Portable Navigation Device
(NVM-4030)

Reference Manual

**User instructions for operating
the SANYO NVM-4030**

Warnings and Notices
For your safety, do not operate the controls of the product while driving.

GPS satellite signals cannot typically pass through solid materials (except glass). GPS location information is not typically available inside buildings, tunnels, or underground parking lots.

A minimum of 4 GPS satellite signals is needed to calculate your GPS position. Signal reception can be affected by weather events or overhead obstacles (e.g. dense foliage and tall buildings).

Other wireless devices in the vehicle may interfere with the reception of satellite signals and cause the reception to be unstable.

Adapter
Do not attempt to service the unit. There are no serviceable parts inside.
Replace the unit if it is damaged or exposed to excess moisture.

Do not use the adapter if the cord becomes damaged.

Connect the adapter to the proper power source. The voltage requirements are found on the product case and/or packaging.

Battery
This unit contains a non-replaceable internal Lithium Ion battery. The battery can burst or explode, releasing hazardous chemicals. To reduce the risk of fire or burns, do not disassemble, crush, puncture, or dispose of in fire or water.
Use only the specified charger approved by the manufacturer.

WARNING: The Lithium-Ion battery in the device must be recycled or disposed of properly.

Federal Communication Commission Interference Statement

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 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.

       FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Table of Contents

Chapter 1 NVM-4030 PND Features and Specifications

1.1   SANYO NVM-4030 PND features

The SANYO NVM-4030 Portable Navigation device is a powerful multifunction GPS/multimedia navigation and entertainment device.

- Compact size and lightweight
- Integrated GPS receiver for GPS navigation
- Embedded SD/MMC card slot ensuring ample data storage for mapping and application software
- Incorporates high-performance GPS antenna
- High-resolution color LCD
- 4" wide touch screen with 16:9 scale
- Bluetooth v1.2 supported with hands-free, headset profiles
- TMC (traffic message channel) supported
- Multimedia functionality with high performance processor

1.2   NVM-4030 Specifications

Table 1: dimensions and specifications

Category	Item
Overall dimension (w/o antenna)	146.874 mm x 88.31mm x 26.74 mm
Weight (incl. battery)	270g
Certificates	FCC
Hardware Main unit	
CPU	Samsung S3C2440, 400 MHz, ARM compatible
NAND Flash	256MB, Up to 2GB
RAM	64MB
Bluetooth	Bluetooth v1.2 compatible

Table 1: dimensions and specifications

Category	Item
Buttons	5 buttons
Navigation pad	Touch screen
Indicators	Green/red for power, blue for Bluetooth
Earphone	3.5mm, stereo
Memory Extension	SD/MMC Memory Slot
Display	4" Touchscreen, 480 x 272 pixel, TFT, 16.7M colors
Connectors	MiniUSB, external GPS-antenna, external TMC antenna, SD slot
USB Interface	USB v1.1
Software	
Functions	Video playback, image viewer, audio playback, navigation, Contacts, RDS-TMC (optional), FM radios (optional)
OS	Windows CE 5.0
Bluetooth Profiles	Hands-free
-Answer phone, Volume up/down, Dial up, Hang up phone, Reject phone, Caller ID display, Echo cancellation, Dialing-out	
Main Battery	
Type	Rechargeable Li-Ion
Voltage/Capacity	3.7V, 1900mAh
Runtime (GPS on, Backlight on)	Approximately 2h (typ.)

Table 1: dimensions and specifications

Category	Item
Charge time	4.5 hours
GPS	
Type	internal
Chipset	SiRF GSC3
Antenna type	Patch antenna
Very first start time (cold start)	typ. 42 sec
Warm start (after fix and power-off >= 4hrs)	typ. 35 sec
Hot start (after fix and power-off < 4hrs)	typ. 1 sec
Car Adapter	
Input rating	12-24V
Output rating	5.0V, 2A
Power indicator	Red LED, non blinking
Fuse	2A
Certificates	e-Mark
AC Adapter	
AC-Rating	110-240V, 50-60Hz
DC-Rating	5.0V, 2A
Protection class	II, LPS
Certificates	CE, UL, TUV
Extras	Main plugs exchangeable for supporting UK, EU, US and Korea areas

Table 1: dimensions and specifications

Category	Item
USB ActiveSync Cable	
Length	120 cm

Chapter 2 Getting Started

This chapter describes the hardware interface of the SANYO NVM-4030 and its peripherals. Instructions for setting up the device and some basic system operations are also discussed.

> **NOTE:** Although the NVM-3040 rechargeable Li-Ion battery comes approximately 30% charged, before using, it is best to connect the AC adapter and plug to power socket and fully charge the battery. The On/Off button will glow yellow when charging.

2.1   Hardware overview

This section introduces the NVM-4030 PND external features and hardware components.

2.1.1   Packing list

The SANYO NVM-4030 box contains all of the items listed below:

- NVM-4030 Portable Navigation Device
- Car mount kit
- Car mount cradle
- Car charger
- AC adaptor
- USB cable
- User documentation
- RNVM-4030 Portable Navigation Device Companion CD
- RNVM-4030 Portable Navigation Device Quick Start Guide
- RNVM-4030 Portable Navigation Device Warranty Booklet

> **NOTE:** AC converters match your region of purchase and many times with have different connectors.

2.1.2   Front Panel

Figure 1: Front Panel View

Table 2: Front panel controls

1	LED	Glows blue when Bluetooth connected
2	Microphone	Microphone
3	Speaker	Speaker

Figure 2: Top and Bottom view
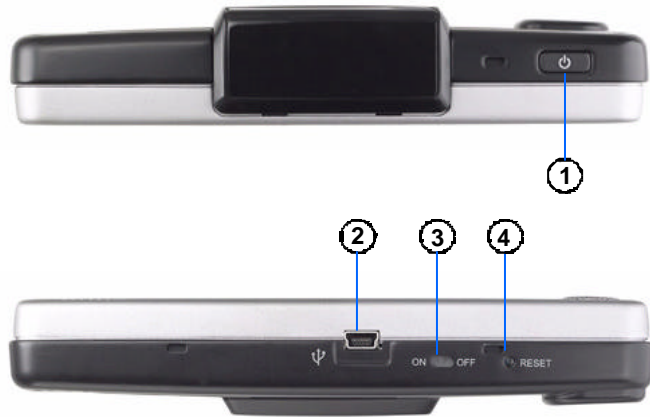
Figure 3: Left and Right side view
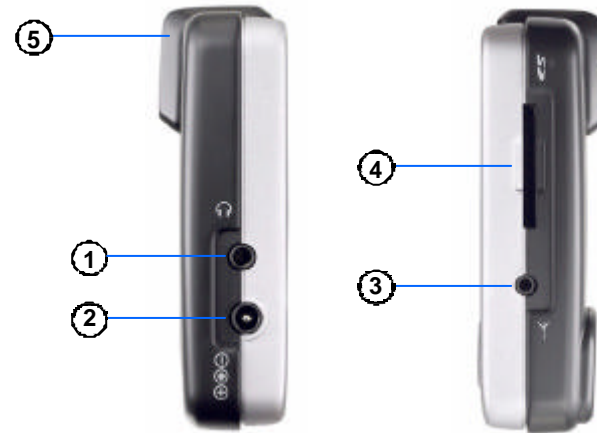
Table 3: Top and Bottom controls

No.	Function	
1	Power button	Normal On/Off power button.
2	USB input	Connects to the USB cable.
3	On/Off	The main power/battery cutoff switch.
4	Reset	Restarts your device with (a soft reset).

Table 4: Left and Right panel controls

No.	Function	
1	Headphone	Standard stereo headphone jack.
2	DC Power input	For Adapter or car charger
3	FM antenna	For FM reception
4	SD/MMS slot	Accepts a SD (Secure Digital) or MMC (MultiMediaCard) card for data storage.
5	GPS antenn	This connector (under rubber dust cover) allows use of an optional external GPS antenna.

Chapter 3 Using the NVM-4030

3.1   NVM-4030 Operating Basics

After fully charging the NVM-4030, it is ready to be used. You can now turn it on to calibrate the screen. After screen calibration, proceed to system settings configuration.

3.2   To turn on and calibrate the device:

1. Turn on your device by pressing the power button on the top right panel of the device.
2. Tap the center of the black dot as it moves around the screen.

> **NOTE:** When you first turn on your device, you will be asked to calibrate the screen. This process ensures the accuracy of the touchscreen when used.

After calibrating the screen, the Main Menu panel displays. This is also referred to as the Home panel.

3.3   To configure system settings:

If you intend to start using your NVM-4030 at once, we recommend that you
configure the language and date/time settings first. The rest of the user prefer-
ences can be set up later.

1.   Tap "System" in the Main menu.
2.   Tap "Language" on the System Menu panel.
3.   To set the system language settings, tap the forward or backward arrow
      until the language you want appears.
4.   Tap the Up Arrow in the top left to set the language and return to the Sys-tem Menu.
5.   To set the system date and time, tap "Date & Time" in System Menu.

6.   Tap the correct Year, Month and Day.
7.   Tap the Up Arrow in the top left to set the Date and return to the "Date & Time" Menu.
8.   Tap the "Time" in the "Date & Time" Menu.
9.   Tap the Up Arrow in the top left to set the Date and return to the "Date &
      Time" Menu.
10. Next, tap "Time Zone" in the "Date & Time" Menu.
11. Tap the Up Arrow in the top left to set the Date and return to the "Date &
      Time" Menu.
12. Tap the Up Arrow in the top left of the "Date & Time" Menu to return to the System Menu.

3.4   Additional System settings

Other System setting can be used to view and adjust your device current prefer-
ences. Navigate from the System Menu.

3.6   Volume

1.   Tap the Volume icon in the System Menu.
2.   Tap + or - to set default system sound volume.
3.   Tap the Up arrow to save and return to the System Menu.

3.5   Backlight

1.   Tap the Backlight icon in the System Menu.
2.   Adjust the Backlight brightness.
3.   Adjust how long you want to wait before Backlight goes into power sav-
       ings mode while using battery or connected to a power source.
4.   Tap the Up arrow to return to the System Menu.

3.7   Power

1.   Tap the Power icon in the System Menu.
2.   You can view the remaining batter power in the top bar.
3.   Adjust how long you want to wait before the Hot Key LEDs turn off auto-
       matically.

NOTE: Check Hot Keys backlight (LED) turn on when pressed. To conserve battery power, these settings should be set to lowest values.

3.8   System Information

1. Tap the Sys Info. icon in the System Menu.
2. You can view the OS version, GPS firmware version and other system information.
3. Tap the Sys Info. icon in the System Menu.
4. You can view the OS version, GPS firmware version and also calibrate the device from this screen.
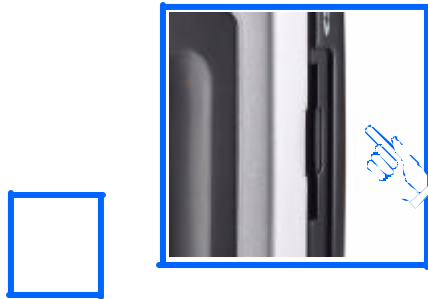
Chapter 4 Synchronization with a PC

4.1   Exchanging data between the NVM-4030 and your PC

4.1.1   Using the SD/MMC slot

The NVM-4030 has an SD/MMC slot compatible with a range of SD and MMC
storage cards that you can use to back up or transfer files and data.
Along with photos, music and videos, the GPS navigation system program is
also stored on the storage card. To install and use maps, the program requires
that users load the digital maps available in the GPS Navigation SD card that
supports the device.

4.1.3   To remove a storage card:

1.   Hold the device securely, then push against the top of the card, as if you
      were pushing it further into the slot, letting the card spring out. An audible
      system sound will signal that the card has been released.
2.   Gently remove the card from the slot.

4.1.4   Establishing device-PC connection

The USB cable that comes with your device enables you to connect the device
to your computer. File Explorer displays the NVM-4030 as a USB mass storage
device, with the SD/MMC card shown as a sub-folder. Once connected, you
can use File Explorer to copy digital music and image files into your device's
SD/MMC card and access them when in Multimedia mode.

- It is advisable to organize files into subfolders. These subfolders will
  become play lists and help you to manage and better access the files on
  your device.

- To enable access of multimedia files from your device, the files should
  be located on the SD/MMC card, not on the device's memory.

4.1.2   To insert a storage card:

Hold the device securely, then push the card into the slot until you hear an audi-
ble system sound; this will signal that the card is already properly seated within
the slot. The card is secure when it is not protruding from the slot.

4.2   Installing Microsoft ActiveSync

Use Microsoft ActiveSync to exchange information between your NVM-4030
and a computer running on the Microsoft Windows platform.

If you have a previous version of the Microsoft ActiveSync installed in your
computer, uninstall it first before installing the Microsoft ActiveSync 3.8 ver-
sion from the RNVM-4030 CD.

4.2.1   Minimum installation requirements:
- Microsoft Windows XP, 2000, ME, and 98 SE
- Microsoft Outlook 2000 or later required for Contacts synchronization
- Microsoft Internet Explorer 5.0 or later
- Hard disk drive with 12 to 65 MB of available hard disk space
- Available USB port
- CD-ROM drive
- VGA graphics card or compatible video graphics adapter at 256 color
  or higher

4.2.2   To install Microsoft ActiveSync on your computer:
1. Close any open programs, including those that run at startup, and disable
    any virus-scanning software.
2. Insert the SANYO NVM-4030 Companion CD into your computer's CD-
    ROM drive.

The CD's welcome page should appear.
3. Click the installation language of your choice.
4. Click Install ActiveSync on the Please select your task screen

The installation wizard will automatically begin.

5. Follow the on-screen instructions.
After installation, the ActiveSync icon will appear on your computer's system tray (on the lower right-hand corner of the screen).

You can also use Explore in Activesync to look at all the content on your device (as shown below).

Once ActiveSync is installed on your computer, you can use it to transfer files (i.e. MP3 files) between your device and your computer.
For more detailed information on how to use ActiveSync on your computer, start ActiveSync on your computer, click Help, then Microsoft ActiveSync Help.

4.3 Installing Contacts Manager

Use Contacts Manager to manage the contact information located on your device and on your computer. This PC program shares the same contact database as the Contacts component of Microsoft Outlook. It only has an import/export function; you still have to create contact entries in Microsoft Outlook Contacts.

4.3.1 To install Contacts Manager:

1. Click Install Contacts Manager on the Please select your task screen. The installation wizard will automatically begin.

2. Follow the on-screen instructions.
3. Click Finish after the installation process is completed.

4.3.2   Creating a partnership

After completing the Activesynch installation and Contents manager installation, set up a partnership between your NVM-4030 and your computer with the help of the New Partnership setup wizard.

Once you've created a partnership, you will be able to synchronize contact information using ActiveSync.

To create a partnership:

1.   If you want to upload files into an SD/MMC card for use with your NVM-4030, insert the card to the device.

2.   Connect the device to your computer using the bundled USB cable.
   - Plug the cable's smaller connector to the USB port on the bottom panel of the device.
   - Plug the USB client connector into an available USB port on your computer.

The New Partnership setup wizard will automatically start on your computer screen.

3.   Follow the onscreen instructions.
4.   When prompted to select the items to be synchronized, select only ContactSync.
5.   Click Finish on the Setup Complete dialog box.

The initial synchronization process will automatically begin when you finish using the wizard. After the initial synchronization, information you've stored in Microsoft Outlook Contacts on your computer will now be available on your RNS-3200 without you having to manually input them on the device.

6.   Disconnect your device from the computer and you're ready to go.

Now, once you have completed the first synchronization process, you can initiate synchronization from your device anytime, using the USB cable.

Chapter 5 Contacts Management

This chapter discusses the basic functions of Contacts on the NVM-4030 PND device. Details on how to perform contacts management tasks from your computer is also provided.

Contact files imported/exported to and from your device and computer are saved in .fs format.

5.1 Contacts

Contacts maintains a list of your friends' and colleagues' contact information. These include their E-mail address, street address, multiple phone numbers, and other related information, such as birthdays or anniversary dates.
You can enter multiple address entries for each contact. This program is integrated with GPS navigation enabling users to treat all address entries as possible destination points in navigation mode.

5.1.1 Using Contacts

5.1.2 To open Contacts:
The control pad displays the list of contacts and several command buttons for performing various Contacts tasks.

1. Tap on the Main Menu panel. The Contacts control pad displays.

5.1.3 Creating a new contact
1. Tap New.

2. Tap on the space to enter the related information for the new contact.

5.1.6   Importing contacts to your NVM-4030.

1. Make sure there is a SD or MMC storage card in the device.

Imported contact file(s) will be saved to this storage card for access by your NVM-4030.

2. Tap in the Contacts control pad.

3. Select contact files (.fs) you want to import (previously set up by Active-synch with Outlook contacts). Selected the contact(s) that will be imported to the SD/MMC card installed in your device.

4. Click OK on the completion dialog box.

3. Enter other address and contact information

4. Tap "SAVE" to save the new contact.

5.1.4   Editing contact information

1. In the Contacts control pad, tap the contact you wish to edit.

2. Tap Edit.

3. Enter the new information for the contact.

4. Tap "SAVE" to save the new contact.

5.1.5   Navigating to a contacts address

1. In the Contacts control pad, tap the contact whose address you want to navigate to.

2. Tap GPS

Address entries for the selected contact appears.

3. Tap the address you want to navigate to.

4. Tap Navigate.

The calculated route is shown on the map as a blue line from your current GPS position.

5.1.7   Exporting contacts from your NVM-4030.
1.   Insert an SD or MMC storage card into the device.
Exported contact file(s) will be saved to this storage card for later access from
your computer.
2.   Tap   in the Contacts control pad.
3.   Select whether to export all contacts, or just the currently selected one.
    Selected contact(s) will be exported to the SD/MMC card installed in your
    device.
4.   Click OK on the completion dialog box.

5.1.8   Deleting contacts
1.   In the Contacts control pad, tap the contact whose address you want to
    delete. Tap delete.

2.   Confirm.

Chapter 6 Entertainment

6.1 **MP3**

Enjoy your favorite music on the road. The program features:

- Support for MP3, WMA, and WAV files
- Auto-scanning of supported files in the device's SD/MMC card
- Separate volume control enabling you to adjust the playback sound level while retaining the volume level set for system sounds
- Hot key function for volume control
- Playlist support based on sub-directory contents

Each sub directory containing compatible music files is treated as an individual playlist. For a more organized file search, it is advisable to named sub directories based on genre or listening preferences.

6.3.1   Using the MP3 player.

6.3.2   To enter into the different media players.

1.   Tap the Entertainment icon in the Main Menu.

2.   Tap "MP3 Player" in the Entertainment menu.

NOTE: You can also enter the MP3/music player by pressing the music hot key on the front panel.

Table 6: MP3 player functions

No.	Function	Description
1	Repeat	Repeats the selection
2	Random play	Plays files random order
3	File collection/playlist	Goes back to main file/folder view
4	Skip backwards/forwards	Advances one song forward or backward
5	Pause/Stop	Stops play

4.   File collection menu (from #3 above).

3.   The MP3 player window below controls playback.

Chapter 7 Hands-free calling/Bluetooth

7.1   NVM-4030 Bluetooth

Once your Bluetooth-enabled mobile phone is paired with your NVM-4030, you can make hands-free phone calls through your NVM-4030's integrated micro-phone and speaker. The NVM-4030 makes it easy to make and receive phones calls with ease while on the go.

Hands-free calling keeps things safe, letting you keep your eyes on the road, while your NVM-4030 integrates seamlessly with your mobile phone. Easy to connect and use, just follow a few quick steps to enjoy the benefits of Hands-free calling.

7.1.1   Connecting to your bluetooth mobile phone

1.   Make sure that you mobile phone's bluetooth is turned on.
2.   Tap on the Hands-free icon in the main menu of the NVM-4030

3.   Next you will see the Hands-free calling window giving a choice of "Call out" or "Connection."

4.   Choose "Connection if it is the first time you are connecting to your mobile phone.

5.   Next you will get a message saying "Searching all available Bluetooth devices. Waiting......" as shown below.

6.   If no devices are available, a "Can't find any BT devices" will appear.

7. Otherwise, you will see a list of Bluetooth devices that are within proximity of your NVM-4030.

8. Next, select the device you want to connect to. In this case, lets connect to Sally's W800i.

9. The mobile phone will often require you to enter a password to connect the device. Enter 0000 on the mobile phone in this case.

10. That's it, your mobile phone and the NVM-4030 auto negotiate a Bluetooth connection and now you are ready to make and receive calls. A confirmation window appears in the NVM-4030 to confirm the connection was made.

7.1.2   Making and receiving calls

1. Now you can hit Call out

2. The Hands-free calling screen appears that will let you control the function as well as dial from your NVM-4030 as long as the Bluetooth connection is maintained from your mobile phone.

3. Redial lets you easily view the most recent phone numbers you connected to.

4. Start enjoying the convenience and safety of hands-free calling with your NVM-4030.

Chapter 8 Troubleshooting and Maintenance

8.1   General toubleshooting

8.1.1   System stops responding; is "frozen" or "locked up."
- To reset the RNS-3200, take a sharp object like a pen or paper click and depress the reset button on the bottom of the device. This is called a "soft reset."

8.1.2   If your device still does not respond, do a "hard reset."
- To do a "hard reset," Disconnect all cables, including the AC adapter, from your device. Use a sharp object pen to slide the primary ON/OFF switch on the bottom of the device to the OFF (left) position.

-

8.1.3   Users can also perform a "system reset."
- To do a "system reset," in the Main menu, tap System, then tap System Info. This will allow you to do a factory reset (restore to default settings), reset the GPS and recalibrate the touchscreen interface.

8.1.4   Screen responds slowly
- Make sure you have enough battery power.

8.1.5   Inaccurate response to taps.
- Recalibrate the touch screen.

8.1.6   Connection Problems with PC.
- Make sure that the cable is securely plugged into the USB port on your computer and on the device. Connect the USB cable directly to your computer—do not run the cable through a USB hub.
- Reset your device before connecting the cable. Always disconnect your device before you restart your computer.

8.1.7   No GPS connection
- Make sure that the GPS antenna has a clear view of the sky.
- Note that the GPS reception can be affected by:
- Bad weather
- Dense overhead obstacles (e.g. trees and tall buildings)
- Other wireless devices in the car

8.1.8   No sound coming from the device.
- Make sure mute is not selected for Volume in system settings. The built-in speaker turns off when the headphone jack is being used.

8.1.9   Can't I see my photos.
- Make sure you are using suppoted image formats, JPG and BMP.

8.1.10   Takes longer than normal time to get a GPS fix.
- If the previous GPS fix position was more than 500 km or 12 hours apart from your current position and time, it will take significantly longer than the standard TTFF time to get a GPS fix. This is due to the nature of the GPS algorithm and rotational velocity between the satellites and planet Earth, and deemed normal.
- Perform a GPS reset in the main/system/system info menu to get a faster GPS fix.

8.1.11   Factory reset does not mean a GPS reset.
- No. The Factory Reset function only resets the OS settings to their default factory values; it will not reset the GPS settings.

8.2   Maintenance

- Keep your device away from excessive moisture and extreme temperatures.
- Avoid exposing your device to direct sunlight or strong ultraviolet light for extended periods of time.
- Do not drop your device or subject it to severe shock.

- Do not subject your device to sudden and severe temperature changes. This could cause moisture condensation inside the unit, which could damage your device. In the event of moisture condensation, allow the device to dry out completely before use.

- The screen surface can be easily scratched. Sharp objects may scratch the screen. You may use non-adhesive generic screen protectors designed specifically for use on portable devices with LCD panels to help protect the screen from minor scratches.

- Never clean your device with it powered on.

- Never use organic solvents such as benzene or paint thinner to clean your device. Use of these solvents can cause deformation or discoloration.

- Use a soft, clean, lint-free cloth to clean the display screen. Moistened LCD screen wipes could also be used as required.
- Never attempt to disassemble, repair or make any modifications to your device. Disassembly, modification or any attempt at repair could cause damage to your device and even bodily injury or property damage and will void any warranty.

8.2.1   Storage precautions
- Do not store your device anywhere it may be exposed to water or in conditions of high humidity.

- When the device is not in use for an extended period of time, bring it indoors and store it in cool dry area.

8.2.2   Accessories and repair precautions
- Only authorized accessories should be use with the device. The use of incompatible accessories could result in bodily injury and/or damage to the device.
- The use of unauthorized accessories will also void your warranty.
- Never attempt to disassemble, repair or make any modification to your device.

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