

Navigation Homepage

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SONY

Personal Navigation System Quick Start Guide

nav-u

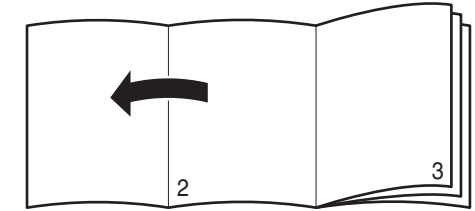
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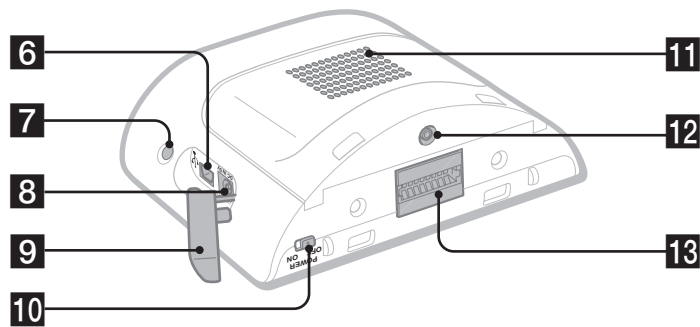
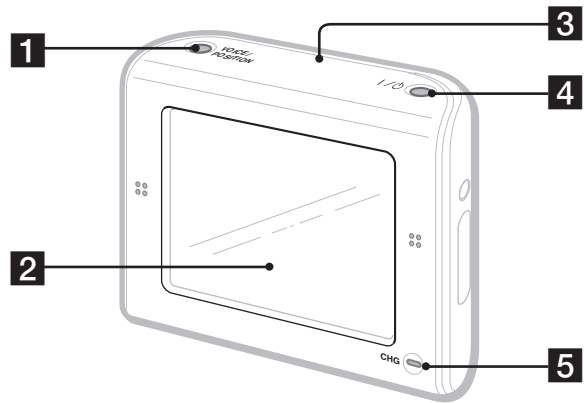
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2-886-305-31 (1)

How to use this manual

When reading this manual, keep the control layout illustration (on the rear of this page) open for quick reference from any page.





About this manual

- This Quick Start Guide contains instructions for basic operations. For more information, see the PDF manual on the supplied Application Disc (CD-ROM). For details on installation and connections, see the supplied “Read This First” (Installation Manual).
- Contents of this manual are written for users with knowledge of using the Microsoft® Windows® operating system. For details about computer operation, see the manual for your computer.
- Illustrations in this manual may differ from the actual device.
- Before operating this system, read this manual and “Read This First” thoroughly.
- Retain this manual and “Read This First” in a place where you can refer to them at any future time.

No guarantee for lost data or damaged data

Sony does not provide any guarantee for lost or damaged data.

Caution

IN NO EVENT SHALL SONY BE LIABLE FOR ANY INCIDENTAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR OTHER DAMAGES INCLUDING WITHOUT LIMITATION LOSS OF PROFITS, LOSS OF REVENUE, LOSS OF DATA, LOSS OF USE OF THE PRODUCT OR ANY ASSOCIATED EQUIPMENT, DOWNTIME, AND PURCHASER’S TIME RELATED TO OR ARISING OUT OF THE USE OF THIS PRODUCT, ITS HARDWARE AND/OR ITS SOFTWARE.

Welcome !

Thank you for purchasing this Sony Personal Navigation System. Before operating this system, read this manual thoroughly and retain it for future reference.

FEATURING:

- Plug & Play capability
- Pre-installed Australian map
- 18 languages selectable for voice guidance and 17 languages selectable for on-screen display
- 3.5-inch high quality display with touch screen
- Advanced 12ch parallel GPS receiver
- High-quality speaker
- Battery operation
- Auto dimmer function
- Gesture Command operation

On trademarks

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Warning

PLEASE READ THIS MANUAL AND THE SUPPLIED READ THIS FIRST (INSTALLATION MANUAL) COMPLETELY BEFORE INSTALLING OR OPERATING YOUR PERSONAL NAVIGATION SYSTEM. IMPROPER INSTALLATION OR USE OF THIS DEVICE MAY CAUSE ACCIDENT, INJURY OR DEATH.

On safety

- Be sure to:
 - install the navigation system in a safe place where it does not obstruct the driver's view.
 - not install the unit above an airbag.
 - place the cables and cradle where they do not obstruct driving.
 - attach the unit to the cradle properly, otherwise the unit may fall.
 - clean the surface of the suction cup and attachment surface before attaching. When installing on the dashboard, clean the surface on which the supplied sheet will be attached. Also, confirm that the suction cup is securely attached after installation. Otherwise, the unit or cradle may fall.
- Failure to do so may result in unsafe driving conditions.
- Do not apply excessive force to the unit or cradle as it may fall.
- Comply with local traffic rules, laws and regulations.
- Do not continuously watch the unit while driving. It is dangerous and may cause a traffic accident.
- If you need to operate the navigation system while driving, be sure to stop the car in a safe place before operating.
- Do not modify the unit.
- Do not disassemble the unit except when disposing of it.

When using the unit indoors

- Do not use the AC power adapter placed in a narrow space, such as between a wall and furniture.
- Use this product near an outlet. This is to ensure that the power plug can be immediately unplugged from the outlet to power off if some abnormality occurs during use.

- Be sure that nothing metallic comes into contact with the metal parts of the product or connecting cable. If it does, a short may occur and the product may be damaged.
- Always keep the metal contacts clean.

On handling

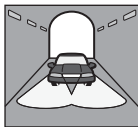
- Do not let foreign objects get inside the cradle connector (18) of the unit, as it may cause a malfunction.
- Turn the unit off by pressing I/O (4), take it out of the cradle, then disconnect the car battery adapter, otherwise it may drain the car battery. Note the following.
If your car's cigarette lighter socket is not connected to ACC on your ignition switch, power will continue to be supplied to the unit's built-in power supply even when the ignition is off or the unit is not in use.
- Do not connect any accessory (car battery adapter, AC power adapter, etc.) other than those supplied or optional.
- Do not expose the unit to fire or water, as it may cause a malfunction.
- Be sure to remove the unit out of the car when leaving your car to prevent theft or high temperature damage inside the car.
- Note that the built-in battery cannot be charged outside the temperature range 5 – 45 °C (41 – 113 °F).
- Do not leave the unit in high ambient temperature as the built-in battery capacity will deteriorate, or it will become unchargeable.

On GPS

GPS (Global Positioning System) satellites continuously emit signals for positioning anywhere on the earth. As a GPS aerial receives these signals, users can be informed of their location (latitude, longitude and altitude). Information must be received from 3 satellites in order to obtain two-dimensional fixes (latitude and longitude), and 4 satellites are required for three-dimensional positioning (latitude, longitude and altitude). As GPS satellites are controlled by the U.S. Department of Defense, a deliberate margin of error between a few metres (a few feet) and 10 metres (32.8 feet) exists. As a result, the GPS navigation system may include an error of between 10 metres (32.8 feet) and about 200 metres (656.2 feet), depending on the circumstances.

As GPS information is obtained using signal from satellites, it may be impossible or difficult to obtain the information in the following locations:

- Tunnel or underground



- Under a highway



- Between high buildings



- Between tall trees with dense foliage



After the initial installation, park your car in a safe, open place (no high buildings, etc.) for up to 20 minutes to allow for GPS signals to be received before using the navigation system.

Notes

- It takes time to receive a GPS signal when switching the unit ON after switching OFF the main power, after the built-in battery is fully discharged, or after resetting the unit.
- GPS signal reception may be poor depending on the material of the car's windshield.

On the software

Read the "END-USER LICENSE AGREEMENT" carefully before use.

Location of controls

Refer to the pages listed for details.

1 VOICE/POSITION button 7, 9

During route guidance:

To hear the next voice guidance.

In the menu display:

To show the map.

In the map display:

To show your current car position.

2 Display window/touch screen

3 Built-in GPS aerial

4 I/⏻ (on/standby) button 6

To turn the unit on/off.

5 CHG (battery charge) indicator

Lights up in red while charging.

6 USB jack 13

To connect to a computer with the USB cable.

7 Auto dimmer sensor

Detects ambient light and automatically adjusts the display brightness.

8 DC IN 5V jack

To connect to the AC power adapter.

9 Jack cover

Note

If you pull off the jack cover by accident, use a pointed object to push it back in.

10 POWER switch 6, 17

To turn the main power on/off; reset the unit.

11 Speaker

Outputs guidance and warnings.

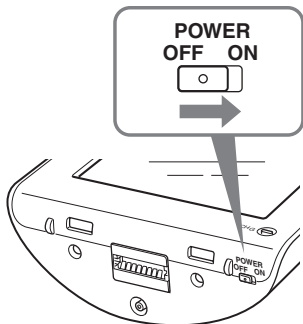
12 External jack


Reserved for future use.

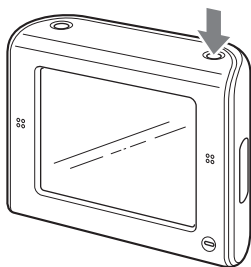
13 Cradle connector

Turning the unit on


When using for the first time, switch on the main power by sliding the POWER switch to the ON position.



Thereafter, you can turn the unit on/off by pressing  on the top right of the unit.



To turn the unit off

Press .

The unit enters standby mode for minimum power consumption.

Notes

- Do not switch off the main power unless the unit is not to be used for more than 3 months.
- If you switch off the main power, it may take time to receive GPS signals when switching on again.
- Be sure to take the unit out of the cradle and disconnect the car battery adapter when the unit is not in use to prevent car battery drain.

Performing initial setup

The following can be configured at Startup Configuration Wizard.

- Language for on-screen display and voice guidance
- Distance format (miles/kilometres)
- Display brightness
- 24/12-hour indication
- Your home address

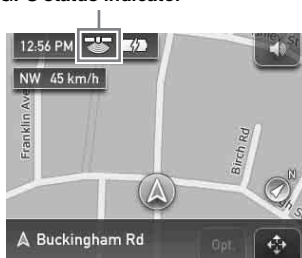
Follow the on-screen instructions to perform the setup.


The above can then be further configured in the setting menu at any time (page 12).

Receiving GPS signals

After the initial installation, park your car in a safe, open place (no high buildings, etc.) for up to 20 minutes to allow for GPS signals to be received before using the navigation system. The system requires signals from a minimum of 3 GPS satellites to calculate the current car position properly.

GPS status indicator*



* The icon shows the GPS signal reception condition. The  indicator lights up in red when the signal cannot be received.

Basic Operations

Common procedures to operate the system are explained.

General operations can be performed on the touch screen. Touch the displayed icons with your finger gently.

Note

Do not press the display with excessive force, or use any sharp article, such as a pen, etc., to tap on the display.

Menu operation

The top menu appears when turning on the unit by pressing I/⏻ (except during route guidance, in which case the map appears).



To show the top menu from the map display, touch the map.

To return to the top menu from any menu display, press VOICE/POSITION, then touch the map.

You can set items in the menu by the following procedures.

1 Show the top menu.

2 Touch “More...”

3 Touch “Settings.”

The list of setting categories appears.



4 Touch a desired setting category, setting item, then make the desired setting.

To scroll the list, touch ▲/▼.

Procedure example: setting the default map view

Select “General Settings” → “Navigation View” → “2D” or “3D.”

During menu operation:

To return to the previous display, touch ↶ or ✕.





To cancel the menu selection, press VOICE/POSITION (the current car position display appears).

Note

The items on the menu and setting operations differ depending on the selected menu item.

Gesture Command operation

In map displays (except in map scrolling mode), by assigning a screen finger stroke such as line, etc., frequently-used operations can be performed easily. This is called Gesture Command operation.

To	Draw
start navigation to your home	 a circumflex.
start navigation to the nearest POI stored on Quick Links*	Quick Link 1  horizontal line (left to right). Quick Link 2  vertical line (downwards). Quick Link 3  horizontal line (right to left).

* For details on Quick Links, see page 10 and 12.

Keyboard operation

The keyboard display appears when you need to enter text.

You need only enter characters in upper case, as the system automatically converts them to appropriate characters. You can enter special characters when necessary.

Candidate/entry field



To	Touch
enter an alphabetical character	the desired character key.
enter a special character	“AAA” to switch to the special character keyboard, then the desired character; and “ABC” to switch back.
enter a number	“123” to switch to the numeric keyboard, then the desired number key; and “ABC” to switch back.
enter a space	␣
delete a character	✕
select a candidate	✓ or the candidate in the list.
show the candidate list*	“List”

* The candidate list automatically appears when candidates are narrowed down as you continue inputting characters.

Route Searching

The system searches for routes automatically after setting the destination.

Before starting, check that GPS signals are sufficient for navigation (page 6).

Setting the destination and starting guidance

The procedure for searching for the route and starting route guidance is explained.

As an example, setting the destination by the address is introduced here.

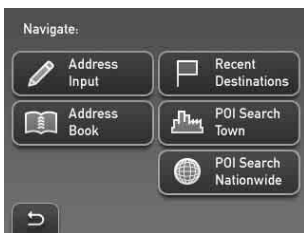
For details on setting the destination in other ways, see “Setting the destination in other ways” on page 10.

For your safety, park your car in a safe place, then enter the destination information before starting a journey.

1 Show the top menu.

In the map display, touch the map.
In the menu display, press VOICE/
POSITION, then touch the map.

2 Select “Navigate.”



3 Select “Address Input,” then input the address details.

Input the items in the order below, and touch ✓ or the candidate in the list to proceed.

For details on how to input characters, see “Keyboard operation” on page 8.

- 1 “Country”
- 2 “Town / Postal Code”
- 3 “Street / Destination”
- 4 “No.” or “Intersection”*

The address confirmation display appears.

* *Selectable only if existent in the selected street.*



4 Select “Calculate Route.”

The route is calculated, and route guidance starts.

To fine adjust the destination point

You can jump from the address confirmation display to the map scrolling mode, and fine adjust the destination point.

- 1 Touch ↻ to switch to the map scrolling mode.
- 2 Drag the screen to adjust the destination point.
- 3 Touch → to show the map scrolling mode menu, then select “Navigate to Here.”

For details on operations in the map scrolling mode, see “Map scrolling mode” on page 12.

Setting the destination in other ways

You can also set the destination and search for routes by the following methods.

From the top menu, select the items in the following order, then “Calculate Route” (if necessary).

For details, see the supplied PDF manual.

Search Nearby

Searches for routes to a POI, such as restaurant, hotel, etc., near the current car position.

Select “Search Nearby,” then any of the following options.

“Quick Link 1 - 3”

Searches for routes to the nearest POI of the category stored on Quick Links. Categories on Quick Links can be customized in the setting menu (page 12).

“Search by Name”

Enter the name of the POI directly.

“Search by Category”

Select the desired POI category from the list.

Go Home

Searches for routes to your home when it is registered.

Navigate

Select “Navigate,” then any of the following options.

“POI Search Nationwide”

Searches for routes to a POI, such as airport, etc., within the specified country.

“POI Search Town”

Searches for routes to a POI, such as restaurant, hotel, etc., within the specified town.

“Address Book”

Searches for routes to a saved destination point.

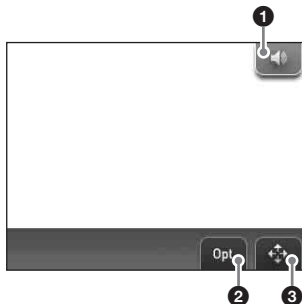
“Recent Destinations”

Searches for routes to recently searched destinations.

Guidance displays

Once a route has been calculated, visual guidance navigates you to the destination along with audio guidance.

Information on map tool menu



- 1 To adjust the volume.*
- 2 To show option menu.
- 3 To switch to map scrolling mode.

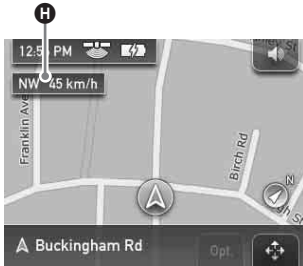
* When the unit is powered by the built-in battery, volume may slightly decrease.

2D Map display

Straight-ahead driving (during route guidance)



Straight-ahead driving (in other cases)



Approaching an intersection



Approaching an intersection (closer)



- A** Current time/GPS status/Battery condition
For details, see the supplied PDF manual.
- B** Distance/ETA (Estimated Time of Arrival) to destination
- C** Current position
- D** Distance to next turn
- E** Current street name
- F** Next street name
- G** North indicator
- H** Current direction/Current speed
- I** Next turn instruction
- J** Bar indicator of the distance to next turn
- K** Instruction after next

3D Map display

You can set the 3D map display in the setting menu (page 12).

Dynamic Route Information

This display shows the distance to the destination, POI information, etc.

To view, from map display, select “Options” → “Dynamic Route Info.”

For details, see the supplied PDF manual.




Route display

You can view the entire route to the destination.

To view, from map display, select “Options” → “Show Route.”



continue to next page →


Map scrolling mode


You can switch to map scrolling mode from map display by touching , whether during route guidance or not.

In map scrolling mode, the crosshair is displayed on the map, and you can drag the screen to scroll the map.



Touch  /  to adjust map scale.

Place the intersection of the crosshair on a desired point, then touch  to show the map scrolling mode menu, where you can set the point as a destination, etc.

Touch  to return to the current car position display.

System Settings

Various settings related to the system and memory are configurable.

From the top menu, select “More...” → “Settings” → the desired category → the desired item below to make each setting.

Several representative setting items in each category are introduced here as examples. For details, see the supplied PDF manual.

General Settings

Navigation View (to select the default map view (2D or 3D)), **Show Distance/ETA to Destination** (to show/hide distance to destination and ETA (Estimated Time of Arrival)), etc.

Map Settings

Current Map (to select a map stored in the unit).

POI Settings

Show POIs (to show/hide each POI), **Quick Link 1-3** (to store 3 frequently-used POI categories, any of which can be used as a shortcut when setting the destination).

Route Profile

Type of Route (to select the route search preference), **Motorways** (to allow/avoid/forbid motorways/highways), etc.

Note

Warnings given according to map information may not always be correct due to road works, etc. Traffic situations and road regulations take absolute precedence over information given by the navigation system.

Using the Supplied Software

The major functions of the software on the supplied CD-ROM are introduced below. If you insert the CD-ROM into your computer, the screen appears automatically. Follow the on-screen instructions.

System requirements

- OS: Windows 2000/XP
- CD-ROM/DVD-ROM drive
- USB port
- 150 MHz CPU speed minimum

Contents

Install PC Connection Software

PC connection software (ActiveSync) can be installed.

Language Manager

Language data for on-screen display and voice guidance can be added to the unit, and unnecessary language data can be deleted from the unit.

Read the Manual

You can read the PDF manual which contains further information on operations available.

Support Link

Easy access to the Sony navigation support site is available.

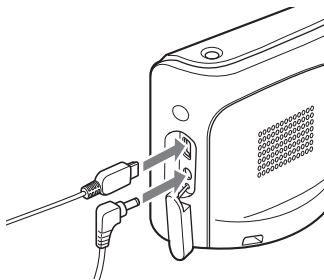
Visit this site for technical support, such as software updates, FAQs, etc.

Connecting to your computer

Before connecting to your computer, install the PC connection software (ActiveSync) to your computer.

- 1 Connect the unit to an outlet using the AC power adapter and the AC power cable.**
- 2 Connect the unit to your computer with the USB cable.**

Connect the small connector of the USB cable to the USB jack on the unit, then the large connector to a USB port on your computer.



Notes when transferring data

During transfer, do not

- disconnect the USB cable or the AC power adapter.
- turn off the main power of the unit, enter unit standby mode, or reset the unit.
- shut down the computer, enter computer standby mode, or restart the computer.

If you want to cancel transferring mid-way, click the cancel button on the computer screen.

Additional Information

Precautions

If your car has been parked in direct sunlight, allow the unit to cool off before operating it.

Moisture condensation

On a rainy day or in a very damp area, moisture condensation may occur inside the display of the unit. Should this occur, the unit will not operate properly. In such a case, slide the POWER switch on the bottom right of the unit to OFF position, then wait for about an hour until the moisture has evaporated.

Note on LCD panel

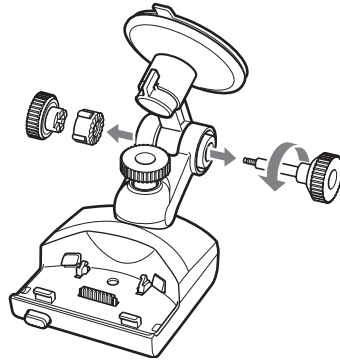
Some stationary blue, red or green dots may appear on the monitor. These are called "bright spots," and can happen with any LCD. The LCD panel is precision-manufactured with more than 99.99 % of its segments functional. However, it is possible that a small percentage (typically 0.01 %) of the segments may not light up properly. This will not, however, interfere with your viewing.

Maintenance

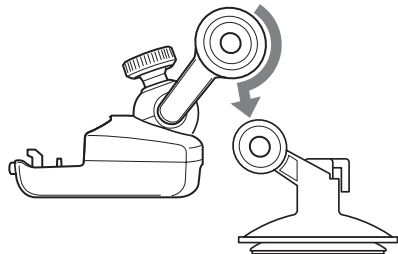
Cleaning the suction cup

Wash and clean the surface of the suction cup if it becomes dirty and attachment strength weakens. Before washing, be sure to detach the suction cup part from the cradle following the steps below.

- 1 Holding the left knob, loosen the right knob, then remove both knobs.**



- 2 Detach the suction cup part.**



- 3 Wash the surface of the suction cup with water.**

Clean and dry the suction cup before reattaching.

To reattach, install the suction cup, then the left and right knobs, and tighten the right knob.

Warning

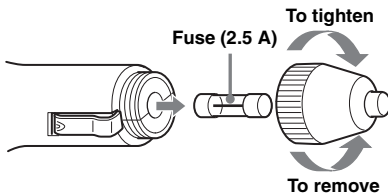
- Never wash the suction cup without detaching it from the cradle, as doing so may damage the cradle.
- Do not use a cleaning solution, wash only with water.
- Be sure to dry the suction cup before reattaching.

Notes

- If the suction cup leaves a trace on the windscreen, wipe with water.
- The dashboard may leave an impression on the surface of the suction cup, however, it does not affect the attachment strength.

Fuse replacement

When replacing the fuse in the car battery adapter, be sure to use one matching the amperage rating stated on the original fuse. If the fuse blows, check the power connection and replace the fuse. If the fuse blows again after replacement, there may be an internal malfunction. In such a case, consult your nearest Sony dealer.



Warning

Never use a fuse with an amperage rating exceeding the one supplied with the unit as this could damage the unit.

Notes on unit disposal

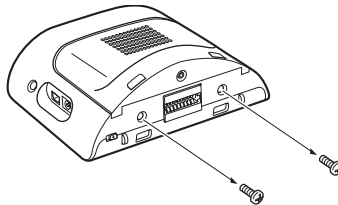
If recycling of the built-in lithium-ion battery is required by the law or regulations of your region, remove the battery when disposing of the unit and return it to a recycling location. The procedure for removing the battery is explained below.

Note

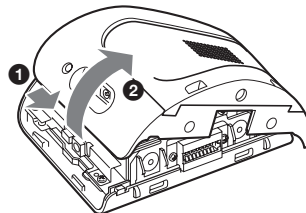
Never disassemble the unit except when disposing of it.

- 1 Switch off the main power by sliding the POWER switch to the OFF position.
- 2 Remove the jack cover **9** (page 5).

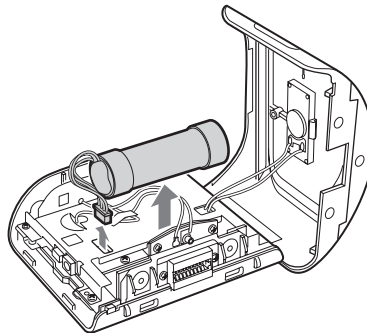
- 3 Remove the 2 screws on the underside of the unit using a screwdriver.



- 4 Slide the rear cover, then lift to open.



- 5 Remove the battery.



- 6 Insulate the connector terminal by wrapping with a tape.

continue to next page →

Notes on the lithium-ion battery

- Keep the battery out of the reach of children.
- Do not hold the battery with metallic tweezers, otherwise a short-circuit may occur.

WARNING

Battery may explode if mistreated.
Do not recharge, disassemble, or dispose of in fire.

Specifications

Main unit

Operating temperature: 5 – 45 °C (41 – 113 °F)

Power requirements: DC 5 V

(from supplied AC power adapter)

Connection terminals:

Cradle connector
DC IN 5V jack
USB jack
External jack

Speaker: 20 × 40 mm (0.8 × 1.6 in) oval speaker

Consumption current: Approx. 0.5 A

Dimensions: Approx. 103.8 × 87.6 × 32.8 mm
(4.1 × 3.5 × 1.3 in)

(w × h × d, protruding parts excluded)

Mass: Approx. 280 g (9.9 oz)

Monitor

System: Transmissive liquid crystal display

Drive system: a-Si TFT active matrix system

Dimensions: 3.5 in (4:3)

Approx. 70.1 × 52.6, 87.6 mm
(2.8 × 2.1, 3.5 in) (h × v, d)

Segment: 230,400 (960 × 240) dots

Cradle

Operating temperature: 5 – 45 °C (41 – 113 °F)

Power requirements: DC 5.2 V

(from supplied 12 V car battery adapter (negative earth))

Connection terminals:

Unit connector
DC IN 5.2V jack

Built-in battery charging time/usage time

Charging time

With the supplied car battery adapter/AC power

adapter: Approx. 4.5 hours (with unit turned on),
or 2.5 hours (in standby mode)

Usage time

Up to 6.5 hours (depending on usage)

Design and specifications are subject to change without notice.



- Halogenated flame retardants are not used in the certain printed wiring boards.
- Use of rechargeable lithium ion batteries.
- Corrugated cardboard is used for the packaging cushions.
- VOC (Volatile Organic Compound)-free vegetable oil based ink is used for printing the carton.

Troubleshooting

The following checklist will help you remedy problems you may encounter with your unit. Before going through the checklist below, check the connection and operating procedures.

The operation icons on the display do not function.

→ An operation may take time while a map is displayed.

The unit does not turn on.

- Check that the POWER switch on the bottom right of the unit is in the ON position.
- Charge the built-in battery.
- Check that the unit is securely attached to the cradle. For details on installation, see the supplied “Read This First” (Installation Manual).

The built-in battery cannot be charged.

- Check that the POWER switch on the bottom right of the unit is in the ON position.
 - If the AC power adapter is being used, disconnect it from the outlet, then reconnect.
 - The built-in lithium-ion battery can be charged at temperatures between 5 – 45 °C (41 – 113 °F). The battery may not be charged if the temperature inside the unit increases because of direct sunlight exposure, etc. This is not a malfunction.
-

GPS signal cannot be received.

Firstly, read the GPS overview (page 4), then check the GPS status by selecting “More...” in the top menu → “GPS Status.”

- The system cannot receive GPS signals due to an obstruction.
 - Move your car to a place where signals can be received clearly.
- There is an obstacle in front of the GPS aerial.
 - Install the unit where the signal is not interrupted by the body of the car, etc. .

The car position on the map does not match the current road.

The error margin of the signal from the GPS satellites is too large. A maximum error margin of a few hundred metres can exist.

Voice guidance cannot be heard.

The volume is set too low.

→ Raise the volume (page 10).

When the unit is powered by the built-in battery, volume may slightly decrease.

The LCD is not displayed normally.

- In high temperatures, the LCD may darken and not display clearly. In low temperatures, afterimage may occur on the LCD. These are not malfunctions, and the LCD will return to normal when the temperature returns to within the specified operating range.
- The LCD is dark.

→ The auto dimmer function may be activated because its sensor **7** (page 5) is covered by a hand, etc.

The cradle comes off the attachment surface.

Attachment strength weakens if the surface of the suction cup or attachment surface becomes dirty.

→ Wash and clean the suction cup and the attachment surface (page 14).

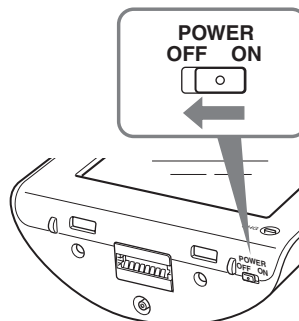
The demonstration mode starts automatically even if no operation is performed.

→ Turn off the auto demonstration mode by selecting “More...” in the top menu → “Settings” → “General Settings” → “Demo Mode.” Then, confirm that “Demo Mode” is set to off.

Resetting the unit

If the navigation software freezes, try resetting the unit.

Switch off the main power by sliding the POWER switch to the OFF position, then switch on again after approximately 10 seconds.



Note

After you switch off the main power, it may take time to receive GPS signals when switching on again.

