



XROAD
V4050 Owner's
Manual

Thank you for choosing the XROAD V4050 Navigation system.

This model includes:

- ✓ 4.3" Wide[16:9] TFT Touch Screen LCD with Ultra-bright 480x272 resolution in 16.7 million colors
- ✓ 400MHz Samsung CPU to ensure powerful performance
- ✓ Built-in Bluetooth Hands-Free Calling
- ✓ Premium multimedia functions supporting music (MP3), video (AVI), picture (JPEG) and game
- ✓ Internal Enhanced GPS receiver (SIRFIII / SIRFstarIII) for a quick start
- ✓ Powerful Lithium-Polymer 2100mAH Battery
- ✓ Microsoft WinCE Core Version 5.0
- ✓ 2.0 GB SD card preloaded with U.S. and Canada map data

WARNING: DANGER OF ACCIDENT

When you use XROAD navigation in your vehicle, it is your sole responsibility to use the device in a manner that will not cause accidents, personal injury or property damage, and not obstruct your view or interfere with operation of vehicle safety equipment. The user of this product is solely responsible for observing safe driving practices. DO NOT operate XROAD V4050 while driving. Park the vehicle first and operate when necessary.

**XROAD DISCLAIMS ALL
LIABILITY FOR ANY USE
OF THIS PRODUCT IN A
WAY THAT MAY CAUSE
ACCIDENTS, DAMAGE,
OR THAT MAY VIOLATE
THE LAW**



1. About This Book

This handbook provides a quick guide to the XROAD NAVIGATION system, and the basic functions of the device are described mainly in respect of hardware. For reasons of product development some information may not be updated yet, and contents may be changed at any time without prior notification. No liability shall be assumed for technical or editorial errors or omissions herein; nor for incidental or consequential damages resulting from the performance or use of this material.

This document contains information protected by copyright and thus may not be reproduced in whole or in part for any purpose whatsoever. Likewise, it may not be transmitted or reproduced in any form whatsoever, whether electronically or mechanically - including photocopying and recording.

All brands and trademarks mentioned in this document may be registered by a third party and subject to current legislation and to the rights of their respective owners, without reservation. The absence of explicit labeling of registered trademarks does not admit the conclusion that the brand is not subject to the rights of third parties.

02. For Proper/Best Use

2.1 General

- Ⓐ Effective route planning prior to the beginning of each journey is recommended. If you need to setup a new itinerary while en route, please drive to a safe place or a parking site first. For your own safety, do not operate the product while driving.
- Ⓑ The product is intended to be used only as a navigation aid, not as a precise measurement of direction, distance, location or topography. Because calculated routes and voice guidance are for reference only and may be different from the actual road circumstances, it is the user's responsibility to follow traffic signs, road layout and local regulations above all else.
- Ⓒ When you get out of the car, please do not leave your device on the dashboard in direct sunlight, since an overheated battery can cause malfunction and/or hazard. Use the product within the recommended operational temperature range (0°C ~ 50°C), and do not expose it to excess heat or cold.
- Ⓓ GPS satellite signals cannot pass through solid materials other than glass. So when you are inside a tunnel or a building or in case of metallic windshield, GPS positioning may not be available. Likewise, signal reception can be affected by situations such as bad weather or dense overhead cover such as trees. Similarly, wireless devices may interfere with satellite signals, causing variable signal reception.
- Ⓔ Look at the display only when it is absolutely safe to do so. If you have not fully understood the instructions given by the device, or if you are not sure about what to do next, you may refer briefly to the map or arrow view of your navigation system.

02. For Proper/Best Use

Page_03

2.1 General

- ④ A car holder is necessary when using the device in a car, and it is strongly recommended that you place the device in an appropriate place, avoiding areas for example which obstruct airbag panels and instruments, or which interfere with the driver's vision.
- ④ Taking good care of your device will ensure trouble-free operation and reduce the risk of damage to it. Never clean your device with the power on. Use a soft, lint-free cloth moistened with water to wipe the screen and the exterior of your device. Do not use paper towels to clean the screen. Do not place anything on top of your device or drop objects on top of it. Do not drop your device or subject it to severe shock. Be careful not to sit on your device when it is in the back pocket of your trousers, etc. The screen surface is easily scratched.
- ④ Keep your device away from excessive moisture and extreme temperatures. Do not subject your device to sudden and severe temperature changes that could cause condensation inside the unit, with consequent damage. In the event of moisture condensation, allow your device to dry out completely. Avoid exposing your device to direct sunlight or strong ultraviolet light for extended periods of time.

02. For Proper/Best Use

2.2 Safety Precaution

Ⓐ Main System

Never attempt to disassemble, repair or make any modification to your device since this could cause damage to the device, and even bodily injury or property damage. Do not store or carry flammable liquids, gases or explosive materials in the same compartment as your device and its parts or accessories.

Ⓑ Battery

This device contains a non-replaceable Lithium-Polymer internal battery that can burst or explode, releasing hazardous chemicals. **To reduce the danger of fire or burns, never disassemble, crush, puncture, or dispose of in fire or water.** Since there is a high risk of explosion if the battery is replaced by an incorrect type, replace it only with same type or an equivalent one recommended by the manufacturer. The battery must be recycled or disposed of properly. Similarly, use a specified battery charger as approved by the manufacturer.

Ⓒ Adapter

Never use the AC adapter in a high-moisture environment, or touch it when your hands/feet are wet. Also, for cooling purposes, make sure there is adequate ventilation around the adapter when in use, and do not cover it with paper, vinyl, cloth (including the carrying case) or any other material. The adapter must be connected to the correct power source, according to the voltage requirements indicated on the case or packaging of the product. Do not attempt to service the unit if its power lead or body becomes damaged or exposed to excess moisture.

Ⓓ SD Memory Card

Keep SD or MMC cards in a well-protected case so as to avoid dust and humidity when you are not using it, and also make sure that no foreign objects can enter the SD slot.

3. Getting It Started

3.1 Inserting SD Card



Your device has an SD slot, for an optional Secure Digital card storing the initial startup program, digital maps and other data i.e. MP3 files, movie files and image files. To use the memory card, insert it pointing up into the slot, and the label facing the front of the device. To remove the card, first make sure that no application is accessing it, slightly push the top of the card to release it, and then pull it out of the slot. To take out the card, please turn off the unit. Before inserting another card, please press on the Power button. When you put SD Card into SD Slot located at the bottom of the device, please give a deep and hard push, which works for taking it out of the slot as well.

WARNING: To avoid personal injury, or accidents, DO NOT install or remove the XROAD V4050 from the windshield suction mount while driving your vehicle. Also, be careful not to install the XROAD V4050 in a position to obstruct the view of the driver.

3.2 Mounting & Connecting



1. First, clean the windshield. Then, push the center of the suction cup onto the windshield and then press the fixing lever down



2. Slide the rectangular part of the suction-cup mount into the corresponding part at the bottom rear of the unit



3. Insert the jack at the end of the DC power leading into the small socket on the side of device and put the other end into the cigar lighter socket.

3. Getting It Started

Page_06

3.3. Power Manipulation

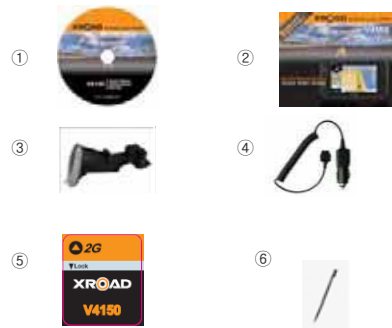
Power On	Press the Power On/Off button to turn on the device. In case of the first use of the device that is discharged, connect the power into the unit through the car cigarette power jack or AC adaptor, then press Power On/Off button.
Power Off	Press the Power On/Off button to turn off the device. If the device remains connected to a 12V power jack, the battery will be charged.
Bluetooth Button	Press the <i>Bluetooth</i> On/Off button to launch the <i>Bluetooth</i> system

WARNING: the battery is still running and discharging in all modes, except Power Off mode.

*** Please allow this delicate gadget to have enough time for its operation (e.g. in pressing buttons, tapping touch screen, executing each menu, pushing in/out SD card etc.) since running it too hastily and excessively often leads to mechanical trouble.**

5. Hardware Accessories

5.1 Standard Accessories



- ① DVD with manuals & map data
- ② Quick Start Guide
- ③ Windshield Suction Mount & Cradle
- ④ Cigar-light adaptor
- ⑤ SD memory card
- ⑥ Stylus pen

5.2 Optional Accessories



- ① AC Adaptor
- ② TMC External Antenna
- ③ External GPS Antenna
- ④ SD Card Reader

Note: the brand, type, spec, and photo of above accessories may vary with actual accessories. Also, accessories packaging items may be changed without prior notice.

6. A Look at the Home Screen

Page_10

6.1 Overview

- Ⓐ Finger Touch: This navigation instrument can easily be operated with your fingertip. However, if the vehicle is moving too much, or if you want to select a point with great accuracy, you will need to use the stylus pen. The surface of the LCD screen may be damaged if a sharp object is used, or if excessive pressure is used on the screen.
- Ⓑ SD memory card provided: If the map file is deleted, the navigation function does not perform properly.
- Ⓒ Multitasking: This function is used to perform multitasking (for example, navigation plus audio playback). However, this feature is NOT provided with the V4050 product. Once you pressed M button on the top left of the navigation, you may switch to main menu, but all other icons will be grayed out and will not function when you tap on it.

6. A Look at the Home Screen

Page_11

6.1 Overview

Select the desired menu icon from the main menu screen. The corresponding program then starts running.

Navigation plus additional menus like Music, Movie, Picture, Game, Settings. To use the main menu during program execution, press the main menu key or press the program end key to move to the main menu. When you enter main menu, the program being executed automatically ends. Press the desired menu icon in the main menu. The corresponding program then starts running.



Main menu function description

- Navi: Starts the navigation function.
- Music: Starts the music playback function that enables playing mp3 and wav files.
- Movie: Starts the movie playback function that enables playing avi, files.
- Picture: Starts the picture function that enables viewing bmp, jpg, gif, and png files.
- Game: Starts the game
- Settings: Starts the screen/environment setting function.

6. A Look at the Home Screen

Page_12

6.2 Navi

This function guides you to your final destination by voice prompts and a mapping screen, showing crossroads, city names and much more. It also provides various map-guiding modes and the approximate time left to your destination.

Pop into the Navi menu and wait for the navigation program to load all the necessary data. Soon a digital map will appear before your eyes. For further information regarding navigation usage, refer to the separate software user manual contained in the DVD provided as a standard package.



6. A Look at the Home Screen

Page_13

6.3 Music

ⓐ Information Before Playing Music Files

To play a music file, the mp3, wav, or wma file must be saved in an SD memory card. If there is no SD memory card, a sample file is read. If the SD memory card is disconnected during playback, a sample file is located at the file being played and the music playback stops. If the SD memory card is short of capacity, purchase another SD card. Then you can save more files. Even if the capacity of the SD memory card is not enough to download a music file, do not delete the map file.

6. A Look at the Home Screen

Page_14

6.3 Music

④ Music Screen Description

Select Music from the main menu. When you enter Music, the last file played is located at Current Music. If the last music file does not exist in the SD memory card, the first file available in the card is located at Current Music. If there is no SD memory card, a sample file is located at Current Music. Press the End Button(x) on the drawing here after or the main menu key to end Music and move to the main menu. If you push on main menu key, music goes on. At that time, if you come back to the main menu, you can choose other available applications.



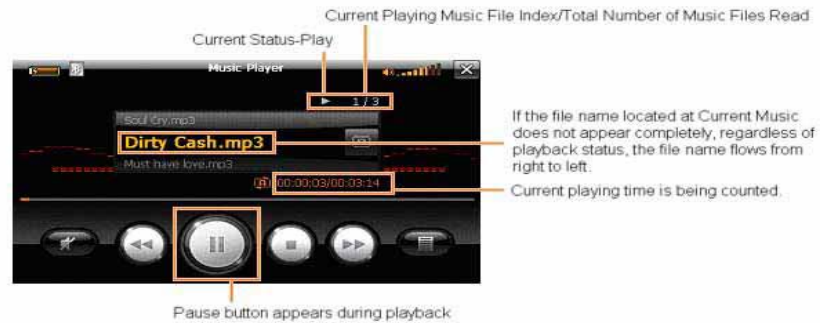
6. A Look at the Home Screen

Page_15

6.3 Music

© Playing a Music File

Press the Play button to play a music file located at Current Music. Current playing time is being counted. Current status is displayed as playback status. If a file being played is damaged, the next file will be played without opening a pop-up screen.



6. A Look at the Home Screen

Page_16

6.3 Music

© Playing a Music File - All Files Damaged

Press the Play button when a file located at Current Music is damaged.

- 1 Track Repeat: Music playback stops after a pop-up screen opens.
- 1 Track Repeat/All Play/All Repeat: If all music files are damaged, press the Play button. A pop-up screen opens and the music playback stops.



6. A Look at the Home Screen

Page_17

6.3 Music

④ Playing a Music File - There is a Damaged File

Press the Play button when a file located at Current Music is damaged. All Play/All Repeat: A pop-up screen opens and the next playable file is played.



[Notice Pop-up]



[Next File Playback]

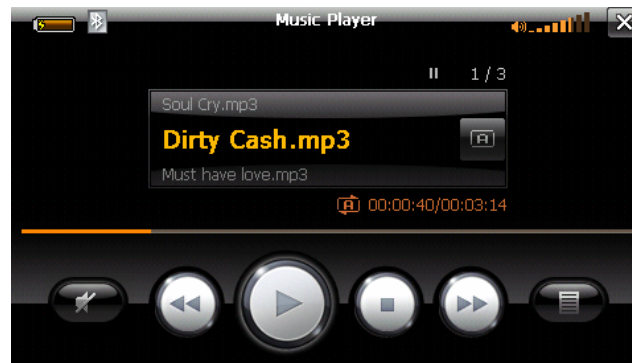
6. A Look at the Home Screen

Page_18

6.3 Music

Ⓢ Pause

Playback stops temporarily. Current status is displayed as Pause. The Play button is deactivated and the Pause button is activated. The playback indicator on the playback bar stops moving. When pressing the previous/next music file during Pause, pause is automatically released and the previous/next music file is played. Press the Play button when a file located at Current Music is damaged. All Play/All Repeat: A pop-up screen opens and the next playable file is played.



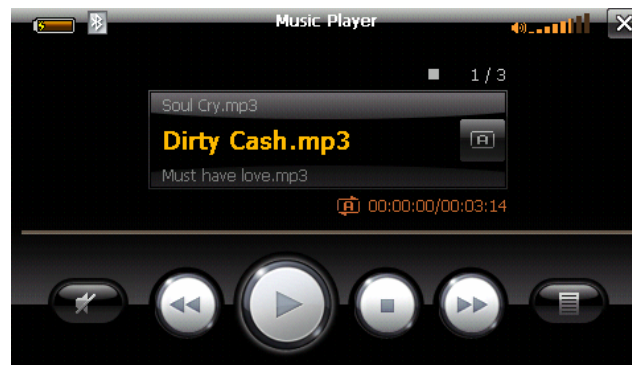
6. A Look at the Home Screen

Page_19

6.3 Music

ⓘ Stop

Playback stops. Current status is displayed as Stop. Current playing time appears as '00:00:00'. When pressing the previous/next music file during Stop, only the file name moves.



6. A Look at the Home Screen

Page_20

6.3 Music

⑨ Repeat

All Repeat is default. All Repeat->All Play->1 Track Repeat->All Repeat-> All Play... When repeat status is set, the current repeat status is changed. The Repeat setting status is maintained even if you exit Music and go back into it again.



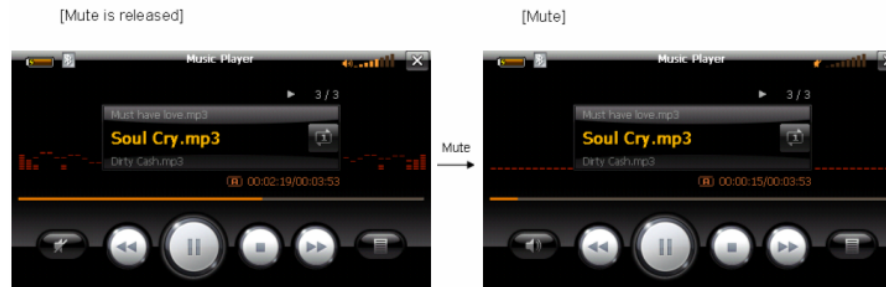
6. A Look at the Home Screen

Page_21

6.3 Music

④ Volume Adjustment/Mute

Volume cannot be adjusted via the touch screen. It is adjusted by controlling the volume adjustment bar. Press the Mute key to use the mute function. Press the Mute key again to release the mute function. Mute is automatically released when the mute function is selected again after the function ends.



6. A Look at the Home Screen

Page_22

6.3 Music

① Previous/Next Music File

Zoom +/-:

Select the next music file while the last music file is being played, and the first music file is played. Select the previous music file while the first music file is being played, and the last music file is played. When there is a damaged music file, the file is skipped and the next music file is played.

6. A Look at the Home Screen

Page_23

6.3 Music

① Music Play List Description

Current status (Pause/Stop/Play) is maintained. Focus is located at the music file being played. The default arrangement status is 'random'. Press the Cancel button to move to the previous screen. When the length of the file name where the focus is located is long, the file name flows from right to left. When you exit Music and go back into it again, the list is re-created.



6. A Look at the Home Screen

Page_24

6.3 Music

① Music Play List Arrangement

When the Random button appears, the list is in random status. Press the Random button to arrange the list in alphabetical order. The Random button changes to the ABC button.



6. A Look at the Home Screen

Page_25

6.3 Music

① Music Play List Playback

Press the list once - Focus is selected. Press the list once again - The file is played.



6. A Look at the Home Screen

Page_26

6.4. Movie

ⓐ Tips for Playing a Movie

When a movie file (avi) exists in the SD memory card that is inserted into the device, it automatically searches and shows both the file list and the movie start screen. When there is no movie file, the sample movie list built into the device shows, in stop mode.

As with a movie entry, an hourglass appears when the loading time is extended. The map file must not be deleted even if the capacity of the SD memory card provided is not sufficient to allow the movie file to be downloaded. If the capacity of the SD memory card provided is not sufficient, you can buy an additional SD card to allow you to save more files.

Play in full screen (optimized to the movie size of 340 X 240). Automatically plays the next file after playing the current file. When automatically playing the next file, the file is immediately played without a loading popup. When the next file is automatically played and the file is damaged, a popup with "Cannot play this file" will be displayed, and the device is changed to a stop status. If the SD memory card is removed while in use, the message "SD MEMORY CARD REMOVED" pops up, and the unit stops.

In this eventuality, the filename and total playtime of a sample file will be shown. If the SD memory card is inserted again, the message "SD MEMORY CARD INSERTED" pops up, and the last played file will be loaded in stop mode. When there is no file to be played, it simply displays a sample file.

6. A Look at the Home Screen

Page_27

6.4. Movie

④ Movie Execution Process








6. A Look at the Home Screen

Page_28

6.4. Movie

b) Screen Explanation – Control Bar/Button



	Fast backward by 10 seconds / If this button is re-selected during the rewind, the movie is played from the last play position.
	Play/Pause If the play button is pushed, the movie is played from the last play position.
	Fast forward by 10 seconds / If this button is re-selected during the fast forward, the movie is played from the last play position.
	Switch to the play list screen
	Mute (by toggle)

6. A Look at the Home Screen

Page_29

6.4. Movie

① Screen Explanation - List Screen

Maintain the current status (Pause/Stop/Play). Focus is placed on the movie file being played. Move to the previous screen when the "Cancel" button is pressed. Remake the list again when an entry is made after ending a movie. The count will be shown when the total number of files read is in progress



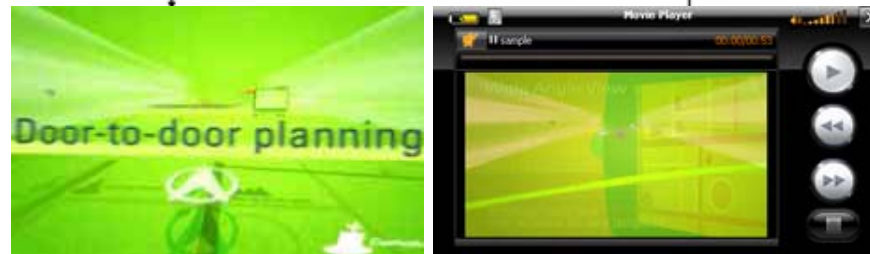
6. A Look at the Home Screen

Page_30

6.4. Movie

ⓑ Screen Explanation – Play in a Full Screen

From the right window, either touch the red area or select the  button to play in full screen.





A Control Bar as on the right appears when you touch the red area once from the left screen.

6. A Look at the Home Screen




Page_31

6.4. Movie




© Playing a Movie

- Select the  button or touch the movie screen as in the Figure-2, (see page 27)
Or select a file from the play list and select the  button to play the movie.
- The movie is played as in Figure-3, (see page 27)
- Touch the screen to play by selecting a section.

(See page 27)

- The Control Bar appears as the screen is shifted, as in Figure-4.  →
By moving the play section quickly (10 seconds successively) forward/backward, the movie can quickly jump to a section by using the   buttons.
The forward/backward movement can be stopped by clicking the button again.
- If the menu button is pushed while in play, it returns to the menu window.

④ Selective movie playing is possible when 2 or more movies are stored in the SD memory card.

- Select the  button.
- The screen as in Figure-5 appears. (see page 27)
- If there are more than 3 files, use the  button to change the list (by page).
- Play the movie by pushing the  button after selecting a desired item from the list.

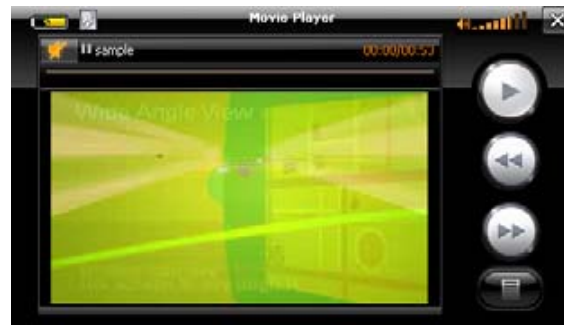
6. A Look at the Home Screen

Page_32

6.4. Movie

© Movie Entry

Show the last played filename. If there is no previous file, the loading screen will not appear. Show a sample file. The time lapse and play screen show the last play position of the movie. When the play button is pressed, the count starts from that point. Show the current status as stopped if a previous file was in play.



6. A Look at the Home Screen

Page_33

6.4. Movie

① Movie Control Bar - Pause/Stop

When the screen is touched while playing a movie, the Control Bar will appear and the movie will be paused. When the screen other than the buttons from the Control Bar is pressed, the Control Bar disappears and play is done in full screen. There is no stop button, the first screen of the currently playing file appears. The file is played from the beginning when the stop and play buttons are pushed successively.



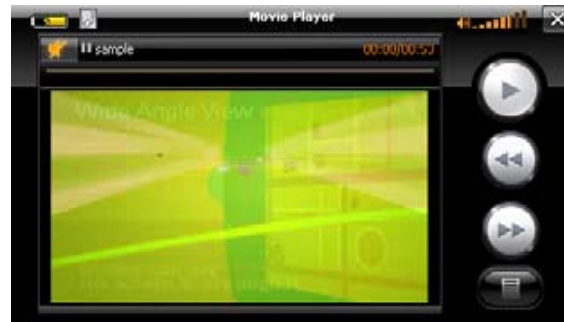
6. A Look at the Home Screen

Page_34

6.4. Movie

Ⓜ Movie RW/FF

By moving the play section quickly (10 seconds in succession) forward/backward with the red-lined buttons, the movie can be quickly jumped to a section. The movement stops if the button is clicked again.



6. A Look at the Home Screen

Page_35

6.5 Picture

ⓐ Introduction before Viewing Images

To view an image file, the bmp, jpeg, or jpg file must be saved in a SD memory card. If there is no SD memory card, a sample file is read. If the SD memory card is disconnected during playback, a sample file is displayed and the image play stops. If the SD memory card is short of capacity, purchase another SD card. Then you can save more files. Even if the capacity of the SD memory card is not enough to download an image file, do not delete the map file.

6. A Look at the Home Screen

Page_36

6.5 Picture

① Picture Screen Description

Select Picture from the main menu. The last image file viewed is displayed. If no previous image file exists in the SD memory card, the first image file is displayed. If the number of files read is being counted. The number is displayed as '...'. (This occurs if more than 1,000 files are saved.) File name may be cut if the length of the file name is long. Press the End button or the main menu key; the image file closes and you go into the main menu. If the last file does not exist in the SD memory card, the first file in the list appears. If the last file is damaged, the previous file appears. If no image file exists in the SD memory card, a sample file appears.



6. A Look at the Home Screen

Page_37

6.5 Picture

© Previous/Next Image

If there is a damaged file, skip the file and the next file is displayed.

Press the Previous button while the first file in the list is displayed, and the last file in the list is displayed.

Press the Next button while the last file is displayed, and the first file in the list is displayed.



6. A Look at the Home Screen

Page_38

6.5 Picture

④ Image in Full Screen

Press an image. The image then appears in full screen.



6. A Look at the Home Screen

Page_39

6.5 Picture

© Image in Full Screen - Enlarge/Reduce

Arrow-shaped buttons (left, right, up and down) appear, enabling an image to be enlarged/reduced. The buttons in an enlarged image changes the focus of the image. The enlargement indicator is only displayed for *2/*4. An image can only be enlarged/reduced in full screen.

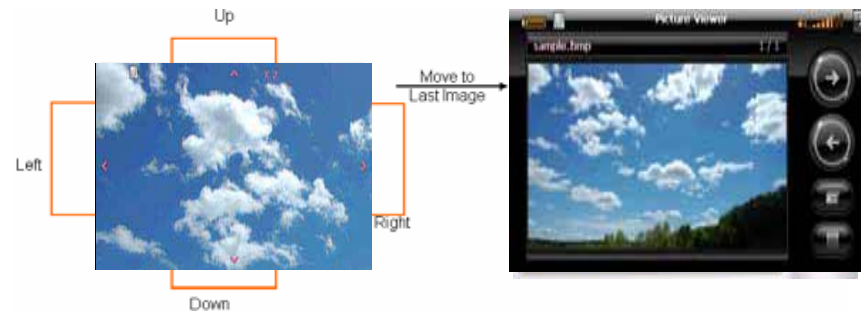


6. A Look at the Home Screen

Page_40

6.5 Picture

- ① Image in Full Screen - Enlarge/Reduce-Moving to the Last Image
Moving to the last image displays the last file in its original size (*1).



6. A Look at the Home Screen

Page_41

6.5 Picture

Ⓢ Slide

Images are displayed at three second intervals. Slide show occurs in full screen. If the screen is pressed during a slide show, the current image is displayed in the previous mode. After the last file is displayed, the first file is displayed automatically after three seconds. If there is a damaged file, the file is skipped and the next file is displayed. If the file size is large, opening the slide may take more than three seconds.



6. A Look at the Home Screen

Page_42

6.5 Picture

④ Picture List Description

Focus is located at the file being displayed. When the length of a file name where the focus is located is long, the name flows from right to left. When pressing the Cancel button, you move to the previous screen and the file where the focus is located is displayed. When the image file being displayed is stopped and you enter PICTURE again, another list is created. If the number of files read is being counted, the number is displayed as '...'



6. A Look at the Home Screen

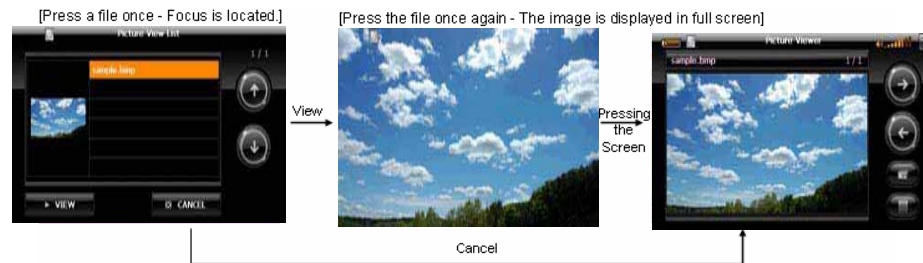
Page_43

6.5 Picture

① Picture List View

Press the list once-Focus is located. Press the list once again-The file is displayed.

Play-If a damaged file is recognized during loading, the loading stops and a pop-up screen opens.



6. A Look at the Home Screen

Page_44

6.5 Picture

① Damaged File in Picture List

Play button: Disabled. Cancel button: The last file is displayed in the main screen of Picture. If the file size is too large, the file is processed as a damaged file. If the focus is located at a damaged file, "This file is damaged" is displayed in the Picture Viewer.

Damaged file image appears in Preview.



6. A Look at the Home Screen

Page_45

6.6 Game (option)

Among 32 different picture cards, you should pair 2 same picture cards.
Once you execute the game, you will have the previewing mode during 5 seconds before starting the actual game.
After 5 seconds preview mode, the initial card will start to be reversed and the game time will progress.



Preview Screen



Game Progressing Screen



Time up play again

After 5 seconds preview mode, the initial card will start to be reversed and the game time will progress.
Once your game time is over, you can start new game by pressing "New Game" button.

Score

- . Each single failure of card pairing will deduct 10 points from your score.
- . Each single success of card pairing will add 100 points to your score.

Once your game time is over, the below screen will be pop-up. You can start

06. A Look at the Home Screen

Page_46

6.7 Setting

ⓐ Environment Settings

Settings are applied immediately. The screen setting tabs appear. When accessing the screen setting tab, the last setting status appears. If a screen with changes is exited without pressing the 'Save' button, the change is canceled. Close the changed setting by pressing the End button or the main menu key, and move to the main menu screen. The changed setting is saved by pressing the 'Save' button.



06. A Look at the Home Screen

Page_47

6.7 Setting

㉞ Saving the Settings

	Submenu	Default	Description
Calibration	"Settingsbutton"		Moves to the Calibrate screen.
LCD Brightness	1-100	50	Adjusts the brightness of the LCD screen by using the adjustment bar.(If the power is turned off,the LCD cannot be adjusted.)
LED Brightness			Adjusts the brightness of the LED.
Initial Screen Setting	Main menu/ Navigation/Music/ Picture	Main Menu	Sets the start screen after turning the system power on.
Language	Korean/ English	"Local Language"	Sets the desired Local language.
Pop-up Sound	Doorbell/Electronic Sound/Ring Tone/None		Set the pop-up sound
Button Sound	Xylophone/Step Sound/Arrow Sound/None		Set the button sound
Auto Booting		on	Boot up automatically

06. A Look at the Home Screen

Page_48

6.7 Setting

④ Saving the Settings

When saving settings, a pop-up screen indicating "Saved" is displayed and the menu moves to the main menu.

06. A Look at the Home Screen



③ Auto-booting

By clicking on the auto booting in the Settings, when user starts the ignition of the vehicle, Carpoint's navigation boots up automatically



④ Auto shutdown or continue on battery

When turning off the engine of the vehicle, removing cigar jack adaptor or AC adaptor from the device, the device will ask whether to continue with the battery power. The device turns off in 10 seconds if you do not press the button. When pressing the Yes button, the device will continue to run with the battery

07. Transferring Multimedia Files

Page_50

7.1 Using SD Card Reader



Insert an SD storage card into your device and turn on your computer and the device. Once the SD reader and your PC are connected, move the desired objects to the SD card

9. Capturing GPS Signals from Satellites

After initial purchase it is highly recommended that users drive to where the sky is clearly visible, with no obstruction from skyscrapers, overpasses, high-tension cables, overhead walkways or trees, since it may take some time to receive GPS signals: i) depending on circumstances/environment (time, location, satellite status etc.), ii) if the GPS gets reset while driving or iii) in the case of first-time use.







If no GPS signals can be picked up after waiting for quite a while, please restart the whole navigation system by pressing the Power button on the left side of the device. However, choosing the "GPS Reset" button from within the menu will lead to complete deletion of all existing GPS information, so it is best to use this function only after moving a long distance from your previous location.


10. Bluetooth

Page_52

The XROAD V4050 includes *Bluetooth* connectivity. With its embedded internal microphone, it allows you to answer and make calls from the touch screen.

Please see below the description of *Bluetooth* icons appear on the screen.

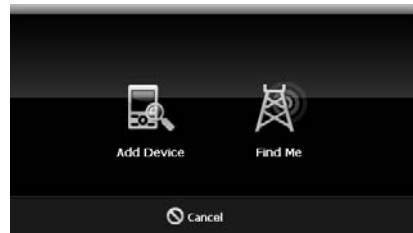
1.  1. *Bluetooth* module is disabled.
2.  2. *Bluetooth* is not connected nor paired to any of the *Bluetooth* phone.
3.  3. *Bluetooth* Hands free and Headset are connected.
4.  4. *Bluetooth* is in Hands-free mode.
5.  5. *Bluetooth* is connected as Hands-free and is in the calling stage.
6.  6. *Bluetooth* is connected to the *Bluetooth* headset.

Press the *Bluetooth* button  on the lower left button on the front of the XROAD to launch the *Bluetooth* system. In case the *Bluetooth* icon already appears on the screen the *Bluetooth* system is already in activated stage.

Pairing your Bluetooth Phone with the XROAD as a Hands-Free Mode Page_53



Ensure that the *Bluetooth* is active and discoverable on your phone and tap on the **Hands-Free** button to set up your phone with XROAD device

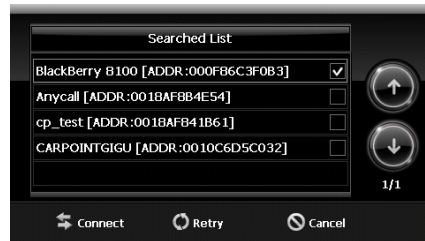


Add Device: Tap on this Add Device to connect XROAD to your *Bluetooth* Phone. If you choose Add Device, you may have to set your phone to allow devices to find it.

Find Me: Tap on this Find Me to allow the XROAD to be found by your phone. You will use your phone to connect to XROAD.

Using XROAD to Connect to your Phone

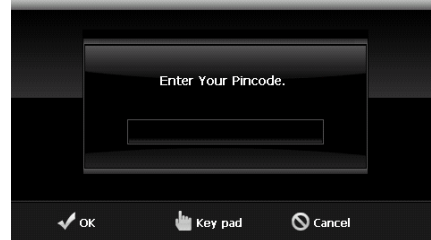
Page_54



Tapping on the **Add Device** will cause the XROAD to search for the available *Bluetooth* devices.

Select your phone from the list and tap **Connect** to connect the XROAD to your phone.

When connection is successful, you will be prompted to enter your PIN code.



Tap **Key Pad** to open the on-screen keyboard and enter your PIN code. The default pin code is 0000. Tap **OK** to record your entry.

The XROAD will pair with your phone. You may need to enter the PIN code or perform other functions on your phone to complete the pairing. Please watch your phone screen during this process.

Using your Phone to Connect to XROAD

Page_55



Tapping on the **Find Me** will cause the XROAD to enter **Discoverable Mode**, allowing other *Bluetooth* devices to connect to it.

You can use your device to pair with the XROAD. Once you enter the PIN code on your phone, the XROAD will ask that you verify the PIN.



Tap **Touch Pad** to open the on-screen keyboard and enter your PIN code. The default pin code is 0000. Tap **OK** to record your entry.

Your phone should now be paired to the XROAD.

You may pair your phone with the XROAD as a headset by tapping the **Headset** button from the Main Menu. This method of connecting the XROAD to your phone is useful only if there has been difficulty connecting the XROAD as a hands-free device.

When you pair the XROAD and your phone this way, the XROAD allows you to answer calls only. You cannot initiate calls using the XROAD in headset mode.

Managing Bluetooth Devices

Page_56



You may have multiple phones set up for connection with your XROAD. You can add and remove phones from your list and disconnect and connect to different phones using the List Screen.

If you have phones already paired to the XROAD, but none of them are currently connected, the below screen will appear if you select Hands-Free from the Main Menu.

Connect: You may tap to connect to the currently selected device.

Find Me: You may tap on the Find Me to put the XROAD in the Discoverable Mode, which allows *Bluetooth* devices to find it.

List: you may tap on the List to display the Device List screen.



Paired List Screen allows you to connect to a device, add devices, and remove device by pressing the buttons on the bottom.

You may select a device to connect to or remove from the list.

Making a Bluetooth Hands-Free Call

Page_57



Select the Hands Free icon from the *Bluetooth* menu to place a call using a currently connected device.

Touch Call: Tap on this icon to open the number keypad and dial the call.

Favorites: Tap on this icon to access previously stored favorite numbers.

History: Tap to view the recent call history and select a number to call.

Voice Call: Tap on this icon to make a voice call. This voice calling feature must be enabled on the phone.



1. Touch Call

You may tap on the **Touch Call** to open the keypad and tap in the keys for the number you wish to call and then tap **Call** to initiate the call.

As you tap on either the numbers or alphabets, it will appear the top of the screen. You may also tap on the backspace to delete a number or alphabets.

Making a Bluetooth Hands-Free Call

Page_58



2. Favorites

You may tap on the **Favorites** to access a list of your previously stored favorite numbers. You may select a number from the list.

Call: Tap on the call button to call the selected favorite number.

Add Favor: Tap on this button to add a favorite number

Remove: Tap on this button to remove a selected favorite number.



3. Call History

You may tap on the **History** to access to a list of your previously called or received numbers.

4. Voice Call

You can tap on the Voice Call to make a call by speaking. The number of a previously recorded voice call number on your phone.



Answering a Bluetooth Call

Page_59



When a call is received by a paired phone, the XROAD will display the **Incoming Call** screen which shows the number calling. In case the number is unknown, it will display "Absent."

You may tap on the **Answer** button to answer the call or **Refuse** button to refuse the call.

In-call Options



During a call, you may press the *Bluetooth* button on the front case of the XROAD to open the screen of the in-call options.

To Phone: Tap on this button to move the call from XROAD to your phone.

Send DTMF: Tap on this button to send DTMF.

End Call: Tap on this button to end the call.

New Call: Tap on this button to open the touch pad and make a new call.

Switch to : When having 3-way calling, you may switch to other party.

Release to : When having 3-way calling, you may end the Current call and switch to other party's call.

Activ. Only : When having 3-way calling, except the current call, all waiting calls will be ended.

Bluetooth Settings

Page_60

You may tap on the Settings button to open the Setting screen.

On the upper part of the screen, it shows the Windows CE and current Windows CE Address of this XROAD device.

You may tap on the Enable/Disable button to toggle between enabling or disabling *Bluetooth*.

You may tap on the *Bluetooth* reset button to reset the *Bluetooth*.



FCC 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 normal 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 output on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced electronics technician for help
- A shielded cable must be used when connecting a peripheral to the serial ports
- Modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment under FCC rules

“CAUTION : Exposure to Radio Frequency Radiation.

Antenna shall be mounted in such a manner to minimize the potential for human contact during normal operation. The antenna should not be contacted during operation to avoid the possibility of exceeding the FCC radio frequency exposure limit. The minimum separation distance of 20cm from the antenna to the body of user required.”