

MULTIMEDIA NAVIGATION RECEIVER

USER MANUAL

M-DVD4000



MACROM

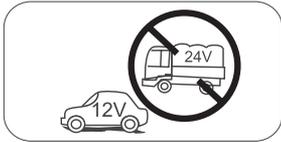
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Safety Precautions

Thank you for purchasing this product. Please read through these operating instructions so you will know how to operate your model properly. After you've finished reading the instructions, keep this manual in a safe place for future reference.

Only connect the unit to a 12-volt power supply with negative grounding.



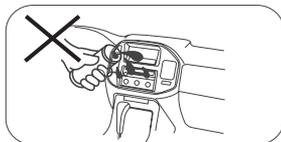
Never install this unit where the operation & condition for safe driving is impaired.



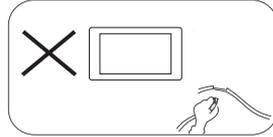
Never use the video display function in the front when driving to prevent the violation of laws & regulations and also to reduce the risk of traffic accident except for using rear view video camera.



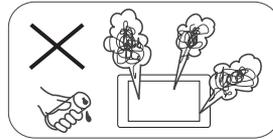
Never expose this unit, amplifier, and speakers to moisture or water to prevent electric sparks or fire.



Please don't change the fuse on the power cord without professional guidance, using improper fuse may cause damage to this unit or even cause fire.



Please contact your nearest dealer if one of the following symptoms is experienced:



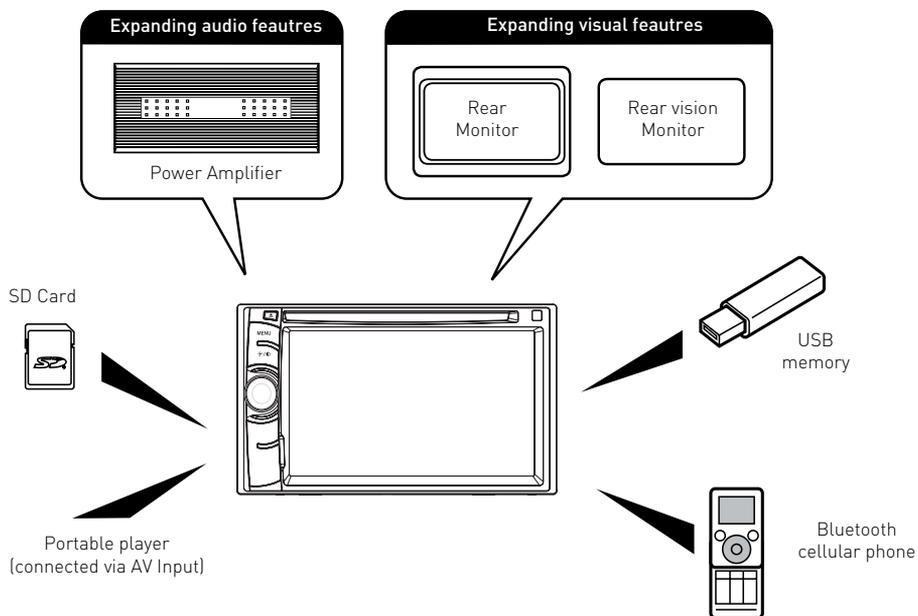
- (a). Water or other objects enters the unit.
- (b). There is smoke.
- (c). Peculiar smell.

To ensure safe driving, please adjust the volume to a safe and comfortable level in case of emergency situations.

Safety Precautions

1. Never disassemble or adjust the unit without any professional guidance.
For details, please consult any professional car shop / dealer for inquiry.
2. If the front panel or TFT monitor is dirty, please use a clean silicone cloth and neutral detergent to wipe off the spot. Using a rough cloth and non-neutral detergent such as alcohol for cleaning may result in scratching or decoloration to the monitor.
3. If any abnormal behavior of the unit is found, please refer to trouble shooting guide of this manual. If no relevant information is found, please press the [RESET] key on the front panel to resume factory default.
4. If you have parked the car in hot or cold weather for a long time, please wait until the temperature in the car becomes normal before operating the unit.
5. Using the car heater in low temperature environment may result in moisture inside the unit, DO NOT use the unit in this situation. Eject the disc and wipe off the moisture on the disc. If the unit still doesn't work after a few hours, please contact the service center.
6. Do not impact the LCD monitor which could cause damage.
7. To prevent damage to the screen, avoid touching it with sharp objects.
8. To provide a clear demonstration and an alternative for easy understanding to the operation of this unit, graphic illustrations are used.
However, some illustrations are different from the actual images displayed on the screen.
9. Operate the unit correctly according to this manual to prevent unnecessary problem. The guarantee won't be valid if the problem is caused by inappropriate operation.

Expanding System

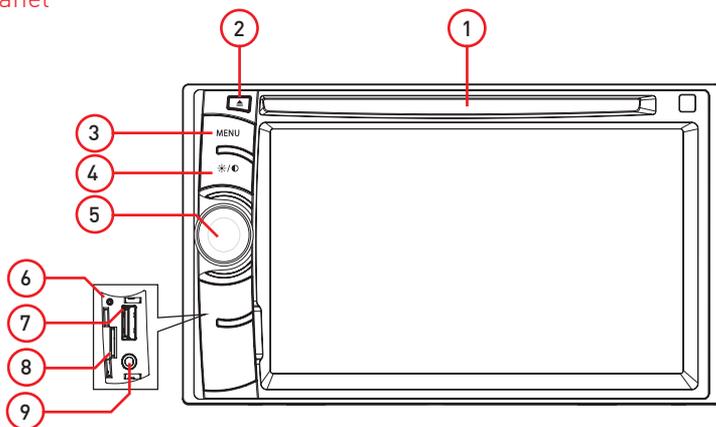


Note:

The items listed outside of the frame are the commercial products generally sold.

Product overview

Front Panel

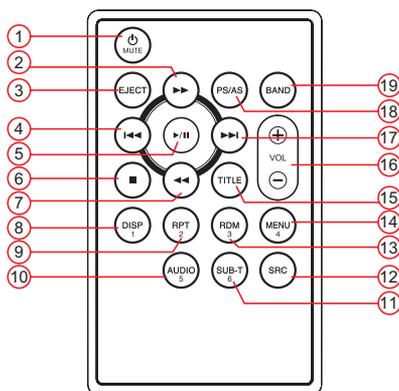


Notice:
The graphic in this manual is for reference only, and may be different from the actual unit.

1. Disc slot
2. [▲] Button
Press to eject a disc.
3. [MENU] Button
Press to display the main menu
4. [*/●] Button
Adjust the brightness of screen.
5. Rotary/pushbutton
Rotate to adjust volume.
Press briefly to activate the MUTE function.
Press again to resume normal sound.
Press and hold to turn the unit OFF.
6. Reset Hole
7. USB Socket
8. SD card reader for media.
9. Auxiliary Audio/Video input

Remote control

1. Power & Mute On/Off
2. Fast forward / Station up
3. Eject the disc
4. Previous / Seek down
5. Play / Pause
6. Stop
7. Fast backward / Station down
8. Preset station (1)
9. Repeat play / Preset station (2)
10. DVD/VCD audio stream change / Preset station (5)
11. DVD subtitle/ Preset station (6)
12. Show main menu.
13. CD/MP3 Random play / Preset station (3)
14. DVD/VCD root menu/ Preset station (4)
15. DVD title.
16. Adjust volume level.
17. Next / Seek up
18. Scan play / Preset scan
Auto memory store (long press)
19. Select tuner band.



Basic Operations

Detect parking brake

- Connect the cable "BRAKE" to the parking brake switch to view video files on the TFT monitor. Engage the parking brake for viewing videos.
- When the parking brake is not engaged, the monitor displays "Warning!!!, Video playback is disabled for your safety. Engage parking brake to watch video.", preventing the driver to watch content while driving. The rear screens are not interested in this inhibition.

Mute

Press [VOL/Ⓛ/Ⓜ] knob to mute the volume from the unit. Press again to restore the volume. [Ⓜ] is displayed on the LCD. Adjusting the volume or using any of the audio setup features cancels the mute function.

Power On / Off

Press the [VOL/Ⓛ/Ⓜ] knob on the unit to turn the unit on. The buttons on the front of the unit light up for a moment and the current mode status appears in the LCD. Press and hold the [VOL/Ⓛ/Ⓜ] knob to power off the unit.

Audible Beep Confirmation

An audible beep tone confirms each function selection. The Beep tone can be disabled through the Setup menu.

Playing Source Selection

Press the [MENU] button on the front panel or [SRC] on the remote control to display the playing source menu.

1. < or >: Touch to view the previous or next page of playing sources.
2. Playing source icon: touch to access corresponding work mode.
3. Time status.
4. Bluetooth status.
5. Date.



Basic Operations

EQ Menu

The Audio Control feature allows you to easily adjust your audio system to meet the acoustical characteristics of your vehicle, which vary depending on the type of vehicle and its measurements. Proper setting of the Fader and Balance boosts the effects of the cabin equalizer.

Select Preset Equalizer

1. Enter the EQ setup mode
Touch the  icon in the user interface and the EQ setup interface will display on the screen.
2. Select EQ mode
Touch the desired EQ selection: [Optional] / [Classic] / [Rock] / [Jazz] / [Techno] / [Pop], and the EQ mode will change.



Adjust EQ Parameters

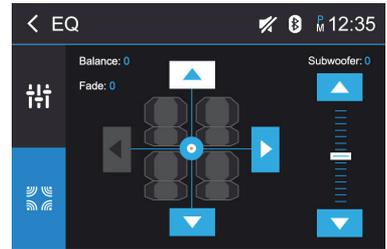
To adjust EQ parameters, touch and drag the parameters adjustment bar.

- [User]: Set the desired audio effect.
- [Flat]: Select the original audio effect.
- [Loud: On/Off]: When listening to music at low volumes, this feature will selectively boost certain bass and treble frequencies.

Adjust FAD BAL

You can adjust front/back/left/right balance of the speaker and the subwoofer volume to get balanced listening effect according to the surroundings and your interest.

1. Enter the EQ setup mode
Touch the  icon in the user interface and the EQ setup interface will display on the screen.
2. Adjust subwoofer volume
Touch  /  or drag  to adjust subwoofer volume from -8 to +8.
3. Adjust fader / balance value
Touch  /  /  /  to adjust fader / balance value from -14 to +14.
 - : Front speaker
 - : Rear speaker
 - : Left speaker
 - : Right speaker



Notes:

1. The parameters of the EQ modes has been preset and you can not change them besides 'User'.
2. The EQ mode will change to 'User' automatically when you adjust the frequency value under the modes besides 'User'.
3. The value of Sub is independent of EQ mode and can be adjusted separately.

Radio Mode

Tuner TFT Display

1. Current radio band indicator.
2. Return to home menu.
3. Current station frequency.
4. Preset stations list.
5. Shortcut.
6. Band switch.
7. Seek backward
8. Tune backward(long press)
9. Enter frequency directly.
10. Seek forward
11. Tune forward(long press)
12. Opening the options menu.
13. Auto searching.
14. Enter EQ menu.
15. To turn On or Off "Clock Time"
16. Choose local or distant seeking mode.
17. To turn On or Off "TA" function.
18. To show PTY list.
19. To turn On or Off "AF" function.
20. Closing the options menu.



Select Radio as Playing Source

Open the Source Menu and then touch [Radio].

Select One Radio Band

Touch the [📶] icon on the user interface to select one radio band among FM1, FM2, FM3, AM1 and AM2.

Tune the radio

Auto Tunig

During auto tuning, the frequency will be changed in seek mode.

Touch the [⏮] / [⏭] icon on the user interface to tune in a higher / lower station.

Note: When a station is received, searching stops and the station is played.

Manual Tuning

Method 1:

Touch and hold [⏮] / [⏭] icon on the user interface more than 1 second to changed in steps higher / lower station. Repeat the operation to change step by step.

Method 2:

1. Touch the numeric keypad icon [🔢].
Numeric keyboard is displayed, touch number to input frequency.
2. Touch [⏪] to delete the input number step by step.
3. Touch [OK] to enter.

Radio Mode

Preset Station

The unit has 5 bands, such as FM1, FM2, FM3, AM1, AM2, and each band can store 6 stations; the unit can store 30 stations in total.

Search Stations Automatically

Touch [] to search station and store 6 strongest stations in current band automatically.

Manual Store

1. Tune to a station.
2. Touch one of the channels P1 to P6 to save the select band.

Recalling a Station

1. Select a band.
2. Touch an on-screen preset button (P1 to P6) to select the corresponding stored station.

Local Seeking

Touch the [] icon and choose the Radio Local or Distance.

When the [] icon turns bright, only stations with a strong signal strength will be detected. Default is "Distance".

EQ Selection

Press the [] icon and enter the EQ setup.

RDS (Radio Data System)

The unit provides basic functions of RDS.

RDS service availability varies with areas. Please verify if RDS service is available in your area.

AF Function

Alternative Frequencies Lists are used in conjunction with the PI code (Program Identification code) to assist automatic tuning.

Using this information, the radio can automatically search out another frequency of the same station.

Note:

- During auto switching radio frequency, some interference may be heard..
- Turning off AF function can settle this problem.

TA Function

The TA (Traffic Announcement) function lets the unit receive traffic announcements automatically.

The TA function can be activated by a TP (Traffic Program) station broadcasting traffic information.

When TA is activated and a traffic announcement is received, the current playing source will be overridden by the traffic announcement. The unit returns to the original source after the traffic announcement has been received.

CT (Clock Time)

Some stations broadcast the time and date within the encoded RDS signal. The clock time is automatically adjusted when 'CT' is set to 'ON'.

PTY Function

PTY is an abbreviation for the type of program defined by a code to define the program being broadcast (eg news or Rock).

The Options of PTY is displayed on the screen. To see the options PTY, tap the scroll bar and arrows on the screen.

When an option is selected PTY (eg News), the radio unit, the PTY search available. If the PTY requested was not found, the unit returns to the original radio frequency.

Playback Mode

Load a Disc

You can play video, audio or images stored on the following discs:

- DVD Video, DVD-R, DVD-RW
- VCD
- Audio CD, CD-R, CD-RW

Note: Ensure that the disc contains playable content.

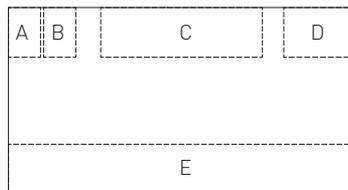
Eject a Disc

Press the [▲] key on the front panel to eject the disc. When the disc is ejected, the unit switches to the previous source.

Touch Screen Controls

The touch key areas for DVD playback are outlined below:

- A: Return to the main menu
- B: Disc type
- C: Play the video and display playback information
- D: Time display
- E: Display onscreen control menu



Controlling Playback

To access the on-screen controls, touch the screen except upper left corner, and touch again to cancel display. Touch [●●●●] to view all function icons.

Connect a USB/SD card Device

1. Open the USB/SD door.
2. Connect an USB/SD device into slot.
Play starts automatically.

Remove a USB/SD Device

1. Select other source on the main menu.
2. Remove the USB/SD device.

Play/Pause

1. Once a disc, USB or SD card is inserted, play starts automatically.
For DVD movie, if a menu appears, press [▶] to start play.
2. To pause, touch [⏸].
To resume play, touch [▶].
3. Skip to previous / next track / chapter, press [⏮] / [⏭] key.

Previous/Next

Touch [⏮] / [⏭] key on the screen to skip to previous / next track / chapter.

Playback Mode

DVD movie playback

The car sound system can play video DVDs and VCDs. After inserting the DVD, the playback starts automatically. The DVD menu is displayed. You can navigate in the DVD menu by touching the corresponding buttons in the DVD menu on the screen. After starting the movie via the menu of the DVD, the movie is displayed. The playback menu for DVDs is hidden.

NOTE:

Briefly touch the screen once to display the playback menu again. The playback menu is shown.

1. Shortcut.
2. Stop playback, call up home menu.
3. Select previous chapter.
4. Pause playback and continue playback.
5. Select next chapter.



Tap on [••••] to display additional operating options of the playback menu.

6. Select playback language (only if supported by the DVD).
7. Display equalizer.
8. Return to menu.
9. Start and end REPEAT function.
Repeat mode:
Repeat Chapter → Repeat Title → Repeat All → Repeat Off
10. Return to title.
11. Adjust the brightness, contrast, and saturation.
12. Call up keypad for direct selection of titles or chapters.
13. Select playback audio channel (only if supported by the DVD).



Audio playback from DVD/CD, USB or SD

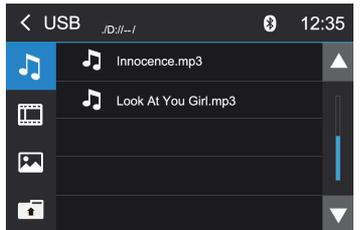
The principles of audio playback (MP3/WMA) from data carriers are identical for all sources. Select the desired source via the main menu. The device changes to the desired source and the playback starts.

If the playback does not start with the audio playback, touch the [≡] icon to change to the folder/file list.

Touch the [📁] icon to display all the folders and files of the data carrier.

- Or -

Press the [🎵] icon to display all the audio files of the data carrier.



Playback Mode

Audio playback from DVD/CD, USB or SD

After starting a title, the playback menu is displayed.

1. Shortcut.
2. Display the folder/file list.
3. Short press: Previous track.
Long press: Fast backward.
4. Pause playback and continue playback.
5. Short press: Next track.
Long press: Fast forward.



Tap on [••••] to display additional operating options of the playback menu.

6. Display equalizer.
7. Start and end REPEAT function.
Repeat mode:
Repeat One Repeat Folder Repeat All Repeat Off
8. Shuffle playback.
9. Display keypad to directly enter the number of the desired title.



Video playback from DVD/CD, USB or SD

Select the desired source via the main menu.

The device changes to the desired source and the playback starts.

If the playback does not start with the video playback, touch the [≡] icon to change to the folder/file list.

Touch the [📁] icon to display all the folders and files of the data carrier.

- Or -

Touch the [📺] icon to display all the audio files of the data carrier.

If you selected a movie, the playback is started. During the movie playback, the playback menu is hidden.

Briefly touch the screen once to display the playback menu again.

The playback menu is shown.

1. Shortcut.
2. Display the folder/file list.
3. Short press: Previous movie.
Long press: Fast backward.
4. Pause playback and continue playback.
5. Short press: Next movie.
Long press: Fast forward.



Playback Mode

Video playback from DVD/CD, USB or SD

Tap on [••••] to display additional operating options of the playback menu.

6. Select playback language.
7. Display equalizer.
8. Start and end REPEAT function.
Repeat mode:
Repeat One → Repeat Folder → Repeat All → Repeat Off
9. Adjust the brightness, contrast, and saturation.
10. Display keypad to directly enter the number of the desired title.
11. Select playback audio channel.

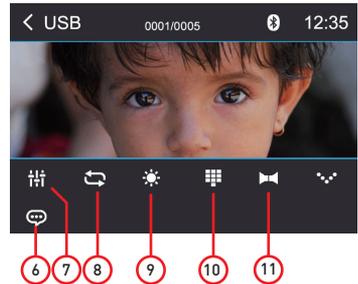


Image playback from DVD/CD, USB or SD

Select the desired source via the main menu.

The device changes to the desired source and the playback starts.

If the playback does not start with the image playback, touch the [≡] icon to change to the folder/file list.

Touch the [📁] icon to display all the folders and files of the data carrier.

- Or -

Touch the [🖼️] icon to display all the images of the data carrier.

If you selected a image, the playback is started. During the playback, the playback menu is hidden.

Briefly touch the screen once to display the playback menu again.

The playback menu is shown.

1. Shortcut.
2. Display the folder/file list.
3. Previous image.
4. Pause playback and continue playback.
5. Next image.



Tap on [••••] to display additional operating options of the playback menu.

6. Zoom in/out.
7. Rotate images .
8. Adjust the brightness, contrast, and saturation.
9. Display keypad to directly enter the number of the desired title.



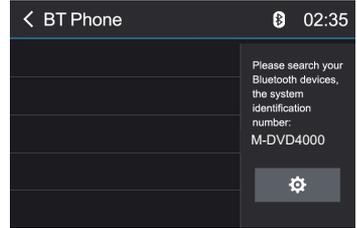
Bluetooth Mode

You can make or receive phone calls with Bluetooth-enabled phones through the unit. You can also listen to music from a Bluetooth-enabled device.

Pair the Bluetooth-enabled Devices

To connect your Bluetooth device to the unit, you need to pair the device to the unit. Pairing needs only to be done once. You can pair up to five devices.

1. Turn on the Bluetooth function on the device.
2. Touch [🔍] to search for Bluetooth device with the unit.
3. Start scanning on the Bluetooth device and select the unit "M-DVD4000"
4. Enter default password "0000".

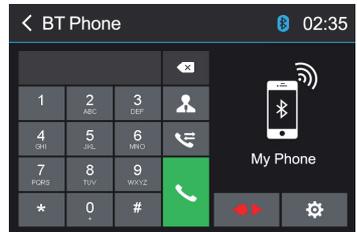


Tip:

- The operational range between this unit and a Bluetooth device is approximately 5 meters .
- Before you connect a Bluetooth device to this unit, familiarize yourself with the Bluetooth capabilities of the device.
- Compatibility with all Bluetooth device is not guaranteed.
- Any obstacle between this unit and a Bluetooth device can reduce the operational range.
- Keep this unit away from any other electronic device that may cause interference.

Disconnect Bluetooth Device

To disconnect one device, touch [🔌]. After pressed, the unit will display a screen listing paired devices. Pressing the Green "Plug" icon will reconnect a previously paired phone to the BT radio. Pressing the "Wastebin" icon next to a device's name will unpair the phone from the unit.

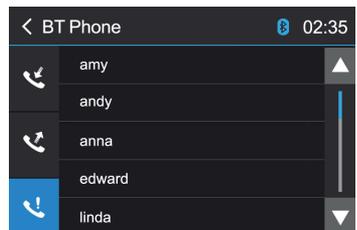


NOTES

- The device will be disconnected when the device is moved beyond the operational range.
- If you want to reconnect the device to the unit, place it within the operational range.
- If you do not want to reconnect the device to the unit automatically, touch [⚙️], then set [Auto Connect] to [OFF].

Make a Call

1. Select Bluetooth function in the home menu.
2. On Option page, see the "Phone Synch" item, and press "Synch" to synchronize the phone book with the BT. If you have many contacts, this may take up to 3-4 minutes.
3. Search for phone number from the following list:
 - [Phone Book]
 - [Call History]
 - [Missed calls]
 - [Received calls]
 - [Dialed calls]

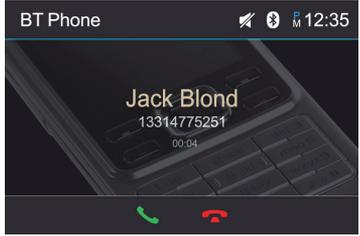


Bluetooth Mode

Receive a Call

By default, all incoming calls are received automatically.

1. If there is an incoming call, the screen will display incoming call number.
2. Touch the screen to select [] or [].
Speak into the Bluetooth microphone.



NOTE:

- You can select to receive calls manually by setting [Auto Answer] to [OFF]

Adjust Bluetooth Settings

In the options menu for Bluetooth, you can make the basic settings for the Bluetooth mode.

Touch the [] icon.

The options menu is displayed.

Bluetooth:

To turn the "Bluetooth" function ON or OFF.

Auto Connect:

To turn the "Auto Connect" function ON or OFF.

Auto Answer:

To turn the "Auto Answer" function ON or OFF.

Pin Code:

To set the pairing code.

Phone Synch:

To synchronize phone book, touch [OK] on the sub-menu

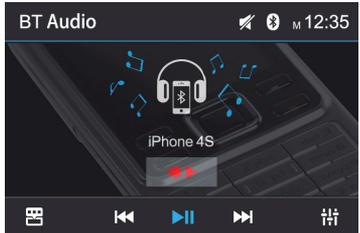
Phonebook Synch may take several minutes to load on initial setup.



Bluetooth Music Function

Bluetooth provides an Advanced Audio Distribution Profile (A2DP) profile for streaming music from a mobile phone, sometimes referred to as a MP3 player. The unit allows you to play back audio files from your mobile phone using a Bluetooth connection.

1. Shortcut.
2. Previous track.
3. Pause playback and continue playback.
4. Disconnect connection with current device.
5. Next track.
6. Display equalizer.



NOTE:

When playing music via Bluetooth, if you want to make a call, you can press the number buttons on your phone. From that moment on, the music player stops. The TFT screen will display "Connection" during the call, audio will be transferred to the unit. At the end of the call, the screen will display the music playback menu.

If there is an incoming call, the music player stops, and the screen will show "Incoming Call". At the end of the call, the screen will display the music playback menu.

Settings

General Settings

1. Touch [], if necessary.
2. Touch to highlight a setting to display/select an option.

General Settings	Options	Description
Radio Region	USA/Asia/Japan/Europe/Europe LW/Oirt	Select one that matches your location.
Radio Range	Distance	Select Local to receive only stations with extremely strong signal.
	Local	
Beep	On	Turn-ON the beep sound. Each time you press a button, the unit beeps.
	Off	Turn-OFF the beep sound.
Calibration	Start	Calibrate the touch screen.
Shortcut	Set the shortcut.	
SWC	Enter to SWC interface	
Load Factory	Restore to default settings.	
UI Color	Change the color of the UI.	

Audio Settings

1. Touch [].
2. Touch an option repeatedly to select.

Audio Settings	Options	Description
Subwoofer	On	Turn On the subwoofer.
	Off	Turn Off the subwoofer
Subwoofer Filter	80Hz	Select a crossover frequency to set a cut-off frequency for the subwoofer's LPF (low-pass filter).
	120Hz	
	160Hz	
Loudness	On	Turn On the loudness
	Off	Turn Off the loudness
L o u d n e s s Center	400Hz	Select loudness center frequency.
	800Hz	
	2.4KHz	

Time Settings

1. Touch [].
2. Touch an option repeatedly to select.

Time Settings	Options	Description
Date	Y/M/D	Touch [] or [] to set year, month and day.
Clock Format		Touch [24Hr] or [12Hr] to switch clock mode.
Time	H/M	Touch [] or [] to set hour and minutes.

Note:

When date/time is set, touch [**Save**] to confirm or [**Cancel**] to exit.

Settings

Language Settings

1. Touch [].
2. Touch an option repeatedly to select.

Language Settings	Description
OSD Language	Select on-screen display language.
DVD Audio	Select DVD audio language. Options available depending on DVD disc.
DVD Subtitle	Select DVD subtitle language. Options available depending on DVD disc.
DVD Menu	Select DVD menu language. Options available depending on DVD disc.

Video Settings

1. Touch [].
2. Touch an option repeatedly to select.

Video Settings	Options	Description
Aspect Ratio	Full	Adjust aspect ratio.
	Normal	
Parking	On	Disable video when driving.
	Off	Enable video when driving.
Password	Set password to restrict the play of discs. The default password is 0000.	
Rating	1 Kid Safe	Acceptable for children.
	2 G	Acceptable for general viewers.
	3 PG	Parental guidance suggested.
	4 PG13	Unsuitable for children under age 13.
	5 PG-R	Recommend parents to restrict viewing for children under 17.
	6 R	Restricted re-parental guidance is advised for children under the age of 17.
	7 NC-17	Unsuitable for children under age 17.
	8 Adult	Acceptable for adults only.
Adjust	Enter	Touch [+] or [-] to adjust brightness, contrast and saturation.
Version Info	Enter	Display the current version information

Adjust Volume Settings

You can set different volumes for different sources.

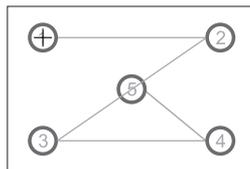
1. Touch the [] icon to display and access the volume setting sub-menu
2. Touch the source to be adjusted.
3. The volume range is from "00" to "06"
When switching to the source, the volume increases automatically.
4. Touch blank area to close the sub-menu and touch the upper left corner icon [<] to exit setting menu.

Settings

Calibration

When the touch operation is not sensitive or valid, you should calibrate the touch screen using the calibration setting function. Adjust the response positions of the touch panel as follows:

1. Touch [**Start**] to enter.
2. Touch [**Cancel**] to exit.
3. Press and hold the center of [+] for 2 seconds, the [+] will move automatically.
4. Aim at center of [+], follow the path as shown in the figure. Once steps 1-5 are complete, touch [**OK**] to exit calibrating mode.



SWC Programming

The following controls are available for most vehicles:

1	2	3	4	5	6
Volume +	Volume -	Mute	Next	Prev	Play
7	8	9	10	11	12
Home	Preset +	Preset -	Band	Source	Answer

Touch [**Enter**], the SWC menu will display.

Up to 12 steering wheel control functions can be programmed via the built-in SWC interface. Not all functions may be supported for each vehicle.

1. Before programming, you need to clear / reset the SWC interface by pressing the [Reset] icon.
2. Define the functions of the steering wheel controls by pressing a number 1 ~ 12, then press a function between the available ones. A check mark corresponding to the number and function will be displayed. Repeat the confusion until completing all the steering wheel control functions.

Note:

Functions 1 ~ 12 must be assigned to a function on the OE steering wheel. For example, if the OE steering wheel does not support Preset + and Preset -, then these functions must be cleared / reset in order for the other functions to work correctly.



3. To "learn" the programming completed in step 2 above, touch the [**Program**] icon. You will then be prompted to push each button on the OE steering wheel (for 1 second), so the unit can learn the corresponding function.
4. SWC learning / programming is now complete.
5. Touch [<] to exit.

Other Modes

Auxiliary inputs

Aux 1

Aux 1 is used for playback of audio/video from an external device connected to the unit through a 3.5mm jack located on the front panel.

Aux 2

Aux 2 is used for playback of audio/video from an external device connected through RCA connectors located on the back of the unit.

You can connect an external audio/video device to the unit.

1. Connect the external device with the supplied AV cable.
2. Touch the upper left corner to display the main menu.
3. Touch [Aux 1] / [Aux 2] to access external device.

NOTES:

1. Audio/Video device must be connected to the unit using an audio/video adapter cable that is available separately.
2. Video will only play when the vehicle parking brake is engaged. The parking brake must be connected for this feature to operate.

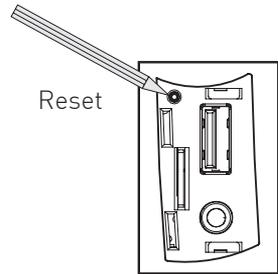
Reset

When the unit hangs up, you can reset it.

Press [RESET] with a ball-point pen or similar tool.

Tip:

When the unit has been reset, all the settings will return to default settings.



Replace a Fuse

If there is no power, the fuse may be damaged and need to be replaced.

1. Take out the unit from dashpboard.
2. Check all electrical connections.
3. Buy a fuse that matches the amperage of the damaged fuse.
4. Replace the fuse while the units power is disconnected.

Specifications

General

Reference Supply Voltage	12V(DC)
Operating Voltage Range	10.5 - 15.8V(DC)
Max Operating Current.....	15A
Grounding System	Car Battery Negative Pole
Dimensions(WXHXD)	178.5X101.5X166mm
Weight(main unit)	1.8kg

FM

Signal Noise Ratio	≥55dB
Residual Noise Sensitivity (S/N=30dB)	18dB μ V
Frequency Response (\pm 3dB)	20Hz~12.5KHz
Station Seeking Level	20~28dB μ V
Distortion	≤1.0%
Stereo Separation (1KHz)	≥25dB
Antenna Impedance.....	75 Ω

AM

Residual Noise Sensitivity (S/N=20dB)	35dB μ V
Selectivity (\pm 9KHz)	≥50dB

LCD

Screen size.....	6.2 inches(16:9)
Display resolution.....	800X480dots

DVD Player

Signal / Noise Ratio	75dB
Dynamic Range.....	80dB

Power output

Distortion (line out).....	≤0.1%
Frequency Response (\pm 3dB)	20Hz~20KHz
Maximum Output Power	4×50W
Load Impedance	4 Ω

AUX IN

Distortion	≤0.5%
Frequency Response (\pm 3dB)	20Hz~20KHz
Audio Input Level	0.5Vrms

Audio

Audio Output Impedance	100 Ω
Audio Output Level	3Vrms(Max)

Video

Normal Video Input Level (CVBS)	1.0 \pm 0.2V
Video Input Impedance	75 Ω
Video Output Impedance	75 Ω
Video Output Level.....	1.0 \pm 0.2V

Environment

Operating Temperature.....	-20°C ~ +60°C
Storing Temperature.....	-30°C ~ +80°C
Operating Humidity.....	45%~80%RH
Storing Humidity.....	60%~90%RH

Notice:

When the unit is operated to extremes, such as with maximum power output for a long time, or the temperature is over 70°C, it will enter heat protection mode, the volume will be reduced automatically. This is normal.

Specifications

Supported Formats:

- USB or memory file format: FAT16,FAT32
- Mp3 bit rate(data rate): 32-320 Kbps and variable bit rate
- Directory nesting up to a maximum of 8 levels
- Number of albums/folders: maximum 99
- Number of tracks/titles: maximum 999
- ID3 tag v2.0 or later
- File name in Unicode UTF8(maximum length:128 bytes)

Unsupported Formates:

- Empty albums:an empty album is an album that does not contain MP3 files,and is not be shown in the display.
- Unsupported file formats are skipped.For example,Word documents(.doc) or Mp3 files with extension.dl are ignored and not played.
- AAC,WMV,PCM audio files

Supported MP3 Disc Format:

- ISO9660,Joliet
- Maximum title number: 512(depending on file name length)
- Maximum album number: 255
- Supported sampling frequencies: 32kHz,44.1kHz,48kHz
- Supported Bit-rates: 32-320Kbps and variable bit rate

Supported Video Formats:

- DVD
- MPEG
- RMVB

Region Code

According to DVD sale region, the whole world is divided into six regions. A DVD disc can be played back only when its region code is compatible with that of the player in use.

Region 1: USA, Canada, East Pacific Ocean Islands;

Region 2: Japan, West Europe, North Europe, Egypt, South Africa, Middle East;

Region 3: Taiwan of China, Hong Kong of China, South Korea, Thailand, Indonesia, South East Asia;

Region 4: Australia, New Zealand, Mid & south America, South Pacific Ocean Islands/Oceania;

Region 5: Russia, Mongolia, India, Middle Asia, East Europe, North Korea, North Africa, North West Asia;

Region 6: Chinese Mainland.

Cautions when using Discs

1) DO NOT use irregular shaped disc.

2) Disc Cleaning

Use a dry, soft cloth to wipe the disc from center to edge, only neutral detergent can be used.

3) When playing a new disc

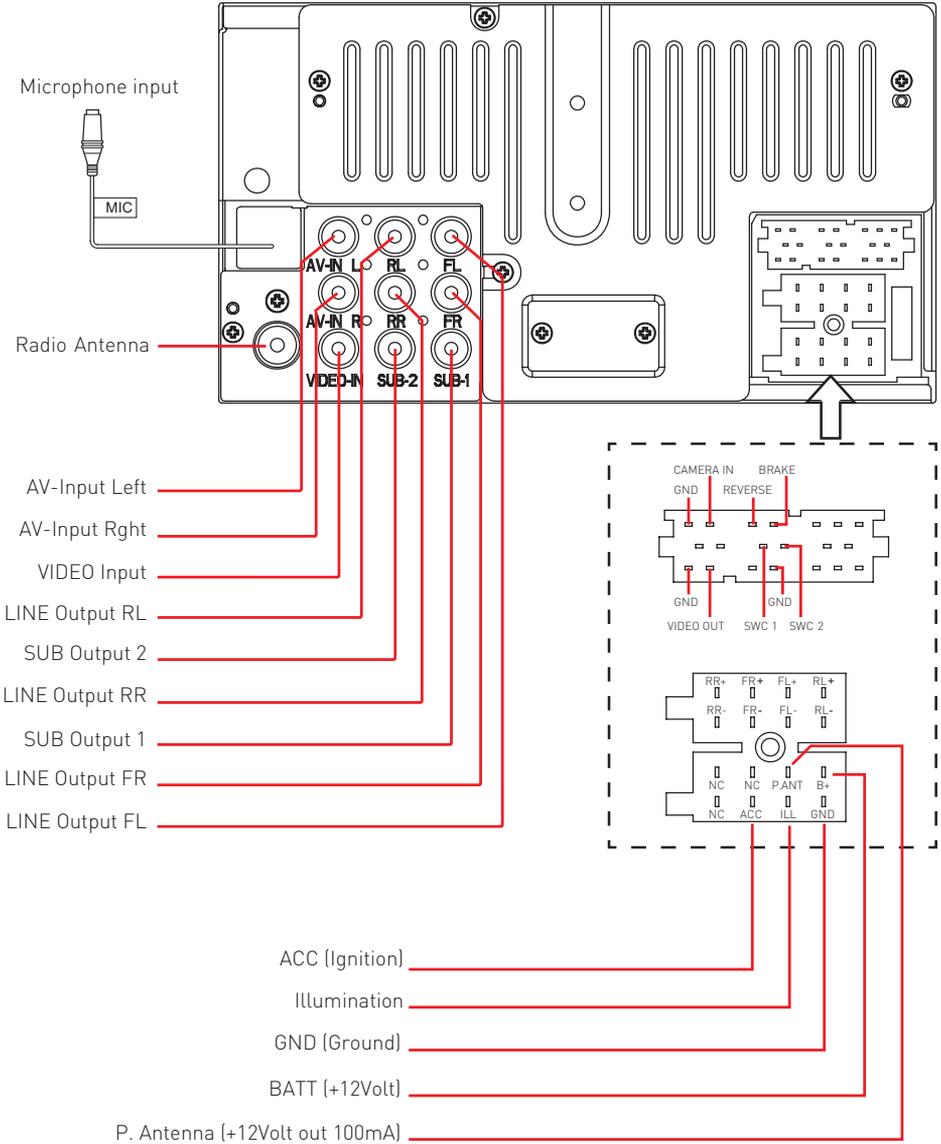
New disc may have some rough spots around the inner and outer edges. If such a disc is used, remove these rough spots with a pencil or ball-point pen, etc.

Troubleshooting

What appears to be trouble is not always serious. Please check the following points before calling a service center.

Problem	Cause	Corrective action
General		
Unit can not power on	Unit fuse blown.	Install new fuse with correct rating.
	Car battery fuse blown.	Install new fuse with correct rating.
	Illegal operation	Reset the unit.
No/low audio output	Improper audio output connection.	Check wiring and correct.
	Volume set too low.	Increase volume level.
	Speakers damaged.	Replace speakers.
	Heavily biased volume balance.	Adjust the channel balance to center position.
	Speaker wiring is in contact with metal part of car.	Insulate all speaker wiring connections.
Poor sound quality or distortion	Pirated disc is in use.	Use original disc.
	Speaker power rating does not match unit.	Replace speakers.
	Wrong connections.	Check wiring and correct.
	Speaker is shorted.	Check wiring and correct.
Unit resets itself when engine is off	Incorrect connection between ACC and BATT.	Check wiring and correct.
TFT monitor		
Warning information is shown at all times	Parking break wiring is not correct.	Check wiring and correct.
Flashing image or interference appears on screen	The color system of DVD disc does not match the monitor.	Adjust the color system of the DVD disc playing back or the monitor in use.
	Pirated disc is in use.	Use original disc.
	Video cable damaged.	Replace cables.
	Improper video signal connections.	Check wiring and correct.
Disc playback		
Cannot insert disc	A disc is already inside the unit.	Eject current disc and insert new one.
Disc does not play back	Disc is warped or scratched.	Use disc in good condition.
	Disc is dirty or wet.	Clean disc with soft cloth.
	Incompatible disc is used.	Use compatible disc.
	Disc is inserted upside down.	Insert disc with label side up.
	Disc region code is not compatible with unit.	Use disc with proper region code.
PBC cannot be used during VCD playback	PBC is not available on the disc.	Use disc with PBC available.
Repeat or search function is invalid during VCD playback	PBC is on.	Turn PBC off.

Wire Connections



Declaration of Conformity



Declaration of Conformity.



There are no restrictions of use.

The manufacturer Aldinet S.p.A declares that the type of radio equipment-Multimedia Navigation Receiver, model M-DVD4000, brand Macrom - complies with the 2014/53 / EU Directive.

The full text of the EU Declaration of conformity is available at the following internet address:
www.macrom.it

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