.
- If you connect your player to a PC when the player's battery is low, the battery will be charged for few minutes before your player will be connected to the PC.
- When you format your player on a PC, use the FAT32 system. In Windows Vista, click < Restore device defaults> and then format your player.
- Music recognition technology and related data are provided by Gracenote[®] and Gracenote CDDB[®] Music Recognition Service[™]. Gracenote and CDDB are registered trademarks of Gracenote.
- The Gracenote logo and logotype, CDDB logo and logotype and the "Powered by Gracenote CDDB" logo are trademarks of Gracenote. Music Recognition Service and MRS are service marks of Gracenote.

Download files using your player as a removable disk

If you connect your player to a PC, the PC will recognize your player as a removable disk. Then you can copy files from the PC to your player.

- Using the USB cable, connect your player to a PC.
- In your PC, open <My Computer> and then the <YP-R1> folder.
- Select a folder you want.
- Copy files on the PC to your player.



Note

- The order of files on your PC will differ from the order of files on your player.
- Your player restricts playback of files protected by a DivX DRM (Digital Rights Management) system.

What is DRM?

Digital Rights Management (DRM) is a technology and service to prevent illegal copies of the digital contents and protect the profit and rights of copyright holders or content producers.

Disconnect your player from a PC

Carefully follow the steps below when disconnecting your player from a PC to avoid data loss or damage to your player.

Click 💆 on the Windows taskbar.



- Click on the window which informs that your player is safely disconnected.
- Unplug the USB cable from your player and the PC.

Caution

- To avoid damage to your player and corruption of your files, do not disconnect the USB cable while files are being transferred.
- Do not disconnect your player when playing files stored in your player on a PC. Make sure that you stop playback and then disconnect your player from a PC.

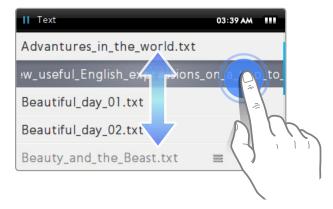


Search for files

Learn to find files by folder and play them in your player.



- 2 Tap a folder from the list.
- 3 Drag up or down to scroll through the file list.
 - If the file name is long, tap and hold the file name area to view the full name.



Tap a file you want.

Delete files

Learn to delete files from your player.



- In the main menu, tap [25].
- 2 Tap = at the bottom of the screen.
- 3 Tap <Delete> from the option list.
- Tap files to delete and tap <OK>.
 - appears next to the selected files.
 - Tap <All> to delete all files.



5 Tap <YES> to confirm.



You can also tap **m** and then select files if the trash icon is available.





Play video and music

Transfer music and video files to your player using the EmoDio program or a removable disk, and then play high-quality video files and listen to music in excellent 3D surround sound. Also, mix music files like a disc jockey using Beat DJ.

Video	33
Music	38
Beat DJ	45



Learn to play video files on your player. To download files, see "Download media files."



- In the main menu, tap [12].
- Select a video file from the list.
 - Drag up and down to scroll through the list and select a video file to play.





To change the view mode to the thumbnail view, tap = and then < View Mode>.

Play video and music>Video

Control the playback using the following keys. See "Video playback screen ".

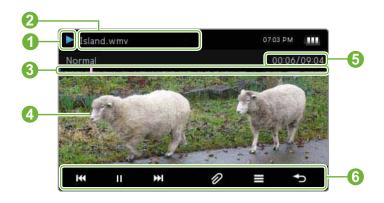


Back to the previous menu Back to the main menu (tap and hold)

То	Do this
Skip to the previous file or the next file	Tap ← or ▶
Skip backward or forward in a file	Tap and hold 🖊 or 🕌
Pause or resume playback	Tap 🚺 or 🕨

- You can convert unsupported video files with EmoDio and play them in your player.
- You can play subtitle files (.smi) with video files on your player. Subtitle files must be saved with video files to play in the same folder and the file name must be the same as the video file.

Video playback screen



No. Description

- 1 Playing status
- 2 File name
- Playing progress bar (is a bookmark that help you mark a point within a video)
- 4 Sound effect selected
- 5 Elapsed playing time / Total playing time

Menu tray

- 6 P: Open the bookmark options
 - E: Open the video options

Play a video from a clip

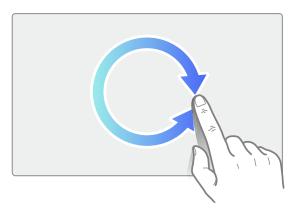
Tap and hold the screen during video playback. Your player will split the video file into 15 clips and capture still images from each clip. When you select one of the still images, the video will begin playback from that point.



Tap to return to the previous screen.

Skip forward or backward with a gesture

Draw a circle clockwise to skip forward or counter-clockwise to skip backward. The faster you draw, the faster you will skip forward or backward.



Insert a bookmark

You can insert a bookmark at the point you want and go to the bookmark to play from that point.

- During video playback, tap the bottom of the screen at the point you want to bookmark.
- 2 Tap from the menu tray and tap < Add Bookmark>.
 - A bookmark is added to the progress bar.

Note

- You can insert one bookmark for each video file.
- The point at which you insert a bookmark within a video file may not exactly match the bookmarked point.
- To go to a bookmark, tap and then <Go to Bookmark>.
 To delete a bookmark, tap and then <Delete
 Bookmark>.

Use the video options

- Tap the video playback screen.
- Tap
 from the menu tray.
- Select an option you want.

Option	Description
DNSe	Select appropriate sound effects for videos.
Search	Divide a video file into 15 clips. You can select one of the clips and start playback from that clip.
	Adjust the frame size and the brightness of the screen.
Display	Note
	Some video files may not have the <screen size=""> option.</screen>
Play Speed	Change the playback speed.
TV out Mode	Set to connect your player to a TV.
Horizontal Stroke	 Set the interval when you drag left or right quickly during video playback. 1 File: Move between previous and next files. Seek: Change the playback speed (x1 → x2 → x4 → x8). 10sec Skip: Skip 10 seconds. 30sec Skip: Skip 30 seconds. 1min Skip: Skip 1 minute.





Learn to play music files stored in your player. To download files, see "Download media files."



Listen to music

Music files are categorized in folders by type. You can easily find a music file you want.

Music category	Function
Artists*	Display files by artist.
Albums*	Display files by album.
Songs*	Display files by file name (in the order of special characters, numbers, and alphabets).
Genres*	Display files by genre.
Playlists	Display playlists you created.
Recently Added	Display files you recently downloaded.
MostPlayed 50	Display files you recently played (up to 50 files).
Recorded Files	Display files recorded in <fm radio=""> or <voice rec="">.</voice></fm>
Music Browser	Display all files in the Music folder.
Unknown	Display files that have no track information (ID3 Tag).

^{*} Music files are sorted by track information (ID3 Tag). Files that have no track information are saved in the <Unknown> folder.

What is ID3 Tag?

ID3 tag is a metadata container attached to MP3 files. It includes information for the music, such as the title, artist, album, or track number, which can be displayed on a music player's screen during playback.

Play video and music>Music

- 🚹 In the main menu, tap 💽.
- Tap a music category.
 - To play the file you last played, tap <Move Play Screen>.
- Tap an artist, album, genre, or playlist if you select , <a href="Alb
- Tap a file to play.
 - Drag up and down to a music file and tap the file to play.



Control the playback by using the keys. See "Music playback screen."



То	Do this
Skip to the previous or next file	Tap 🖊 or 🔭
Skip backward or forward	Tap and hold ╉ or 🕪
Pause or resume playback	Tap 🚺 or 🕨

Music playback screen



No. Description

- 1 Playing status
- 2 Track number / Total number of tracks
- Playback image
 - Tap and hold a cover image to view the album information
- 4 Current sound effect
- 5 Track title/artist/album title
- 6 Play mode
- Search bar
- 8 Playing time

Menu tray

- 9 <A ↔ B>: Repeat a section of a track
 - E: Opens the music options

Repeat a section of a track

You can select a section of the song while playing and repeat it.

- Tap <A ↔ B> at the beginning of the section you want to repeat.
 - $\langle A \rightarrow B \rangle$ displays at the beginning of the section.
- Tap <A ↔ B> at the end of the section you want to repeat.
 - <A ↔ B> displays at the end of the section. Your player repeats the marked section.
- \bigcirc To cancel repeating, tap $<A \leftrightarrow B>$ again.

Apply a sound effect (DNSe)

- From the music playback screen, tap =.
- Tap <DNSe>.
- Tap a sound effect you want.
 - If you tap <Auto>, your player will search the track information (ID3 Tag) and automatically select an appropriate effect.
 - To select your own equalizer, tap <myDNSe>.
 See "Apply a sound effect (DNSe)."

What is DNSe?

Digital Natural Sound Engine (DNSe) is a group of sound effects for MP3 players, developed by Samsung. It provides various sound settings to enhance the music you're listening to.

View album information

If an ID3 Tag contains album information such as cover images, you can view the images and songs included in the album.

- From the music playback screen, tap and hold the screen.
- View the album images and songs.
 - To view other albums, drag left or right.
 - To play music from the album, tap a music file you want.
 - To browse files, drag up or down.



 Indicate the currently playing music file.

Search for a music file

You can search for music files by entering music files.

- Open the quick tray and then tap λ .
- Tap a music category you want.

Option	Description
Artists	Search by artist name
Albums	Search by album name
Songs	Search by song tiltle

Enter a keyword on the search field.



- If you selected <Artists> or <Albums>, tap an artist or album name.
- Tap a music file you want from the search list.

Create playlists

You can create up to four playlists.

Create a playlist

- 🚹 In the main menu, tap 💽.
- 2 Tap <Playlists>.
- Tap = at the bottom of the screen and tap <Add New Playlist>.
- Enter a name for your new playlist and tap <OK>.





To rename a playlist, tap <Rename> from the option list.

Add music files to a playlist

- From the file list, tap =.
- Tap <Add to Playlist>.
- Tap files you want to add to a playlist.
 - appears next to the selected files.
 - To select all files, tap <All>.



- 4 Tap <OK>.
- Tap a playlist you want to add the music file.
 - To create a new playlist, tap <Add New Playlist>.

Note

- To add all files of an artist, album, or genre at once, tap = in the list and then tap <Add to Playlist>.
- To add the currently playing file to a playlist, tap = and then tap <Add to Playlist>.

Delete music files from a playlist

- From the file list, tap <Playlists>.
- Tap a playlist that has a file to delete.
- Tap = at the bottom of the screen and then tap < Delete from Favorites>.
- Tap files to delete.
 - appears next to the selected files.
 - To select all files, tap <All>.
- 5 Tap < OK>.

Use the music options

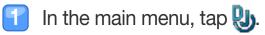
- From the music playback screen, tap \equiv .
- Customize the following options.

Option	Description	
DNse	Select appropriate sound effects for music.	
Play Mode	Change the repeat mode.	
Music Play Screen	Change the repeat mode. Change an image that displays when playing music. Note Your player supports less than 2 MB of cover images. Your player supports subtiltle files downloaded with EmoDio only.	
Add to Playlist	Add the currently playing music file to the playlist.	

Option	Description	
Horizontal Stroke	 Set the interval when you drag left or right quickly during video playback. 1 File: Move between previous and next files. 5sec Skip: Skip 5 seconds. 10sec Skip: Skip 10 seconds. 30sec Skip: Skip 30 seconds. 1min Skip: Skip 1 minute. 	
	Note Some files may not skip at the interval you select.	
Play Speed	Change the playback speed.	



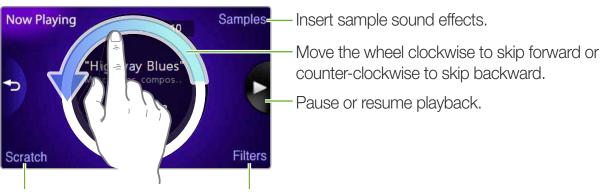
Learn how to mix your own music the way you like it with Beat DJ.



- Tap an album you want.
 - Move the wheel or drag up and down to select an album and tap <OK>.



- Use the wheel to select a music file and tap ▶.
- Apply beat DJ effects to the music file.



Insert a scratch sound. I

Insert a filter effect.

Play video and music>Beat DJ

Insert sample sounds

Move the wheel to select a sound and tap .



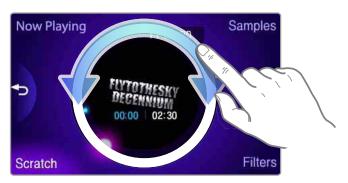


Tap the Play icon at the point you want to insert the sound.



Insert scratch sounds

Move your finger on the CD image to insert a scratch sound.



Insert filter effects

Move the wheel to select a filter effect and tap .





Move your finger on the wheel to adjust the filter speed or beats.





You can insert up to two filters in a music file. If you want to adjust the speed or beats of each filter (when two filters are applied), first select the name of the filter you want to adjust and then move the wheel.



Use additional applications

Learn how to work with your player's additional applications.

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Pictures

Learn to view photos stored in your player.
To download files, see "Download media files."

View photos

- In the main menu, tap .
- 2 Browse photos.



- 3 Tap a photo you want. The photo displays on a full screen.
- 4 View the photo.
 - Drag left or right to view other photos.



То	Do this	
Zoom in or out	Tap ${f Q}$ and then tap ${f Q}$ or ${f Q}$	
Rotate	Tap 🐧	



If the photo size is big, it may take some time to display.

Use additional applications>Pictures

Use the photo menus

- Tap the photo on a full screen.
- Tap = from the menu tray.
- Customize the following options:

Option	Description
Start Slideshow	View photos in a slideshow.
View Type	Select a transition effect for the slideshow.
Customized	Set a photo as a wallpaper of the main
Image	menu screen.
TV out Display	View photos on your TV by connecting
i v out Display	your player to a TV.





Learn how to use the text viewer and view document files (TXT) stored in your player.

To download files, see "Download media files."



- 🚺 In the main menu, tap 闃.
- Tap a document file from the list.



To change the view mode, tap = and then tap <Text Viewer Type>.

- View the document.
 - Tap the screen to display the text information and guide icons.

Beauty and the Beast
A rich merchant lived in a city with his three daugh
ters, two of whom are mean-spirited and selfish, h
owever the youngest is named Belle (French for "B
eautiful") for being lovely and pure of heart. The m
erchant eventually loses all of his wealth in a temp
est at sea, and he and his daughters must therefor
e live in a small farmhouse and work for their living.

Page bar

To move to the previous or next page

- Drag left or right
- Tap < or >
- Tap the page bar at the point you want to view



Use additional applications>Texts

Insert a bookmark

You can insert a bookmark on the page you want and go to the bookmark to view that page of a document.

- Tap the center of the screen on the page you want to bookmark.
- Tap ? from the menu tray and then tap <Add Bookmark>.
 - A bookmark is added to the top left of the screen.

Note

- · You can add one bookmark for a document file.
- To go to a bookmark, tap and tap <Go to Bookmark>.
 To remove a bookmark, tap and select <Delete
 Bookmark>.

Flip pages automatically

- Tap the center of the screen.
- 2 Tap from the menu tray.
- Tap the automatic flip time.
 - A page automatically flips to the next after the specified period of time.

Use additional applications>Texts

Use the text options

You can change settings for viewing documents in the text viewer.

- Tap the center of the screen.
- Tap = from the menu tray.
- Customize the following options:

Option	Description	
Text Viewer	Change the background style of the text	
Type	viewer.	
Font Size	Change the size of the font displayed in	
TOTIL OIZC	your document.	



FM Radio

Learn to listen to the FM radio, save radio stations, and record a FM radio.



You must connect the earphones to your player to listen to the FM radio. The earphones serve as a radio antenna.



Listen to the FM radio

- In the main menu, tap 📻.
- [2] Tap <Manual> at the bottom left of the FM radio screen.
- Tap < or > to scan the radio stations.
 - Tap < or > to scroll through radio frequencies. Tap and hold < or > to scan the available stations automatically.
 - You can also drag the dial to tune stations.



Listen to the FM radio. See " FM radio screen ."



The FM radio may not tune frequencies for stations correctly depending on the signal status of your current region.

FM radio screen



No. Description

1 Frequency scale

Frequency for the current station

- Tap < or > to scroll through radio frequencies
 - Tap and hold < or > to tune available radio stations automatically
- Tuning dialDrag the dial to tune stations

Radio mode

- 4 <Preset>: Preset mode
 - <Manual>: Manual mode

Menu tray

- 🐧: Mute or unmute audio
 - Record the FM radio
 - E: Open the FM radio options

Record the FM radio

- Tap and then tap <Yes> to start recording.
 - Tap II to pause recording.
- Tap to stop recording.
 - The recorded file is saved automatically.
- 3 Tap <Yes> to play the recorded file.
 - After the recorded file has played, the screen will return to Recording mode.
 - If you want to return to Recording mode without playing back the file, tap <No>.

Note

- The maximum recording time for a file is 5 hours.
- The available recording time is about 18 hours when you record files at 128 Kbps and up to 1 GB.
- The recorded files will be saved in <FM Radio> (in the main menu, select <File Browser> → <Recorded Files>).

Use additional applications>FM Radio

Save radio stations

You can save your favorite radio stations to easily access them.

Save the current radio station

- From the FM radio screen, tap =
- Tap <Add to Preset>.

Save radio stations automatically

You can automatically search for available radio stations and save them as your favorites. You can save up to 30 radio stations.

- Tap <Auto Preset>.
- - Automatic tuning begins. The radio stations located are saved in your favorites.

Listen to a favorite radio station

- Tap <Preset> at the bottom of the FM radio screen.
- Tap the radio station you want.

Use the FM radio options

You can change options for listening to the FM radio.

- From the FM radio screen, tap \equiv .
- Customize the following options:

Option	Description
Delete preset?*	Delete a saved radio station.
Add to Preset**	Save the current radio station.
Auto Preset	Search for and save available radio stations
71010 1 10301	automatically (up to 30).
	Re-tune frequencies according to your region.
	Note

FM Region

• This option may not be available depending on your region.

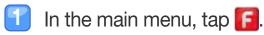
 If you change the region, the previously saved stations will be deleted.

^{*} Available only in Preset mode

^{**} Available only in Manual mode

Flash Player F

Learn how to use the flash player and view flash files (.swf) stored in your player. To download files, see "Download media files."



- 2 Tap a file you want.
- 3 Play the file.
 - Tap ▼ at the bottom of the screen to display the menu tray.



То	Do this
Move on the screen	Tap 🕩
Pause or resume playback	Tap or •



- The flash player may not play some flash files (.swf).
- Your player may restart depending on the flash files (.swf) you play.

Use the stopwatch

You can count down to a specific event or measure the time it takes to do your exercise or work.

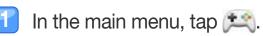
- 🚺 In the main menu, tap 🛐.
- 2 Tap a stopwatch file.







Learn how to play games stored in your player.



2 Tap a game you want.

Game	Description
BubbleBang	Burst as many bubbles as possible in a set time.
SUDOKU	Enter digits from 1 to 9 into the blank spaces. Every row must contain one of each digit.
Wise Star	
AstroRanger	Tap the colored arrows at the bottom left and right of the screen to musical and visual cues.

3 Play the game.



- Games provided may vary depending on the software of your player or your region.
- For information about playing games, see the Help of each game.
- You can download various games from EmoDio to your player.



Bluetooth *

Learn about the Bluetooth wireless features to connect Bluetooth stereo headsets to listen to music or connect mobile phones or other wireless devices.



Samsung is not responsible for any illegal use of Bluetooth.

Do not use Bluetooth functions for any illegal purposes, including illegal reproduction of music files, wireless tapping, or other prohibited actions.



Find and pair with other Bluetooth-enabled devices

To use the Bluetooth wireless features, you need to pair your player with other devices.

- Turn on the Bluetooth wireless feature of other device you connect to.
- 🔼 In the main menu, tap 🐒.
- Tap 🛐 at the center of the screen, or tap **Q** at the bottom of the screen.
 - Your player starts searching for Bluetooth-enabled devices around the player.
 - To stop searching, tap Q.
 - To search again, tap or Q.
- Tap and drag a device icon onto the 🚺 icon.

Indicate the current page number (The number increases when there are more detected devices)



Indicate mobile phones (hands-free car kits)

Indicate Bluetooth stereo headsets



It is recommended to name mobile devices in English to ensure compatibility.

Use additional applications>Bluetooth



- 5 Enter a Bluetooth password for the devices you connect to for the first time
 - For setting a Bluetooth password, see the user manual of the device you connect to.
- Tap <YES> to confirm.
- Enter the other device's Bluetooth password and tap <OK>.
 - When you enter the correct Bluetooth password, pairing is complete. Now you can connect your player to the other device.
 - For connecting Bluetooth-enabled devices, see
 "Connect Bluetooth-enabled devices."

Delete paired devices

- From the Bluetooth screen, tap a device you want to delete.
- Z Tap 🔳 at the bottom of the screen.

Connect Bluetooth-enabled devices

You can use the Bluetooth wireless feature to connect to other devices

- 🚹 In the main menu, tap 👔.
- Tap and drag a device icon onto the 🚺 icon.
 - To search again, tap Q.
- Tap a service depending on the device you are connecting to.

Option	Description
Handsfree	Select to connect to a mobile phone to make
	and receive calls.
File transfer	Select to transfer files to and from the device.

- Use the Bluetooth-enabled device that is connected with your player. See pages 61 ~ 64.
 - The Bluetooth icon at the top of the screen will change according to the device type connected.
 - (8): Mobile phones, (8): Bluetooth stereo headsets)
 - If a Bluetooth stereo headset is connected, you can listen to music or hear a voice through the headset.

Use additional applications>Bluetooth

Note

- If you restart your player or the other device connected, the Bluetooth connection will be disconnected. See the steps above to reconnect the devices.
- Some features, such as device searching or calling, may not work correctly depending on the mobile phone connected.
- Some Bluetooth stereo headsets may not be compatible with your player.
- You cannot use Bluetooth stereo headsets while using the FM radio.

Disconnect the Bluetooth devices

- From the Bluetooth screen, tap 🛣.
- 2 Tap <YES> to confirm.



When you are not using the Bluetooth features, deactivate the Bluetooth wireless feature to save the battery. Tap = and then tap <Bluetooth Mode:ON>.

Use call functions (hands-free)

When your player is connected to your phone, you can make or receive calls.

Make voice calls





Make a call using one of the following option:

Option	Description
Redial	Call a recently dialled number.
Call history	Make a call from the call log.
	To clear the call log, tap =, <delete> and then <yes>.</yes></delete>
Call by number	Enter a phone number you want.

- For <Call by number>, enter a phone number and then tap ...
 - If you want to make a call using speed dial numbers, tap and hold a speed dial number.
- The call is connected.



Tap to switch the call to the mobile phone.

Tap to end the call.



Your player may emit some noise when you press the keys of the mobile phone or make or answer a call.

Answer a call

If you receive a call from the connected mobile phone while playing music or videos, the playback will stop and a pop-up window will appear. Tap <Yes> to answer the call.

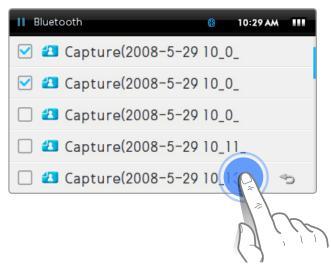


Transfer files

When your player is connected with mobile phones or other MP3 players with the file transfer service, you can send or receive files, such as music files, photos, address book entries, etc.

Send a file

- Tap a file you want from the file browser.
- **2** Тар (3.

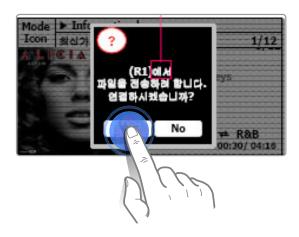


Note

- If you connect Bluetooth-enabled devices other than YP-P3 models, files may not transfer correctly.
- If you send DRM-protected files to another device, the files will not be available on the destination device.
- · Some video files may not play.

Receive a file

When you receive a file, a pop-up window appears to confirm that you are connecting. Tap <Yes> to receive the file.



Note

- For sending files to your player from the other device, see the user manual of the other device.
- Received files will be saved in <Shared Data> (in the main menu, tap <File Browser> → <My Pack>).
- If there is a file with the same name in the folder, your player will automatically add "(1)" to the name and save the file.

Use the Bluetooth options

You can set options for the Bluetooth wireless feature.

- Tap = at the bottom of the Bluetooth main screen.
- Customize the following options:

Option	Description
Bluetooth Mode: ON	Turn the Bluetooth wireless feature
Didetooti i wode. On	on or off.
Search Option	Select a type of Bluetooth device to
Search Option	search.
Discover Option	Set whether or not to allow other
Discover Option	devices to locate your player.
Search Timeout	Set a duration that your player is visible
Search Timeout	to other devices.
My Davigo Info	Check the device name and address
My Device Info.	for Bluetooth.

Information for using Bluetooth

- There may be some noise or malfunctions due to the interference of the radio waves from other devices or the user environment.
- Make sure that Bluetooth devices you are trying to connect to the player are nearby. As the distance between the player and the connected device increases, the sound quality will be downgraded.
- The maximum distance for the wireless connection between your player and another Bluetooth-enabled device is 10 meters (30 feet). If the player and the device are more than 10 meters apart, the connection will be terminated automatically. Even when the devices are within the maximum distance, the quality of communications will be downgraded if the devices are separated by obstacles such as walls or doors.
- When you are using Bluetooth stereo headsets, avoid viewing documents or photos as this may slow down key responses and may decrease the quality of your Bluetooth connection.
- The Bluetooth wireless feature in your player is optimized for Samsung devices and may not be compatible with devices of other manufacturers. Some headsets or mobile phones may not connect or work properly. Check devices for compatibility with your player.
- Some games, music or video files may not be available when you use the Bluetooth wireless feature.
- Use only Bluetooth-certified stereo headsets. Your player does not support mono hands-free headsets.
- Some menus in your player may not be available when the Bluetooth wireless feature is activated.

• Compatible Bluetooth stereo headsets

Manufacturer	Model name
SAMSUNG	SBH-170
Fusion NFC	BT-550
Jabra	BT-620S
LUBIX	NC1
Motorola	HT-820
Plantronics	PULSAR 590
SONY	DR-BT30Q
Sony Ericsson	HBH-DS970
wiREVO	S300

• Compatible Bluetooth-enabled mobile phones

Manufacturer	Model name
	SPH-C3250, SPH-W2700, SPH-V7400,
SAMSUNG	SPH-V6900, SCH-W270, SPH-B5600,
SAMSUNG	SPH-B3200, SGH-X828, SGH-I718,
	SGH-E908, SGH-U608
LG	LG-KH1000, LG-KV2400, LG-KG90,
LG	LG-KG77
MOTOROLA	Z3
NOKIA	N72
PHILIPS	S900
SKY	IM-U130





When you have registered RSS addresses of your favorite news website, UCC, or blogs on EmoDio, you can view various contents in Datacasts.



For more information about Datacasts, see <Help> of EmoDio.

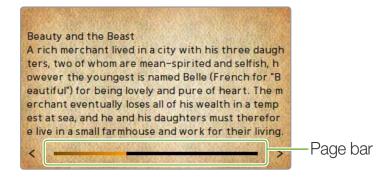
What is RSS?

RSS is a standardized XML file format used to publish and deliver to users or readers frequently-updated works, such as news or blog entries.

- 🚺 In the main menu, tap 🤌.
- Tap a folder you want.
 - The number of unread contents displays next to the folder name.



- Tap the content you want to view.
- 4 View the content.

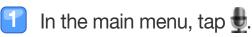


To move to the previous or next page

- Drag left or right
- Tap < or >
- Tap the page bar at the point you want to view



Learn to record voice memos or other sounds.



- Tap to start recording.
 - The recording starts.
 - Tap II to pause recording.



То	Do this
Pause or resume recording	Tap 🚺 or 🛑
Stop recording	Tap

- Tap to stop recording.
 - The recorded file is saved automatically.
- Tap <Yes> to play the recorded file.
 - After the recorded file has played, the screen will return to Recording mode.
 - If you want to return to Recording mode without playing back the file, tap <No>.

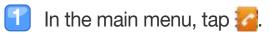
Note

- The recording may be interrupted when you record too close or too far from the microphone.
- When the battery is low, you cannot record voice memos.
- The maximum recording time for one file is 5 hours.
- The available recording time is about 18 hours when you record files at 128 Kbps and up to 1 GB.
- The recorded files will be saved in <Voice> (in the main menu, tap <File Browser> →
 <Recorded Files>).



Address Book

Learn to view contact information received via Bluetooth. When the mobile phone is connected to your player, you can make a call directly from the address book.











- · Address book entries are sorted alphabetically.
- The address book files transferred from other devices will be saved in <Shared Data> (in the main menu, tap <File Browser> → <My Pack>).
- The address book supports only vCard files.





Learn to view the subway map.

- 🚺 In the main menu, tap 💂.
 - The subway map you last viewed appears.
 - If you use the subway map for the first time, the subway map of the capital city will appear.
- \square Tap \square to change to the subway map of another area.



3 Navigate the subway map.



To zoom in or out Tap Q and then tap Q or Q



Customize settings

Change your player's settings to match your preferences.

Settings	7	ш
SATINAS	/	
20ttii 190 <i>i</i>		





- 🚺 In the main menu, tap 🞑.
- Z Tap a setting menu you want.

Menu	Description
Sound	Set sound settings.
Display	Set display settings.
Language	Set language settings.
Time	Set the current time.
System	Set system settings.

- Tap an option.
- Change the settings.

Sound settings

Menu	Description
Street	Set to make the music sound clear by filtering out
Mode	some ambient noise. <0, 1, 2>
Audio	Set to make high-pitched sounds resemble their
Upscaler	original sound. <off, on=""></off,>
myDNSe	Set up your own equalizer (DNSe) to improve the quality of sound. Adjust frequencies for each equalizer and tap <ok>. <mydnse1, mydnse2=""></mydnse1,></ok>
Beep	Turn on or off the key tone and touch tone.
Sound	<off, on=""></off,>
Wise Volume	Set to limit the volume of the earphones to protect your hearing. - <off>: You can adjust the volume as you want. If you increase the volume over level 15 and restart your player, the player will turn on at volume level 15 to protect your hearing. - <on>: Your player displays a warning message and emits a warning tone when you are exposed to a high level of volume for a long period of time. Your player automatically changes the volume to a moderate level.</on></off>
Master EQ	Optimize the sound settings for your earphones. Adjust frequencies for the equalizer and tap <ok>.</ok>

Display settings

Menu	Description
Font	Select a font type for the display text.
Reset My Skin	Restore the wallpaper image.
Reset Booting Image	Restore the image displayed when your player is turned on.
Display	Change the orientation of the screen. <right 90°="" 90°,="" left=""></right>
Display Off Time	Set how long the screen stays on when not in use. <15sec, 1min, 3min, Always On>
Brightness	Adjust the brightness of the screen. <1, 2, 3, 4, 5>

Language settings

Menu	Description
Menu	Select a language for the display text.
Contents	Select a language to display the contents stored in
	your player.

Time settings

Menu	Description
Date&Time	Set the current time and date.
Date Type	Set the time format. <yy-mm-dd, dd-mm-yy="" mm-dd-yy,=""></yy-mm-dd,>
Time Zone	Select your time zone to view the current time.

System settings

Menu	Description	
	Enter user information, such as name and birthday.	
My Info	User information will display on the screen when your player is turned on. On your birthday, the message "Happy birthday" will display.	
Sleep	Set to automatically turn off your player after a specified period of time. <off, 30min,="" 60min,="" 90min=""></off,>	
PC Connection	Select a USB connection mode.	
Output	 Select an external input mode. - <ntsc>: USA, Canada, Japan, Korea, Taiwan, Mexico, etc.</ntsc> - <pal> (Supports the BDGHI type only): Australia, Austria, Belgium, China, Denmark, Finland, Germany, United Kingdom, Netherlands, Italy, Kuwait, Malaysia, New Zealand, Singapore, Spain, Sweden, Switzerland, Thailand, Norway, etc.</pal> 	

Menu	Description
Hold Option	Set how your player works when you press [Power].- <all>: Lock the touch screen and the keys.</all>- <touch only="" screen="">: Lock the touch screen only.</touch>
Library Update	Update the file library. Use this option after changing the language to display the contents (select <settings> → <language> → <contents>) when file names do not display correctly in your player.</contents></language></settings>
Default Set	Restore all settings to the factory settings.
	Delete all data and files stored in your player and restore all settings to the factory settings.
Format	Remember to make backup copies of all important data stored in your player. The manufacturer's warranty does not cover loss of data that results from user actions.

Menu Description Check the DivX registration code for your player.



- ABOUT DIVX VIDEO: DivX® is a digital video format created by DivX, Inc. This is an official DivX Certified device that plays DivX video.
 - Plays DivX® video up to 320X240
 - Plays DivX® video up to 720X480
- ABOUT DIVX VIDEO-ON-DEMAND:
 This DivX® Certified device must be registered with DivX in order to play DivX Video-on-Demand (VOD) content. First generate the DivX VOD registration code for your device and submit it during the registration process. [Important: DivX VOD content is protected by a DivX DRM (Digital Rights Management) system that restricts playback to registered DivX Certified devices. If you try to play DivX VOD content not authorized for your device, the message "Authorization Error" will be displayed and your content will not play.] Learn more at http://vod.divx.com.

Registering

Customize settings > Settings

Menu	Description
About	 Check the system information of your player. - <firmware>: View the version of the software installed in your player. For information about upgrading the software, see "Software upgrade."</firmware> - <memory>: View the total amount of memory, and the amount of memory being used and remaining.</memory>
Shop Mode	Set your player to play the sample video when the player is not used. Note When you do not use your player for 60 seconds, the sample video automatically plays. If the sample video is deleted from your player, this menu will not be available.





Appendix

View the maintenance, specifications, and troubleshooting for your player.

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Maintenance

Learn how to maintain your player and upgrade the software of your player.



Maintenance of your player

Carefully read the following to properly clean, store, or dispose of your player.



Cleaning

- When your player is dirty, wipe your player with a soft, clean and dry cloth.
- Do not apply cleaners to your player's surface. This may cause damage or affect the performance of the player.
- Do not clean your player with gasoline, benzene, thinner, WD-40, or other chemicals. This may cause damage to your player's surface.



Storing

Store your player in a well-ventilated area.



Disposing

- Dispose of wrapping materials, batteries, and electronic devices separately.
- The wrapping materials include paper and two kinds of plastics (PC, PE).

Software upgrade

Connect to a PC and upgrade the software through EmoDio. For more information, see <Help> of EmoDio.

Troubleshooting

When you have a trouble using the player, try the following before contacting a service center.

Problem	Solution
My player will not turn on.	 Your player will not turn on if the battery is completely drained. Recharge the battery and turn the player on again. Press the reset button to reset your player See page 8.
The touch screen and buttons do not work.	 Check if the keys are locked. Check if the keys or icons correspond to the functions you want to activate. Press the reset button to reset your player See page 8. Your player turns off when you do not use it for a specific period of time. Turn your player on and try again.
The screen does not display anything.	 The screen may not be visible under the direct rays of the sun. The screen turns off automatically after the period of time you set in <display off="" time=""> has elapsed. Press any key or tap the screen to turn on the screen.</display>

Problem	Solution
The battery running time is different from what is written in the user manual.	 The battery running time may differ depending on the current sound mode or display settings. The battery running time may shorten when your player was left in a high or low temperature.
My player will not run a program.	You may download the program from a PC that does not meet PC requirements. See the recommended PC requirements.
My player will not connect to a PC.	Run Windows Update on a PC. Select key updates and service packs and update all. When the update is completed, reboot the PC and reconnect.
The file transfer is too slow.	The file transfer rate may slow down if you formatted your player on Windows 2000. Reformat the player on Windows XP or Vista and try again. End all programs you are not using. Running multiple programs simultaneously can slow down the file transfer rate.
My player will not play any music files.	 Check if any playable music files are stored in your player. Check if music files are stored in your player. Check the battery remaining.

Appendix>Maintenance

Problem	Solution
I cannot download files to my player.	 Check if the USB cable is correctly connected. Reconnect it. Check if the memory is full. Press the reset button to reset your player See page 8.
Files or data are missing.	Check if you disconnected the USB cable while transferring files or data. This can cause data loss or fatal errors in your player. Samsung is not responsible for any damages resulting from data loss.
	This is normal if the currently playing file is of the VBR format.
The playing time does not display correctly during playback.	What is VBR file? VBR (Variable Bit Rate) file varies the compression ratio per time segment depending on the complexity of the time segment.
The file name does not display correctly.	Change the language setting in <settings> → <language> → <contents> and then update the file library.</contents></language></settings>

Problem	Solution	
My player is getting hot to the touch.	Charging the battery can heat up your player. It does not affect the player's life or capabilities.	
My player does not play a video file but display an error message.	Retransfer the video file with EmoDio.	
The Bluetooth wireless connection is not established.	 Check if you are connecting to Bluetooth-certified stereo headsets. Your player does not support mono hands-free headsets. If you restart your player, stereo headset, or mobile phone, the Bluetooth connection may be ended. Reconnect again. If you are connecting to a mobile phone, the connection with a Bluetooth stereo headset must be ended. Check if a stereo headset is connected with your player. Ensure that each device's visibility is not set to <non-discoverable>.</non-discoverable> 	

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Specifications



Model Name		YP-R1				
Rating		DC 5.0V / 1A				
	Audio	 MPEG1/2/2.5 Layer 3 (8 kbps ~ 320 kbps, 22 KHz ~ 48 KHz) WMA (12 kbps ~ 320 kbps, 16 KHz ~ 48 KHz) Ogg (32 kbps ~ 400 kbps, Q0 ~ Q10, 8 KHz ~ 48 KHz) AAC-LC (8 kbps ~ 320 kbps, 8 KHz ~ 48 KHz) AAC+ (8 kbps ~ 320 kbps, 8 KHz ~ 48 KHz) Enhanced-AAC-Plus (8 kbps ~ 320 kbps, 8 KHz ~ 48 KHz) FLAC (level 0 ~ 8, 16 KHz ~ 48 KHz) RA (20 kbps ~ 96 kbps, 8 KHz, 11.025 KHz, 44.1 KHz) WAV (wav standard, 8 KHz ~ 48 KHz) 				
	Video		Video	Audio		
File		AVI/SVI	 MPEG4 (Max.720 X 480) Advanced Simple Profile@Level 5 Divx3/4/5/(Max. 720 X 480) Xvid (Max. 720 X 480) H.264/AVC (Max. 720 X 480) High Profile@Level3.0 WMV7/8 (MAX. 640 X 480) VC-1 (MAX 720 X 480) 	MP3/AAC/ AAC+		
			Advanced Profile@level1	WMA		
		MP4	 MPEG4 (Max.720 X 480) Advanced Simple Profile@Level 5 H.264/AVC (Max. 720 X 480) High Profile@Level 3.0 	MP3/AAC/ AAC+		
		WMV/ ASF	WMV7/8 (MAX. 720 X 480) VC-1 (MAX 720 X 480) Advanced Profile@level1(vc1)	WMA		
		RMVB	RV8, 9,10 (MAX. 640 X 480)	RA		
		MOV	 MPEG4 (Max.720 X 480) Advanced Simple Profile@Level 5 H.264/AVC (Max. 720 X 480) High Profile@Level 3.0 	AAC/AAC+		
	Image	JPEG (Baseline, Progressive), BMP (MAX32Bit), PNG, Gif (89a/87a)				
	Flash	SWF (Flash Player 8.0 or lower, ActionScript2.0 or lower)				

Earphones Output		20 mW/Ch. (based on16 Ω)	
Output Frequency Range		20 Hz~20 KHz	
Signal to Noise Ratio		90 dB with 20 KHz LPF (based on 1 KHz, 1 dB)	
Supported Number of Files/ Folders		File: Max. 10000 (including 4000 music files) Folder: Max. 10000 (including File)	
Playing Time (when using the earphones)		Music: 30 hours (MP3 128 kbps, Volume level 15, Normal sound mode, LCD off) Video: 5 hours ((Brightness 5, Volume level 15, Normal sound mode)	
Temperature Range for Operation		23° F ~ 95° F (-5° C ~ 35° C)	
Case		Tempered glass, Plastic, Aluminum	
Weight		50 g	
Dimensions (WxHxD)		45.5 X 85.2 X 8.9 mm	
FM Radio	FM T.H.D	1 %	
	FM Signal to Noise Ratio	50 dB	
	FM Useable Sensitivity	38 dBµ	

Wireless System

Bluetooth QD ID	B014773	
Emission Type	F1D	
Transmit Frequency	2402 MHz ~ 2480 MHz	
Receive Frequency	2402 MHz ~ 2480 MHz	
Number of channels	79 channels	
Temperature	14° F ~ 122° F (-10° C ~ +50° C)	
Modulation System	GFSK	
Modulation bystem	GESK	
Communication Mode	Semi-duplex Operation	
Communication		
Communication Mode	Semi-duplex Operation	
Communication Mode Humidity Specifications	Semi-duplex Operation 0 ~ 95 %	

^{*} Some of the contents in this manual are subject to change without prior notice for further improvement.

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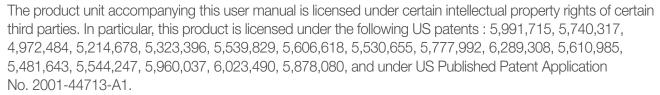
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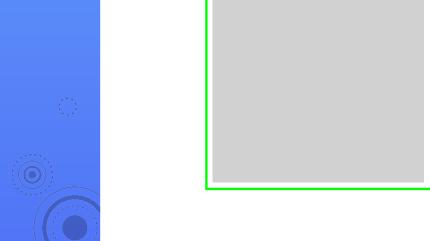
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Version 2.1, February 1999

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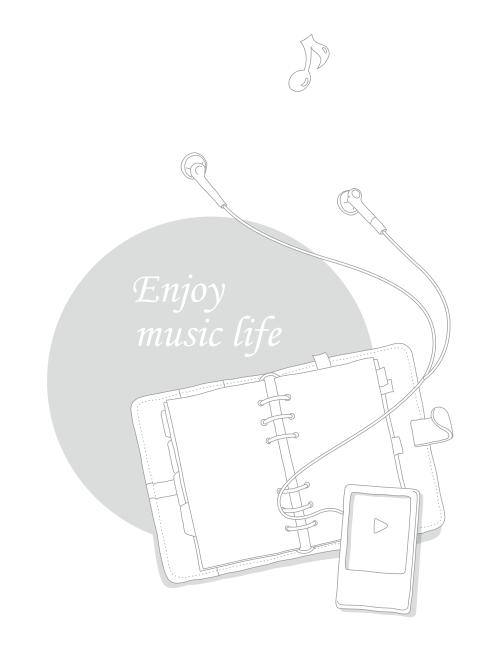
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