

Specifications

System parameters

Operating voltage: DC 10.8/16.0V

Operating current: Max 12A

Memory current: <15mA

Operating temperature: -20°C—+60°C

Storage temperature -30°C—+80°C

Standard: AUTO/PAL/NTSC

DVD parameters

Video output: 1 ± 0.2 vp-p (75 Ω) range

Disc specification: 12cm diameter

Compatible disc: DVD/VCD/CD/MP3/WMA/JPEG/MPEG4 (AV1/DIVX)

Radio parameters

Frequency

FM: 87.5MHZ 108MHZ

AM: 522KHZ 1620KHZ

Display mode: TFT OSD

Storage quantity: FM: 18 channels

AM: 12 channels

Scanning mode: Auto/manual

Audio parameters

Audio distortion: ≤ 20 DB

Resolution: ≥ 50 DB

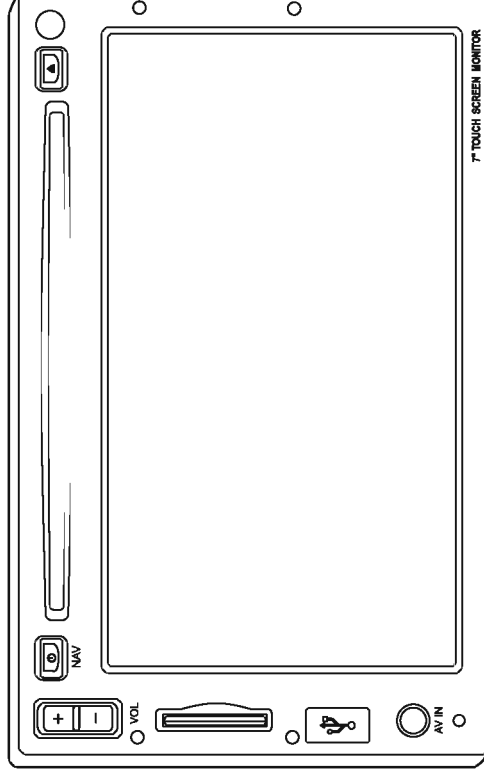
Frequency response: 20HZ 20KHZ (± 3 DB)

Power amplifier parameters

Testing voltage: 14.4V

Speaker impedance: 4-8 Ω

Operation and Installation Manual



M4-LCD AM/FM/WB Stereo Receiver with CD/DVD Player and Touch Screen Controls

Introduction

Please carefully read all of the information in this manual. Familiarity with operation and installation procedures will help you obtain the best possible performance from your new AMI/FM/WB Stereo Receiver and CD/DVD Player with Touch Screen Controls.

WARNING! To prevent fire or electrical shock hazard, do not expose this product to moisture or remove its cover or bottom screws. No user-serviceable parts inside. Refer servicing to qualified personnel.

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Input Connections(Continued)



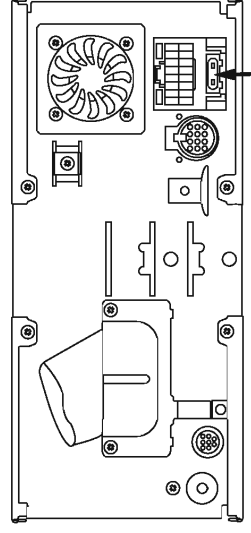
The LCD display may fail to function normally due to the vehicle's battery condition, and could require resetting the radio's microprocessor if:

- The vehicle has been "jump started" from a dead battery condition.
- The vehicle battery becomes very low and is quick-charged.
- The vehicle battery is removed and replaced.

Should any of these conditions occur, simply press and release the RESET button on the radio front panel using the tip of a ball point pen. This will reset the radio microprocessor to the original factory settings. After pressing the RESET button, you should recheck to see if the radio functions normally.

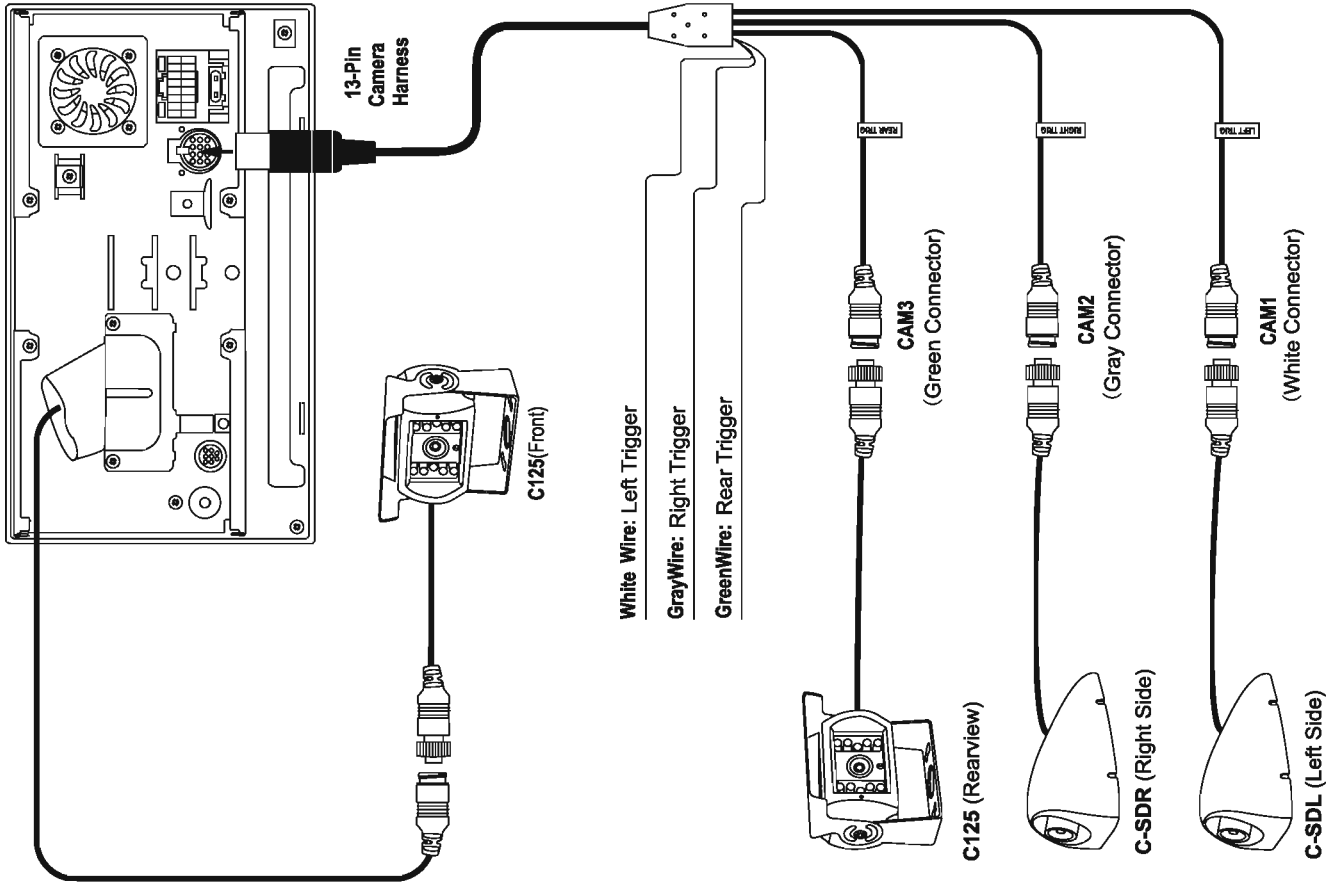
Replaceable Fuse

If the fuse should blow, check that the wiring is correct. If the wiring is correct, replace the fuse with the same amperage rating as the original (15 amp).



15 AMP Replaceable Fuse

Camera connections (Continued)



Warnings

- The driver should neither watch the display nor operate the system while driving. Watching the display or operating the system will distract the driver from looking ahead of the vehicle and can cause accidents. Always stop the vehicle in a safe location and use the parking brake before watching the display or operating the system. In some states and countries, passengers are also prohibited from watching the display.
- Never install the product in a location where it interferes with your field of vision.
- This unit has a cooling fan to decrease the internal temperature. Do not mount the unit in a place where the cooling fan on the unit is blocked. Blocking these openings will inhibit the cooling of the internal temperature and result in damage to the unit.
- Use the proper power supply. This product is designed for operation with a negative grounded 12V DC battery system. Never operate this product with other battery systems, especially a 24V DC battery system. If the product is used with the improper system it may cause a fire or an accident.
- This product must be installed and used in accordance with this manual. Any alterations to this product that enables it to be used in any way other than intended or designed could distract the driver and result in an accident causing injury or death. Magnadyne Corporation disclaims any and all liability that may result from failure to install and operate in any other manner in which this unit was intended.

- Do not disassemble, modify the unit or attempt to repair the product yourself. If the product needs to be repaired, consult your dealer.
- Do not install the unit in a place exposed to direct sunlight or excessive heat or humidity. Avoid places with too much dust or the possibility of water splashing.

- **Backing Up Your Vehicle**
Do not backup your vehicle while looking at the monitor. Always look in the direction of your vehicle's motion. Use the monitor only as an aid in safety confirmation. The actual distance may be different than it appears in the monitor. The range of the image in the monitor is limited. Always be aware that blind spots may exist and not appear at all times on your monitor.

The product is intended to assist in safe driving and allows the driver to have a broader field of vision during backup. You, as the driver, are solely responsible for the safe operation of your vehicle and the safety of your passengers and pedestrians, and abiding all state and local traffic regulations. Do not use any features of this system to the extent it distracts you from safe driving. Your first priority while driving should always be the safe operation of your vehicle. Magnadyne will not accept any responsibility whatsoever for accidents and/or injuries resulting from failure to observe these precautions or safety instructions.

Caution

- FCC REGULATIONS STATE THAT ANY UNAUTHORIZED CHANGES OR MODIFICATIONS TO THIS EQUIPMENT MAY VOID THE USER'S AUTHORITY TO OPERATE IT.
- TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.
- THIS DEVICE IS INTENDED FOR CONTINUOUS OPERATION.
- TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK AND ANNOYING INTERFERENCE, USE ONLY THE RECOMMENDED ACCESSORIES.

Liquid Crystal Panel

- Any harsh impacts may damage the liquid crystal panel.
- Usage temperature range: 32°F to 104°F. When the temperature is very cold or very hot, the image may not appear clearly or may move slowly. Also, movement of the image may seem to be out of synchronization or the image quality may decline in such environments. Note that this is not a malfunction or problem.
- Sudden changes in the temperature inside the vehicle such as those which occur immediately after the vehicle's air conditioner or heater has been turned on may cause the inside of the liquid crystal panel to cloud over due to water vapor or it may cause condensation (droplets of water) to form and, as a result, the panel may not work properly. Do not use the unit while these symptoms are evident. Instead, leave the unit standing for about an hour, and then resume or start use.
- If the screen of this unit is dirty, wipe the dirt off with a cloth moistened with a mild cleaner. Note: Applying spray cleaner directly to the unit may affect its mechanical parts or cause an electrical shock. Wiping the screen with an abrasive cloth or using a volatile liquid such as thinner or alcohol may scratch or damage the surface of the screen.

Disc Warnings



DVD
12cm disc
(Single-sided disc only)



CD
12cm disc



MP3
12cm disc

Handling:

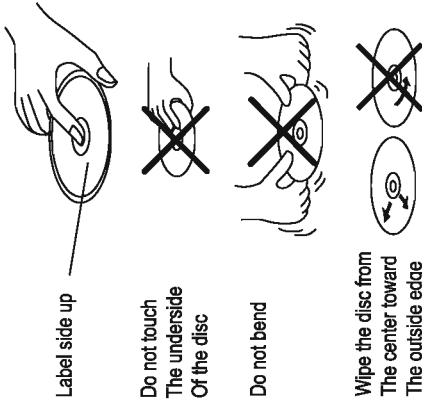
- Dirt, dust, scratches and warping disc will cause non-operation.
- Do not place stickers on disc or scratch disc.
- Do not place discs in the following places: Direct sunlight, dirty, dusty or damp areas, near car heaters, car seats or dashboard.

Disc Cleaning:

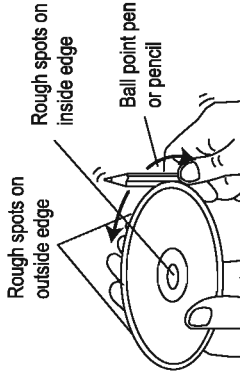
Use a dry, soft cloth to wipe the disc's surface. If the disc is very dirty, use a soft cloth slightly moistened with isopropyl (rubbing) alcohol. Never use solvents such as benzine, thinner or conventional record cleaners as they may mar the surface of the disc.

Preparing New Discs with Rough Spots:

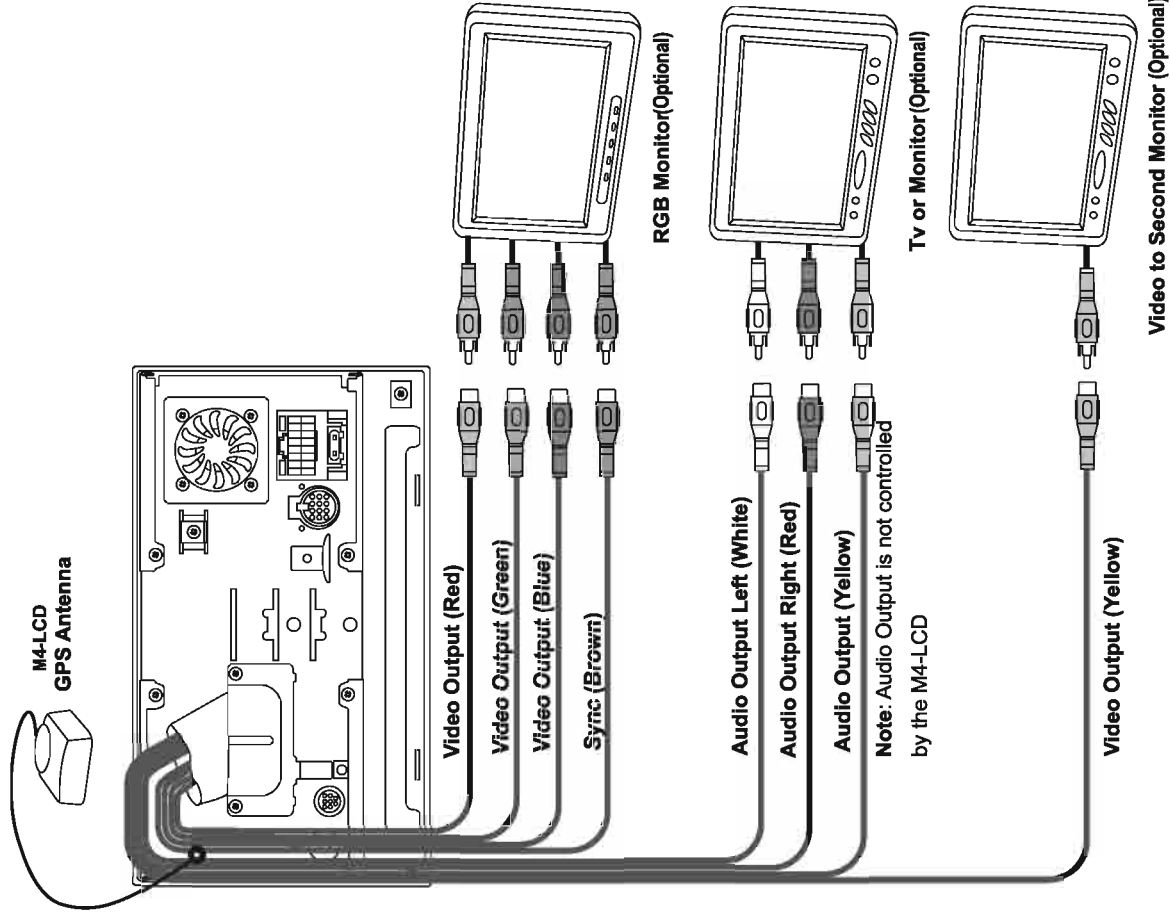
A new disc may have rough edges on its inside and outside edges. If a disc with rough edges is used, the proper setting will not be performed and the player will not play the disc. Therefore, remove the rough edges in advance by using a ball point pen or pencil as shown. To do this, press the side of the pen or pencil against the inside and outside edges of the disc.



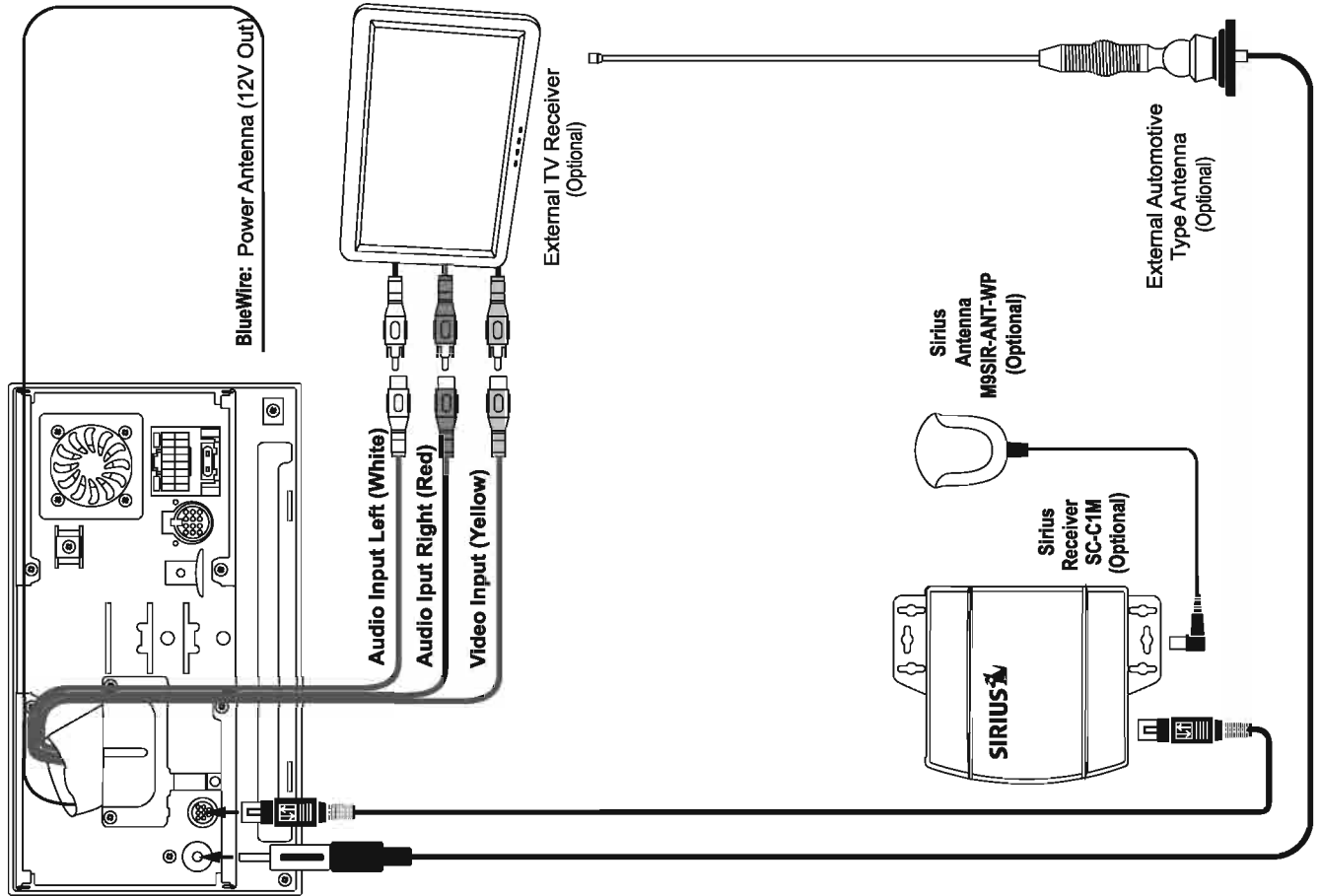
Note: A disc may become somewhat scratched (although not enough to make it unusable) depending on handling and conditions in the usage environment.



Input/Output Connections(Continued)



Input Connections (Continued)



Disc Warnings

Compatible discs

| Disc type | Standard | Compatible | Remark |
|-----------|------------------------|------------|---|
| DVD | DVD video | Yes | |
| | DVD audio | NO | |
| | DVD-R | Yes | |
| | DVD-RW | Yes | MP3/WMA/AAC/JPEG/DivX/MPEG playing multi-boundary, multi-section (depending on the authorization) |
| | DVD+R | Yes | |
| | DVD+RW | Yes | |
| CD | DVD-RDL (double sided) | Yes | Video format only |
| | DVD-RDL (double sided) | Yes | |
| | DVD-RAM | NO | |
| | Music CD | Yes | |
| | CD-ROM | Yes | MP3/WMA/AAC/JPEG playing supports multi-section, doesn't support packet writing |
| | CD-R | Yes | |
| | CD-RW | Yes | |
| | DTS-CD | | |
| | Video CD (VCD) | Yes | |
| | Super video CD | NO | |
| Others | Picture CD | NO | |
| | CD-EXTRA | Partly | Only plays music disc section |
| | HDCD | Partly | Audio quality of common CD music |
| | CCCD | NO | |
| | DualDisc | NO | |
| | Super music disc | Partly | Only plays CD layer |

Using "DualDisc"

When playing DualDisc with this player, the disc surface not being played may be scratched when inserting or ejecting the disc. Since the surface of music disc doesn't comply with the standard, the playing isn't supported. (DualDisc is a disc that contains DVD standard signal on one side and music disc signal on other side)

About video files

Compatible video files

MPEG1, MPEG2, DivX

Compatible MPEG-1 files

Extension: mpg, mpeg, mpe, m1v

Image size: 320×240, 352×240

Audio format: MPEG Audio Layer2

Audio sampling frequency: 32/44, 1/48kHz

Audio bit rate: 32-320kbps (constant bit rate only)

Compatible MPEG-2 files

Extension: mpg, mpeg, m2v

Image size: 640×480, 704×480

Audio format: MPEG Audio Layer2

Audio sampling frequency: 32/44, 1/48kHz

Audio bit rate: 32-320kbps (constant bit rate only)

Compatible DivX files

Extension: divx, div, avi

Image size: 352×240, 352×288, 720×450, 720×576

Audio format: MP3, Dolby Digital

Audio sampling frequency: 32/44, 1/48kHz

Audio bit rate: 32-320kbps (constant bit rate only)

Compatible media

The compatible disc, disc format, file and folder name, and playing sequence of D-R/RW/ROM, DVD+R/RW and VCD are same to audio files.

Disc Warnings

About audio files

Compatible audio files

AAC-LC (.m4a), MP3 (.mp3), WMA (.wma)

Compatible MP3 files

Format: MPEG 1/2 Audio Layer3 files, transmission bit rate: 8-320kbps/variable bit rate; sampling frequency: 8, 11, 025, 12, 16, 22, 05, 24, 32, 44, 1, 48 kHz; ID3 label: version 1.0, 1, 1, 2.2; 2.3, 2, 4 (title/artist/album: doesn't support image display)

Compatible WMA files

Format: files that comply with Windows Media Audio (excluding files with new functions for Windows Media Player 9 or higher);
Transmission bit rate: 48-192kbps/variable bit rate; sampling frequency: 32, 44, 1, 48 kHz; WMA label (content description): title/artist;
WMA label (extended content description): WM/album title.

Compatible AAC-LC files

Format: .m4a files that use AAC-LC format encoding.
Transmission bit rate: 16-320kbps;
Sampling frequency: 16, 22, 05, 24, 32, 44, 1, 48 kHz;
iTunes m4a Meta-data (music info): Title/artist/album.

Remark:

- If common disc music and other playing systems are recorded in one disc, only the playing system recorded in the start section can be played.
- Do not add extension to non-audio files, or else great noise will be made while playing and damage the speaker.
- The files that have copy-protect can't be played.
- Due to setting of encoding software and/or recording condition, the audio files may not be played.
- The player is incompatible with the update and additional specifications of compression format standard.
- Due to the recording condition of audio files, the playing time may not be displayed normally.
- The optimized settings are unavailable for music that uses variable bit rate encoding.

Compatible disc media

CD-R/RW/ROM, DVD±R/RW

Compatible disc file formats

ISO9660 Level 1/2, Joliet, long file name

Limitation on file and folder structure

Maximum layers of directory: 8
Maximum folders: 254
Maximum files in each folder: 255
Maximum files (each device): 2400

Remark:

- According to recording conditions such as culture class and folder structure, the playing may need certain time to start.

Maximum displayed characters

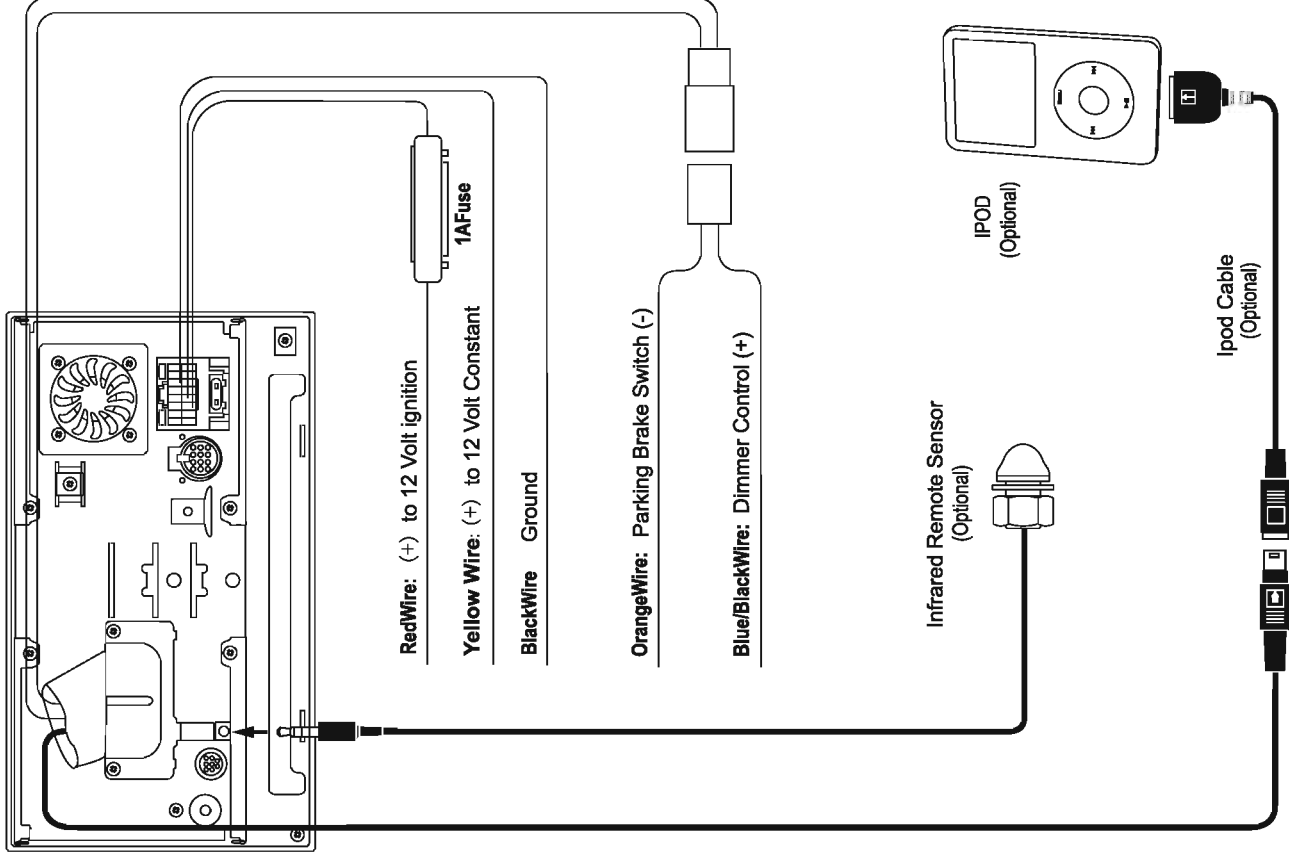
File/folder name: 128
MP3 ID3 label: 30
WMA content properties: 30
ACC music info: 60

Remark:

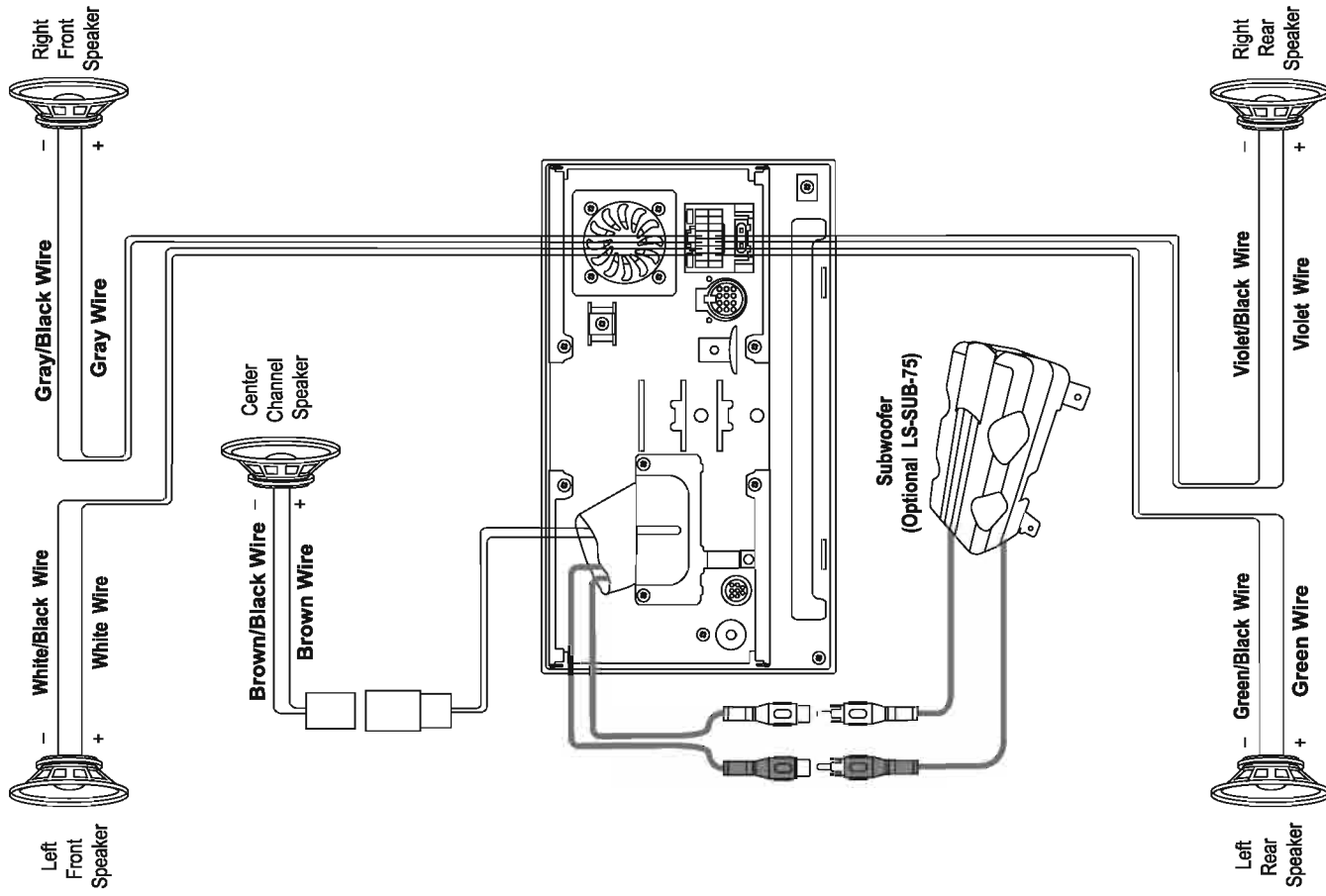
- The character quantity depends on byte unit.
- The characters of file/folder name include the extension.
- This player is compatible with the following versions of MP3 ID3 labels:
 - erision 1.0/1.1/2.2/2.3/2.4
- Can't display ACC Id3 labels

Input Connections

This unit for use only with a 12Volt DC power source with a negative ground.



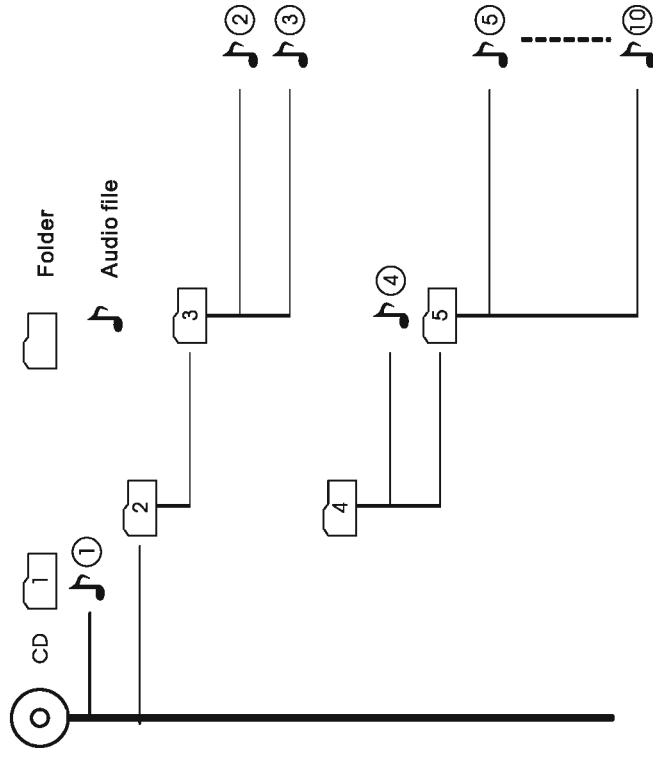
Speaker Connections



Disc Warnings

Playing sequence of music files

In the following example of folder/file quantity, the files are played from ① to ⑩.



About image files

- * Compatible image files
 - * JPEG
 - * Extension .jpg, .jpeg, .jpe
 - * Compatible media CD-R/RW/ROM, DVD±R/RW
 - * Baseline format
 - * Maximum 8192 (W) * 7680 (H) pixels
 - * Progressive scanning format
 - * Maximum 1600 (W) * 1200 (H) pixels
- The compatible disc, disc format, file and folder name, and playing sequence are same to audio files.

Remark:

- * Zoom in/out the image to above size for displaying on the screen.
- * The image files with attached information (e.g. Exit) may not be played or operated normally (e.g. Rotating).

DVD label

Operation limit label

For DVD of this type, certain functions of this player (e.g. playing) may be limited according to the position of DVD being played. In this case, the following labels are displayed on the screen.

Discs with valid period

Do not leave discs that have valid period in this player, or else you may not be able to take it out.

Basic Functions

Main interface introduction

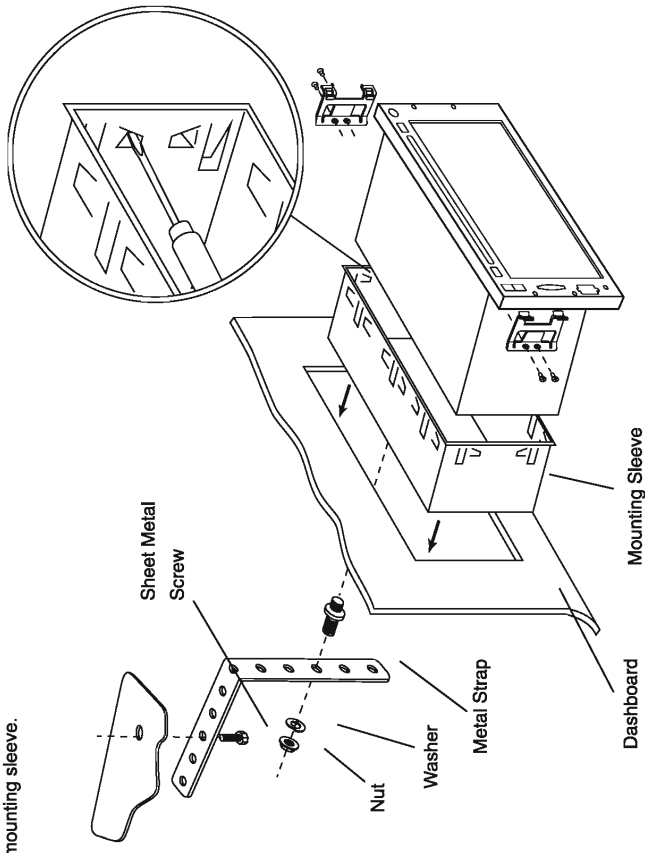


Installation

Step 1: The radio chassis is designed to be "Sleeve Mounted" through an opening in the dashboard panel. The required opening size is 182mm (7-3/16") x 84mm (3-5/16"). Cut or engage an opening in the dashboard to accommodate the mounting sleeve.

Step 2: Insert the mounting sleeve into the opening in the dashboard. Bend the metal tabs on the sleeve to secure the mounting sleeve to the dashboard.

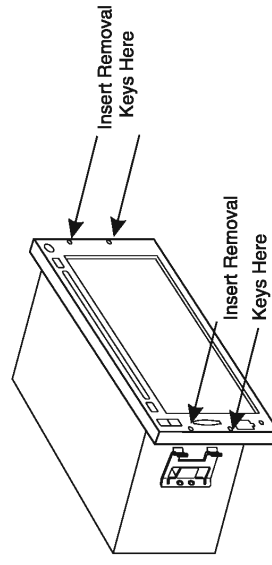
Step 3: Bring all wiring for the connection of the unit (including the antenna) through the center of the mounting sleeve.





Removing the Unit:

To remove the radio after installation, insert the removal keys straight back until they click. Then pull the radio out.

Note: If the removal keys are inserted at an angle they will not release the radio.

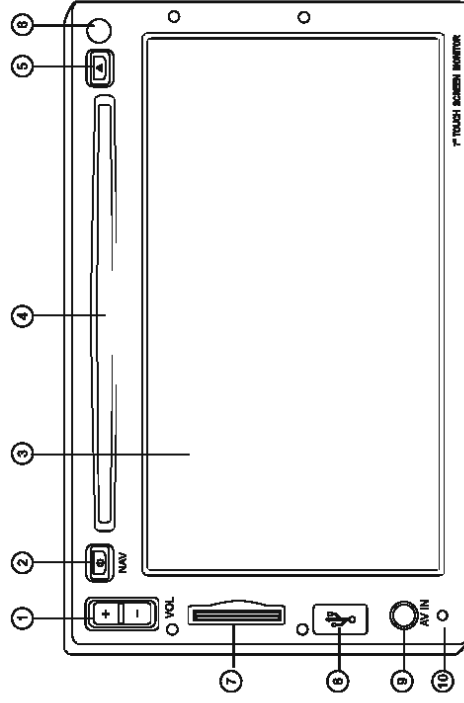




After setting GPS, press the  icon to enter GPS software. Use the GPS software to set the GPS path. Enter your destination and click OK to start navigating. You can also press the  button on the panel to enter GPS mode directly.

Note:

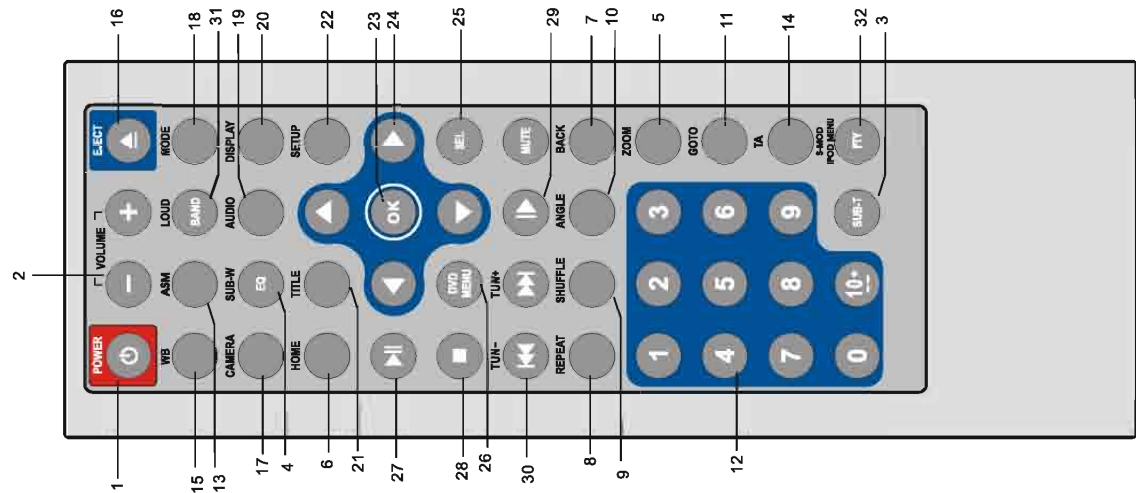
1. Before using the GPS, please make sure that GPS signal antenna has been connected properly and satellite signals are received successfully. The GPS works normally only when the signal strength is at least three.
2. Please refer to the GPS setup in system setup for specific settings.



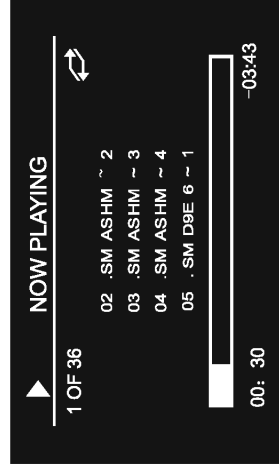
1. Volume Button: Push (+) to increase or (-) to decrease the volume level.
2. Power On/Off Button: Press to turn the unit On or Off.
3. LCD Display: Touch to interact with the display screen.
4. CD Slot: To play a CD/DVD, insert a disc into the slot with the label facing up.
5. Eject Button: Press to eject a disc.
6. Infrared Eye: Receives the signals from the remote control.
7. SD Card Slot: Insert the SD card to play recorded music data. Notes: This unit may not play all SD cards. The manufacturer of this unit is not responsible for any data loss. We suggest you back up your data.
8. USB Input: Plug in your USB device. "USB" will appear in the display. Note: This unit may not function with all MP3 players. The M4-LCD will control the USB audio device. (See "USB Operation" for more details).
9. Audio/Video Input Jack: Plug in a device with a 3.5mm audio/input plug. The M4-LCD will not control the device, it just allows the audio/video to be played through the system.
10. Reset Button: Press the reset button if the unit freezes up or does not function correctly.

Remote Control Button Locations and Functions

- Power On/Off: Turn the unit On or Off.
- Volume: Increase (+) or decrease (-) the volume level.
- Subtitle (SUB-T): Accesses DVD's subtitle languages.
- Equalizer (EQ): Choose between preset sound equalization settings. Press and hold to turn the subwoofer On and Off.
- Zoom: Enlarges or reduces the size of DVD picture.
- Home: Return unit back to the main source screen.
- Back: Selects previous screen.
- Repeat: Repeats play of chapters, titles, tracks and discs.
- Shuffle: Plays all the tracks on the CD in random order.
- Angle: Changes the view angle on multi-angle DVD discs.
- Go to: Use in conjunction with the numeric keypad to skip to the desired chapter.
- Numeric Keypad: Inputs the corresponding number.
- Automatic Station Memory (ASM): Press and hold for automatic station memory storing. Press and release for scanning memorized stations.
- Traffic Announcement (TA): Activates the traffic announcement function. (See the Radio Operations section for more information).
- Weather Band (WB): Press for direct access to the weather band radio.
- Eject: Ejects the loaded disc.
- Camera: Press to change the source to camera mode.
- Mode: Scrolls through the available sources.
- Audio: Changes the language on multi-language DVD discs.
- Display: Displays source information.
- Title: Displays the title menu that is stored on the DVD disc.
- Setup: Access the Bass, Treble, Balance, Fader and Subwoofer controls.
- Ok: Confirms the selected item.
- Cursor: Moves feature selection up, down, left or right.
- Select (SEL): Accesses the Sound menu.
- DVD/Menu: Displays the DVD menu.
- Play/Pause: Starts and pauses disc play.
- Stop: Stops disc play.
- Slow Motion: Slow motion forward or reverses playback of DVD disc.
- Tuner/Track/Chapter: Radio: Press and the tuner will scan to the next strong station and stop. Press and hold until "MANUAL" appears in the display then release. Then press again until the desired radio station is tuned-in. CD: Press to change to a lower or higher track. DVD: Press to change to a lower or higher chapter.
- Enter/Band and Loud Button: Radio: Selects AM1, AM2, FM1, FM2 and FM3 radio bands. Loudness: Press and hold button until "LOUD" appears in the display to boost high and low tones at low volume levels. To deactivate, press and hold again until "LOUD OFF" appears in the display.
- IPOD Mode: See "IPOD Operation" for more information.
- Program Type (PTY): Activates the PTY screen which scans FM radio stations according to program type.



IPOD Operation



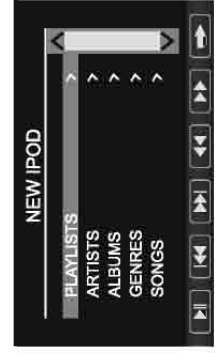
Press the power switch on the panel, and click the **IPOD** button in the main interface to enter the ipod interface. In the ipod interface, press the **HOME** button to return to the main interface.

Operation instructions:

- Connect the ipod cable properly, and the system will play the audio files directly.
- When IPOD is connected properly, press the **IPOD** button in the main interface to enter IPOD playing interface, and press the function button to play.

Button introduction:

- button: Play/pause
Press it first to pause, and press it again to resume playing.
- button: Previous/next, fast rewind/forward
While playing, press it to enter previous chapter /track/scene, or next chapter/track/scene.
- button: Fast rewind/forward
While playing, press it to rewind/forward fast.
- button: Go to next page.
- button: Switch IPOD playing mode.
- button: UP/DOWN selection of IPOD function
- button: Confirm the selection
- button: Return to previous level.



Automatic Camera Selection:

Rear View Camera:

The rear view camera will automatically activate when the ignition key is turned "On" and the vehicle is put into reverse. The video image from the camera will appear on the screen and the audio from the rear camera only can be heard through the vehicle's speakers.

Note: This system only provides for one way audio, from the camera to the M3-LCD/M4-LCD. The M3-LCD/M4-LCD is unable to transmit audio to the camera.

Side View Cameras (Left and Right)(if equipped):

The side view cameras will automatically activate when the ignition key is turned "On" and the vehicle's turn signal are used. The video image from the camera will appear on the screen.

Note: Side view cameras do not have audio.

Front View Camera

The front view camera can not be automatically activated. The front view camera can only be manually selected, see "Manually Selecting the Camera View" below for more information.

Note: Front view camera does not have audio.

Note: Automatically activated camera views have priority over manually selected camera views.

For instance: When a vehicle is put into reverse gear the rear camera view will automatically be displayed on the screen. A manually selected camera view can not override the rear camera view.

Manually Selecting the Camera View:



1. Press the HOME button to select the source screen. Then press the CAMERA button to select the camera source screen.
2. Select a camera view (FRONT, LEFT, RIGHT or REAR) by pressing the button associated with the camera view you want to display on the screen.




Language setup

Press the power switch  on the panel, click the **Setup** button in the main interface to enter the SETUP interface, and then click the **Language** icon to enter language setup interface, select a language and click  to save and exit setup. Available language option: English.

Time setup


Press the power switch  on the panel, click the **Setup** button in the main interface to enter the SETUP interface, and then click the **Time** icon to enter time setup interface, and click  to save and exit after setting.

Setting method:

Click the  button to adjust year/month/day/hour/min. After that, click OK to save the settings. The player uses 24-hour for European, Russian and Japanese time, and uses 12-hour for American time.

When GPS has signal, the year/month/day/hour/min will update to current time.

Radio setup

Press the power switch  on the panel, click the **Setup** in the main interface to enter the SETUP interface, and then click the **Radio** icon to enter radio setup interface, and click  to save and exit after setting.


Setting method:

Click the  button to select America1/America2/Japan/Russian/Europe radio area, and click Save after setting.

GPS setup

Press the power switch  on the panel, click the **Setup** in the main interface to enter the SETUP interface, and then click the **GPS** icon to enter GPS setup interface, and click  to save and exit after setting.

Setting method:

1. To set the GPS path: It is necessary to set the GPS path before using the GPS software. Insert the GPS card into the slot, click the **Setup** button in the main interface to enter the SETUP interface, select the desired GPS start path, and click OK to exit GPS path setup.
2. Press the  button on the panel to enter GPS mode.

Note:

- 1) Before using the map, you may need to update the software. Please send the GPS card to authorized serv/ice center. The navione folder in the SD card is the GPS program. Do not delete any file in it, or else the GPS program will be abnormal.
- 2) Please refer to GPS mode interface for the specific setup of GPS path.





System setup



Brightness adjustment

Press the power switch  on the panel, click the button **Setup** in the main interface to enter the **SETUP** interface, and then click the **Brightness** icon to enter brightness setup interface, and click  to save and exit after setting.

Setting method:

Click  +  button to adjust the screen brightness. Click to save and exit after setting.




System setup

Press the power switch  on the panel, click the button **Setup** in the main interface to enter the **SETUP** interface, and then click the **System** icon to enter system setup interface, and click  to save and exit after setting.

Setting method:

Enter system interface, type password "888888" and click **OK** button to enter system setup. Click to select **SYS** and **Effect** icons. Click **OK** to save and exit after setting.

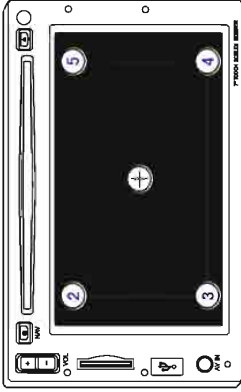
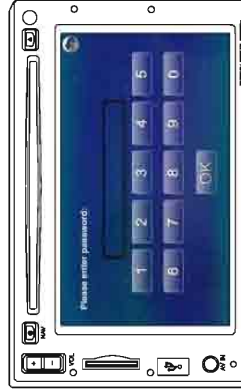
Calibration setup

Press the power switch  on the panel, click the button **Setup** in the main interface to enter the **SETUP** interface, click the  button in the **SETUP** interface to turn to next page, and then click the **Calibration** icon to enter calibration setup interface, click **OK** to enter password confirmation interface, type password "888888" and click **OK** to start calibrating. Save and exit after calibrating. Click  to exit and return to the main interface.

Calibrating method:

Click the center of     with the stylus to calibrate the screen in sequence. After calibrating, the system saves and exits automatically.

Note: While touching, please click with force accurately on every position of the screen, or else the precision will be affected.



Sirius Satellite Radio Setup

Skipping a Channel:

1. Press the  button.



2. Press the  button.



3. Select the Channel by highlighting the Channel to be skipped and press the  button. "SKIPPED" will appear next to the Channel.



Reinstating a Skipped a Channel:

Select the Channel to be reinstated by highlighting the Channel. "SKIPPED" will appear next to the Channel. Press the  button and "SKIPPED" will disappear from the display. The Channel is now reinstated.



Programming Preset Sirius Channel (continued):

4. Additional Sirius channels can also be programmed in the different Sirius Preset Bands (SIR1, SIR2 and SIR 3). Press the **SIR BAND** button to access the different Sirius Preset Bands.

Note: Each band can program 6 channels, so 18 Sirius channels can be programmed in the radio's memory.

Preset Band



Recalling Preset Sirius Channel:

1. Press the **PRESET** button to access the Preset Channel menu.



2. To recall a Channel, press and release the preset number displaying the desired Channel number on the button.



Note: Additional Sirius Channels can also be recalled in the different Sirius Preset Bands (SIR1, SIR2 and SIR 3). Press the **SIR BAND** button to access the different Sirius Preset Bands.

Preset Band



LOGO setup

Press the power switch on the panel, click the button **Setup** in the main interface to enter the SETUP interface, click the button in the SETUP interface to turn to next page, and then click the **LOGO** icon to enter choice picture setup interface, click to select logo files, and then click to save and return to the main interface.

Setting method:

1. In choice picture setup interface, select a file prestored in the system, click to save and return to the main interface.
 2. Click **SCAN SD** button, and set a picture saved in the SD card in the GPS CARD slot as WALLPAPER.
- Note: Please select 800dpi*480dpi & 24-bit/channel & BMP/JPG format file as WALLPAPER.



Audio setup

Press the power switch on the panel, click the button **Setup** in the main interface to enter the SETUP interface, click the button in the SETUP interface to turn to next page, and then click the **Audio** icon to enter EQ setup interface, click to save and return to SETUP interface after setting, and then click to return to the main interface.

Setting method:

EQ setup

1. Enter EQ interface, and available options are VOL/SUB OUT/BASS, and MID TREBLE. Click button to set manually.
2. In EQ setup, available modes are POP/ROCK/MATAL/DANCE/ELECTRONIC/COUNTRY/JAZZ/CLASSICAL/BLUESY/OLD/OPERATIC/SPEECH and OPTIMAL. Click button to select EQ mode. You can also adjust the preset EQ, and click Return button to save after setting.
3. Adjust to USER-DEFINE, and customize the EQ. Click Return button to save after setting.
4. The EQ setup interface has LOUD and EQ switch buttons. Click button to activate/deactivate LOUD and EQ.
5. If the preset effect isn't optimal, you can press and hold the button for one second to reset the EQ.

Balance setup


1. Click the button in EQ setup interface to enter EQ balance setup interface, and click the button to set the EQ of front, rear, left and right speakers.
2. Click the button to restore the audio setup of front, rear, left and right speakers.
3. Click to set CENTER SP.
4. After setting, click to return to EQ setup interface, and then press the button to return to the main interface.



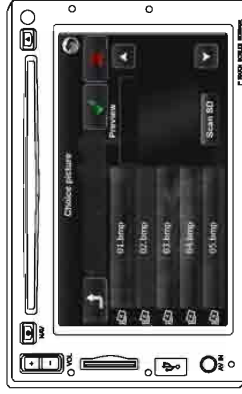
Wallpaper setup

Press the power switch  on the panel, click the **Setup** button in the main interface to enter the SETUP interface, click the  button in the SETUP interface to turn to next page, and then click the **Wallpaper** icon to enter choice picture setup interface, click to select wall paper files, and then click  to save and return to the main interface.



Setting method:

1. In choice picture setup interface, select a file prestored in the system, click  to save and return to the main interface.
2. Click SCAN SD button, and set a picture saved in the SD card in the GPS CARD slot as WALLPAPER.

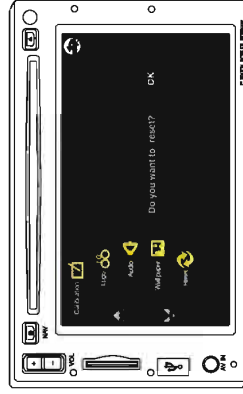
Note: Please select 800dpi*480dpi & 24-bit/channel & BMP/JPG format file as WALLPAPER.



Reset setup

Press the power switch  on the panel, click the **Setup** button in the main interface to enter the SETUP interface, click the  button in the SETUP interface to turn to next page, and then click the **Reset** icon to enter reset setup interface, type password "888888" in please enter password interface and click **OK** ; and also click **OK** in the interface "do you want to reset?";

Click **OK** again in the interface "reset value succeed!" to save and return to the main interface.



Channel List:

1. Press the **CH LIST** button to access the Master Channel List menu.



2. Scroll through the channels by pressing the  or  button. When the desired channel is highlighted, press the **ENTER** button and the channel will start playing.



Programming Preset Sirius Channel:

1. Tune in the desired Sirius channel then press the **PRESET** button to access the Preset Channel menu.



2. To program the channel, press and hold any one of the six channel recall buttons until you hear a beep. The preset number will now be displayed on the button and in the information display.



3. To program additional channels, tune them in using the **CH-** or **CH+** button. Press and hold any of the other five channel recall buttons until you hear a beep. The preset number will now be displayed on the button and in the information display.



Lower Channel Higher Channel

Sirius Satellite Radio Setup

Direct Tuning (continued):

- Press the numbers of the channel then press the ENTER button.
- For example: For Sirius Channel 121, press 1, 2 and 1 then press the ENTER button.
- Once the ENTER button is pressed the channel will start playing.



Category Tuning:

- Press the CATEGORY button.



- Use the up or down buttons to select the Category. The Category can also be selected by touching the desired category on the screen.

To select the Channel, use the up or down buttons. The channel can also be selected by touching the desired channel on the screen.

- Once the ENTER button is pressed, the channel will start playing.

Category Channels within Category



Radio function

Radio mode

Press the power switch on the panel, and click the **Radio** button in the main interface to enter radio interface. In the radio interface, press the **HOME** button to return to the main interface. Button

Introduction:

- FUNC.** Button: Click to show BAND, EQ, LOC, ST, AS/PS
- Band** button: Click to select FM1, FM2, FM3, AM1/AM2, or WB.
- EQ** Button: Enter EQ setup interface. Refer to system audio setup for specific function.

LOC Button: Click it first to activate LOC function and click it again to deactivate LOC.

ST button: Switch between mono channel and stereo.

AS/PS Button: Click to scan automatically and store channels.

- RDS** button: Click the RDS button to listen to RDS digital radio in FM band. TA, AF and PTY buttons are available only in RDS function.

TA button: Click it first to activate TA function and click it again to deactivate TA.

AF button: Click it first to activate AF function and click it again to deactivate AF.

PTY Button: Click to enter PTY function selection interface, click to select program bar, and click the button to save and return to radio interface.

WB button: Listen to the radio in Weather Band.

MUTE button: The mute button. Click it first to disable the audio output, and click any position in the interface to enable the audio output.

WALL PAPER button: Replace the wallpaper in the interface.

Note: The operation is same to the WALLPAPER setup in SETUP interface.

- Light** Button: Adjust image brightness. Daytime mode; night mode.
- Scan** Button: Press to scan radio channel. Press and hold for two seconds to trim the radio frequency.

Save Button: The six buttons can save six radio channels. Press the button to select a radio channel, and press and hold it to store the channel.

How to trim radio channels and store channels manually

Press and hold for two seconds, and then click to trim the frequency of selected channel, and the screen shows "MANUAL" if you didn't press the button in five seconds, it will switch to automatic scanning. Press and hold any button in the screen to save current radio on the screen to the button.

Press any button in the screen to play the channel.

Browsing, scanning automatically

In radio playing state,

Press the **AS/PS** button to browse the six radio channels, and the screen shows "SCAN"; click the button again to stop browsing. Press the **AS/PS** button to scan and store radio channels automatically, and the screen shows "AS/PS". Click the **AS/PS** button again to stop automatic scanning.

Band switch

Click the **Band** button to switch the radio band in the following sequence:
FM1 FM2 FM3 AM1 AM2 WB. Each band can save six channels.












Press the power switch  on the panel, and click the **WB** button in the main interface to enter radio interface.

In the radio interface, press the **HOME** button to return to the main interface.

Operation instructions:

-  Button: Press to scan radio channel. Press and hold for two seconds to trim the radio frequency.
-  button: The six buttons can save six radio channels. Press the button to select a radio channel, and press and hold it to store the channel.
- How to trim radio channels and store channels manually
Press and hold  for two seconds, and then  click to trim the frequency of selected channel, and the screen shows "MANUAL"
If you didn't press the  button in five seconds, it will switch to automatic scanning.
Press and hold any button in  to save current radio on the screen to the button.
Press any button in  to play the channel.

4. Browsing, scanning automatically

In radio playing state,

Press the **AS/PS** button to browse the six radio channels, and the screen shows "SCAN"; click the button again to stop browsing.

Press the **AS/PS** button to scan and store radio channels automatically, and the screen shows "AS/PS";

Click the **AS/PS** button again to stop automatic scanning.

5. Band switch

Click the **Band** button to switch the radio band in the following sequence: FM1 FM2 FM3 AM1 AM2 WB. Each band can save six channels.

Please note that satellite radio signal may be blocked by trees, buildings or other obstacles. Information display during reception:

ANTENNA ERROR: When an antenna issue exists.

ACQUIRING SIGNAL: When a channel is being tuned-in (no signal is yet received).

INVALID CHANNEL: A channel without a broadcast has been selected or the receiver may not be activated.
CALL 888-539-SIRIUS TO SUBSCRIBE: A channel not covered by your contract or the Sirius tuner is not activated. Call Sirius Service Center 1-888-539-7474 or visit them online at www.siriusradio.com.

Channel Selection Modes:

Channels are selected by the following methods:

Manual Tuning: Use the Manual Tuning method to scan thru the channels.

Direct Tuning: Use the Direct Tuning methods when you know the desired channel.

Category Tuning: Use the Category Tuning method when you know what category you want to scan for a channel.

For details, see the following operation descriptions:

Manual Tuning:

Press the **CH-** or **CH+** button until the desired channel appears in the display.



Direct Tuning:

- Press the  button.



- Press the  button.



Sirius Satellite Radio Setup

Note: The vehicle must be equipped with an optional Sirius tuner (SC-C1M) in order to receive a satellite signal. If the Sirius tuner is not activated, call 1-888-539-7474 to activate. The Sirius Tuner ID Number (SID) is required during the activation process. Follow the steps below to access the Sirius Tuner ID Number (SID):

Accessing Your Sirius Tuner ID Number (SID):



1. From the Source Selection Screen press the **Satellite** button.



2. Press the **MENU** button.



4. Press the **0 0 0** then press the **ENTER** button.



3. Press the **DIRECT CH** button.



5. The Sirius Identification Number (SID) is

located next to the "SONG TITLE" header.

DISC function

Inserting/removing disc:

Keep the printed surface upwards and insert into the slot; when the system detects the disc, it will suck it in, read and play automatically. If there is disc in the slot, you can press the button on the panel to eject the disc; if the disc isn't taken out in 15 seconds, the system will suck in automatically but won't start playing. In disc interface, press the **HOME** button to return to the main interface.



Playing DVD/VCD

1. When DVD/VCD is inserted, the system reads the disc automatically.
 2. If there is disc in the slot, you can click the **Disc** button in the main interface to read the disc.
- Note:** You can't watch video files while driving.

When the disc is being played in full screen, you can click the center of the screen to show the function menu.

Click the icon to show



Button function introduction:

button: Play/pause.

Press it once to pause, and press it again to resume playing.

You can also press on the remote control to realize this function.

Button: Stop.

Press it once to enter pre-stop state, and then press to resume playing.

Press it twice to stop playing completely, and then press to start playing from the start.

You can also press on the remote control to realize this function.

Button: Previous, next, fast rewind, fast forward

While playing DVD, press the button to enter and play previous chapter/track/scene or next chapter/track/scene; press and hold the button to rewind/forward fast.

You can also press on the remote control to realize this function.

button: The mute button

While playing DVD, you can press the MUTE button the disable the audio output, and click any position in the interface to resume the audio.

You can also press on the remote control to realize this function.

button: The EQ setup button

Press this button to enter EQ setup interface. Please refer to Audio setup in SETUP for details.

You can also press on the remote control to realize this function.

Button: To display the title, chapter, playing time and left time.

Press the button to show all the information of current disc.

You can also press on the remote control to realize this function.

Button: DVD setup button

Press the button to enter DVD SYSTEM SETUP/LANGUAGE SETUP/AUDIO SETUP VIDEO SETUP/SPEAKER SETUP/DIGITAL SETUP. After setting, press EXIT SETUP to save and exit.

You can also press on the remote control to realize this function.

DISC function



button: UP, DOWN, LEFT, RIGHT

While menu playing, you can press this button and **OK** to select desired chapter. You can also press **Setup** on the remote control to realize this function.

Button: Number buttons

Press this button to show the number keypad, and click the number keys directly to select desired track. You can also press 0-9 on the remote control to realize this function.

Button: Video setup button

Press this button to show the video setup interface, and then click **+** **-** to adjust the effect.



Button: Repeat playing button

While playing, press this button to repeat playing the following content: Repeat chapter Repeat title Repeat all Off. Note: While playing VCD, this function is available only when PBC is off.

You can also press **REC** on the remote control to realize this function.

Button: Return to root menu.

While playing, press this button to return the root menu of DVD, or PBC menu of VCD.

The interface shows all chapters in the disc. You can also press **or** to select all chapters, and then press **OK** to play.

You can also press **Home** on the remote control to realize this function.

Button: Audio (dialogue)

DVD audio playing supports various dialogue languages and audio systems.

If the DVD is recorded with various audio, you can switch the dialogue language and audio system while playing.

While playing, press the **Audio** button repeatedly to switch the dialogue language.

You can also press **Audio** on the remote control to realize this function.

Note: This function is available only for DVD recorded with various audio.

The number "2" in the symbol on the DVD cover indicates the quantity of dialogue languages and audio systems.

While playing VCD, press the **Audio** button repeatedly to switch the audio channel: Left Right Mix Stereo

Button: Title menu button

Press this button to return to the title menu of the disc. You can also press **or** to select all chapters, and then press **OK** to play.

You can also press **Title** on the remote control to realize this function.

Button: Subtitle language switch button

While playing DVD recorded with various subtitle languages, press this button to switch the subtitle language.

Every time you press the button, the available language switches in sequence.

Note: The information varies according to the discs.

You can also press **Subtitle** on the remote control to realize this function.

Button: DVD video angle button

While playing DVD recorded with various angles, press this button to switch the playing angle. When the angle number appears on the screen, you can press this button repeatedly to switch the playing angle.

Note: The angle varies according to discs. When playing sections recorded with several angles, the angle switches to specified angle automatically.

You can also press **Angle** on the remote control to realize this function.

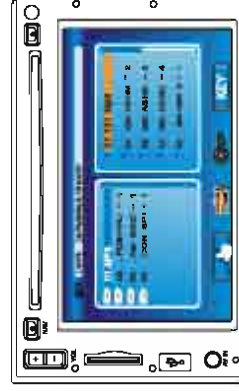
Button: Image zooming in/out button

Press this button to zoom in/out the images. Available multiples are 2, 3, 4, 1/2, 1/3 and 1/4.

Note: When the image is zoomed in, you can press the **Zoom In** button to move the image.

You can also press **Zoom Out** on the remote control to realize this function.

AV-IN1/AV-IN2 function



AV input port

This player has two groups of audio/video input function, which are AV IN port in front panel, AUDIO-L INPUT, AUDIO-R INPUT and VIDEO INPUT in the rear.

For external audio and video conversion, please connect the audio/video output cable of the audio/video source device (e.g. MP3 player or portable CD/DVD/VCD) to the AV in port, and click **AV IN** or **VIDEO** in the main interface to switch to input mode.

Button Introduction:

MUTE button: Press it to disable the audio output, and press any position in the interface to resume the audio.

EQ setup button: Press it to enter EQ setup interface. Please refer to Audio setup in SETUP for specific operation.

HOME Button: Press it to return to the main interface.

Bluetooth function

Entering Bluetooth mode

Press **BT** in the main interface to enter the Bluetooth interface.

Pairing Bluetooth devices

Before using vehicle Bluetooth phone, you need to pair the Bluetooth mobile phone and this player. Follow the steps below for the first pairing: To set mobile phone connection:

1. Click the **BT** icon in the Bluetooth interface of this player.
2. Open the mobile phone setup menu;
3. Open the Bluetooth setup of the mobile phone to activate Bluetooth;
4. Scan available device, select and connect to the device (within 10m);
5. Type the password of the player (password: 0000).



Note:

1. If the mobile phone has ever been paired with the player, the system connects to the Bluetooth mobile phone automatically when you activate the vehicle Bluetooth phone; (mobile phone Bluetooth should be activated first)
2. If your Bluetooth mobile phone is already in the list, you can select your phone directly and click "Connect" to connect to Bluetooth;
3. The Bluetooth of certain mobile phones should be restarted after replacing the battery.

Disconnecting Bluetooth device

In the Bluetooth interface, click [Device selection] to enter the Bluetooth device list in the list, select a phone name and click [Clear] to disconnect.

Making/answering calls

Please make sure the mobile phone has been connected to the player successfully before making and answering calls. To make a call, type the phone number with the number keys in the Bluetooth interface, and click the  icon to call the number. After calling, click the  icon to end the call.

Bluetooth phone book

In the Bluetooth interface, click the  icon to enter phone book interface. When the mobile phone is connected to this player successfully, click the  button in phone book to read the phone numbers in your mobile phone. You can click  to delete the contact, or click  to make a call.





Volume

Press the **VOL** button on the panel to adjust the Bluetooth volume.







Bluetooth music

In the Bluetooth interface, click the  icon to enter Bluetooth music interface. When the mobile phone is connected to this player successfully, you can play the music in the mobile phone through Bluetooth music function.

Button introduction:

-  Previous /  Next: Press to select previous/next track.
-  Play/pause: Press it once to pause, and press it again to resume playing.
-  Mute: Press it to disable the audio output, and press any position in the interface to resume the audio.

Call log


In the Bluetooth interface, click the  icon to enter call log interface, and view answered calls , missed calls  and dialed numbers . You can click  to delete the call log, or click  to call selected number.

DISC function



Playing CD

Inserting/removing disc:

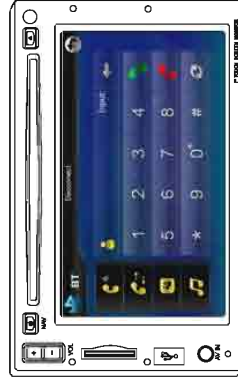
Keep the printed surface upwards and insert into the slot; when the system detects the disc, it will suck it in, read and play automatically. If there is disc in the slot, you can press the  button on the panel to eject the disc; if the disc isn't taken out in 15 seconds, the system will suck in automatically but won't start playing. In disc interface, press the **HOME** button to return to the main interface.


Playing CD

1. When CD is inserted, the system reads the disc automatically.
2. If there is disc in the slot, you can click the **Disc** button in the main interface to read the disc.
3. When the disc is read out, the system starts playing in sequence automatically.

When the disc is being played in full screen, you can click the center of the screen to show the function menu.

While playing, you can control the playing through the touch menu. Please refer to the keys introduction of DVD/VCD playing for the function of touch menus.




 Dialed calls

 Answered calls


 Bluetooth phone book

 Bluetooth music

 Back

 Resume

 Return

 Number keys



DISC function

Playing MP3/MP4/JPEG


Inserting/removing disc:

Keep the printed surface upwards and insert into the slot; when the system detects the disc, it will suck it in, read and play automatically. If there is disc in the slot, you can press the  button on the panel to eject the disc; if the disc isn't taken out in 15 seconds, the system will suck in automatically but won't start playing. In disc interface, press the **HOME** button to return to the main interface.

Playing CD

1. When DVD/CD is inserted, the system reads the disc automatically.
2. If there is disc in the slot, you can click the **Disc** button in the main interface to read the disc.
3. When the disc is read out, the system starts playing in sequence automatically.

Playing MP3 disc:

If the disc contains MP3 files, you can press the  icon to play MP3 files, as shown in the right:

- * You can touch the track name directly to select the track.

- * Touch the **KEY** button in the lower right to show the keys as in the right picture.


Note: While playing, you can control the playing through the touch menu. Please refer to the keys introduction of DVD/VCD playing for the function of touch menus.

Playing MPEG4 disc:

If the disc contains MPEG4 files, you can press the  icon to play MPEG4 files. Touch the **KEY** button in the lower right to show the keys as in the right picture.

While playing, you can control the playing through the touch menu. Please refer to the keys introduction of DVD/VCD playing for the function of touch menus.

Playing JPEG disc:

If the disc contains JPEG files, you can press the  icon to play JPEG files. Touch the **KEY** button in the lower right to show the keys as in the right picture.

To play pictures:

Play pictures in sequence automatically Press to play pictures in sequence automatically You can also realize this function through the remote control.

Stop playing Press to stop playing pictures.

You can also realize this function through the remote control.

Previous/next: Press to play previous or next picture.

You can also realize this function through the remote control.

Rotate/turn pictures - You can also realize this function through the remote control.

Zooming in/out pictures

Press to zoom in/out pictures. Available multiples are 3, 4, 1/2, 1/3 and 1/4. When the image is zoomed in, you can press the   button to move the image. You can also realize this function through the remote control.

MPEG is the abbreviation of "Moving Pictures Experts Group".

MPEG4 is the fourth generation video/audio encoding standard released by this experts group.

The MPEG4 discs on market are recorded in different formats. It is normal that certain discs can't be played in this player due to format reason.

SD/USB function



Inserting/removing USB disk

Connect the USB disk with media information to the player through USB cable or insert it into the USB interface directly.

Note:

Since the standard of USB disk with MP3 player varies according to manufacturer, certain USB disks may not be played normally. In this case, please contact the manufacturer of USB disk.

The cable should be as short as possible when connecting through USB cable, or else the normal working of USB disk may be affected.

Inserting/removing SD/MS card

Insert the SD/MS card with media information into the SD slot of the player properly until the card is locked.

Playing USB disk and SD/MS card

While playing USB disk and SD/MS card, you can control the playing through the touch menu. Please refer to the MP3/MPEG4/JPEG playing section of disc playing for the touch operation.

FCC ID: ZGM-M4-LCD

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.

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

NOTE: 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.