APPENDIX H

: USER'S MANUAL

NEOSOL

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.

The 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 not cause harmful interference to raio 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

Caution

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

NeoSol Ltd. http://www.neosoltech.com

>>Thanks for purchasing the device! Read this manual carefully before using it.

>>This manual is subject to change for the purpose of performance improvement without prior notice.

Introduction

■ Features

This PMP is a multi-function portable multimedia player which has various features as TV, FM radio, video, music, voice recording album, e-BOOK, USB HOST, recording function, etc.(TV is optional)

TV (OPTION)

It is possible to watch TV indoors and outdoors, and it is possible to reserve recording time so that the user can watch TV when they want to. However, the reception status may depend on TV signal and reception strength.

Listening to FM radio and recording

You can listen to the radio along with various functions, such as auto selection of programs, country settings and recording functions.

Moving pictures and music

Many types of codecs are available for playback so that most files can playback without converting the format. even the file which is not supported, can be easily converted by One Click TransC program that is provided in CD.

Voice Recording

Voice can be recorded using the built-in microphone.

Album and e-BOOK

You can watch image files and text files.
In case of image files, there is an expended function and slideshow function, so you can use it as a portable electronic album.

USB and USB HOST

Using high speed USB2.0 interface, you can transmit the files or folders to the Hard disk of this device after organizing the files by folder at your computer and you can connect digital camera or external USB storage to the USB HOST terminal for copying the files or playback.

External AV In/Output and Recording

You can save as picture file or record the moving picture as ASF file from the external AV devices such as TV, VCR, camcorder, etc, and output to the different big screen like TV.

Introduction

Clock and programmable recording

A clock function is built in and it's possible for you to make a programmable recording through TV tuner(option).

Changing the booting logo

By setting the picture you like as the logo, you can change the display picture on booting for your style.

Language

Korean and foreign language subtitle are supported. All kinds of language files can be displayed on the screen. (All language file names are supported)

Firmware Update

The product performance can be enhanced through firmware update and we also support our customer's demands and suggestions.

※ Bgrade device

This product is registered and approved for electromagnetic waves as home use, it can be used in all areas including your living place.

Package Components & Accessories

■ Package Components & Accessories

※ The accessories supplied as follows can be changeable except PMP without any prior notice for enhancing performance or quality optimization.

• PMP

AC ADAPTER

USB CABLE

USB HOST CABLE

AV CABLE

OUTDOOR ANTENNA(TV)

INDOOR TV CABLE CONNECTOR

PMP BODY HOLDER

EARPHONE

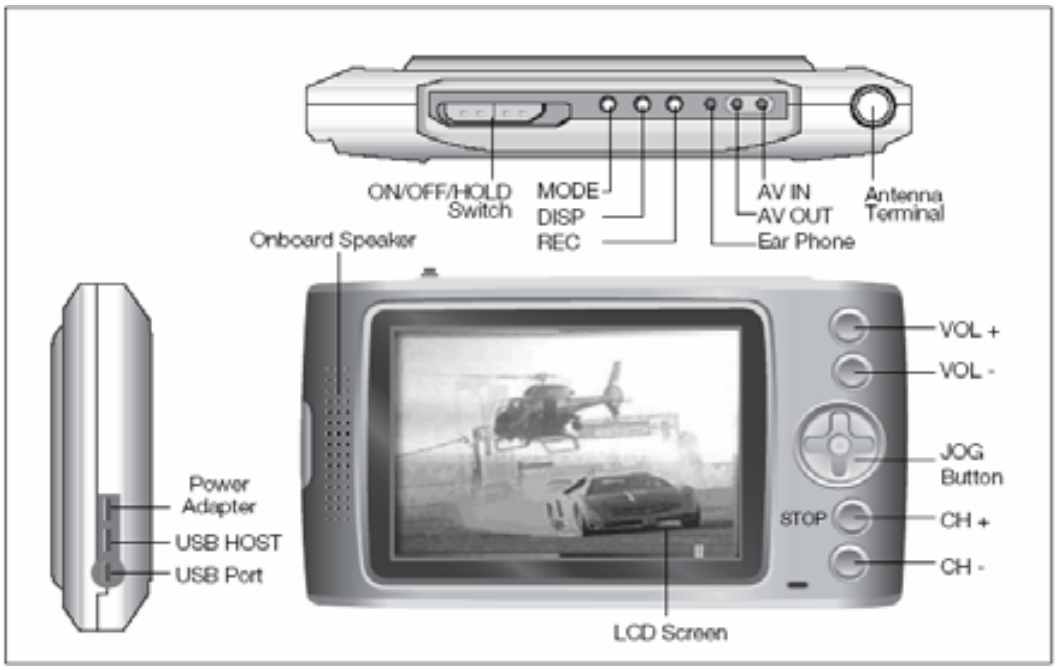
CASE

※ **The others : User's Manual, CD, etc**

Name of Part

■ Names of Controls

Names of Controls



■ Battery charge

☞ To charge the cattery, connect AC adapter to the power adapter jack of PMP.
☞ If the battery charge is insufficient, the battery indicator will flicker, and the power will automatically turn off after a while.

<Battery symbol>

with full charged

full

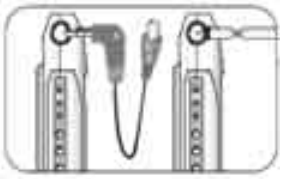
mid

small

discharged

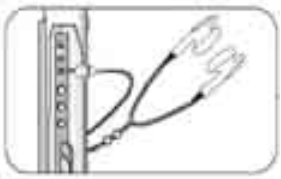
Connection

■ Connection



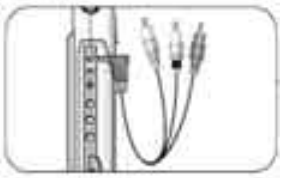
TV antenna connection (indoor & outdoor)

- Connect indoor antenna cable with the signal line (co-axis 75W) coming from the wall antenna outlet.
- Connect outdoor removable antenna.



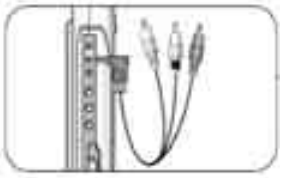
Stereo earphone connection

- Connect the stereo earphone into the earphone jack



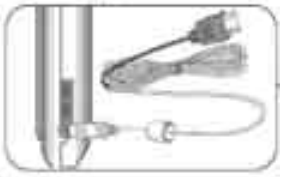
Viewing video/audio file stored in the PMP On any external AV equipment

- Connect the AV cable supplied with the device between AV out put and the external device.



Viewing video/audio playback in the external Devices on the PMP through AV input connection

- Connect AV cable between AV IN jack of PMP and other external AV device, and select Input mode in menu.



Connection with a PC

- Use USB cable supplied with the device to connect with PC.

Connection with a USB device

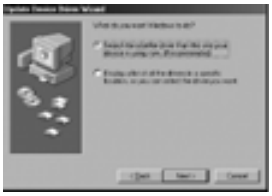
- Connect the USB Host cable supplied with the device between the USB Host port and the device.

USB Driver Installation (Windows 98)

■ USB Driver Installation (Windows 98)

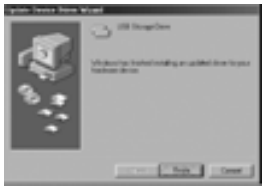
☜ When you connect the PMP to a Windows 98(SE) computer, it recognizes the PMP as hardware, and asks for a drive installation.

Press the Next button.☞



☜ Input the path or search for a desired folder directly

Insert CD supplied with the device in the CD-ROM and select 'PMP Win98 Drive. Click on the NEXT button.☞
Install the driver by clicking NEXT button. ☞



☜ Press the Finish button.

.

※ If the USB driver is not detected, delete the installed USB driver and reinstall the driver.
※ Window 2000/XP recognize the device without installing the driver.

Connecting to the PC

■ Connecting to the PC

☞ After the USB drive is correctly installed, when connecting the PMP to the PC recognizes the PMP as new hardware. The PMP will appear as a logical HDD on your PC.

☞ System Folder is basically provided. If the user delete these folders or change the name, the PMP may not work correctly.

☞ Do not format the hard disk. If you need formatting, back-up the System Folder first and then format using the "FAT32" file system. You also have to copy the backup folder again.

☞ You can create up to lots of sub-folders, and the file names can be up to 255 letters.

※ Do not disconnect the USB cable while files are being transferred.

■ Disconnecting from the PC

☞ After finishing all downloads, execute "Hardware Safe Removal". This safely disconnects the PMP from your PC.

☞ Choose the hardware you want to remove and click on the [Stop] button

☞ Choose the device you want to stop and click on [OK].

☞ After executing "Safely Remove Hardware", detach the USB cable

※ If the USB cable is disconnected accidentally, the device may get unexpected troubles

Icon & Function

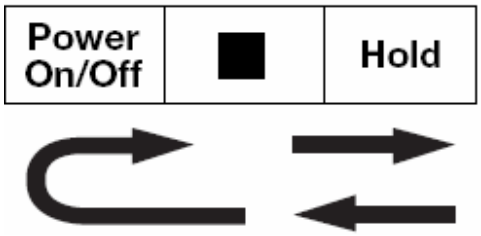
■ Main Menu Screen

●Main Menu Screen

Icon	Menu	Function
	TV(option)	Watching and recording TV program
	INPUT (aux)	Video/Audio input from the external AV equipment
	RADIO	Listening to or recording the radio
	USB HOST	After copying the file from the other USB device to the PMP, it can make a playback in the PMP.
	RECORD (voice)	Recording voice and sound through the microphone
	MOVIE (video)	Video file playback
	MUSIC (audio)	Audio file playback
	ALBUM (image)	Image(Picture) file playback
	e-BOOK (view doc.)	Viewing text file
	SETUP	Set up user's environment on the PMP

Power on/off & Key hold/release

■ Power on/off & Key hold/release



Power On	Pull and hold sliding switch to green lamp will flicker at the ON/OFF position for 2~3 seconds, then release.
Power Off	Pull and hold sliding switch to logo screen will appear at the ON/OFF position for 2~3 seconds, then power turns off.
Hold On/Off	Place the power sliding switch to the right to hold the keys, and when placing it to the middle position, it will be released.

■ Menu Selection

☞ Move the jog buttons in the « or » direction to reach the menu you want then press the the jog button to select the menu mode what you want.

☞ Whenever pressing "MODE" button on the top of the PMP, menu icons will appear on the screen, then you can move to the other menu mode what you want.

Delete File

■ Delete File

☞ You can delete unnecessary file from the PMP directly.

☞ Select the file to delete and when you press ^ button, the file deleting popup menu will appear.

<Select the file>

<Confirm the deletion>

☞ Select 'Yes' to delete the file and return to the search window.

※ The file will not be deleted during the other file playback.

Add to Playlist

■ Add to Playlist

☞ You can add your favorite video/audio/image files in the playlist

☞ Select the file and press v button to add in the Playlist

☞ Select “Yes” to add files in the playlist. Playlist window will appear.

※ File will not be added in the playlist during the other file playback

Play Mode/Section Repeat

■ Play Mode/Section Repeat

☞ Go to "FUNCTION" in "SETUP" menu to select video/audio section repeat mode that you want as follows

D	All files playback in the folder
F	The current file Repeated playback of the current file repeat
R	Random file playback
X	Return to the search window after playback the current file

☞ When pressing (v) button while file playback, you can setup the repeat section as following three steps

<No use>

<set initial point>

<repeat in the section>

※ This section repeat function may not work properly according to the file contents

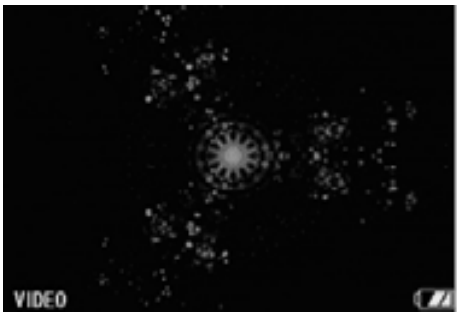
INPUT

■ INPUT

☞ Select icon and press the jog button to move to external AV input function

<INPUT Icon>

<INPUT>



☞ Press REC button to save the input file in a video (ASF) or image (JPEG) file.

☞ The recorded files are saved in the following name pattern in RecordFolder/Video (or RecordFolder/Image)

External Input (Video)	➡ VIDEO_050101104327.ASF (VIDEO_ Y/M/D/H/M/S)
External Input (Image)	➡ VIDEO_050101104120.JPG (VIDEO_ Y/M/D/H/M/S)

☞ Recording setting enables you to set the recording files into video(ASF) or image(JPG) after selecting DEVICE icon in the SETUP menu

RADIO

■RADIO

☞ Select the icon and press the jog button to move, then the radio window appears.

<RADIO Icon>

<RADIO>

☞ Press the jog button to enter the Radio channel setup menu.

RADIO

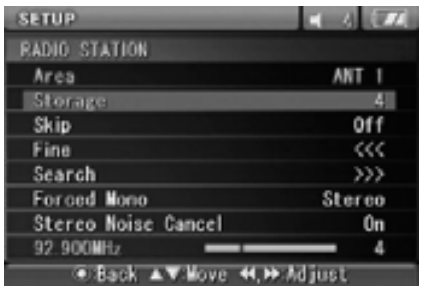
☞ There are two setting options in the Radio channel setup menu; Auto setting and Manual setting.

☞ RADIO Auto Channel Setting: The function automatically searches the signals avaliable and saves them in the memory. Select start auto channel setting and press ⏩ button to save the channels.

<Auto programme>

☞ RADIO Manual Channel Setting: User can select the desiring channel to save in the memory. Select save channel and press 4 button to save the channel.

<Manual program>



☞ When pressing "REC" button, you can record the current program in MP3 file.
☞ The recorded files are saved in the following file patterns in RecordFolder/Audio folder.

RADIO ➔ RADIO_050101062122.MP3 (RADIO_ Y/M/D/H/M/S)

※ FM Radio will not work without connecting earphone to the jack of PMP

USB HOST & RECORD

■ USB HOST

☞ Select icon and press the jog button to search and open the files of the other USB device connected in USB HOST.

<USB HOST Icon>

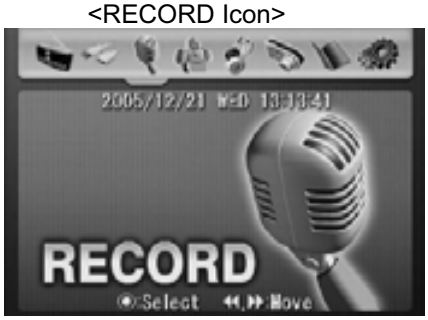
<USB HOST>

☞ File playing, data copy and others can be performed while the device is connected with a USB device (Digital Camera, MP3 player, Memory stick).

☞ Select icon and press the jog button to move to RECORD Window.

■ RECORD

<RECORD Icon>



<RECORD>

☞ You can choose the recording time from 5min. to max. 24hours by using jog button.
☞ The recorded files are saved in the following file patterns in RecordFolder/Audio folder

Voice Recording	➔	VOICE_050101055903.MP3 (VOICE_ Y/M/D/H/M/S)

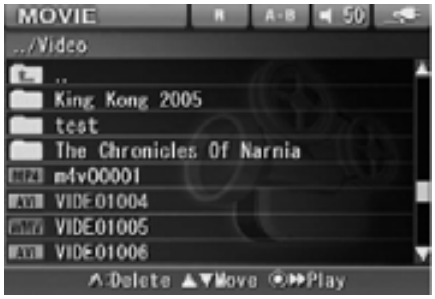
MOVIE

■ MOVIE

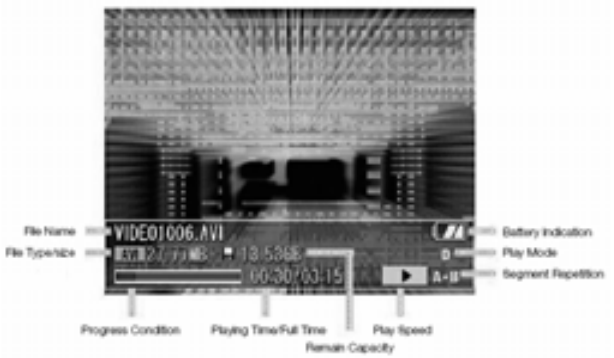
☞ Select icon and press the jog button to open the movie file.

<MOVIE Icon>

<MOVIE>



☞ Select the file you want to play and use ⏩ or press the jog button to play.



☞ Press REC button in play to enlarge the image (2x/4x).

☞ Subtitle appears after selecting FUNCTION icon at SETUP menu, and language

MUSIC

■ MUSIC

☞ Select icon and press the jog button to open the movie file.

<MOVIE Icon>

<MOVIE>

☞ Select the file you want to play and use ▸▸ or press the jog button to play.

☞ When pressing the jog button while music playback, the current music information and search window will appear.

※ ID3 tag information will appear from only MP3 file, but in case of radio/voice recording, it doesn't appear

ALBUM

■ ALBUM

☞ Select icon and press the jog button to search and open the music file.

<MUSIC Icon>

<MUSIC>

☞ Select the file you want to play and use ⏩ or press the jog button to play.

☞ Select 'Slide Show Time Set' in the setting menu to view the slide show

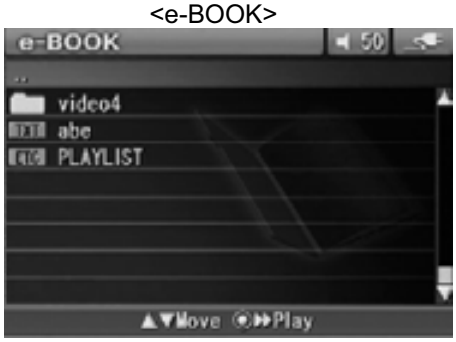
e-BOOK

■ e-BOOK

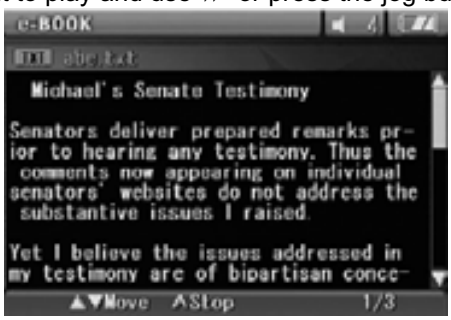
☞ Select icon and press the jog button to search and open image file.

<e-BOOK Icon>

<e-BOOK>



☞ Select the file you want to play and use ▸▸ or press the jog button to play



☞ Select DISPLAY icon in SETUP menu and then select text mode language to set the text encoding mode.

※ As this e-BOOk function opens only TXT file format, so it may not readable when it's not a text file format

SETUP

■ SETUP

☞ Select icon and press the jog button to open SETUP menu.

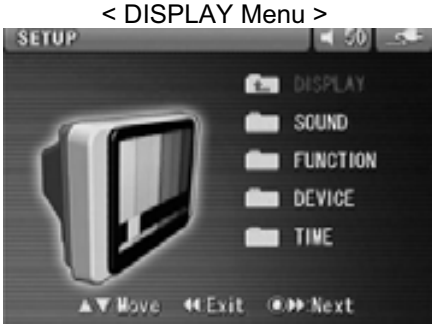
<SETUP Icon>

<SETUP Menu>

■ DISPLAY

☞ Select DISPLAY icon and press the jog button to move to DISPLAY Menu Window.

< DISPLAY Menu >



< DISPAY Menu Window >

☞ LCD display output: selecting whether display output through PMP LCD or not. It will be helpful when it shows only through external equipment.

☞ AV Out: To save battery power consumption, it always OFF mode after power OFF & ON, so set AV Out ON mode every time you want to watch AV OUTPUT through external equipment.

☞ Text Mode: You can set the text encoding mode at the subtitle on the movie or viewing e-BOOK text file.

SETUP

☞ PICTURE MODE
You can select picture color mode from User, Dynamic, Standard, Mild options.

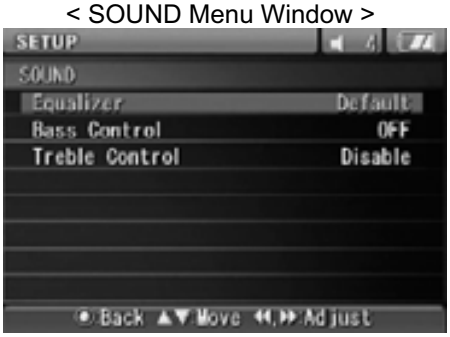
☞ Brightness LCD contrast and brightness can be customized.

■SOUND

Select SOUND icon and press jog button to move to SOUND menu Window.

< SOUND Menu >

< SOUND Menu Window >



☞ Equalizer: You can enjoy various music tones (Bass/Treble) by selection following options: Normal, Rock, Pop, Jazz, Classic, Dance, Metal, Disco, Soft, Live and Hall

☞ Bass Control: Controlling low-pitched sound.

☞ Treble Control: Controlling high-pitched sound

SETUP

■ FUNCTION

☞ Select FUNCTION Icon and press the jog button to move to FUNCTION Menu Window.

< FUNCTION Menu >

< FUNCTION Menu Window >

☞ Output Color System: Setup NTSC or PAL according to the external display Equipment

☞ Input Color System(Option): Setup NTSC or PAL according to the external video system.(Except NTSC area)

☞ Full Screen: Setup display resolution output according to the PMP LCD size.

☞ Resume: It records the previous stop point of the last video/audio playback, then when it plays again, it's possible to play from the stopped or beginning point.

☞ Caption: when the file name is same as video file with extended file name "smi" or "sami", it can be a subtitle of the video file which is playing.

☞ V.P Repeat / A.P Repeat

Off → After the current file playback, it returns to the menu.

File → Repeating playback to the current file

Dir → Repeating playback of all files in the folder

Rand → Random file playback

☞ Slide show time: You can select slide show time for the Album function.

SETUP

■ DEVICE

☞ Select DEVICE icon and press the jog button to open DEVICE Menu.

<DEVICE Icon>

<DEVICE menu>

☞ Language: It supports the multi languages.

☞ File format : Setup the recording file format as ASF(Video) or JPG(image)

☞ REC. MODE: Setup the recording file resolution

Video →High resolution – 640 X 480, normal – 320 X 240, low resolution – 192 X 144

Image →High resolution – 720 X 480, normal – 640 X 480, low resolution – 352 X 240

☞ LCD Power save: Setup display off time from 10 to 60 sec., if there is no key control, however while watching TV or video, it doesn't work.

☞ HDD Power Management: When it's ON, it saves battery power consumption by hard disk power saving mode.

SETUP

■ TIME

☞ Select TIME icon and press the jog button to open TIME menu.

<TIME Icon>

<TIME Menu>

☞ TIME Setting: Setup the system time

☞ Reserved Recording: Setup programmable recording for TV program(Option)

☞ Reserved Recording Time: Setup the recording time

☞ Reserved REC CH: Setup the channel for the programmable recording.

☞ Auto sleep : If there is not TV/AV INPUT signal or if there is no file playback without touching any key control for more than 3 minutes, the power will be turned off automatically.

☞ Sleep timer: Setup the time for Auto sleep.

※ Programmed recording is only available for the model provided with TV

Product Specification

	Features	Description
Audio	No. of Channel	Stereo (left/right)
	Frequency range	20 Hz ~ 20kHz
	Headphone output	35mW+35mW (at max. volume, 16Ω)
	Speaker output	400mW (at max. volume, 8Ω)
	S/N ratio	90 dB or more (A Filter)
TV	Tuning	FS, FVS
	Program No.	100X4
	Tuner	VHF/UHF, CATV/HYPER
		NTSC/PAL
FM Radio	Frequency range	76.0MHz~108.0MHz (World wide)
	S/N ratio	50 dB or more (A Filter)
File Support	Decoding	Video: XviD, AVI, WMV,etc(Divx3.5....) Audio: AC3, MPEG 1/2/2.5 Layer 3, WMA Image: JPEG
	Encoding	Video: ASF (640X480, 320X240, 192X144) Audio: MP3 Image: JPEG (720X480, 640X480, 352X240)
	Tag	ID3 V1 Tag
	Caption	Video caption file (smi)
	Others	Text file
	Size (W X H X D)	127(mm) X 77(mm) X 24(mm)
General	Weight	250g
	Playback hours	Video:approx 7 hours (QVGA), 5 hours (VGA) (at LCD brightness 5, volume 20, using earphone) Audio:approx 10 hours (at LCD off, 128kbps, volume 20, using earphone) TV:approx 6 hours (at LCD brightness 5, volume 20, using earphone) Radio:approx 15 hours (at LCD off, 128kbps, volume 20, using earphone)
	Language	Multi-language
	Storage device	1.8 20GB/30GB HDD
	USB	USB 2.0 (compatible with USB 1.1)
	Recharge	Recharge with the adapter supplied with the device (5 hours)
	Battery	Li-polymer Battery
	LCD	3.5 TFT LCD

PRODUCT WARRANTY

PRODUCT WARRANTY

Product Name				Model	
Purchase Date	Year		Date		Month
Customer		Tel.		Address	
Location of Purchase		Tel.		Address	
Warranty Period					

* When requesting repair, for warranty service please present this warranty with the date of purchase recorded.

* During the warranty period we will repair any defect in material occurred under normal conditions free of charge, labor included.

* When warranty period has elapsed, or even during warranty period, we may charge for our repair service if it is justified to do so.