

User Manual

Landnavi

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GPS NAVIGATOR

LANDNAVI-RICH7

Manufacturer :



2MTECH Inc.

674-1, Naksanri, Waeganeup, Chilgokgun,
Gyeongbuk, South Korea

www.Landnavi.co.kr



Landnavi

User Manual

Thank you for purchasing our product.

LANDNAVI product is Car Multimedia System enhances your driving circumstances. You and your passengers can enjoy Navigation, Movie, Music, Photos and etc in the car. Please read this manual carefully before using this product.

www.Landnavi.co.kr

We give you all the supports and information through the above web site. You can download the newest update files and manuals from the web site. Please register the customer information card in our web site for best service to join some events and to get online support.

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Warnings & Notifications

1. For better performance tuning of our product, the specifications can be changed without notice.
2. For better performance tuning of our product, this user's manual can be changed without notice.
3. There might be some mistakes of technical issues and omission in this user's manual.
4. Please read user's manual carefully before usage and use this product correctly.
5. This product is designed to be used in a car with proper installation.
6. The rights of hardware, software, and data of this product belong to 2MTECH Inc. The rights is protected by copyright law and international treaties. Unauthorized duplication or distribution of this rights, or any portion of it, may result in severe civil or criminal penalties, and will be prosecuted to the maximum extent possible under the law.

* "This manual is standardize to S/W Ver 1.0."

Warnings & Notifications

1. For safety, please stop or park the car to operate this product.
2. The voice and map information in this product cannot be guaranteed accurate as road layout may change. Always follow the posted road signs and traffic laws.
3. Do not mount this product in a position which may obstruct the driver's view or prevent the safe operation of the vehicle.
4. Do not watch this product continuously. It may cause an accident.
5. Please adjust the sound volume & LCD brightness properly.
6. Do not use this product in the car when you turn off the engine. It may cause your car battery flat.
7. Please use the provided accessories with this product. We only guarantee the performance of this product with provided accessories.
8. For the initial power up or the case of no use for a long time, it may take up to 10 minutes to secure satellite information on outdoor place where you can see the sky.
9. GPS signal cannot be received properly in following conditions; the inside of car with special metal coating, the place inside of a building, the place under a bridge, the place in a tunnel, and etc.

Warnings for system

1. Do not disconnect the power cable during operation and do not disassemble this product. It may cause break-down or fire or explosion.
2. Do not disconnect the cigarette power cord during operation. It may cause break-down.
3. Do not put the product near or into the water. It may cause break-down or fire or electric shock.
4. If there is any failure of product, please don't use it and call to A/S center immediately.
5. Do not drop the product and do not give an impact to the product. It may cause break-down.
6. Do not put the product under sunshine and moisture in long term. It may cause break-down or fire or explosion.
7. Do not remove SD card while operation. It may cause breakdown or malfunction.
8. This product is designed to use DC12V~24V power.

Minimum specifications of computer

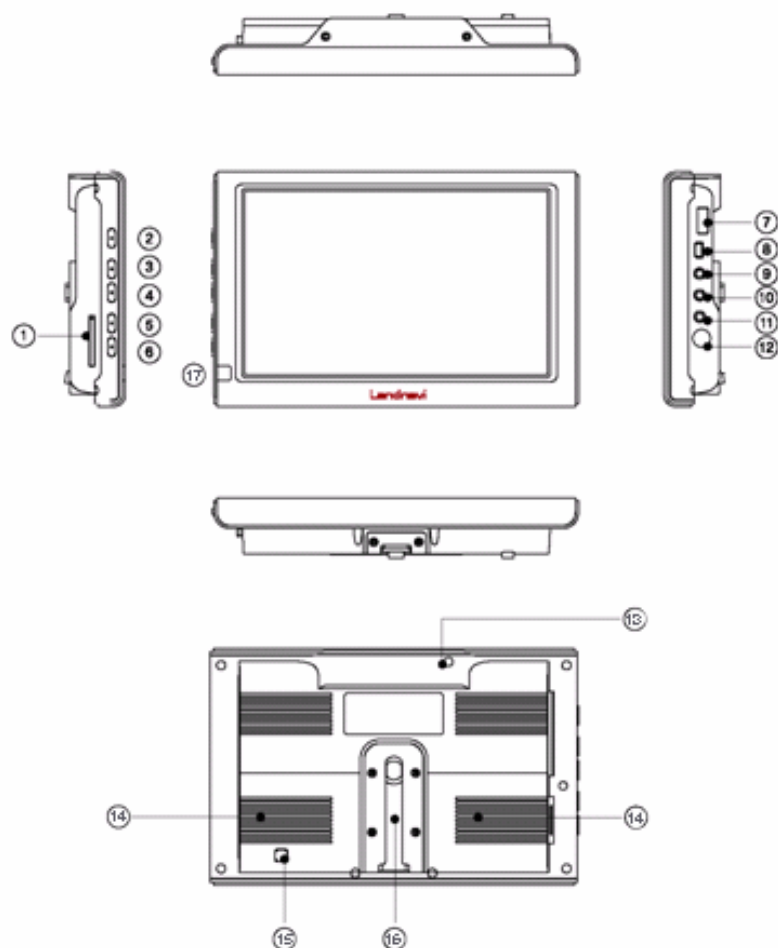
You need a computer to update firmware and map S/W for this product properly.

Please check the minimum specification of computer.

- Microsoft Windows 2000/XP
- At least Pentium III 800MHz
- At least 128MB Main Memory
- At least 2GB Hard Disk Space
- USB* Port

* It's necessary when using the card reader provided.

Parts & Features



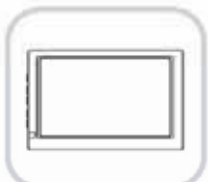
Parts & Features

1. SD CARD SLOT (1)
2. LCD ON/OFF
3. VOLUME UP / RIGHT
4. VOLUME DOWN / LEFT
5. CONFIRM / MENU
6. MUTE / UNMUTE
7. USB 2.0 HOST (2)
8. SERIAL PORT (3)
9. AV IN 1
10. AV IN 2 / REARCAM IN
11. EARPHONE
12. DC IN
13. EXTERNAL GPS ANTENNA
14. STEREO SPEAKER
15. MAIN POWER
16. GLASS MOUNT
17. IR RECEIVER

- 1) Some kind of devices cannot be supported.
- 2) You can use USB memory stick and some kind of devices cannot be supported
- 3) Serial port is only used for emergency recovery by manufacturer.

Accessories

* Basic accessories



Main system



User's Manual



SD Card

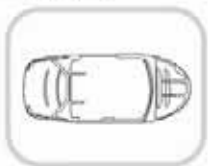


Cigarette Power Cord



Glass Mount

* Accessories sell separately



SD Card Reader



Remote Controller



AV Cable

- * Images are reference only, and can be changed without notice.
- * Accessories can be changed according to package.
- * Accessories can be changed according to improve quality or supply condition.
- * You can buy accessories in the website(www.landnavi.co.kr).

Installation



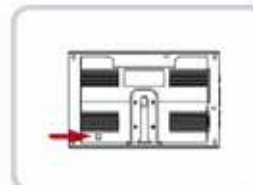
Clean the surface of the location you wish to place the mount bracket. Do not mount where the driver's view will be obstructed .



Slide the main system onto the mount clip and adjust the angle properly. Please check the mount and main system in proper position.



Plug in the cigarette power cord to vehicle DC charger.



After starting the engine, push the power button on the back side to power on the product.

- * Please pay attention that mount may fall if temperature is too hot or too cold. Please visit our website and see guide about mount management by weather.



Navigation

You can use Navigation system with GPS.
Map user manual is provided separately.



Video Player

You can watch movie files.



Audio Player

You can listen to music files.



AV Input

You can connect external devices.



Utility

You can use photo album and memo.



Multitasking (PIP/NIP)

Playing MP3, AV IN etc with navigation at once.



Setting

You can adjust configurations for the system.

You can use high resolution(800x480) Navigation system.



* You can download recent released map data from website of map S/W manufacturer (www.congnavi.co.kr). You have to register first to download map data.

* Please use map S/W manufacturer website if you have questions about map.

2-3 | FILE LIST



File list operation screen

- | | |
|---|-----------------------|
| 1. USB | 9. Play |
| 2. SD Card | 10. List up |
| 3. Directory/File list | 11. List down |
| 4. Add all files
include sub-directory | 12. Exit to main menu |
| 5. Add all files | |
| 6. Add selected file | |
| 7. Delete selected file | |
| 8. Delete all files | |

* Support DIVX, WMV7/8/9, MPEG, SMI(Subtitle) format files
(Some video formats may not be supported.)

2-4 | VIDEO PLAYER



Video player main screen

- | | |
|----------------------|------------------------|
| 1. Previous file | 8. Exit to main menu |
| 2. Play / Pause | 9. Mute |
| 3. Stop | 10. Volume control |
| 4. Next file | 11. Playing time |
| 5. Caption | 12. Playing status |
| 6. Edit playing list | 13. Total playing time |
| 7. Go to main menu | |

* Support DIVX, WMV7/8/9, MPEG, SMI(Subtitle) format files
(Some video formats may not be supported.)

* Some codec of movie files may not be supported in this product
whether it played normally in PC.

2-5 | AUDIO PLAYER



Audio player main screen

- | | |
|----------------------|-----------------------|
| 1. Previous file | 9. Equalizer setting |
| 2. Play / Pause | 10. Equalizer |
| 3. Stop | 11. Repeat option |
| 4. Next file | 12. Exit to main menu |
| 5. Mute / Unmute | 13. Playing list |
| 6. Volume down | 14. Playing time |
| 7. Volume up | 15. View playing list |
| 8. Edit playing list | |

* Support FLAC, APE, MP3, OGG, WMA format files
(Some audio formats may not be supported.)

* Some codec of music files may not be supported in this product
whether it played normally in PC.

2-6 | AV INPUT



AV IN main screen

1. AV Input 1
2. AV Input 2
3. Go to main menu
4. Exit to main menu
5. Mute / Unmute
6. Volume control

* "No Signal" message will show when there is no video signal.
* There can be noise of screen or sound depends on connected
AV device. This is not a fault of product but a problem of
compatibility between devices.



Photo album preview screen

1. Photo directory / file
2. USB
3. SD Card
4. Full view of a selected photo file
5. Preview screen
6. Exit to main menu

* JPG, GIF, PNG, BMP formats are supported and some files may not be supported
 * Image loading time depends on the size of the file.
 For proper image loading process, please resize image file under 500Kbyte.



Photo album main screen

1. Initialize size
2. Enlarge
3. Reduce
4. Previous file
5. Next file
6. Rotate to counterclockwise
7. Rotate to clockwise
8. Slideshow
9. Save as wallpaper
10. File List
11. Exit to main menu

* You can set the wallpaper image with your favorite images.



Memo screen

You can use up to 10 memo and written memo will be saved automatically saved in SD card when finishing memo program.

Please do not use sharp tools to write memo. It can damage touch screen.

Please write memo with moderate speed and accuracy. It may recognize incorrectly if you write too fast.



You can execute program with PIP mode.

1. If you push PIP button, main menu will be appear and you can choose PIP menu you want.
2. Also, if you push confirm button on the left side of terminal, main menu will appear and you can choose PIP menu you want.



PIP audio operation screen

Executes audio player while navigation running.

When you run navigation, push MP3 button in the remote controller to operate PIP audio player with navigation.
Or when you run audio player, push NAVI button in the remote controller to operate PIP audio player with navigation.

- | | |
|--------------------|-------------------------|
| 1. Previous file | 6. Minimize PIP to icon |
| 2. Play / Pause | 7. Go to main menu |
| 3. Next file | 8. Exit to main menu |
| 4. Playing list | 9. Volume control |
| 5. Move PIP window | |



PIP AVIN operation screen

Executes AV IN while navigation running.

When you run navigation, push AV IN button in the remote controller to operate PIP AV IN with navigation.
Or when you run AV IN, push NAVI button in the remote controller to operate PIP AV IN with navigation.

- | | |
|---------------------------|------------------|
| 1. Go to main menu | 6. AV Input 1 |
| 2. Exit to main menu | 7. Mute / Unmute |
| 3. Minimize PIP to icon | 8. AV Input 2 |
| 4. Move PIP window | |
| 5. Change PIP window size | |



PIP video operation screen

Executes video player while navigation running.

When you run navigation, push number3 button in the remote controller to operate PIP video player with navigation.
Or when you run video player, push NAVI button in the remote controller to operate PIP video player with navigation.

- | | |
|-------------------------|---------------------------|
| 1. Playing list | 6. Change PIP window size |
| 2. Go to main menu | 7. Play / Pause |
| 3. Exit to main menu | 8. Mute / Unmute |
| 4. Minimize PIP to icon | 9. Caption |
| 5. Move PIP window | |

* There can be partially loss of picture and vision due to bit rate or size of movie file when you run VIDEO player with navigation.



PIP smart button

you can use five section of the screen as a button.

1. Volume down
2. Volume up
3. Previous file / Channel up / AV Input1
4. Next file / Channel down / AV Input2
5. Show menu

* When PIP movie player or PIP AV IN is played as fullscreen mode, you can use smart menu as above.



Main menu type

You can change main menu type.

1. Standard main menu type
2. User-define main menu type

* You can set the wallpaper image with your favorite images.



Start program setting

You can change start program when you turn on the device.

1. Main menu
2. Navigation
3. Navigation + Audio player
4. Video player
5. Audio player
6. AV IN
7. Last program



Sound setting

You can change main volume and FM Transmitter option.

1. Volume control
2. FM Transmitter setting
 - OFF : Turn FM Transmitter off (Speaker: O / FM Radio: X)
 - ON : Turn FM Transmitter on (Speaker: X / FM Radio: O)
 - BOTH : Use both (Speaker: O / FM Radio: O)

* To register FMT frequency as favorite

1. Select favorite button to save
2. Tune frequency you want
3. Push "Register" button to save as favorite

* You can listen in the sound with your car audio speaker when you select FM transmitter(ON / BOTH).

* There can be some noise by the affection of internal / external condition of a car or mounting position or other devices.

* It is useful when you watch the movie and listen in the music.

* You can change frequency by using volume key on the remote controller.



Screen setting

You can change brightness control and night mode.

1. Screen brightness control
2. Auto night mode changing option

* Brightness is changing automatically if you directly set up the time zone.

* It is useful when night driving by minimizing the reflection.

* Auto brightness control is valid only GPS is successfully connected. Please move to good GPS signal area if you have some problem that are not changing promptly.



ETC setting

You can change other parts of the device.

1. Touch setting (calibration of touch screen)
2. Click sound setting – Beep sound when touch screen
3. Rearcam setting – Auto detect of rear camera

- * We recommend that rear camera connect to AV Input 2 and install rear camera only in the authorized center.
- * When install or uninstall rear camera, please turn off the product. Unless, product can be damaged.



Storage capacity check

You can check storage device capacity.

1. SD card capacity check
2. USB capacity check

- * You should use authorized memory card by ZAMM.
- * Recognition error or speed problem can be occurred when using unauthorized SD card.
- * We support FAT/FAT32 format and some kind of devices cannot be recognized or need some time to recognize.
- * NTFS format cannot be recognize and please convert to FAT32 format.



Firmware update

You can update the firmware.
The update manual and update file will be distribute with our Website(www.landnavi.co.kr).



Version check

You can check the version of the product.
Version information is required for quick and exact support when you need support.

Product Specification

General Information

Model : LANDNAVI-RICH7
Size/Weight : 185mm X 120mm X 29mm , 400g
Chipset : AU1250 MIPS CPU
Memory : 4MB NOR FLASH + 64MB NAND FLASH
+ 128MB DDR2 SDRAM
OS : WINCE 5.0 Core
LCD : DIGITAL 17.8cm (800X480) with touchscreen
Power : DC 12V~24V, 1.5A
USB : 2.0 Host X 1

VIDEO

Supported File : MPEG, WMV, DIVX, Xvid
Caption : SMI
Frame : 30 Frame per second (720x480@30fps)

AUDIO

Speaker : 8Ohm 2W x 2
Supported File : MP3, WMA, FLAC, APE, OGG
Additional Function : FM Transmitter

VIDEO INPUT

Video Format : NTSC/PAL
Video Type : CVBS
Audio : AV IN 1 : Stereo, AV IN 2 : Stereo

Product Specification

GPS

Frequency : L1 (1575.42MHz)
Receiving Type : C/A Code 12-Channel

FM Transmitter

Sending Frequency : 88.5MHz~107.5MHz
Channel : 96 channels
Antenna Power : 500 μ V/m

Antenna Type : Helical Antenna
Modulation Type : FM
Transmission Type : One Way Transmission

FCC Information

This device complies with Part 15 of the FCC results.
Operation is subject to the following two conditions;

- (1) This device may not cause harmful interface, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for CLASS B digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does not cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try correct the interference by one or more of the following measures;

- 1.1. Reorient or reallocate the receiving antenna
- 1.2. Increase the separation between the equipment and receiver.
- 1.3. Connect the equipment into an outlet on a circuit different from that to which receiver is connected.
- 1.4. Consult the dealer or experienced radio/TV technician for help.

WARNING

Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

Warranty

PRODUCT : Car Navigation System

MODEL : LANDNAVI-RICH7

Serial No. :

Purchased Date :

Purchased Place :

Elements of Warranty

2MTECH Inc. warrants to the original retail owner for the duration of this warranty; its LANDNAVI RICH7(hereinafter referred to as the Product) to be free from defects in materials and craftsmanship with only the limitations or exclusion set out below.

Warranty Durations

This warranty to the original retail owner only, shall terminate and be of no further effect ONE (1) Year after the date of original retail sale. This warranty will be deemed invalid if the Product is;

- (A) Damaged or not maintained as reasonable and necessary;
- (B) Modified, altered or used as part of any conversion kits, subassemblies, or any configurations not sold by 2MTECH,
- (C) Improperly installed,
- (D) Repaired by someone other than an authorized 2MTECH Repair Agent,
- (E) Used in conjunction with any equipment or parts or as part of a system not manufactured by 2MTECH,
- (F) Installed, programmed or serviced by anyone other than an authorized 2MTECH Repair Agent,
- (G) Broken by fire, earthquake, flood and natural disaster,
- (H) Where the Serial Number label of the product has been removed or damaged beyond recognition.