APPENDIX H
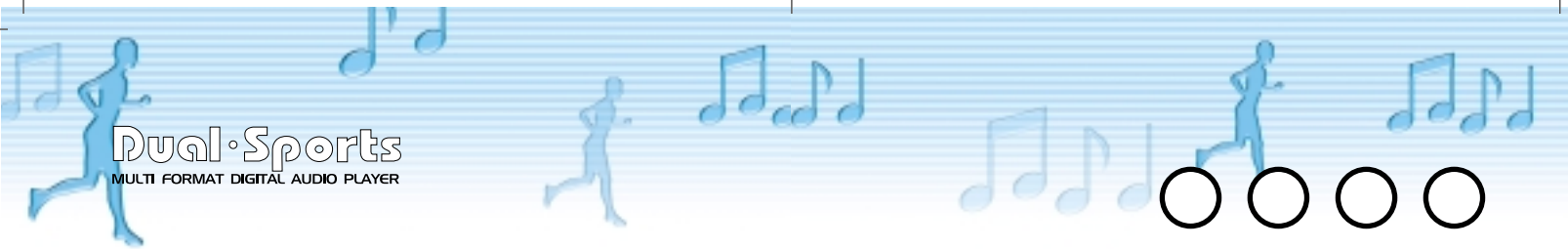
: USER'S MANUAL

Dual·Sports
MULTI FORMAT DIGITAL AUDIO PLAYER

WELCOME to the world of Duel Sports!

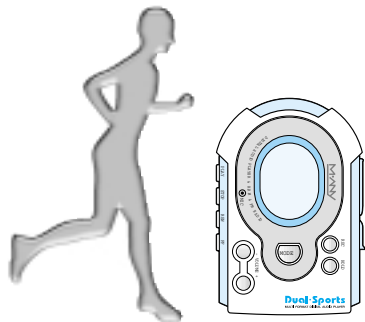Thank you for using our advanced portable digital audio player DUAL SPORTS.
This small player with simple design supports multi languages.

DUAL SPORTS is capable of supporting fresh memory from 16 to 256Mbite.

DUAL SPORTS enables to upgrade for newer audio format using DSP (Digital Signal Processor), and also it is designed to be free from the responsibility against any right of intellectual property.

The "Network OS Update" menu in "Manager" allows you to upgrade for the latest version of OS without extra efforts.

HRM function enables you to simple check your current heart rate, target heart rate, consumed calories and bio-rhythm on the basis of the exercise data.

List

Make yourself

Dual·Sports
MULTI FORMAT DIGITAL AUDIO PLAYER

CAUTION

The followings are to avoid any unexpected hazard or physical loss by using the product correctly, please be well aware of them.

Do not expose the product to any humidity environment such as raining. (It may cause a fire or electric shocks)

Do not leave the battery in a pocket with any metallic substance such as coins or keys.
(It may cause a fire from the contacts)

Keep the player free from any shock which may caused by throwing or dropping of the product.

The software contained in installing CD-ROM can be used for personal purposes only.

Keep the product away from any direct ray with best cares. (It may have damages from heat conduction)

Do not touch or connect the product with wet hands. (There may be electric shocks if it is connected to the power supply)

The data loss from carelessness use is free from our responsibilities. (Any of valuable data should be stored to your PC)

Please do not release or distribute the music files formatted in WMA or MP3 from the product to the public.
(Against the law for Copyright)

Caution

The HRM function of this product may not be used for diagnosis, treatment and improvement of rehabilitating patient as it is not medical instrument.

Do not ever disassemble to repair or rebuild the product as it may cause breakdowns.

Keep the product away from dusts and humidity to prevent defects.

Input your gender, age, height and weight from HRM menu.

Set current time from RTC menu.

Cautions when using a headset

• Auditory sense may be damaged when listening to the music with high volume for many hours.

• Using a headset while driving a car or riding bicycle/motorcycle is not recommended.

• Using a headset while walking or jogging that may have potential hazard requires best care of you or temporary stoppage.

• Ear-in type headset should have a long wire to be located on the back of the neck.

Dual·Sports
MULTI FORMAT DIGITAL AUDIO PLAYER

Fittings & Accessories

Body Part   Manual   Software CD

Ear set   Two AAA Battery   USB Cable

Encoder Cable   Arm belt
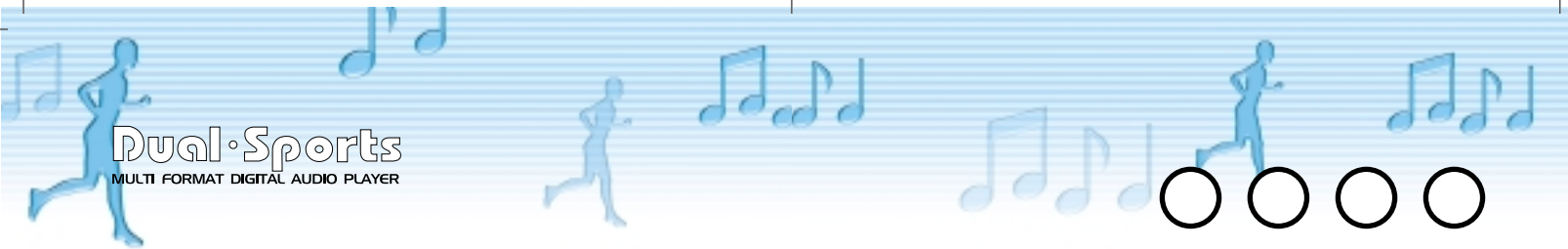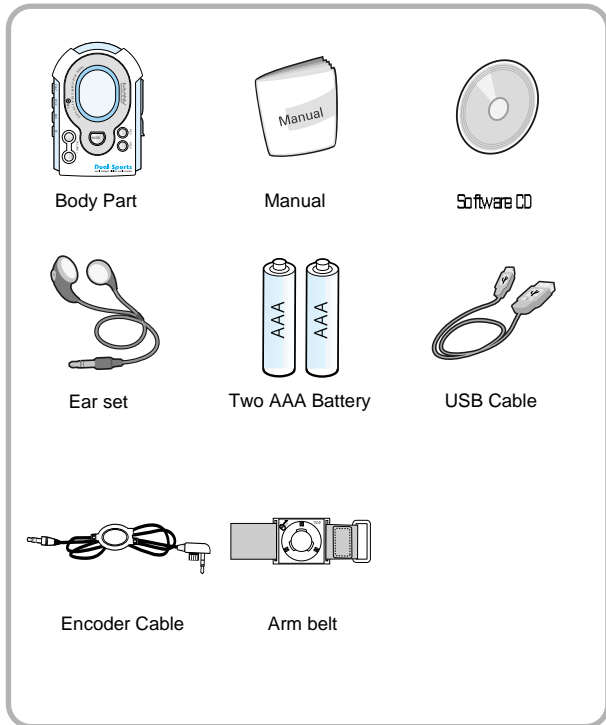
What is MP3 or WMA?

MP3?
MP3 is a compressed data format from CD music using MPEG1-layer 3 and provides comparable sound quality from PC as CD.

WMA?
WMA is also a compressed data format developed by Microsoft 'Window Media Technologies' to only compress music data providing comparable sound quality as 1285Kbps MP3 format with use of low 64Kbps format.
Accordingly, it enables to provide the same sound quality using only half memories of MP3's.

CD Data   MP3 Data   WMA Data
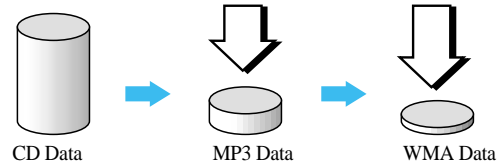
※WMA files can be only playable with the bit rate of 32Kbps or more.
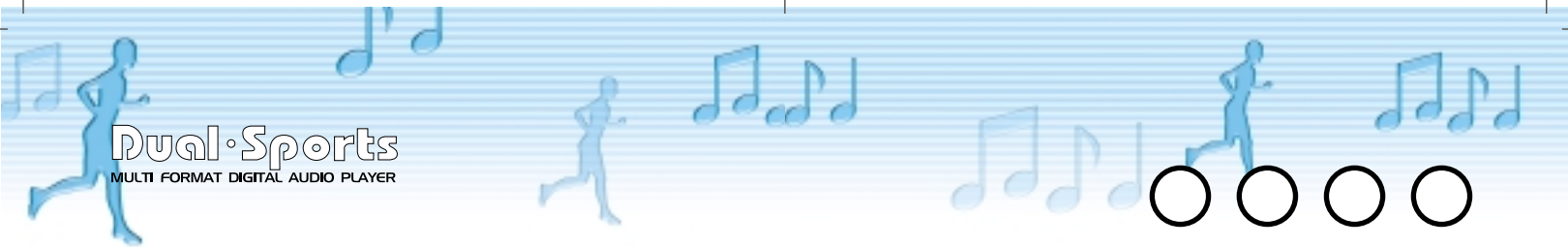
PC System Requirement

PC System Specification

PC system requirements for the use of DUAL SPORTS are as follows;

Microsoft (Windows 98, ME, 2000, XP)
CD-ROM Drive
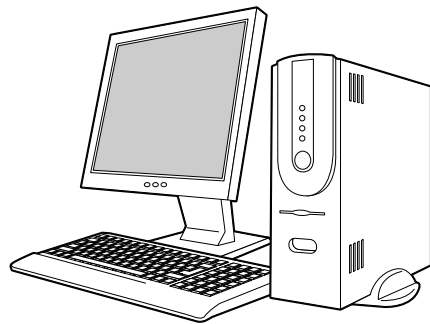Pentium 200MHz or more
RAM 32MB (64MB for Windows ME, 2000) or more
More than 128MB free space for Hard Disk (Further space is required to save the music files)
USB Port Available

Electrical Power

Battery Capability

Type	MP3 Running Time
Alkaline Battery	15 Hours

• Output: 7mW(L) + 7mW(R)
• The battery capability may vary in accordance to types, manufactures or using conditions of the batteries. Above result was derived from the test conducted with conventional alkaline battery.

Battery Remainder Display

• The remainder display may vary for the first few second when power on. It will show actual indication after 5 ~ 6 seconds.

Full   Mid   Short   None

When using general manganese batteries, the display may show higher indication than it really remains due to the battery's property.
Please replace the battery for the new in above case.
※ Alkaline battery lasts longer than manganese battery.

Battery should be replaced in case of following;

• When ⬜ blinks from the Battery Remainder Display.
• When it does not operate or stops right after the buttoning.
• When LCD page does not appear by buttoning from the product body.

Dual·Sports
MULTI FORMAT DIGITAL AUDIO PLAYER
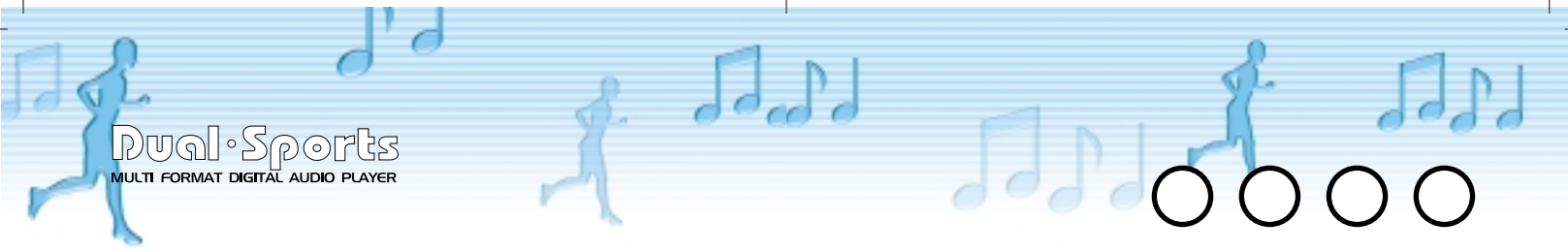
Battery Replacement

Pull down the batter cover from the back of the product as shown on the figure.

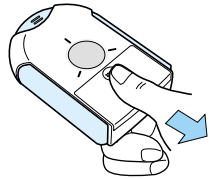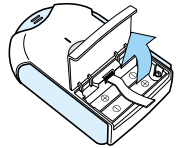• Lift the cover up after pulling it down while pushing it lightly with the thumb.

Insert AAA type battery correctly to the cage with assurance of both poles.

• The ribbon should be laid under the battery to facilitate the battery to be removed easily.

• Assure if both poles of the battery are directed correctly as the products may breakdown if they are reversed.

• Using different type of battery may cause product breakdown.
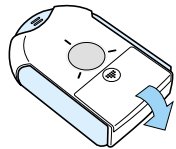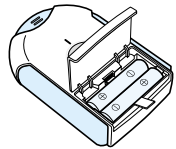
Place the cover to the position and push it up to close.

• Push down the cover and move it upward until it sounds "Click".

Installation for Memory Expansion Card
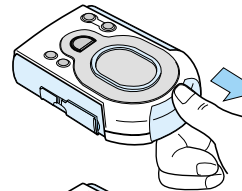
Pull down the cover from upper surface of the main body as shown on the figure.

• Move down the cover after pulling it forward gripping lightly with the thumb.
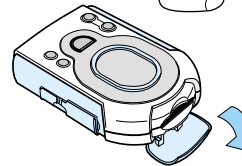
Insert the memory expansion card when the cover opens.

• Insert the card until it reaches to the end.
• Assure front/back surface if it is correctly directed to avoid breakage of the pins inside of the product.
• Use the memory card with only standardized dimensions.
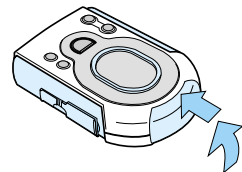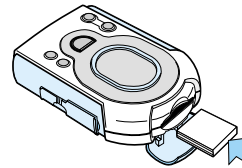
Place the cover and push/move it up to close

• Push down the cover and move it upward until it sounds "Click".

Dual·Sports
MULTI FORMAT DIGITAL AUDIO PLAYER

Terms of Parts

Front

MIC
Receives voice to record

LCD
Displays indications and operating states

MODE Button
Menu & Mode Selection buttons

REC Button
Records and sets functions

HOLD Button
Locks the current state of operation

VOLUME
Controls volume and moves for Menu button

Back

Memory expansion cover
To be used when replacing or adding memories

The arm belt is connected from here with rubber cover opened.

Battery Cover
Open this cover to replace the battery

Dual·Sports
MULTI FORMAT DIGITAL AUDIO PLAYER

Side View 1

PLAY/ Power-On Button
Play & Pause
Power-on & Equalizer set

STOP/Power-Off Button
To be used for play-stop and power-off

REW Button
To be used for replay and fast rewind

FF Button
To be used for skip-play and fast forward

12

Side View 2
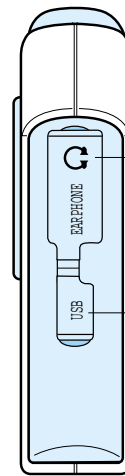
Earphone Jack
To be used when listening to
the music with a earphone

USB Port
To be used when downloading
music from the PC

13

Description of LCD Windows

LCD

1. Play Icon (Appears in Play)
2. Pause Icon (Appears in Pause)
3. Play Time appears here
4. Volume
5. No. of Track
6. Folder Icon
7. Name of Current Folder
8. File Format (MP3, WMA, ADP)
9. File Title appears here
10. Memory Icon (MMC icon opens with MMC inserted)
11. Play mode ICON (Nomal, Repeat, Repear all, Random, Random all)

12. User Set EQ Icons (S_Live, Rock, Jazz, Flat, User1, User2)
13. Play area Icon (Shows where the current song is located)
14. Clock
  1) In Stop

  2) In Play

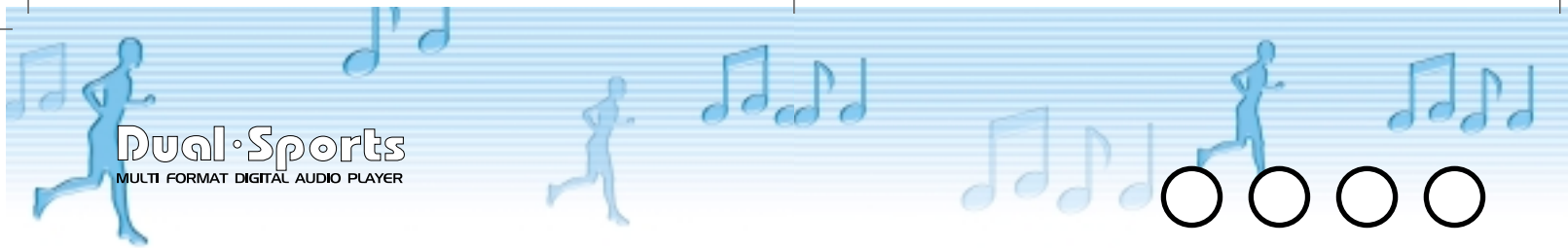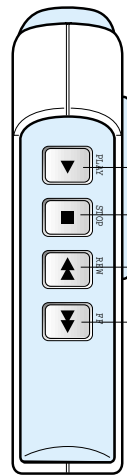15. Shows Bit Rate of the Song
16. Hold Icon
17. Recording Icon
18. Battery

14

To Have Power On/OFF

1 To have power on

PLAY

• Push PLAY button for longer than 2 seconds.
• Release the button with the LCD brightened.
• The main page appears.

• Once it is ready for PLAY the mode turns to STOP mode.

2 To have power off

STOP

• Push STOP button for longer than 2 seconds.
• Then the power gets off with the screen faded out.

15

Dual·Sports
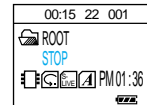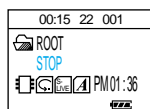MULTI FORMAT DIGITAL AUDIO PLAYER

Listening to Music

1 Push PLAY to make the power

PLAY

```
00:15  22  001
ROOT
    STOP
         PM 01:36
```

• The condition turns to STOP mode.

2 Push PLAY once again for a

PLAY

```
▶ 00:15  22  001
ROOT
오-필승코리아-윤도현
MP3    128 KBPS
       PM 01:36
```

• Then it starts playing the music.
• The current title appears on the LCD.

3 Pause

PLAY

```
❚❚ 00:15  22  001
ROOT
오-필승코리아-윤도현
MP3    128 KBPS
       PM 01:36
```

• Push PLAY for a second to pause the current song. By pushing PLAY once again it starts again from the paused moment.

4 Stop

STOP

• Push STOP to stop the current song.

16

Searching and Selecting Songs

1 FF Button

FF

• Push FF to skip to the next song while it plays.
• In STOP mode, FF enables to select the next song.

2 Searching with FF Button

FF

• It searches songs forward at preset speed when pushing FF for longer than 2 seconds in PLAY mode.

3 REW Button

REW

• When pushing REW within 5 seconds after a song begins, it plays the previous song. And it replays from the initial part of the song when pushing REW 5 seconds after the song begins.
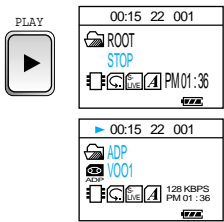• In STOP mode, REW enables to select the previous song.

4 Searching with REW Button

REW

• It searches songs backward when pushing REW for longer than 2 seconds in PLAY mode.
• When releasing REW while searching songs backward having REW being pushed, it plays from the released moment. It replays previous song only even if pushing REW continuously.
• It searches at preset speed.

17

Dual·Sports
MULTI FORMAT DIGITAL AUDIO PLAYER

Selection for Voice Record or MP3

1 `To listen to Voice Records`

PLAY ▶

```
00:15  22  001
ROOT
   STOP
        PM 01:36
```

• It is only available in STOP mode.

```
▶ 00:15  22  001
ADP
   V001
        128 KBPS
        PM 01:36
```

• Push PLAY for longer than 2 seconds.
• Then recorded voice plays.

2 `To listen to MP3 while listening to`

PLAY ▶

```
▶ 00:15  22  001
ROOT
   오-필승코리아-윤도현
        128 KBPS
        PM 01:36
```

• Push PLAY for longer than 2 seconds to listen to MP3 while listening to recorded voice in STOP mode.

18

Equalizer Selections

1 `Push PLAY for a while`

PLAY ▶

• Push PLAY for a while in play state.

```
▶ 00:15  22  001
ROOT
오-필승코리아-윤도현
        128 KBPS
        PM 01:36
```
➡
```
▶ 00:15  22  001
ROOT
오-필승코리아-윤도현
        128 KBPS
        PM 01:36
```
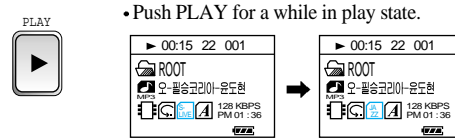
2 `Set the mode`

PLAY ▶

• The mode changes as; S-Live ➡Jazz ➡Rock ➡ Flat ➡User1 ➡User2 when pushing PLAY for a while in play state.
※ Sound quality may drop according to the song. The equalizer can be used in the case to optimize the song quality.

S-LIVE   S-Live: For Heavy sound with a live feeling

JAZZ   Jazz: For Sweet and Delicate feeling

ROCK   Rock: For Powerful and Massive feeling

FLAT   Flat: For standard and natural feeling

USER1   User1: User Set

USER2   User2: User Set

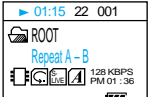**What's Equalizer?** Advanced way of compass adjustment used for audio product.
BAND 2
VAL -02

19

Dual·Sports
MULTI FORMAT DIGITAL AUDIO PLAYER

Repeat

HOLD

1 Push PLAY button.

PLAY

► 00:15 22 001
ROOT
오-필승코리아-윤도현
128 KBPS
PM 01 : 36

• It only works in play mode.

2 Push REC for a second.

REC

► 01:15 22 001
ROOT
Repeat A – B
128 KBPS
PM 01 : 36

• Push REC button for a second at desired moment while playing a song.
• The message "Repeat A-" appears on the screen.
• Push REC once again to show "Repeat A-B" on the LCD.

3 It repeats the song in the range between

REC

• It repeats the song in the range between A and B.
• If the position B is not specified, the end of the song will be specified as B point automatically.
※ The "Repeat" is not available when setting B whine 2 seconds after setting A or when A is set only within 3 seconds ahead from the end of the song.

4 To revoke the Repeat

REC   STOP

► 00:15 22 001
ROOT
오-필승코리아-윤도현
128 KBPS
PM 01 : 36

• Push REC or STOP for a second to revoke the repeat.
• The mode returns to PLAY.

20

1 Push HOLD for longer than 2

HOLD

► 00:15 22 001
ROOT
오-필승코리아-윤도현
128 KBPS
PM 01 : 36

► 00:15 22 001
ROOT
오-필승코리아-윤도현
128 KBPS
PM 01 : 36

• Push HOLD button for longer than 2 seconds. Then a Key icon appears on the LCD.
• Lock all the buttons as in function to prevent malfunctions from unexpected buttoning while the player stays in a pocket or bag. .

2 To revoke the HOLD

HOLD

► 00:15 22 001
ROOT
오-필승코리아-윤도현
128 KBPS
PM 01 : 36

• Push HOLD once again for longer than 2 seconds to make all the buttons to work and the Key icon disappears.

21

Dual·Sports
MULTI FORMAT DIGITAL AUDIO PLAYER

Voice Recording

1 Push REC button for longer than 2

REC

| 00:00 22 001 |
| ROOT |
| VOICE RECORD |
| PM 01:36 |

• It is only available in STOP mode.
• Push REC button once for longer than 2 seconds to show "VOICE RECORD" on the LCD.
• To cancel the recording, press STOP.

2 Push REC button once again for a

REC

| 00:00 22 001 |
| ADP |
| V001 |
| SPACE : OI2MB O32KBPS |
| TIME : I44MIN PM OO:26 |

• Recording begins when pushing REC button once again for a second.
• Then the file name of being recorded appears on the LCD while it records.
• The LCD shows below icons.
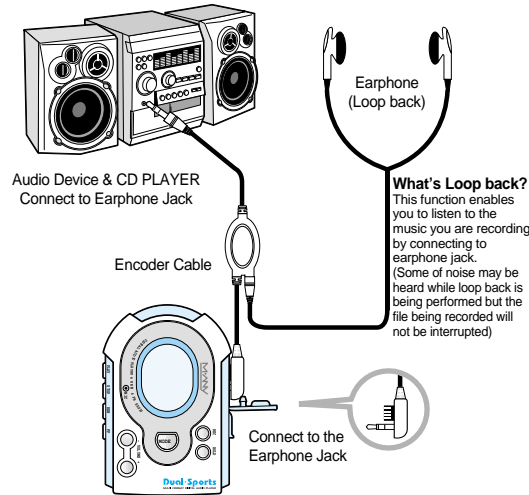
3 Push STOP to halt the recording.

REC   STOP

• Push STOP button to halt the recording while it is recording.
• Recorded files are saved in "ADP" folder with the names of V001, V002, V003 etc. in sequences.
• Play the recorded file to check if it is properly recorded.

22

To record the music

1 Audio Connection

• Insert one end of the MP3 encoder cable to the earphone terminal of normal audio device or portable cassette and connect the other end of the cable into the earphone terminal of the player.
• The music from cassette tape or CD can be directly saved in MPE format.

Earphone
(Loop back)

Audio Device & CD PLAYER
Connect to Earphone Jack

What's Loop back?
This function enables you to listen to the music you are recording by connecting to earphone jack.
(Some of noise may be heard while loop back is being performed but the file being recorded will not be interrupted)
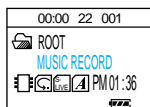
Encoder Cable

Connect to the Earphone Jack

Property of the MPE format: It has limited PLAY performance.
PLAY in the PC: Playable in PC using window media
PLAY in the Player: It is only playable when the MPE file is downloaded to the player where it was made from.

23

Dual·Sports
MULTI FORMAT DIGITAL AUDIO PLAYER

Radio Source Recording

2 Push REC button for longer than 2

REC

00:00 22 001
ROOT
MUSIC RECORD
Live A PM 01:36

• Only available in STOP mode.
• It appears "MUSIC RECORD" on the LCD when pushing REC button twice for longer than 2 seconds each.
• To cancel the record, push STOP button.

3 Push REC once again for a

REC

00:00 22 001
MPE
E001
MP3
SPACE : 012MB   032KBPS
TIME : 144MIN PM 00:26

• Push REC button once again for a second to start recording.
• Then the file name appears on the LCD while it records.
• The LCD shows below icons.

4 Push STOP to halt the recording.

STOP

• Push STOP button to halt the recording while it is recorded.
• Recorded files are saved in "MPE" folder with the names of E001, E002, E003 etc. in sequences.
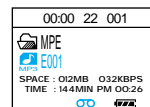• Play the recorded file to check if it is properly recorded.

1 Push REC for a second

REC

VOL 22 MONO
FM 099.9 MHZ
87.5   108

• Push REC for a second when you want to record a certain source from radio.

2 It starts recording.

00:00 22 001
MPE
E001
MP3
SPACE : 012MB   032KBPS
TIME : 144MIN PM 00:26

• The LCD shows an icon which indicates the recording with the name of being recorded.

3 Push STOP button

STOP

VOL 22 MONO
FM 099.9 MHZ
87.5   108
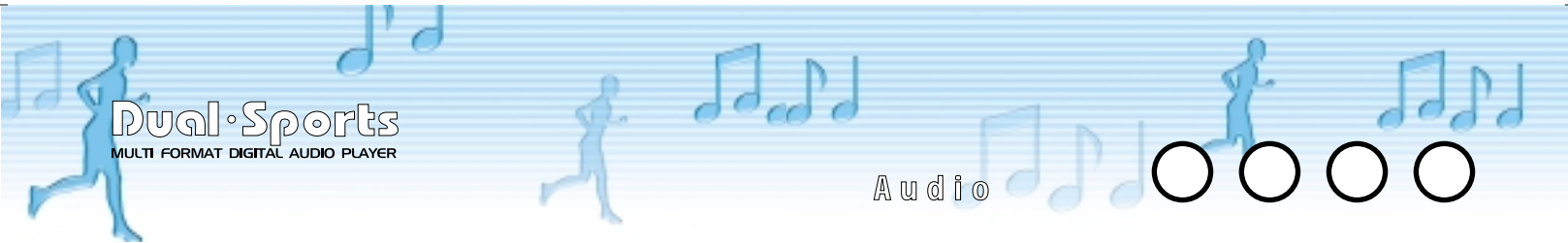
• Push STOP button to halt the recording.

4 Listen to recorded file.

• It appears "MUSIC RECORD" on the LCD when pushing REC button twice for longer than 2 seconds each.
• To cancel the record, push STOP button.

24

25

Dual·Sports
MULTI FORMAT DIGITAL AUDIO PLAYER

Audio

How to set for Continuous Play?

1 `Set from the PLAY mode.`

• Set the mode while the player is playing.

MODE

► 00:15 22 001
ROOT
오-필승코리아-윤도현
128 KBPS
PM 01 : 36

► 00:15 22 001
ROOT
오-필승코리아-윤도현
128 KBPS
PM 01 : 36

2 `Push MODE button for a second.`

MODE

• Push MODE button while the player is in play.
• It changes as; Normal ➡Repeat 1 ➡Repeat 2 ➡
Random 1 ➡Random 2, in sequences.

Normal: For playing entire songs in selected folder

Repeat 1: For playing one selected song continuously

Repeat 2: For playing entire songs in selected folder
                continuously

Random 1: For playing shuffled songs in selected
                folder once

Random 2: For playing shuffled songs in selected
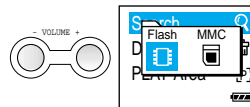   folder continuously

Selection for Folder & Song

1 `Push MODE button.`

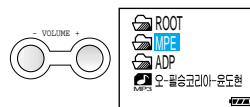**MODE**

Search
Delete
PLAY Area
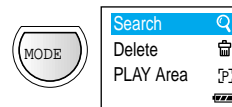
• Push MODE button for longer than 2
seconds.
• Push MODE button after selecting
"Audio" to choose "Search" and
again push MODE button after
selecting "Search".

2 `Select the memory using VOLUME +/-`

– VOLUME +

Search
Flash   MMC
D
PLAY Area

• Select Flash (inner memory) or MMC
(outer memory) with VOLUME+/-
buttons and push MODE button
subsequently.

3 `Select folders with VOLUME+/-`

– VOLUME +

ROOT
MPE
ADP
오-필승코리아-윤도현

• Select a folder or a song you want to
listen to with VOLUME +/- buttons
and push MODE button
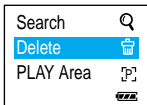subsequently.

4 `To move to higher-level folder`

REC

• Press REC button.

26

27

Dual·Sports
MULTI FORMAT DIGITAL AUDIO PLAYER

File Deleting
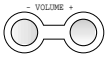
1 Push MODE button

MODE

Search
Delete
PLAY Area

• Push MODE button for longer than 2 seconds.
• Push VOLUME+/- button to select Audio and push MODE button subsequently.
• Push VOLUME+/- button to select Delete and push MODE button subsequently.

2 Push VOLUME+/- buttons

VOLUME

ROOT
MPE
ADP
오-필송코리아-윤도현
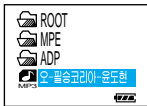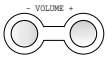
• Select the file to be deleted with VOLUME+/- button.

3 Push MODE button for longer than 2

VOLUME

DELETE DATA...

• The file will be deleted when push MODE button for longer than 2 seconds.
• Repeat above procedures to delete number of files.

4 Push REC button to move out from

REC

• By pushing REC button once, you can move to the next upper level of the folders.
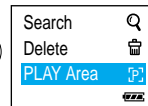• Push REC button over and over to move out from the menus.

28

PLAY Area

1 Push MODE button.

MODE

Audio
Radio
H.R.M

• Push MODE button for longer than 2 seconds.

2 Push VOLUME+/- buttons.

VOLUME

Search
Delete
PLAY Area
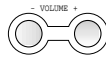
• Push VOLUME+/- buttons to select "Audio" and push MODE button subsequently.
• Push VOLUME+/- buttons to select "PLAY Area" and push MODE button subsequently.

3 Push VOLUME+/- buttons.

VOLUME

Search
Select play area
current   All

• Push VOLUME+/- buttons to select "current" or "All" and push MODE button subsequently.

4 Push REC button to move out from

REC

• By pushing REC button each time, you can move to the next upper level of the folders.
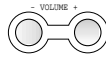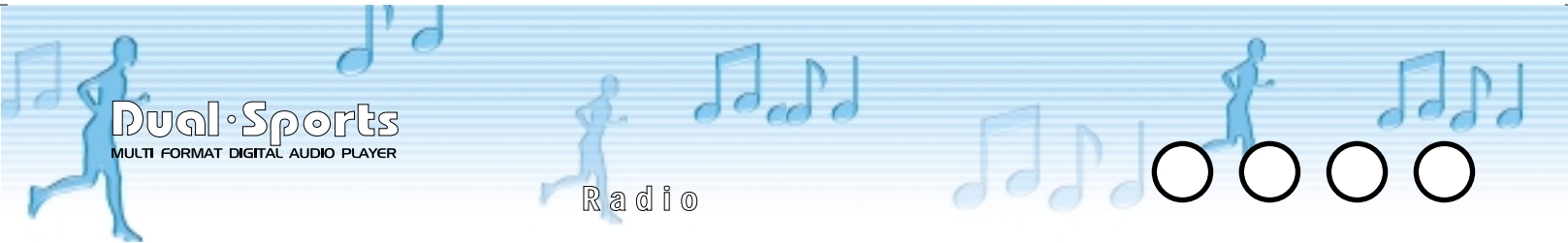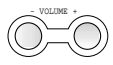• Push REC button over and over to move out from the menus.

29

Dual·Sports
MULTI FORMAT DIGITAL AUDIO PLAYER

Radio

Listening to FM Radio

1 Push MODE button.

Audio	♫ ›
Radio	((•)) ›
H.R.M	♥ ›

- Push MODE button for longer than 2 seconds.
- Push VOLUME+/- buttons to select "Radio" and push MODE button subsequently.

2 Select Radio menu.

- Push VOLUME+/- buttons to select "FM Radio ON" and push MODE button subsequently.

FM Radio ON
Frequency Save
Delete Frequency

VOL 22 MONO
FM 099.9 MHZ
87.5 _____ 108

3 Set the frequency you want.

- Push FF/REW buttons to select desired frequency.
- FF: Enables to move forward by pushing FF for a second. When pushing the button for longer than 2 seconds, it automatically searches the channels.
- REW: Enables to move backward by pushing REW for a second. When pushing the button for longer than 2 seconds, it automatically searches the channels.
- When no channel is stored, it move by 0.1Mhz by buttoning FF/REW per time.

4 To turn the Radio off

- Push STOP button to turn the radio off.

30
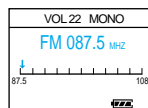
Saving FM Channel

1 Select the menu "Radio"
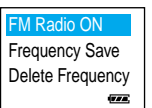
FM Radio ON
Frequency Save
Delete Frequency

- Push MODE button for longer than 2 seconds.
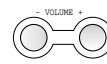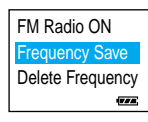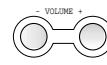- Push VOLUME+/- buttons to select "Radio" and push MODE button subsequently.
- Push VOLUME+/- buttons to select "Frequency Save" and push MODE button subsequently.

2 Search the channel.

VOL 22 MONO
FM 087.5 MHZ
87.5 _____ 108

- Search the channel with VOLUME+/- button.
- VOL +: Enables to move forward by one scale by one time pushing the button for a second. When pushing the button for longer than 2 seconds, it automatically searches the channels.
- VOL -: Enables to move Backward by one scale by one time pushing the button for a second. When pushing the button for longer than 2 seconds, it automatically searches the channels.

3 Push MODE button.

VOL 22 MONO
FM 099.9 MHZ
87.5 _____ 108

- It automatically stops when a channel is detected.
- To save the channel, push MODE button.
- Then it is saved with a message saying "Frequency Saving".

4 Check the channel

- Assure if the channel has correct frequency from FM Radio ON menu selected by pushing REC Button.
- Push STOP button to leave from the menu.

31

Dual·Sports
MULTI FORMAT DIGITAL AUDIO PLAYER

H . R . M

Deleting FM Channel

1 Push MODE button.

MODE

Audio	♫ ›
Radio	**((ŋ)) ›**
H.R.M	♥ ›

• Push MODE button for longer than 2 seconds.
• Push VOLUME+/- button to select "Radio" and push MODE button subsequently.

2 Push VOLUME+/- button.

– VOLUME +

FM Radio ON
Frequency Save
Delete Frequency

• Push VOLUME+/- button to select "Delete Frequency" and push MODE button subsequently.

3 Push MODE button.

MODE

DELETE DATA...

• All stored Channel (Frequency) is deleted.

32

Starting H.R.M

1 Push MODE button.

MODE

Audio	♫ ›
Radio	((ŋ)) ›
H.R.M	**♥ ›**

• Push MODE button for longer than 2 seconds.
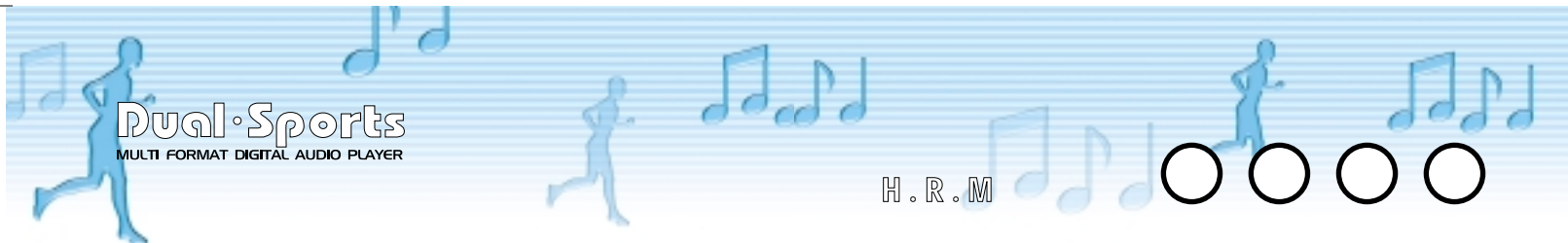• Push VOLUME+/- button to select "H.R.M" and push MODE button subsequently.

2 Push VOLUME+/- button.

– VOLUME +

HRM ON/OFF
Time Gap
Goal Point

• Push VOLUME+/- button to select "HRM ON/OFF" and push MODE button subsequently.

3 Push MODE button.

MODE

► 00:15 22 001
133/122
ROOT
오-필승고리아-윤도현
128 KBPS
PM 01 : 36

• A message saying "Do you start HRM?" appears on the LCD and HRM starts by pushing the MODE button.
• A graph of heart rate appears and moves on upper side of the LCD.

4 To finish HRM

► 00:15 22 001
ROOT
오-필승고리아-윤도현
128 KBPS
PM 01 : 36

• A message saying "Do you finish HRM?" appears on the screen when above procedures are redone and HRM is finished by pushing the MODE button.
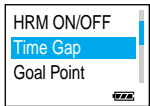
33

Dual·Sports
MULTI FORMAT DIGITAL AUDIO PLAYER

How to set Time Gap?

1 Push MODE button.

【MODE】

Audio	♬ >
Radio	(•) >
H.R.M	♥ >

- Push MODE button for longer than 2 seconds.
- Push VOLUME+/- button to select "H.R.M" and push MODE button subsequently.

2 Push VOLUME+/- button.

VOLUME

| HRM ON/OFF |
| **Time Gap** |
| Goal Point |

- Push VOLUME+/- button to select "Time Gap" and push MODE button subsequently.

3 Push VOLUME+/- button.

VOLUME

HRM ON/OFF
Set check time gap(s)
5 10 15 20 25 30

- Push VOLUME+/- button to select desired time gap and push MODE button subsequently.

4 Push REC button to move out from the

REC

- By pushing REC button each time, you can move to the next upper level of the folders.
- Push REC button over and over to move out from the menus.

34

Goal Point

1 Push MODE button.

【MODE】

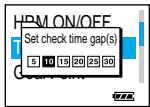| Audio | ♬ > |
| Radio | (•) > |
| **H.R.M** | ♥ > |

- Push MODE button for longer than 2 seconds.
- Push VOLUME+/- button to select "H.R.M" and push MODE button subsequently.

2 Push VOLUME+/- button.

VOLUME

| HRM ON/OFF |
| Time Gap |
| **Goal Point** |

- Push VOLUME+/- button to select "Goal Point" and push MODE button subsequently.

3 Push VOLUME+/- button.

VOLUME

Goal Point : 133

Goal Point Set

- Push VOLUME+/- button to select desired target rate and push MODE button subsequently.

4 Push REC button to move out from the

REC

- By pushing REC button each time, you can move to the next upper level of the folders.
- Push REC button over and over to move out from the menus.

35

Dual·Sports
MULTI FORMAT DIGITAL AUDIO PLAYER

User Information

1 Push MODE button.

MODE

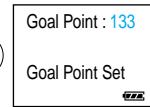| Audio | ♫ › |
| Radio | ((•)) › |
| **H.R.M** | **♥ ›** |

• Push MODE button for longer than 2 seconds.
• Push VOLUME+/- button to select "H.R.M" and push MODE button subsequently.

2 Push VOLUME+/- button.

VOLUME

| Information |
| DB Analysys |

• Push VOLUME+/- button to select "Information" and push MODE button subsequently.

3 Push VOLUME+/- button.

Age	:	025
Sex	:	MAN WOMAN
Weight	:	060 KG
Tall	:	180 CM

MODE   VOLUME

• Push VOLUME+/- button to set your information and push MODE button subsequently.

4 Push REC button to move out from the

REC

• By pushing REC button each time, you can move to the next upper level of the folders.
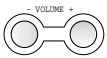• Push REC button over and over to move out from the menus.

36

DB Analysis

1 Push MODE button.

MODE

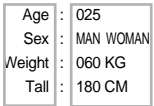| Audio | ♫ › |
| Radio | ((•)) › |
| **H.R.M** | **♥ ›** |

• Push MODE button for longer than 2 seconds.
• Push VOLUME+/- button to select "H.R.M" and push MODE button subsequently.

2 Push VOLUME+/- button.

VOLUME

| Information |
| DB Analysys |
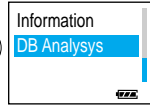
• Push VOLUME+/- button to select "Analysis" and push MODE button subsequently.

3 Push VOLUME+/- button.

VOLUME

| HRM |
| 03010201 |
| 03010101 |
| 03010202 |

• Push VOLUME+/- button to select desired file.
• The values for maximum, minimum and average rate appear on the LCD by pushing MODE button.
• Push VOLUME+/- button to select other previous files.

4 Push REC button to move out from the

REC

• By pushing REC button each time, you can move to the next upper level of the folders.
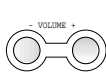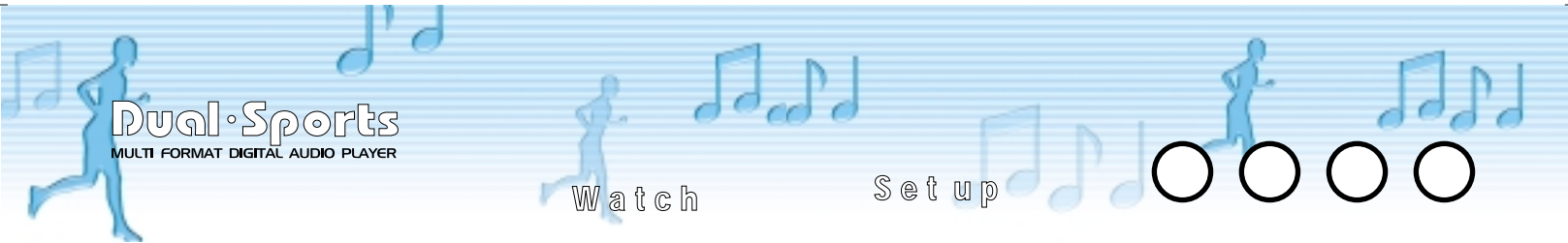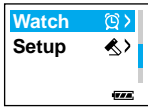• Push REC button over and over to move out from the menus.

37

Dual·Sports
MULTI FORMAT DIGITAL AUDIO PLAYER

Watch   Setup

Setting for Clock and Date

1 Push MODE button.

MODE | Watch
Setup

- Push MODE button for longer than 2 seconds.
- Push VOLUME+/- button to select "Watch" and push MODE button subsequently.

2 Push VOLUME+/- button.

VOLUME | Time Setting
Watch On/OFF

- Push VOLUME+/- button to select "Time Setting" and push MODE button subsequently.

3 To turn ON/OFF the clock

Hour : 12
Minute : 60
Month : 12
Data : 31
Year : 03
AMPM : AM

- Select "Watch ON/OFF" mode with VOLUME+/- button and push MODE button subsequently.
- Push VOLUME+/- button to select ON or OFF and push MODE button subsequently.
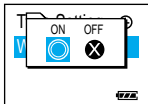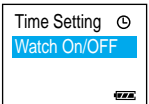
4 Push REC button to move out from the

Time Setting
Watch On/OFF

ON OFF

- By pushing REC button each time, you can move to the next upper level of the folders.
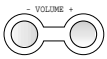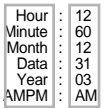- Push REC button over and over to move out from the menus.

38

Setting for Languages

1 Push MODE button.

MODE | Watch
Setup

- Push MODE button for longer than 2 seconds.
- Push MODE button after selecting "Setup" with VOLUME+/- buttons

2 Push VOLUME+ button.

VOLUME | Language
Contrast
Power off time
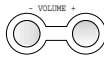
- Push MODE button after selecting "Language" with VOLUME+/- buttons

2 You may choose your language.

VOLUME | ☑KOREA ☐ENGLISH
☐CHINA ☐JAPAN

- There are four languages available; KOREAN, ENGLISH, CHINESE and JAPANESE.
- Push MODE button after selecting "Language" with VOLUME+/- buttons

39

Dual·Sports
MULTI FORMAT DIGITAL AUDIO PLAYER

Setting for LCD Contrast

1 Push MODE button.

Watch ⏰ ›
Setup ✎ ›

- Push MODE button for longer than 2 seconds.
- Push VOLUME+/- button to select "Setup" and push MODE button subsequently.

2 Push VOLUME+/- button.

Language ☺
Contrast ◑
Power off time

- Push VOLUME+/- button to select "Contest" and push MODE button subsequently.

3 Use VOLUME+/- buttons to control the

– 70% +

Contast Set

- Use VOLUME+/- buttons to control the brightness of the LCD.

4 Push REC button to move out from the

REC

- By pushing REC button each time, you can move to the next upper level of the folders.
- Push REC button over and over to move out from the menus.

40

Setting for Power-off Time

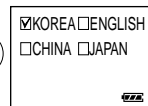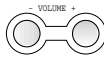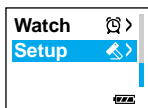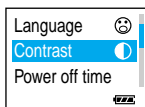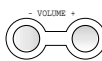**1** Push MODE button.

Watch ⏰ ›
Setup ✎ ›

- Push MODE button for longer than 2 seconds.
- Push VOLUME+/- button to select "Setup" and push MODE button subsequently.

2 Push VOLUME+/- button.

Language ☺
Contrast ◑
Power off time

- Push VOLUME+/- button to select "Power off time" and push MODE button subsequently.

3 Use VOLUME+/- buttons to set the

Language ☺
Power off time (min)
1 2 5 10 30

- Use VOLUME+/- buttons to set the time for the auto power-off time you desire.
- It moves as 1min. ➔ 2min. ➔ 5min. ➔ 10min. ➔ 30min. and etc. in sequence.

4 Push REC button to move out from the

REC

- By pushing REC button each time, you can move to the next upper level of the folders.
- Push REC button over and over to move out from the menus.

41

Dual·Sports
MULTI FORMAT DIGITAL AUDIO PLAYER

Setting for Back Light
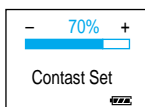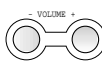
1 Push MODE button.

Watch
Setup

- Push MODE button for longer than 2 seconds.
- Push VOLUME+/- button to select "Setup" and push MODE button subsequently.

2 Push VOLUME+/- button.

Back light
User EQ 1
User EQ 2

- Push VOLUME+/- button to select "Back Light" and push MODE button subsequently.

3 Use VOLUME+/- buttons to set the

Back light
Back light off time (s)
0 3 **5**

- Use VOLUME+/- buttons to set the duration time you desire.
- It moves in sequence as 1sec. ➡3sec. ➡5sec. and etc.

4 Push REC button to move out from the

REC

- By pushing REC button each time, you can move to the next upper level of the folders.
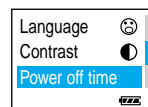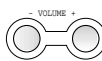- Push REC button over and over to move out from the menus.

42

Setting for Equalizer (User Mode)

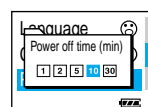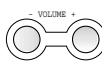**1** Push MODE button.

Back light
User EQ 1
User EQ 2

- Push MODE button for longer than 2 seconds.
- Push VOLUME+/- button to select "Setup" and push MODE button subsequently.
- Push VOLUME+/- button to select "User EQ 1" and push MODE button subsequently.

2 Following pages are shown

BAND 0
VAL   00

- By buttoning on MODE, the cursor moves to other bars.
- Push MODE button to select the bar you desire.
- Push VOLUME+/- buttons until you have the value you want.

3 Set other bars in the same way as

BAND 2
VAL -02

- Push MODE button to select the bar you desire.
- Push VOLUME+/- buttons until you have the value you want.

4 Push REC button to move out from

REC

- By pushing REC button each time, you can move to the next upper level of the folders.
- Push REC button over and over to move out from the menus.

43

Setting for Search Speed

1 Push MODE button.

Watch
Setup

- Push MODE button for longer than 2 seconds.
- Push VOLUME+/- button to select "Setup" and push MODE button subsequently.

2 Push VOLUME+/- button.

Search Speed

- Push VOLUME+/- button to select "Search Speed" and push MODE button subsequently.

3 Use VOLUME+/- buttons to set the

X32   +

Search Speed
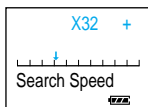
- Use VOLUME+/- buttons to select desired speed.
- It moves in sequence as ×1 ➡ ×2 ➡ ×4 ➡ ×8 ➡ ×16 ➡ ×32 ➡ ×64 ➡ ×128 and etc.

4 Push REC button to move out from

REC

- By pushing REC button each time, you can move to the next upper level of the folders.
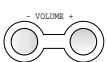- Push REC button over and over to move out from the menus.

44

PROGRAM INSTALL

45

Dual·Sports
MULTI FORMAT DIGITAL AUDIO PLAYER
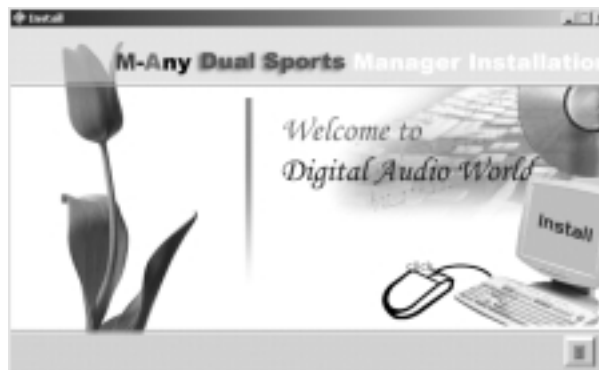
Installing Software

1 Insert Software CD Rom into the CD-

• Insert M • ANY Dual Sports MANAGER CD into the CD-ROM of you computer.
• Then click on [Install] button.

2 Choose the language for installation.

• Select your language and click on "OK" button.
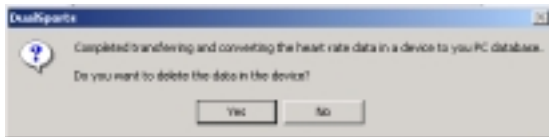
3 Click on "Next" button.

❶ Click on "Next" to continue the installation.
❷ Choose the folder where the program will be installed. Click on "Next" to continue.
❸ When the installation is finished, click on [Finish] to finalize.
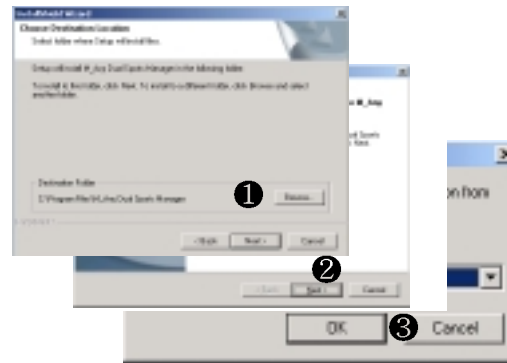
4 A shortcut appears on desktop.

• Once the installation is finished, there appears a shortcut on desktop.

46

47

Connecting to PC

1 Connect to USB port of your PC.

※ The power of the player goes out when it is connected to USB port.
- Connect the USB cable (Accessory).
- The specified USB cable can be only used for this connection.

48
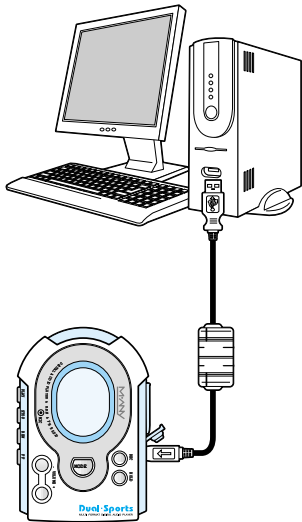
Use of M-ANY DUAL SPORTS MANAGER

1 Connect the USB cable to DUAL

- Connect the PC with DUAL SPORTS using the USB cable.
- The power of DUAL SPORTS goes out when it is connected to USB port.
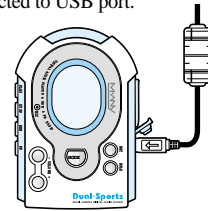
2 Double click on the icon.

- Click on M-Any Dual Sports Manager icon from the desktop.

- The player can be used as a portable driver downloading and uploading normal files with M-Any Dual Sports Manager (Image, Music and Word files etc.).

49

Dual·Sports
MULTI FORMAT DIGITAL AUDIO PLAYER

3 The main page of MANAGER appears on the

❶ Shortcut: used for facilitating operations
❷ Folder Window: used to show folders in the PC.
❸ File Type: shows files by types. (Audio, Document, Image and All Files)
❹ File List Window: used to show files in selected folder.
❺ Move to Root: used to move to the root folder in the memory.
❻ Creating Folder: used to create new folders in the memory.
❼ Memory Window: shows saved information in the memory.
❽ Download: transfers selected file to the memory.
❾ Memory State: displays currently remained and entire capacity of the memory.
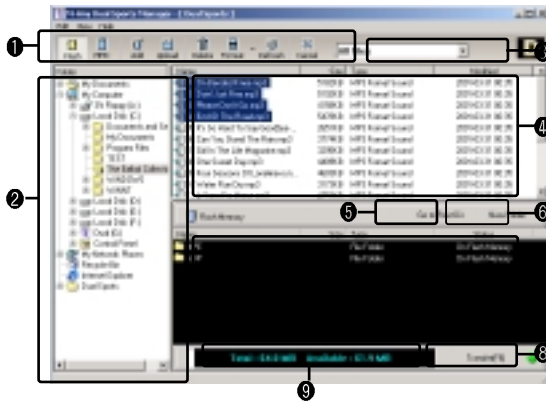
4 About MANAGER Icons

• The buttons with the same names as names on the main menu do the same functions.

• Selection button for Flash memory or DUAL SPORTS.

• Selection button for outer memory (MMC) for memory expansion.

• Add-on button to add selected files to the memory window. The added files appear as "To be downloaded" state on the memory window.

• Upload button to upload files from the memory of DUAL SPORTS to the PC. But, excluding music files (MP3, WMA).

• Delete button to remove selected files from the memory.

• The button formats the memory of DUAL SPORTS. Every file in the memory will be deleted with this button.

• The button updates the contents in the memory.

• The button stops file transferring between DUAL SPORTS and the PC.

Dual·Sports
MULTI FORMAT DIGITAL AUDIO PLAYER

File Download

1 Save files to your PC.

• Save any digital audio file gained from webpage or internet sources to your PC.

2 Connect DUAL SPORTS with the
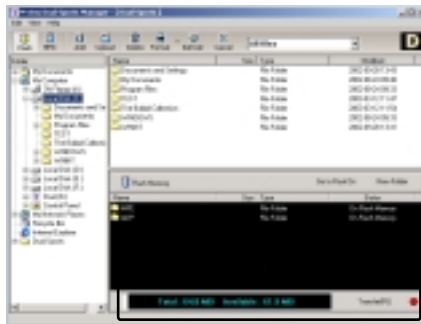
• Connect DUAL SPORTS with the PC using the USB cable (See 00P).
• Click on the shortcut on desktop.

3 Main MANAGER page appears.

• A message "Can't not read the Memory" will appear when the connection is failed or not connected.

4 Select files.

• Select a folder where files are saved in your PC.

5 Select the file to download.

• Select the file to download to the player.

Dual·Sports
MULTI FORMAT DIGITAL AUDIO PLAYER

File Upload
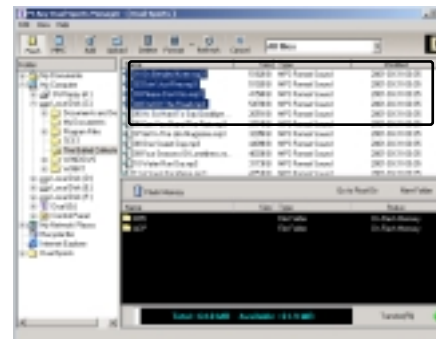
6 Click on Add-File button.
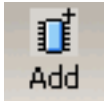
• Click on Add button after selecting the file.
• Then the file is added to the memory window and the message "To be downloaded" appears on the screen
※You may also add files with "drag & drop" for the files to be ready for download.

7 Click on "Download".

• Selected file from the PC is downloaded to the memory of the player.
• To halt the downloading, click on "Cancel".
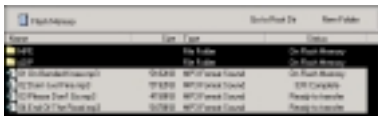
1 Choose a folder where the files are

• Choose a folder in the PC to save the files.
  But, MP3, WMA files can not be uploaded. It is prohibited by the law.

2 Choose files you are uploading.

• Select the files you are uploading form the memory window.

54

55
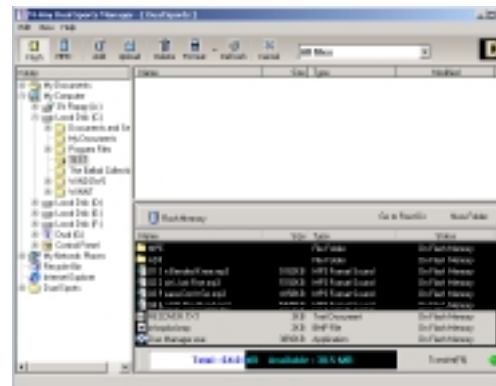
Dual·Sports
MULTI FORMAT DIGITAL AUDIO PLAYER

Memory Format

3 Click on "Save to PC"
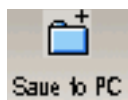
- You may confirm uploaded files from file list window when you click on "Save to PC"
※ You may also upload files with "drag & drop".
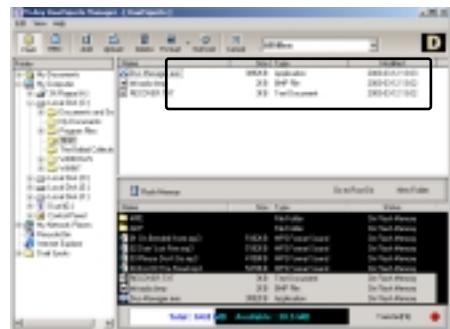
1 Click on "Format".

- You can format the memory by clicking on "Format" button as needed.
  All the data in the memory will be deleted accordingly.
- Select Fast Format or Entire Format.
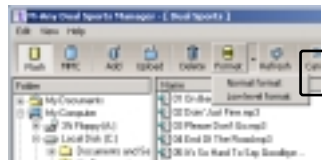
3 Selecting Format Type

- Fast Format: only removes file information from the memory speedily.
- Entire Format: makes the memory as it was first released and takes long time.
- Click on "Y" to format.
- Completion window pops up when it is finished.

※ DUAL SPORTS may not work if you abort the format while it is being formatted. Please do not abort until it finishes.

Dual·Sports
MULTI FORMAT DIGITAL AUDIO PLAYER

OS Update

1 Execute M-ANY DUAL SPORTS MANAGER on

- Execute **M-ANY DUAL SPORTS MANAGER** by double clicking on the icon form desktop with the USB cable connected.

2 Choose "OS Update" menu.

- OS update A dialogue box for OS update by clicking on "OS Update" after choosing "Edit" menu from the menu bar.
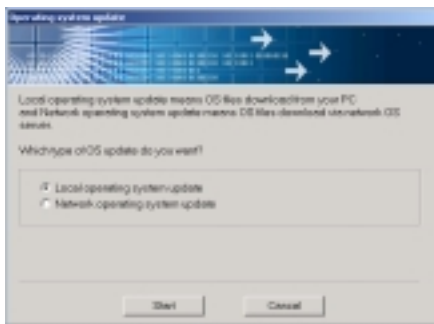
3 Choosing OS Update type

- The OS of the MP3 player will be updated by clicking on "Start" after choosing desired OS update type.
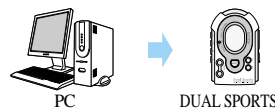
PC   DUAL SPORTS

- **PC OS Update**
  The OS originally contained in DUAL SPORTS is downloaded to the MP3 player.

SERVER   PC   DUAL SPORTS
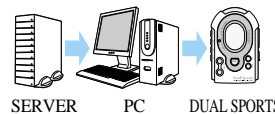
- **Network OS Update**
  The OS firstly is downloaded from the network server to the PC and subsequently to be downloaded from the PC to MP3 player.

※Note: The PC should be connected to the internet for the update.

Dual·Sports
MULTI FORMAT DIGITAL AUDIO PLAYER
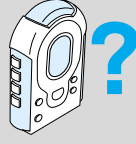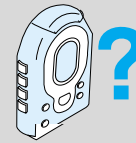
Please check the followings before you ask for the services.

When	Then check (if)	And you may
You can not play MP3	▶There is any song in the flash memory.	▶Download songs to the fresh memory.
	▶The battery ran out.	▶Replace or charge the battery.
Uploading and downloading MP3 is not available	▶The USB cable is correctly connected.	▶Assure cable connection.
There is not enough memory remained		▶Remain necessary files only in the memory.
There is a message saying "Fault on the Memory"	▶Which memory has the fault.	▶Refer to "Help" from M-ANY T MANAGER to resolve the problems you have with the player.

* The player does not play the file with security protection such as liquid audio. Please care about this when you use the player.

Please check the followings before you ask for the services.

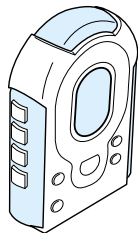| When	Then check (if)	And you may
It does not work by buttoning.	▶The battery is inserted with wrong direction?	▶Re-insert the batter with right direction.
	▶The battery should be recharged?	▶Recharge the battery.
	▶The lock button is in the lock position?	▶Move lock button to unlock position.
Letters on the LCD are not properly displayed.	▶The contact of the battery is good?	▶Insert the battery correctly and close the cover tightly.
	▶The buttons get too mush forces?	▶Push the buttons correctly when only they are required to do.
	▶The battery ran out?	▶Replace the battery to

2

Dual·Sports
MULTI FORMAT DIGITAL AUDIO PLAYER

Damage Compensation Policy

Type of Damage		Compensation	
		Within Guaranteed Period	After Guaranteed Period
When problem occurs with its' performances or functions in normal condition of use. (Within the period of holding parts)	When major parts are required to be served within one month from the purchasing	Product Exchange or Refund	Service for Charge
	When major parts are required to be served within ten days from the purchasing	Product Exchange	
	When exchanged products are required to be served on major parts within one month from the purchasing	Refund	
	When it is not exchangeable		
	When it is repairable — When it has defects	Service for Free	
	When the same repair has been performed for four times	Product Exchange or Refund	Refund by adding 10% of depreciated amount
	When it is not repairable		
	When it is not repairable by lack of parts' stock		
	When the service person lost the product		
	When the damages occur from transportation or installation	Product Exchange	
Problems with its' performances or functions from customer's faults regardless if they are intentional or not.	When it is repairable	Service for Charge	
	When it is not repairable	Product Exchange by Payment which is comparable to "Service for Charge"	Service for Charge. To be complied with the separate policy of the manufacturer
◆ When the faults occur from force majeure (including but not limited to fire, salt flood, gas, earthquake, storm, flood and etc.) ◆ When the faults occur from abnormal power supply or defects on access devices ◆ When replacing normal consumable parts. ◆ When problems occur from other outside factors without having any defect in the product. ◆ When the problem occurs from unauthorized service engineer.		Service for Charge	Service for Charge

■ The manufacture is not responsible for any data loss when it is caused by users' fault.
■ Any other matters that are not specified herein should comply with "Regulation of Customer Protection"
Service Call Center: +82-54-334-6003~4, 080-201-6789(Domestic)
■ FAX: +82-54- 337-3075

Product Specification

Radio(FM)	Frequency range	87.5 MHz~108.0 MHz
	Output	7mw (L)+7 mw(R)
	Signal-to-Noise Ratio	50 dB
	Antenna	Headset/Earphone Code Antenna
Audio	Frequency Characteristics	20 Hz~20 KHz
	Output	7mw (L)+7 mw(R)
	Signal-to-Noise Ratio	50 dB
File Support	File Type	MP3, WMA, ADP
	Bite Rate	8Kbps or more (MP3), 32Kbps or more (WMA)
Recording Capacity	Voice Recording for 1040 minutes (256MB)	
	Music Recording for 240 minutes (256MB)	
Maximum Play Hours	More than 15 hours (at highest volume, 128Kbps, MP3)	
Temperature Conditioned	-5 ℃ ~ 70°C	
Product Size	90 ×60 ×20mm(W ×L ×H)	
Weight	55 g (without battery)	
LCD	Graphic LCD	
Battery	1.5 V AAA size X 2	

LETTER OF GUARANTEE
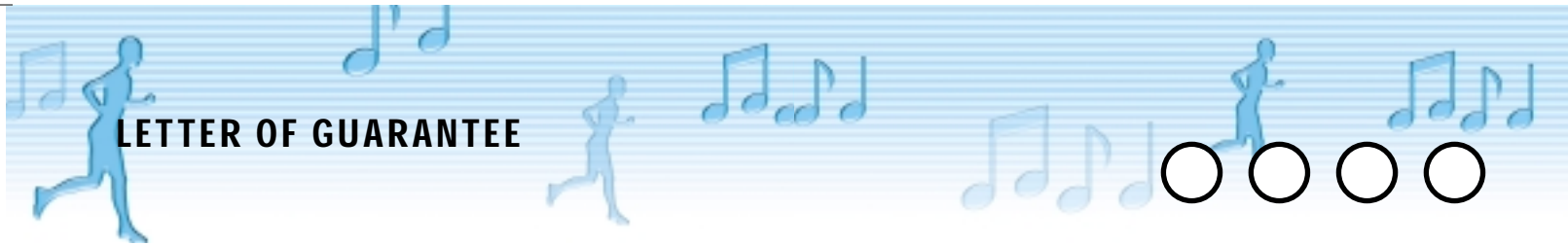
Product :	
Model :	
Date of Purchase :	(Y) (M) (D)
Customer Name :	Contact No.:
Address :	
Seller's Name :	Contact No.:
Address :	

HW

• Please keep this letter of guarantee to have sufficient services and the letter should be submitted with the date of purchase marked therein.

1. The guarantee for the product is subject and limited to the provision listed on the letter.
2. Please make sure that the date of purchase is provided on the letter as the guarantee period is calculated from the date.(When it is not specified, the purchase date is considered as the first date after 6 months from manufacture.)
3. This letter of guarantee may not be reissued.

The appearance and specification of the product may be subject to changing without any prior notice to customers.

FCC Compliance Statement

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may cause harmful interference, and
(2) This device must accept any interference received including interference that may cause undesired operation.
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 in radio communication.
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 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 the 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 or TV technical for help.

Caution
Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.