



## NVM-4070 Portable Navigation System

### Instruction Manual

## NVM-4070



FOR SERVICE ASSISTANCE, CALL  
Customer Information 1-800-421-5013  
Weekdays 7:30 AM – 5:00 PM Pacific Time

**FCC COMPLIANCE**

\* 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.

**FCC WARNING**

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

**CANADIAN ICES-003 COMPLIANCE**

- This Class B digital apparatus complies with Canadian ICES-003.

**NOTICE**

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.

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



# Precautions

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Original issue: Jun 2007

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## 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.
- Do not leave your device in plain sight when you leave your vehicle. Take your device with you or remove it from view to avoid theft.
- 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.

**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.

**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.
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**NOTE:** Record the device ID, serial number, purchase date, and place of purchase information in the space provided below. The serial number is indicated on the label affixed to your NVM-4070. All correspondence concerning your unit should include the serial number, device ID, and purchase information.

**Revision: 1.00**

Jun 2007

**NOTE:** Information in this manual is subject to change without notice.



## 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.

### Adaptor



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 adaptor if the cord becomes damaged.



Connect the adaptor 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.

To charge the battery, connect the AC adaptor or Car Adaptor to the main unit. Under high temperatures, however, the protection circuit may be activated and charging may not be possible.

Do not connect any accessory (car battery adaptor, AC power adaptor, etc.) other than those supplied or optional.

### FOR AMERICAN USERS

The following advisory is included in accordance with the laws of the State of California (USA):

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**NOTICE TO DRIVERS IN CALIFORNIA AND MINNESOTA:** State law prohibits drives in California and Minnesota from using suction mounts on their windshields while operating motor vehicles. SANYO does not take any responsibility for any fines, penalties, or damages that may be incurred as a result of disregarding this notice.

**NOTICE TO DRIVERS IN CALIFORNIA:** Signs, stickers, or other materials which are displayed in a 7-inch square in the lower corner of the windshield farthest removed from the driver, signs, stickers, or other materials which are displayed in a 7-inch square in the lower corner of the rear window farthest removed from the driver, or signs, stickers, or other materials which are displayed in a 5-inch square in the lower corner of the windshield nearest the driver.



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# Chapter 1 NVM-4070 Features and Specifications

## 1.1 SANYO NVM-4070 Feature

The SANYO NVM-4070 Portable Navigation System is a powerful multifunction GPS navigation and entertainment device.

- Compact size and lightweight
- Integrated GPS receiver for GPS navigation
- USA/Canada/Alaska/Hawaii/Puerto Rico map preloaded into Internal 2GB Flash
- Embedded SD/MMC card slot ensuring ample data storage
- Incorporates high-performance GPS antenna
- High-resolution color LCD
- 4" wide touch screen with 16:9 scale
- Bluetooth v1.2 supported with hands-free, profile
- Multimedia functionality with high performance processor

## 1.2 NVM-4070 Specifications

General Specification	
Overall dimension (w/o antenna)	5.1" x 3.1" x 1.1" (130 mm x 79 mm x 28 mm)
Weight (incl. battery)	9.2 oz (260 g)
Certificates	FCC
Operating Temperature	32 °F to 122 °F ( 0 °C to 50 °C)
Storage Temperature	short period: -4 °F to 140 °F (-20 °C to 60 °C) long period: -4 °F to 95 °F (-20 °C to 35 °C)
Charging battery Temperature	32 °F to 104 °F ( 0 °C to 40 °C)

Hardware Main unit	
Display	4" Touch screen, 480 x 272 pixel, TFT, 16.7M colors
Memory	NAND Flash 2GB
Indicators	Green/Red/Orange for power, Blue for Bluetooth
Speaker	1.2 W, 8 Ω
Connectors	MiniUSB (B type), SD/MMC memory slot, DC in, Headphones, TMC
(Headphones jack)	3.5mm, stereo, More than 32 Ω
(TMC antenna jack)	2.5mm
Bluetooth	Bluetooth v1.2 compatible class 2
Bluetooth Profile	HFP, DUN, FTP, SPP
FM transmitter	ON/OFF, Frequency setting
Microphone	Bluetooth Hands-free
USB Interface	USB ver. 2.0
Main Battery	
Type	Rechargeable Li-ion
Voltage/Capacity	3.7V, 2400 mAh
Runtime (MP3 mode, default settings)	Up to 4 hours
Charge time	3.5 hours
GPS	
Type	internal
Chipset	SIRF GSC3



<b>Car Adaptor</b>	
Input rating	12-24V
Output rating	5.0V, 2A
Certificates	CE, e-mark, C-Tick
<b>AC Adaptor</b>	
AC Input	100-240V, 50-60Hz
DC Output	5.0V, 2A
Certificates	CE,UL,TUV-GS,CCC,BSMI,K mark, C-Tick, Singapore Safety
<b>USB Cable</b>	
Length	4' (120 cm)
<b>SD Card</b>	
Support Capacity	Maximum 4GB (SDHC Support)
<b>MMC (Multi Media Card)</b>	
Support Capacity	Maximum 2GB



## Chapter 2 Getting Started

This chapter describes the hardware interface of the SANYO NVM-4070 and its peripherals. Instructions for setting up the device and some basic system operations are also discussed.

**NOTE:** Although the NVM-4070 rechargeable Li-ion battery comes approximately 40-80% charged, before using, it is best to connect the AC adaptor and plug to power socket and fully charge the battery. The ON/OFF button will glow orange when charging.

### 2.1 Hardware Overview

This section introduces the NVM-4070 external features and hardware components.

#### 2.1.1 Packing List

The SANYO NVM-4070 box contains all of the items listed below:

- NVM-4070 Portable Navigation System
- Dashboard Mounting Disc
- Windshield & Dashboard Car Mounting kit
- Car Power Adaptor
- AC Power Adaptor
- USB cable
- Quick Start Guide
- CD Instruction Manual
- Warranty
- DVD Map Software
- TMC antenna unit

#### 2.1.2 External Features

Figure 1: Front Panel View



Table 1: Front panel controls

No.	Function	Description
1	Power / Menu button	Normal ON/OFF power button and change menu
2	Microphone	Microphone (directional Microphone)
3	LED	Glows blue when Bluetooth connected
4	Speaker	Speaker

**NOTE:** Power / Menu button : Press the button for long interval as Normal ON/OFF power button.  
Press and hold the button for 2 seconds to turn power off.  
While unit power is on, press and immediately release the button to display Main Menu.

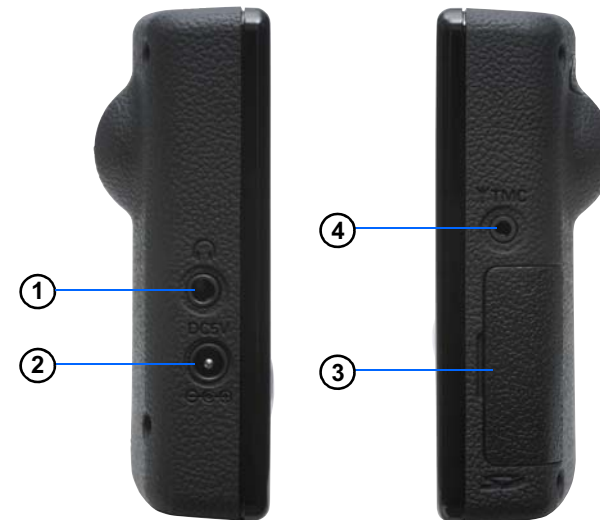
**Figure 2: Top and Bottom view**



**Table 2: Top and Bottom controls**

No.	Function	Description
1	Microphone	(nondirectional Microphone)
2	USB input	Connects to the USB cable.
3	ON/OFF	The main power/battery cut off switch.
4	Reset	Restarts your device with (a soft reset).

**Figure 3: Left and Right side view**



**Table 3: Left and Right panel controls**

No.	Function	Description
1	Headphones	Standard stereo headphones jack.
2	DC Power input	For AC Adaptor or Car Adaptor
3	SD/MMC slot	Accepts a SD (Secure Digital) or MMC (MultiMediaCard) for data storage.
4	TMC antenna jack	Standard TMC antenna jack.



## 2.2 Mounting the NVM-4070 in your vehicle

**WARNING:** Do not use the car mount kit under low temperatures. The cradle may come off because of insufficient suction power.

**WARNING:** Make sure that the car mount kit does not obstruct the driver's view, or interfere with the operation of vehicle airbags and safety devices.

The NVM-4070 comes with a car Mounting kit and a car adaptor to help install your device in your vehicle. The car Mounting kit uses a suction cup on the windshield/dashboard to offer flexible mounting options for the NVM-4070.

**NOTICE TO DRIVERS IN CALIFORNIA AND MINNESOTA:** State law prohibits drives in California and Minnesota from using suction mounts on their windshields while operating motor vehicles. SANYO does not take any responsibility for any fines, penalties, or damages that may be incurred as a result of disregarding this notice.

**NOTE:** Do attach the Car Adaptor to your device when you use it in vehicle. Rechargeable batteries may sometimes not be chargeable in the vehicle.

This section shows how to install the car mount kit in your vehicle's windshield/dashboard using the suction cup. Below is the backside view of the NVM-4070.

Figure 4: NVM-4070 Slot for Windshield & Dashboard Car Mounting kit



Slots for Windshield & Dashboard Car Mounting kit

Figure 5: Windshield & Dashboard Car Mounting kit



Table 4: The components of Windshield & Dashboard Car Mounting kit

No.	Component	Description
1	Adjustable 4 prong ratching plate	Connects the device to the ratching plate which can be adjustable horizontally and vertically.
2	Tower unit	Allows the device to be adjusted in 360°
3	Suction cup locking lever	Secures the vacuum seal of the car mount.
4	Suction cup	Fixes the car mount to the selected mounting area.
5	Suction cup release tab	Pull to release the vacuum seal of the suction cup.
6	Dashboard Mounting Disc	For Dashboard mounting usage



### Using the car Mounting kit

1. Clean and dry the mounting surface with a clean cotton cloth.
2. If the ambient temperature is below +60°F (15°C), you can warm the mounting area and the suction cup (e.g. with a hair dryer) to ensure a strong suction bond.
3. Install the car mount on the selected area.

#### On the Windshield

- a. Fix the suction cup to the selected area with the locking lever facing up for easier access.
- b. Flip the locking lever away from you to create a vacuum between the suction cup and the window surface.

#### On the Dashboard

Warning: The permanent mounting adhesive is extremely difficult to remove after it is installed.

- a. Remove the backing from the permanent mounting adhesive on the bottom of the disc and place the mounting disc on the dashboard.
- b. Fix the suction cup to top of the mounting disc with the locking lever facing up for easier access.
- c. Flip the locking lever away from you to create a vacuum between the suction cup and the mounting disc.

Make sure that the suction is strong and stable before proceeding to the next step.

4. After you are sure the mounting bracket is safe and secure, attach and slide the NVM-4070 into its ratcheting plate. It snaps in easily with the quick release connectors.
5. Adjust the car mount for the best viewing angle.
6. Connect the car adaptor into the cigarette lighter receptacle.
7. The car adaptor LED indicator will glow when powered.

8. Plug the car adaptor into the side of the NVM-4070 and position the cord to an appropriate location.

**NOTE:** Your car may be required to switch the vehicle ignition into the accessories position to power the cigarette lighter. Your NVM-4070 will not charge with the ignition off.

Figure 6: Mounting on the windshield





Figure 7: Mounting on the dashboard



9. Detach the NVM-4070 from the Car mounting kit (ratching plate)

Figure 8: Mounting on the dashboard



Press lock button on ratching plate

### 2.3 Set up TMC antenna unit in your vehicle

Figure 9: TMC antenna with take up reel



No.	Component	Description
1	TMC antenna unit	Main unit with take up reel
2	Take up lever	Lever for taking plug and lead wire up
3	Suction cup	Fix TMC antenna on Windshield
4	TMC plug and lead wire	Connect with Navigation device

**NOTICE TO DRIVERS IN CALIFORNIA:** Signs, stickers, or other materials which are displayed in a 7-inch square in the lower corner of the windshield farthest removed from the driver, signs, stickers, or other materials which are displayed in a 7-inch square in the lower corner of the rear window fartherst removed from the driver, or signs, stickers, or other materials which are displayed in a 5-inch square in the lower corner of the windshield nearest the driver.



**Figure 10: TMC antenna recommended connection method**

## New Photograph

### Using the TMC antenna unit

1. Clean and dry the suction cup surface with a clean cotton cloth.
2. Fix TMC antenna unit on Windshield as recommended connection method
3. Plug into Navigation device TMC jack

**WARNING:** Make sure that the TMC antenna does not obstruct the driver's view, or interfere with the operation of vehicle airbags and safety devices.

**WARNING:** When you reel off the TMC antenna reel, you must do it holding the plug, because reeling speed is very fast.

**NOTE:** SANYO is not responsible for the availability or quality of traffic information provided by TMC.



## Chapter 3 System

### 3.1 NVM-4070 Operating Basics

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:

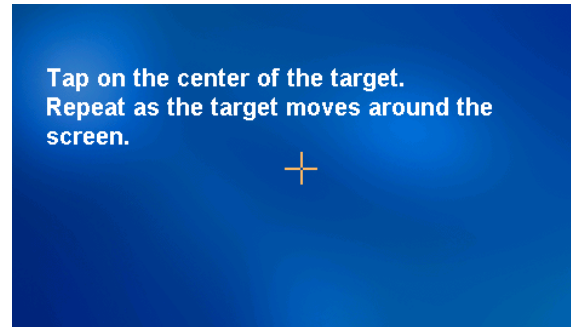
1. Turn on the Battery ON / OFF switch.

**NOTE:** If you turn on/off the device by using Battery switch, the clock will be reset. At that time, please set Date & Time again.



**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.

2. Tap the center of the target as it moves around the screen.



**NOTE:** Calibration is repeated until it succeeds.

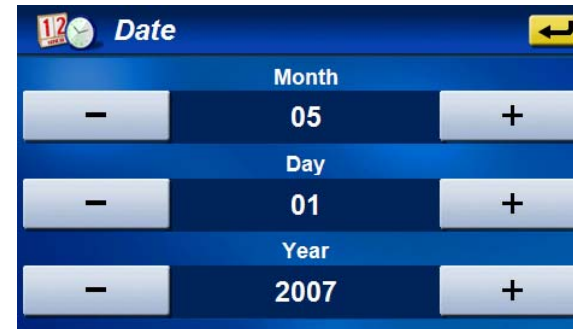
- To set the system language settings, tap the forward or backward arrow until the language you want appears.  
Tap the Return button to set the language and return to the System Menu.



- To set the system date and time, tap “Date & Time” in System Menu.  
When you tap “12H”, the time format changes to “24H” format.



- Tap the correct Year, Month and Day.  
Tap the Return button to set the Date and return to the “Date & Time” Menu.



- Tap the “Time” in the “Date & Time” Menu.



- Tap the Return button to set the Time and return to the “Date & Time” Menu.

- Next, tap “Time Zone” in the “Date & Time” Menu.  
If you check “Automatic daylight saving time”, NVM-4070 adjusts clock for daylight saving automatically.



- After all settings are finished, the Main Menu opens.



No.	Description
1	FM Transmitter Icon (This icon is displayed when FM-Transmitter is ON)
2	Battery Status
3	Bluetooth Status : Bluetooth is “ON”. Mobile phone is not connected. : Mobile phone is connected.
4	The name of the connected mobile phone
5	Time

### 3.3 System Settings

System setting can be used to view and adjust your device current preferences. Navigate from the System Menu.



#### 3.3.1 Language

Refer to Chapter 3.2.

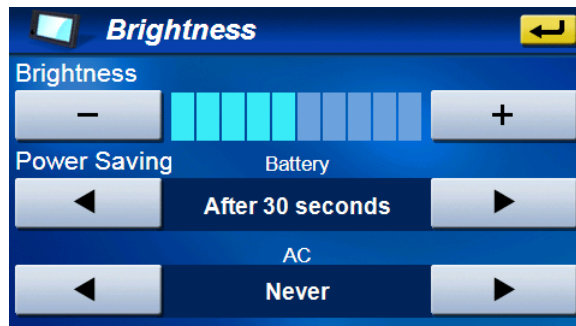
#### 3.3.2 Date & Time

Refer to Chapter 3.2.



### 3.3.3 Brightness

1. Tap the Brightness icon in the System Menu.
2. Tap + or - to set the Backlight brightness.
3. Tap the left or right arrow to set the LCD power-save of battery and AC power drive modes.
4. Tap the Return button to return to the System Menu.



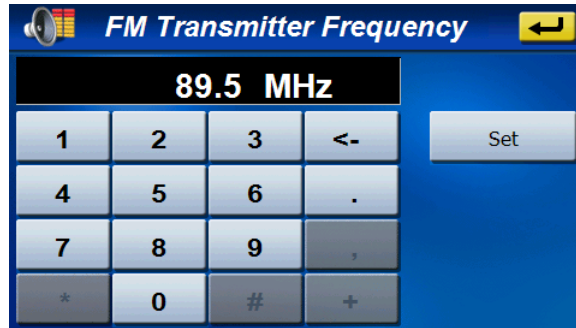
### 3.3.4 Volume

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



### 3.3.5 FM Transmitter

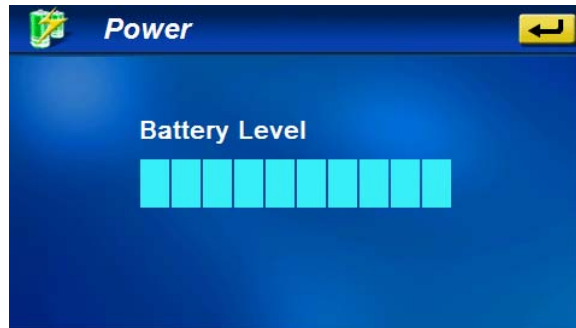
1. When tapping the bottom-left button in the Volume screen, the Check mark is added.
2. NVM-4070's Speaker output is set to OFF. Volume is changed to the maximum value automatically and FM Transmitter output is turned ON.
3. Tap the Frequency (XX.X MHz) button.
4. Input frequency using "FM Transmitter Frequency" screen and then tap "Set".



5. Tap the bottom-left button again. FM Transmitter output is turned OFF.

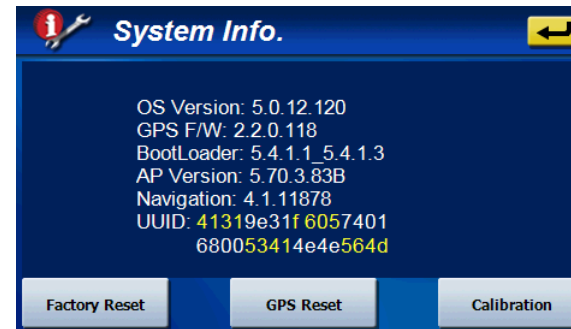
### 3.3.6 Power

1. Tap the Power icon in the System Menu.
2. When AC adaptor or Car adaptor is disconnected, you can view the remaining battery power in the Battery Level bar.
3. Tap the Return button to return to the System Menu.

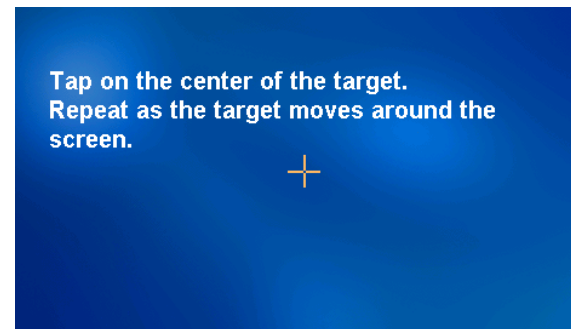


### 3.3.7 System Information

1. Tap the Sys Info. icon in the System Menu.
2. You can view the OS version, GPS firmware version and other system information.

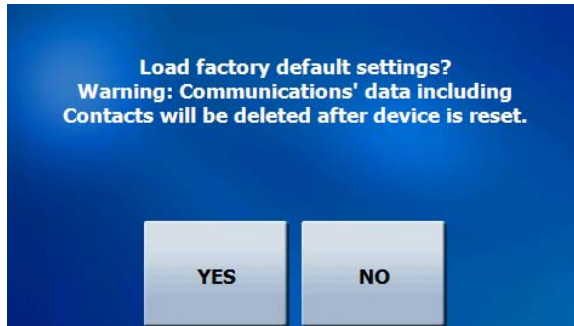


3. Tap "Calibration" to open the Calibration screen of the touch panel. Tap the center of the target.





4. Tap “Factory Reset” to open a dialog box to select whether to reset the settings. Tap “YES” to reset the settings and “NO” not to reset the settings.



5. Tap “GPS Reset” to open a dialog box to select whether to reset the GPS satellite receiver. Tap “YES” to reset the receiver and “NO” not to reset the receiver.



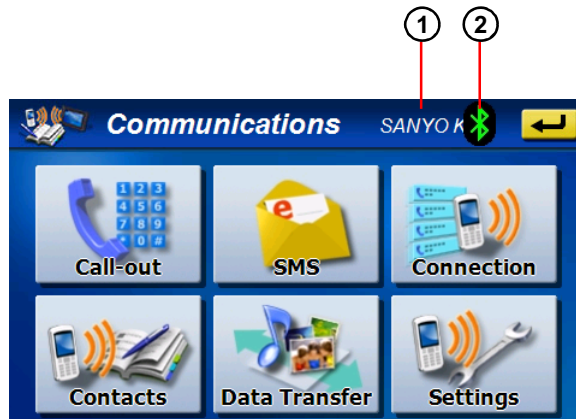
6. Tap the Return button to return to the System Menu.





## Chapter 4 Communications

“Communications” provides the various functions with the Bluetooth mobile phone.

“Communications” main menu is as follows:



No.	Description
1	The name of the connected mobile phone
2	Bluetooth Status
	 : Bluetooth is “ON”. Mobile phone is not connected.  : Mobile phone is connected.

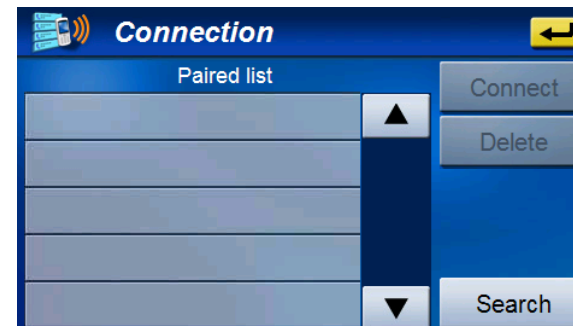
### 4.1 Connection

**NOTE:** Make sure the Bluetooth settings of your mobile phone.

- The Bluetooth switch is set to “ON” or “enable”.
  - The visibility is set to “Discoverable”, “Show my phone”.
- (For more detailed information, see your phone’s manual.)

#### 4.1.1 Mobile Phone Connection (New)

1. Set Bluetooth to “ON” in the “Settings”, and tap the “Connection” button of the “Communications” screen.



2. Tap the “Search” button. NVM-4070 starts to search available mobile phones.
3. The available phones are displayed on the phone list. Select one of the mobile phones and tap the “Connect” button.



4. The mobile phone will often require you to enter a password to connect the device. Enter “0000” on the mobile phone in this case.
5. When the connection completes, the screen returns to the “Communications” screen. The name of the connected phone is displayed on the title bar. And the Bluetooth icon changes to green.

**NOTE:** If the connected mobile phone has the Bluetooth auto-accept function, set this function to “ON”.  
(For more detailed information, see your phone’s manual.)

#### 4.1.2 Mobile Phone Connection (Reconnect)

1. Set Bluetooth to “ON” on the “Settings”, and tap the “Connection” button of the “Communications” screen. The mobile phones that have connected in the past displays on the “Paired list” .



2. Select one of the mobile phones and tap the “Connect”.
3. The mobile phone will often require you to enter a password to connect the device. Enter “0000” on the mobile phone in this case.
4. When the connection completes, the screen returns to the “Communications” screen. The name of the connected phone is displayed on the title bar. And the Bluetooth icon changes to green.

## 4.2 Hands-free Calling

“Call-out” screen is as follows:

### Call-out



No.	Name	Description
1	Dial-up	Start to make a call.
2	History	Call-out from the history of the incoming / outgoing call
3	Contacts	Call-out from the contacts. In detail, refer to 4.3.

### Call-out (in a phone call)



No.	Name	Description
4	Hang-up	Close a phone call.
5	Mute	Set the microphone muting. :Set the microphone mute to ON. :Set the microphone mute to OFF.

#### 4.2.1 Making a Call

1. Tap the “Call-out” button of the “Communications”, the Call-out screen opens.
2. Input a phone number and tap . NVM-4070 starts to make a call.
3. Tap , the phone call quits.

### 4.2.2 Receiving a Call

- When the connected mobile phone receives a call, the caller's phone number and two buttons are displayed on the screen.  
(If the phone number exists in the entry of Contacts, the caller's name is also displayed.)



- To receive a call, tap . To quit a call, tap .
- On a phone call, the “Hang-up” button and the “Mute ON/OFF” button are displayed at the top-right of the screen.



- On the “Settings”, you can do the setting of the automatic answer to phone call.

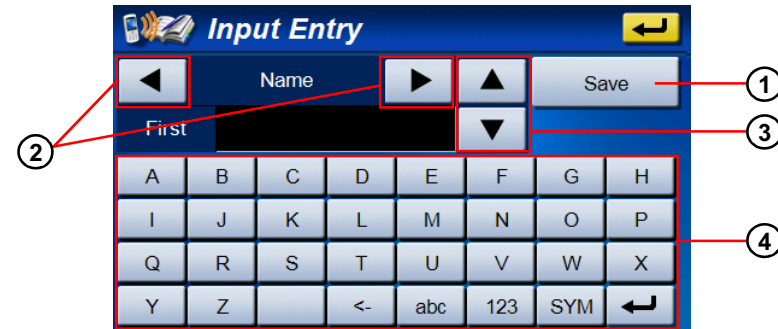
### 4.3 Contacts

“Contacts” screen is as follows:



#### 4.3.1 Create new entry

- Tap “New” button. The “Input Entry” screen opens.



No.	Description
1	Save: Save the entry
2	Category Up / Down
3	Item Up / Down
4	Keyboard (Alphabet, Numbers, and Symbols)

2. Input each item. All categories and items are as follows:

Category	Record		
Name	First		
	Last		
Phone	Home		
	Work		
	Mobile		
	Other		
Home Address	Street	City	State
	Zip	Country	—
Work Address	Street	City	State
	Zip	Country	—
Others	Company		
	E-mail		

3. Tap the “Save” button, the entry is added to the list of Contacts.



**NOTE:** The maximum number of the saved entry is 400.

#### 4.3.2 Call-out

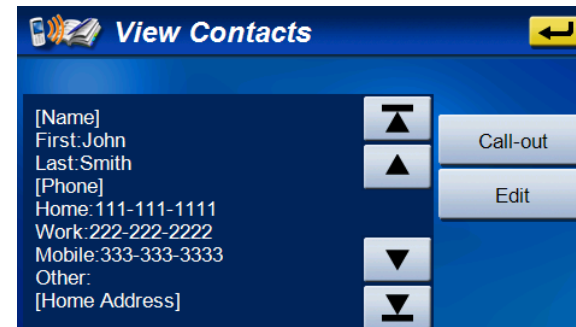
1. Select the entry and tap the “Call-out” button.
2. Select one of the enabled buttons, NVM-4070 starts to make a call to the selected number.



#### 4.3.3 View

1. Select one of the entries and tap the “View” button, the “View Contacts” screen opens.

You can see the detailed information of the selected entry.



2. Tap the “Edit” button, the “Input Entry” screen opens and you can edit the entry.
3. About the “Call-out” button, see 4.3.2.

#### 4.3.4 Delete

1. Select the entry and tap the “Delete” button.
2. Tap “YES” to delete.



#### 4.4 Data Transfer

Tap “Data Transfer” button in “Communications” screen.



##### 4.4.1 File Transfer

**NOTE:** Not all mobile phones support “File Transfer”.

1. Tap “File Transfer” button.
2. Files and folders on mobile phone appears.

moves to upper folder.

