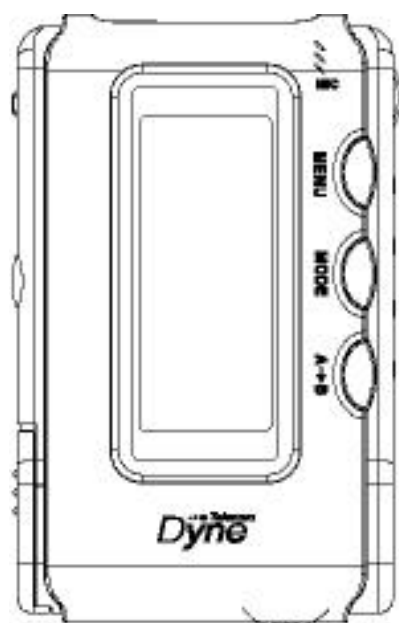


# Digital Audio Player

USER MANUAL



DN5128

*DYNE TELECOM CO., LTD.*

THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES. OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS: (1) THIS DEVICES MAY NOT CAUSE HARMFUL INTERFERENCE, AND (2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE, RECEIVED, INCLUDING INTERFERENCE THAT MAY CAUSE UNDERSIRED OPERATION.

Note : This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC 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. 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 into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

NOTE: THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO OR TV INTERFERENCE CAUSED BY UNAUTHORIZED MODIFICATIONS TO THIS EQUIPMENT. SUCH MODIFICATIONS COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

## Product Features

### Recordable Digital Audio Player

- Supports Multi Format: MP3, WMA and AAC(Optional) Format
- Supports Real-time Encoder and Decoder for WMA(Ver 8.0)
- Playback MP3 files and WMA music file directly
- WMA Digital recording by Line In Encoding (Recording time: about 18hrs, 64M memory, 8Kbps)
- Voice Recording Function from built-in microphone.
- Supports MMC and SD Card to expand the capability.
- Built-in 64MB/128MB Flash Memory
- Display ID tag3
- Multi-Languages (Dynamic display of artist and songs title in Korean, English, Japanese, Chinese, etc.)
- Self-provide LCD Back-light
- Innovative design for pocket size and light weight.
- Support 6 equalizer selections :  
FLAT / POP / EX-BASS / CLASSIC / JAZZ / ROCK
- Various Repeat Mode: Section Repeat, Repeat One/All, Random Play/All
- USB Interface, convenient and quick download  
(Download Speed: About 3.8 ~ 4Mbps)
- Upgrade of CODEC Algorithm through Internet
- Usable as the portable storage device

### ● What's MP3 ?

MP3 MPEG Audio Layer III is the most popular audio compression format and data created with this technology. It provides CD original audio quality with general compression rate of 1/12 CD-DA (Compact Disc Digital Audio). MP3 file is very small and is digital, it can be easily transfer.

### ● What's WMA ?

WMA(Windows Media Audio) is developed by Microsoft to give more powerful compression capability than MP3 even with half of memory consumption required for MP3. It provide the DRM Digital Right Management which can protect the copyright availably.

### ● What's MMC ?

MMC is Multi Media Card, it is a multi-function memory card developed by American SANDISK company and Germany Siemens it provide large capability with a small bulk be able to bear strike and long service life, etc. it has been widely used in MP3 player, mobile, digital camera and digital vidicon, etc.

## Precautions

Read the following precautions before using the unit.

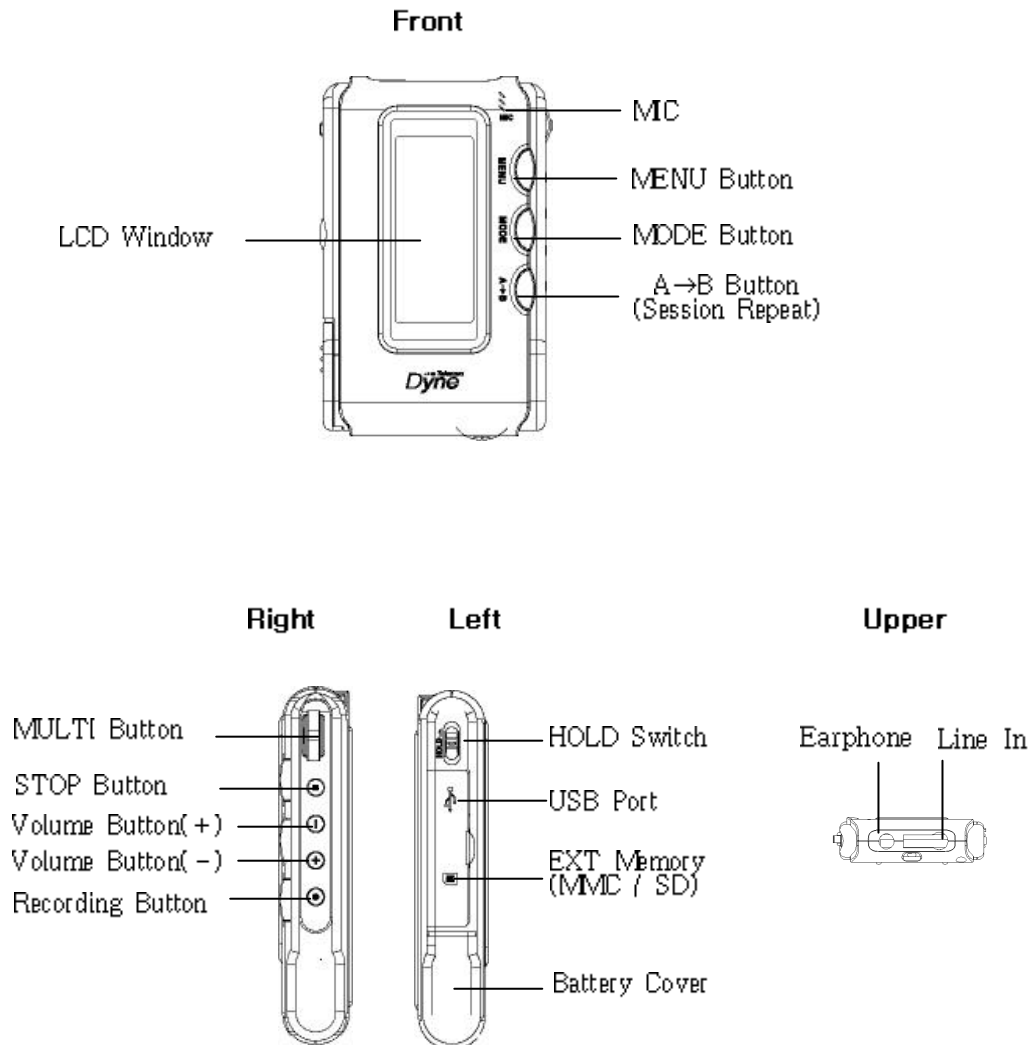
- Do not disassemble & assemble the unit for yourself.
- Do not drop the unit, or give it a mechanical shock. When the unit is not used, safekeeping is needed to avoid its damage.
- Do not use or place the unit in hot or humid condition. Be careful that the unit is not wet. Wetting can cause a critical damage that can make it impossible to repair the unit.
- Do not use the unit in the place which is exposed to the explosive or inflammable substances.
- Do not clean the unit with the inflammable solvents like alcohol, benzine and thinner, etc.
- When you are not going to use the unit for a long time, remove the batteries to prevent damage from battery leakage and corrosion.
- Avoid being put near by magnetic cards such as credit cards. Otherwise the cards may no longer be used.
- When the MP3 player disturb the TV set or radio, please apart them from the player or turn off the player.
- Note that our company does not reimburse you for any loss from the use of the unit or any demand of indemnity from the third person.
- Be understood that our company does not take responsibility for any memory loss by the reasons of breakdown, repair, and others.
- Do not plug / unplug memory card while transferring data.

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# 1. Layout and Function keys

## 1-1. Name of the Keys



Function of the Button	
Multi Button	Power On, Play, Pause, FF/REW, Search
Volume Button	Volume Control
Stop	Stop, Power Off
Record	Record (Music/Voice)
Hold	Hold Switch
Menu	Menu Select
Mode	Mode Change
A→B	Section Repeat

## 1-2. Window Display



Description of Icon	
	Play Icon
	Pause Icon
	Music Record Icon (Line In)
	Voice Record Icon (Internal MIC)
	Repeat Icon
	Section Repeat Icon
	MMC/SD Card Inserted Icon
	Hold Icon
	Volume Icon
	Battery Icon

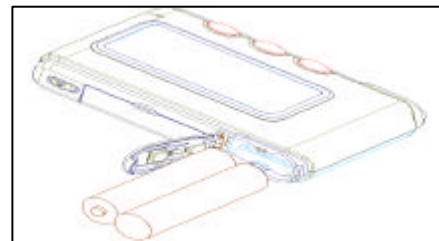
## 1-3. Accessories

Earphone, USB Cable, Audio Cable, CD-Rom, Battery(AAAx2EA),  
Portable Case, Neck Strap, Manual

## 2. Common Functions

### ■ Battery Installation

1. Slide the battery cover to open it,
2. Insert the battery according to the polarities printed in the unit and close the cover.



### ■ MMC / SD Card Installation

1. Open the cover,
2. Insert the memory card according to the directions marked beside the door, and close the door.



Open the cover



Insert the Card

### ►Unplug the Memory Card

1. Press down the Memory Card, then let it slip.
2. Memory Card will be released a little, then take it out slightly.

### ■ Check the battery power

The battery indicator will display the power wastage state on screen.



Power empty, and need to replace the battery

Full

The battery will be played for 10 hours maximum.

### ■ Multi Button Functions

#### ►Selection



Move the multi Button up and down to select the items.  
Make choice by moving the selection key during playback.

#### ►Confirmation



Press center of the multi Button to confirm the selection.

### ■ Power ON/OFF Function

#### 1) Power ON



- 1.To turn on, press the multi Button at least 2 seconds.
- 2.The window will be displayed as bellow.
3. Initial window will be appeared.



1st Display



2nd Display



Initial Status

Displaying the selected Music title on screen  
< Set LCD Display >

At Locked status, displaying "Key Locking ..." message.

## 2) Power OFF



1. To turn off, press Stop button at least 2 seconds at any status.
2. The unit will be power off displaying in

window as bellow.



< Set LCD Display >

### ♣ NOTE

- Automatically be power off if you don't press any key during 90seconds at stop status.
- Exceptional Case: – In case the unit was linked with USB Cable,  
– Recording status(Voice, Line in)

## ■ Mode Change

This player provides 3 kinds of Mode: Music Mode → Voice



Mode → Text Mode.

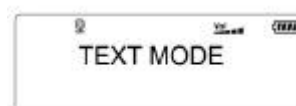
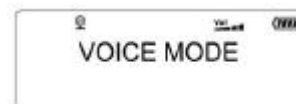


1. Select the **Music Mode** by pressing **Mode** button one time.



2. Select the **Voice Mode** by pressing **Mode** button two times.

3. Select the **Text Mode** by pressing **Mode** button three times



- Each time you press Mode button, the mode will be changed.

Music Mode → Voice Mode → Text Mode.

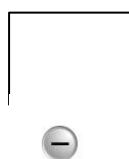
- After changing the mode, it will display to the file list automatically,  
if there are relevant MP3 / WMA files recording files or other recording files in the memory.



## ■ Setting the Menu Mode

Menu	Detail Menu
<b>Equalizer Mode</b>	FLAT/ POP/ EX-BASS/ CLASSIC/ JAZZ/ ROCK
<b>Repeat Mode</b>	Normal Repeat / Repeat One / Repeat All / Random Play / Random All
<b>Int / Ext Memory</b>	Total 128MB / Remain64MB
<b>Record Input</b>	Internal MIC / Line IN
<b>Record Bitrate</b>	8Kbps / 16Kbps / 32Kbps / 64Kbps / 128Kbps
<b>Record Memory</b>	INT Memory / EXT Memory
<b>CD-Rip Mode</b>	CD Rip On / Off
<b>LCD Backlight</b>	Normal/ Always On / Always Off
<b>Delete</b>	Delete? Yes / No

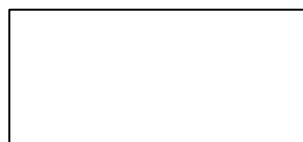
## ■ Volume Control



1. Adjust the volume level at any time.
2. To adjust the volume by one level, press the Volume button shortly.  
To adjust the volume level continuously, keep pressing the button long time.



Volume Down



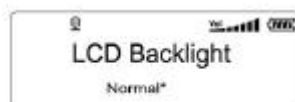
Volume Up

## ■ LCD Back Light



To use the player at night or in the poor light,

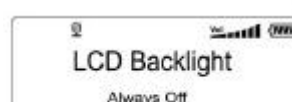
1. Select **Backlight** Mode in menu.
2. Set the way you need by pressing the multi button.  
(Backlight Mode: Normal, Always On, Always Off)



Normal



Always On



Always Off

☞ Normally when you press down any key, the light will be light up.

## ■ Hold Function



1. Slide the Hold button to up-side (HOLD→ direction).

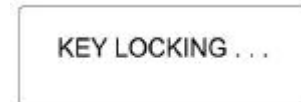
☞ All buttons are not operated.

If you press any key at locked status,

'KEY LOCKING ....' message will be displayed on the screen.



Hold On



When press any button

## 3. Practical Functions

### MP3 Mode

#### ■ Recording from the External Device(CD Player)



1. Select **Record Input** in Menu.



2. Set '**Line In**' menu in Record Input by pressing the multi button.

☞ '\*' mark will display at right side of 'Line In' on screen.

3. Press the menu button once again and select



the desired **Record Bitrate** by moving the multi button up and down.

(Record Bitrate mode: 8Kbps → 16Kbps → 32Kbps → 64Kbps → 128Kbps)



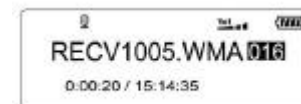
4. After link the TUNY and CD Player with Audio cable, press the Recording button of the TUNY at least 2 seconds and press the Play button of CD Player at the same time.



☞ '**Recording**' will be displayed on the screen and the timing accounting is started.

5. Press Stop button during recording.

☞ '**Record OK**.' will be shown on the screen.



#### ♣ NOTE

- The music playing from CD Player will be recorded to TUNY in WMA file.
- The WMA(Windows Media Audio) file has the same sound quality as CD at 64Kbps.
- While recording, the file name is shown as **REC W1XXX.WMA** and saved in Music mode.

#### ■ CD Rip Mode

If you select CD Rip Mode, you can record the CD music with individual track. At turn off status, the all titles in CD will be recorded within one track.



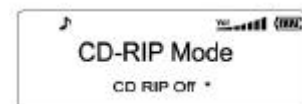
1. Select '**CD Ripping**' Mode in menu.



2. Select the function 'On' or 'Off' by moving the multi button up and down.



3. To set, press the multi button.



#### ♣ NOTE

- This function can be used in case of 'Line In' status of Record Input Mode and Record Bitrate is selected to 64Kbps or 128Kbps only.
- This function will be skipped in menu at other conditions.

#### ■ Listen to the Music



1. Select **Music Mode** by pressing MODE button.



2. Select the track desired by moving the multi button up and down.



3. Press the multi button to play.

#### ♣ NOTE

- You can listen to the music with the MP3 Player maximum 256 titles per Internal memory / MMC / SD Card.
- The file has the extended name of mp3(\*.mp3), wma(\*.wma) only is played.

#### ► To Search the Track




1. To select the next track, move the multi button up-side.




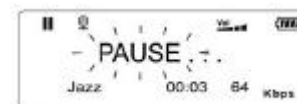
2. To select the previous track, move the button down-side.




3. During playing, the next and previous track will be played if you move the multi button up-side and down-side.

- ▶ **To Stop**  
 Press the Stop button during playing.

- ▶ **To Pause**  
 1. Press the multi button to pause during playing and 'Pause ...' is blinks.





Pause On

-  2. Press the Multi button again to restart play.

## ■ Equalizer Selection

Tuny provide 6 audio equalizer selection to work to different quality music it may enhance music.

EQ mode: FLAT → POP → EX-BASS → CLASSIC → JAZZ → ROCK

-  1. Select **EQUALIZER** Mode in menu.  
 2. Select the desired equalizer by moving the multi button up and down.



FLAT



POP



EX-BASS




CLASSIC



JAZZ



ROCK

-  3. To set, press the multi button.  
 The display will be back to MP3 Mode automatically after 8 seconds.

## ■ Repeat Playback

Tuny provides 5 different repeat modes.

Repeat mode: Normal Repeat → Repeat One → Repeat All → Random Play → Random All



1. Select **REPEAT** Mode in menu.



2. Select the desired repeat function by moving the multi button up and down.



Normal Repeat



Repeat One



Repeat All



Random Play



Random All



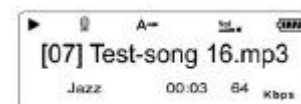
3. To set Repeat function, press the multi button.

## ■ Section Repeat



1. Press **Section Repeat button (A→B)** to set the start of the section during playing.

The start icon 'A→' will blink on the screen.

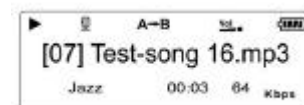


Start of the section



2. Press the repeat button (A→B) again to fix the section.

3. The session 'A→B' is shown and section repeat is started.



End of the section

## ► Stop the Section Repeat



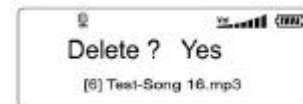
1. Press the Section Repeat button (A→B) again.

The icon of Section Repeat (A→B) will be disappeared.



## ■ Delete File

1. Select **DELETE** Mode in menu.
2. Select the file to delete by moving the multi button up and down.
3. To delete, select 'Yes' and press the multi button.

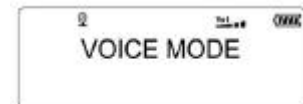


Confirm to delete

## Voice Mode

Select this mode to play the recorded file and to see the file list recorded through MIC.

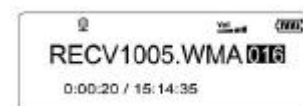
1. Select the Voice Mode by pressing Mode button.



## ■ Voice Recording

1. Select '**Record Input**' Mode in Menu.
2. Set '**Internal MIC**' at Record Input by pressing the Multi button.
  - ☞ '\*' mark will display at right side of 'Internal MIC' on the screen.
3. Press the menu button once again and select the desired '**Record Bitrate**' by moving the multi button up and down.
 

(Record Bitrate mode: 8Kbps → 16Kbps → 32Kbps → 64Kbps → 128Kbps)
4. Select the record memory '**INT Memory**' by pressing the Multi button.
  - ☞ '\*' mark will display at right side of '**INT Memory**' on the screen.
5. After setting, press the Recording button at least 2 seconds.



☞ '**Recording**' will be displayed on the screen and the timing accounting is started.

6. Press Stop button during recording.

☞ '**Record OK.**' will be shown on the screen.

### ♣ NOTE

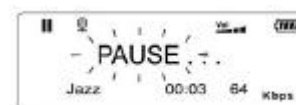
- This player supports up to 256 recording files and can record about 18hrs (64MB memory, 8Kbps)
- The record button works at any mode in stop status, but don't works during playback.
- While recording, the file name is shown as **RECV1XXX.WMA** and saved in Voice mode.

### ■ Playback of the record

1. Select the recorded file to playback by moving the multi button up and down In the voice mode.
2. Press the multi button and starts to play.  
The file number and the time accounting is started on the screen.

### ► To Pause

1. Press the multi button during playing and 'Pause ...' is blinks.



Paused Status

2. Press the multi button again to restart play.  
Press the multi button to playback again.

### ■ Repeat Mode

Just same as MP3 mode, the voice file could also be set repeat playback.

### ■ Delete recording

The way deleting the recording file is the same as to delete MP3, please refer to the user manual.

## Connecting to PC

To connect to PC, the 'TUNY Manager Program' must be installed first.

### ■ System Requirements

- Computer: Motherboard with USB connector, Pentium MMX200 or higher IBM compatible processor
- O/S : Microsoft Windows 95 OSR2 / 98/ 98SE/ ME / 2000 OS/ XP
- CD-ROM driver
- Memory : 64MB or more memory
- Hard Disc: 200MB or more free space

### ■ Connecting USB Cable

Connect TUNY and PC with the USB cable as bellow.



Connecting Drawing

When the player is connected to the PC normally, 'USB CONNECTED!!' message will be shown on TUNY's LCD.

### ■ Installing 'TUNY Manager Program'

### ■ Specification



Product		Digital music player
Memory		Built-in Flash Memory: 32MB, 64MB, 128MB, 256MB Ext. MMC & SD Card: 16MB, 32MB, 64MB, 128MB, 256MB
Supported CODEC	Decoder	MP3: MPEG-1, MPEG-2, MPEG-2.5 Layer3 WMA: 6Kbps ~ 320Kbps
	Encoder	WMA: 8/16/32/64/128Kbps, Transfer Rate: 44.1Khz
Voice REC		WMA: 8Kbps /16Kbps /32Kbps /64Kbps/ 128Kbps
Frequency Response		20Hz ~ 20KHz
S/N Ratio		> 85dB (with filter)
Out Put		4.5mw * 2CH / 16 ohm
THD		Less than 0.1%
Support extend		MMC / SD Card
LCD		Backlight Graphic LCD
PC Interface		USB Specification 1.1
Bit Rate		6Kbps ~ 320Kbps, VBR, MP3/WMA Format
Transfer rate		Max 4Mbps by USB
Power Supply		Battery AAA x 2EA
Operating Time		About 14 hrs MP3 Playback
Dimension		50mm x 100mm x 18mm (W x H x D)
Weight		80g exclude the battery
O/S System		Window 95/98/98SE/ME/2000/XP

## ■ FAQ

Item	Possible Cause	Treatment
<b>No sound when playback</b>	<p>Low battery power.</p> <p>The file is damaged.</p> <p>Manually switch the connection between player and PC, or the PC system resource is not enough.</p> <p>Memory need to be formatted.</p>	<p>Replace with a new battery.</p> <p>If the other date is OK, maybe the file is damaged.</p> <p>Do not use any other application when converting the files, and make sure to disconnect the connections to player after the transforming finished.</p> <p>Please try again after format the memory, if the problem persists, please contact the retailer.</p>
<b>The system did not find the new hardware after connecting to the PC</b>	<p>The motherboard USB function is disabled.</p> <p>USB port abnormal.</p>	<p>Please check the BIOS setting, and enable the USB port function.</p> <p>Change another USB connector and try again.</p>
<b>Difficult to download the file</b>	<p>Poor connection of USB</p> <p>Memory space is not enough.</p> <p>Memory is write-protected</p> <p>Low battery power</p>	<p>Make sure connection between the PC and player USB ports are properly connected.</p> <p>Check if the memory is full, and make sure if you have enough memory space, or please format the memory if necessary.</p> <p>Slide the lever to unlock the write-protection.</p> <p>Replace with a new battery.</p>
<b>No responses to the settings</b>	<p>The battery is not installed correctly.</p> <p>Low battery power</p> <p>Check Hold key</p>	<p>Please check if the battery is installed correctly.</p> <p>Replace with a new battery.</p> <p>Release Hold key.</p>

## ■ WARRANTY

Model Name	Digital music player
SERIAL NO.	
Date of Purchase	Year.                  Month.                  Day.
Warranty	Within 1 Year After Purchase
Address	
Name	
Telephone	
Purchase Office	

- In occurring of trouble, contact to sales agency please.