

# MULTIMEDIA NAVIGATION RECEIVER

USER MANUAL  
M-DL7000D



**DAB+**  
Digital Audio Broadcasting

android auto

Works with  
Apple CarPlay

# MACROM



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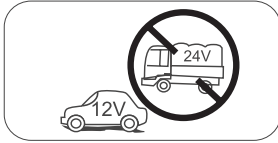
## Safety Precautions

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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.

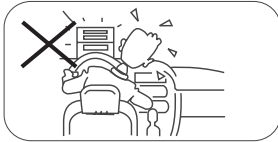
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Only connect the unit to a 12-volt power supply with negative grounding.



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



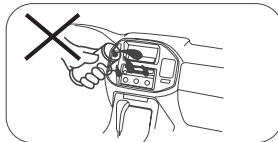
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Never use the video display function in the front when driving to prevent the violation of laws & regulations and also to reduce the risk of traffic accident except for using rear view video camera.

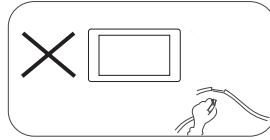


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Never expose this unit, amplifier, and speakers to moisture or water to prevent electric sparks or fire.

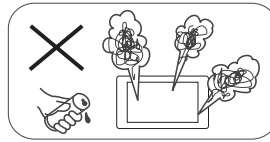


Please don't change the fuse on the power cord without professional guidance, using improper fuse may cause damage to this unit or even cause fire.



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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.

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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.

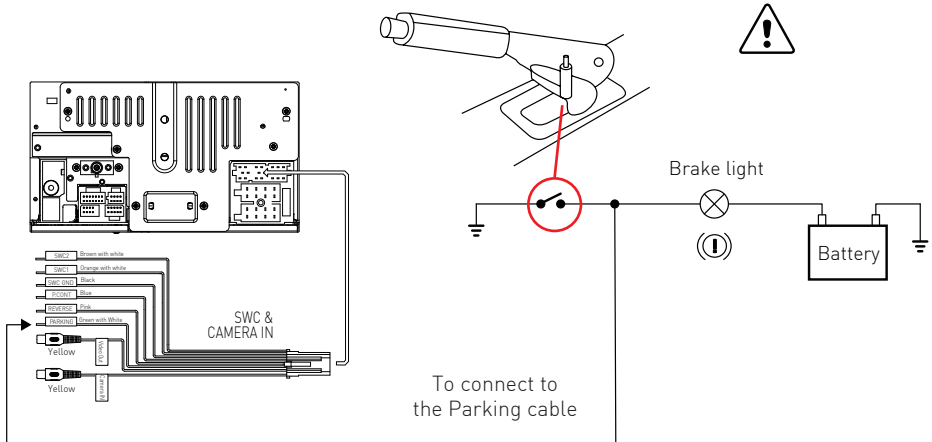
# Warning

## Detect parking brake

- In order to be able to install the android application, the handbrake connection must be connected. Engage the parking brake for APP installation.
- 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.

Importante note:

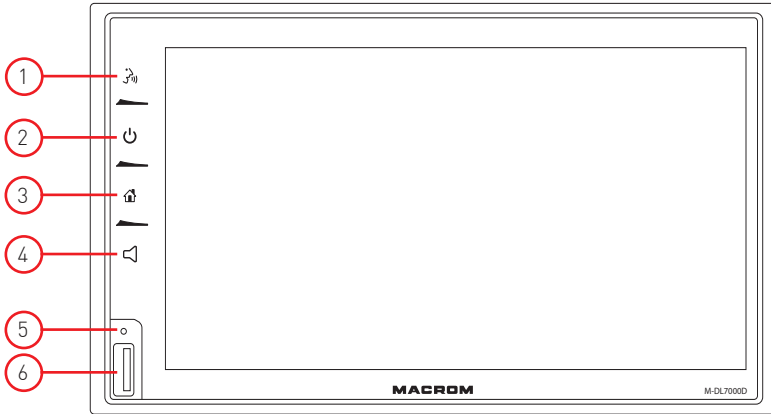
This connection is indispensable for the proper operation.







# Product overview

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## Front Panel




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

1. [  ] button  
Activate Siri/Google voice control
2. [  ] button  
Short press: Switch on device  
In operation: Mute audio source  
Long press: Switch off device
3. [  ] button  
Call up main menu
4. [  ] button  
Show the volume bar
5. Reset Button:  
Press to reset system settings to factory default (except password and parental lock settings).
6. USB Connector  
Connect a USB device for playback of music/video/picture files.

# Basic Operations


## Power On / Off

Press the [  ] button on the unit to turn the unit on. The buttons on the front of the unit light up and the current mode status appears in the LCD.

Press and hold the [  ] knob to power off the unit.

## Volume Adjustment

You can adjust the volume in steps from 0 (off) to 39 (maximum).

Press the [  ] button and drag left/right on the volume bar to change the volume.

## Mute

Briefly press the [  ] button to mute the device or to reactivate the previous volume.

## Playing Source Selection

Press the [  ] button on the front panel to display the playing source menu.

The playing mode is displayed on the screen.



1. Date display
2. Time display.
3. Function icons.



## Setting Date /Time

1. Touch [ Settings ].
2. Touch [ Time ].  
The date/time setup menu is displayed.

### Set Date



1. Touch [ Date ].
2. Touch the date information on the screen .  
A submenu is displayed.
3. Touch [  ] or [  ] to set year, month and day.



### Set Clock Mode

1. Touch [Clock mode].
2. Touch [12Hr] or [24Hr] to switch clock mode.

### Set Time

1. Touch [ Time ].
2. Touch the time on the screen, a submenu is displayed.
3. Touch [  ] or [  ] to set hour and minute.
4. When date/time is set, touch [ Save ] to confirm or [ Cancel ] to exit.

Note:

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

# Audio control

## Equalizer 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 [EQ icon] in the user interface and the EQ setup interface will display on the screen.
2. Select EQ mode  
Touch the desired EQ selection: [ Comfort ] / [ Classic ] / [ Rock ] / [ Jazz ] / [ Relax ] / [ Pop ], and the EQ mode will change.



### Adjust Equalizer Parameters

To adjust EQ parameters, touch and drag the parameters adjustment bar.  
[ Customize ]: Set the desired audio effect.  
[ Original ]: Select the original audio effect.  
[ Loudness: 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 [EQ icon] in the user interface and the EQ setup interface will display on the screen.
2. Adjust subwoofer volume  
Touch [▲] / [▼] or drag [Sub] to adjust subwoofer volume from -12 to +12.
3. Adjust fader / balance value  
Touch [▲] / [▼] / [◀] / [▶] to adjust fader / balance value from -7 to +7.  
[▲]: Front speaker  
[▼]: Rear speaker  
[◀]: Left speaker  
[▶]: Right speaker



#### Notes:

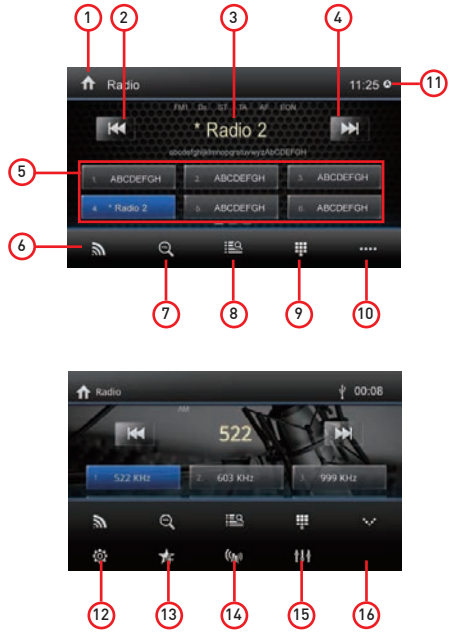
1. The parameters of the EQ modes has been preset and you can not change them besides 'User'.
2. The EQ mode will change to 'User' automatically when you adjust the frequency value under the modes besides 'User'.
3. The value of Sub is independent of EQ mode and can be adjusted separately.



# FM/AM Radio mode

## Radio overview

1. Touch to view the MENU and select a new playback source
2. Tune backward (short press)  
Seek backward (long press)
3. Current radio frequency
4. Tune forward (short press)  
Seek forward (long press)
5. Broadcaster information stored at the preset
6. Touch to change between AM/FM bands
7. Search stations automatically
8. To view all the stored stations
9. Enter frequency directly
10. Touch to view more on-screen buttons
11. Clock
12. RDS setting options
13. Save the desired radio station
14. Touch to change between Local and Distance
15. Touch for quick access to EQ level settings



## Select Radio as Playing Source

Open the Source Menu and then touch [Radio].

## Select One Radio Band

Touch the [📶] icon on the user interface repeatedly to cycle through the radio bands between 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.

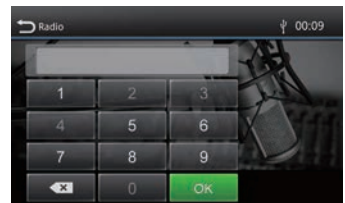
Manual Tuning

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.



# FM/AM 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 manually.
2. Touch [ ★ ].
3. Touch one of the channels P1 to P6 to save the selected station.



### Tune to a Preset Station

1. Touch [ FREQ ].
2. Touch one of the preset channels on the screen.

## Adjusting the seek tuning sensitivity

The seek tuning sensitivity decides whether the automatic station seek tuning finds only strong stations or also weaker stations that may be noisy.

1. Press the [ 🔍 ] button in main menu.
2. Press the button right to [ LOC ] to adjust the sensitivity of station seek tuning.  
If LOC is on, only stations with a strong signal are found during seek tuning.  
If LOC is off, stations with a strong and weak signal are found during seek tuning.

## EQ Selection

Press the [ 📊 ] icon and enter the EQ setup.

## RDS Basics

RDS transmits data to the radio which displays information such as name station, song artist, and song title. RDS service availability varies with areas.

## Adjust RDS Settings

1. In Radio menu, touch [ ⚙️ ].  
The option menu is displayed.
2. Touch on the selected option to change the setting.  
[RDS]: To turn on or off "RDS" function.  
[CT]: To turn on or off "Clock Time" synchronization function.  
[TA]: To turn on or off "TA" function.  
[PTY]: To show PTY list.  
[EON]: To turn on or off "EON" function.



# FM/AM Radio mode

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## 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.

## EON ( Enhanced Other Networks )

When EON data is received, the EON indicator lights and the TA and AF functions are enhanced.

TA: Traffic information can be received from the current station or stations in other network.

AF: The frequency list of preset RDS stations is updated by EON data. EON enables the radio to make fuller use of RDS information. It constantly updates the AF list of preset stations, including the one that currently tuned into.

## 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.

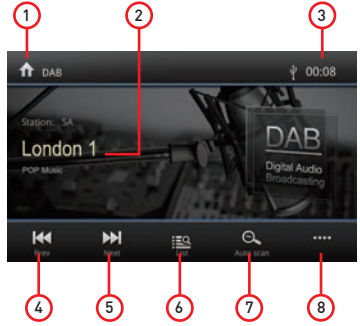
When an option is selected PTY (eg News), the radio unit, the PTY search available. If the PTY requested was not found, the unit returns to the original radio frequency.

# DAB Radio mode

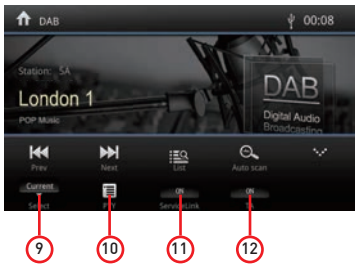
## DAB overview

### Playback menu

1. Enter the main menu
2. Information area
3. Display system time
4. Previous station
5. Next station
6. Show service list
7. Auto Scan, Search all service available and store stations automatically.
8. Display the 2nd menu



9. Search mode (All service, Preset, Current)
10. Search service by Programme Type
11. Turn On/Off Service Link  
The service link in the On position offers the possibility of searching for the alternative frequency of the service received.
12. Turn On/Off traffic announcement



### Auto scan

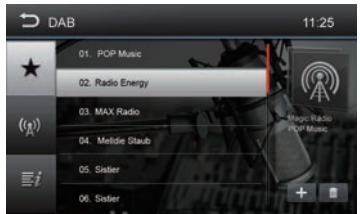
Only stations with sufficient signal strength will be detected and stored in the memory. Touch [🔍] to search all service available and store stations automatically. To stop auto store, press other icons having radio functions.

Note:

1. After auto store, the previous stored stations will be overwritten.
2. The unit has 3 bands, such as DAB1, DAB2 and DAB3.

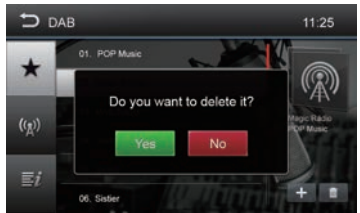
### Manual store

1. Touch the [≡] icon to show list menu.
2. Touch the [+] icon to enter store preset service menu.
3. Select a position to store current service.
4. Touch [↩] to exit.



### Delete stored services

1. Touch the [≡] icon to show list menu.
2. Touch [🗑] to delete stored services.



### Recall the stored services

1. Touch the [≡] icon to show list menu.
2. Touch to select a preset service.

### PTY Search

Touch [PTY] icon to show PTY type. Touch the [▲] or [▼] icon to scroll, and touch to select. Touch [▼] to seek a channel within the selected category.

### Service Link

Service Link mode, selected in the On position, if the DAB frequency is not present it will be automatically switched to the corresponding station in the FM range.

# Car Play

Using Apple lightning cable to connect iPhone with the product, and it will automatically show the CarPlay interface. User could directly operate the common functions of iPhone on the product. iPhone support: minimum iPhone5; Required iOS: minimum iOS 7.1.

## Play with CarPlay

1. Select the CarPlay source to play music.

## Play Music

Touch the main interface of CarPlay mode to access all of your content from iTunes.

## Call Out / Receive Call

Touch the Phone of CarPlay mode for Calling.

## Map

Touch the Map of CarPlay mode to let the iPhone show you the way.

## Message

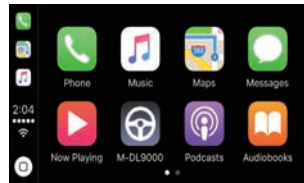
Touch the Messages of CarPlay mode for sending message or check unread message.

## Siri

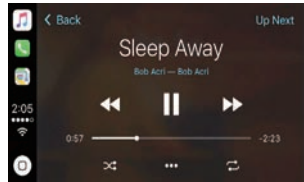
1. Touch and hold Apple Home key on product or iPhone for using Siri voice assistant, such as issuing a call, playing music, opening the map and other voice commands.
2. Touch the Siri key on the front panel.
3. When iPhone is connected, enable Siri by steering wheel control  
This function is only available on cars equipped with the equivalent key
4. Control with "Hey, Siri".



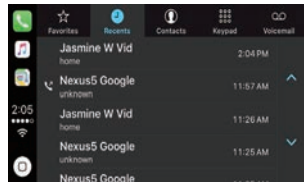
CarPlay



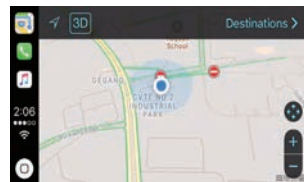
Play music



Call Out/Receive Call



Use map



# iPod

## iPod

Using Apple cable to connect the iPod with the product, then user could listen to the iPod music on the product.

### Play with iPod

1. Select the iPod source to play music.



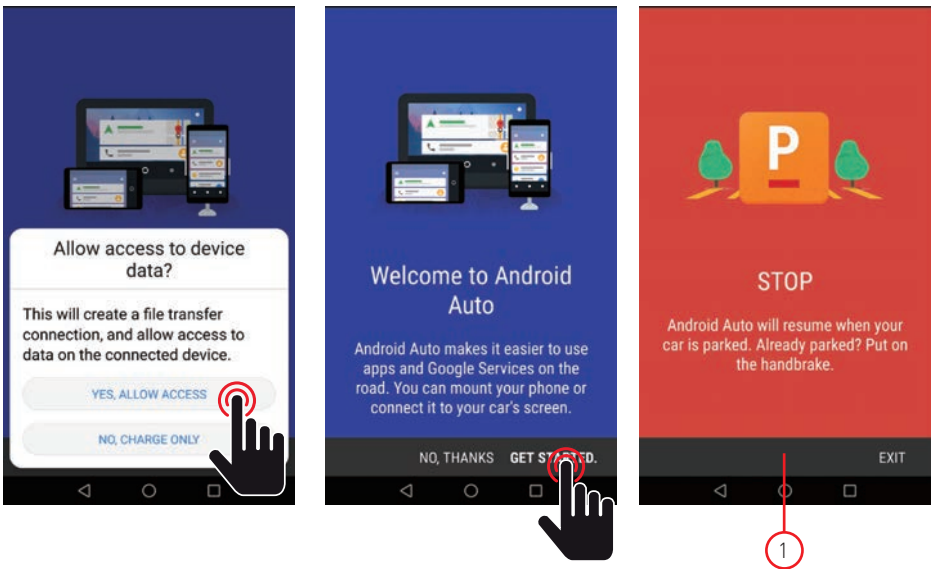
# Android Auto

Connect Android phone by standard micro USB cable, drivers can enjoy the music from their phone, show the way with Google map or other map App and make or receive a call. User need to enable Bluetooth on phones and the product at the same time. Required Android OS: 5.0. (Android Auto App must be installed on the phone before connecting).

### Installation procedur

The following procedure illustrated for the installation of Android Auto APP.

Note: The sequence shown may vary depending on the device connected.



### IMPORTANT NOTE:

In order to continue with the APP installation, the vehicle must be parked with the handbrake inserted.

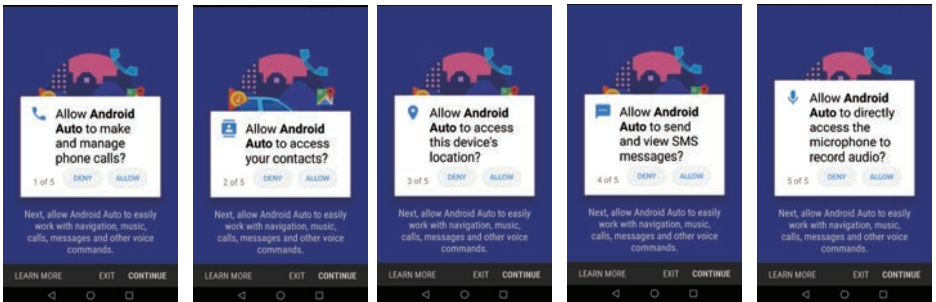
# Android Auto

## Installation procedure

To continue with the installation, you must agree to the terms provided by Google.

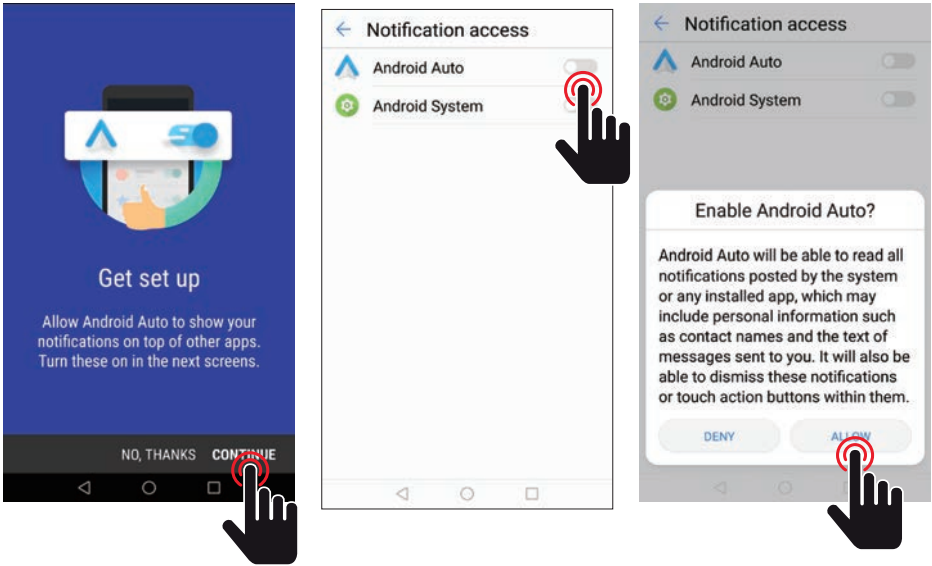


Next step, are to allow Android Auto to easily work with navigation, music, calls messages and other voice commands. If you want these functions to Allow or Deny the functions.

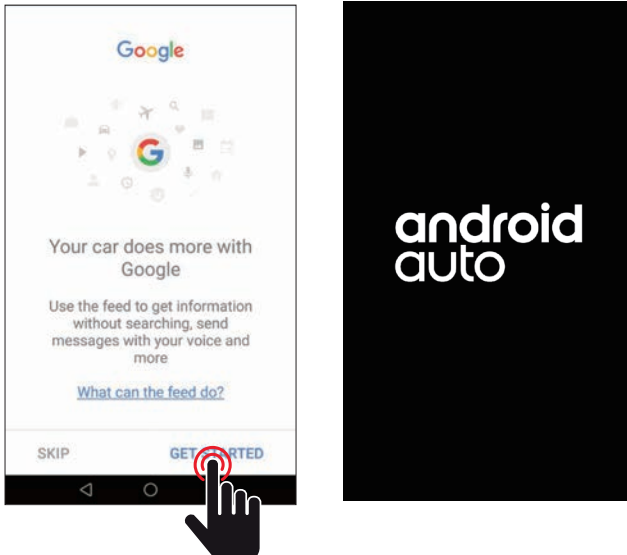


# Android Auto

Next step, are to allow Android Auto to show your notifications on top of your other apps.



Next step, Get started to Android Auto.





# Android Auto

Connect Android phone by standard micro USB cable, drivers can enjoy the music from their phone, show the way with Google map or other map App and make or receive a call. User need to enable Bluetooth on phones and the product at the same time. Required Android OS: 5.0. (Android Auto App must be installed on the phone before connecting).

## Play with Android Auto

1. Select the Android Auto source to play music.

## Map

Touch the (  ) icon of Android Auto to let the phone show you the way.

## Call Out / Receive Call

Touch the (  ) icon on Android Auto for Calling.



## Back to Android Auto

Touch the (  ) icon of Android Auto to back on main menu.

## Play Music

Touch the (  ) icon of Android Auto to play music.

## Talk with Google

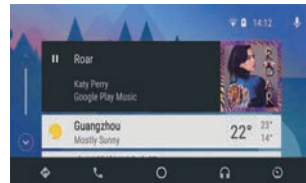
1. Touch the (  ) on product for using Google voice assistant, such as issuing a call, playing music, opening the map and other voice commands.
2. Touch the (  ) on the top right of LCD .
3. When Phone is connected, enable Google voice by steering wheel control  
This function is only available on cars equipped with the equivalent key
4. Control with "Ok, Google".

## Back to unit menu

Touch the (  ) icon of Android Auto to back on unit main menu.



Android Auto



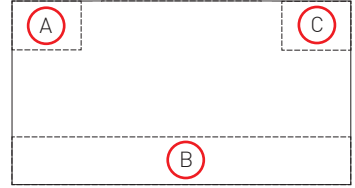
# Playback Mode

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## Touch Screen Controls

The touch key areas for playback are outlined below:

- A: Return to the main menu
- B: Display onscreen control menu
- C: Time display



## 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 Device

1. Open the USB door.
2. Insert the USB socket, then connect the other end of the cable to your USB device.

## Remove a USB Device

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

## Play/Pause

1. Once USB or SD/MMC card is inserted, play starts automatically.  
For 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

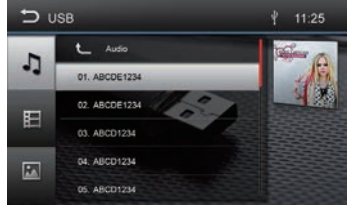
Touch [◀◀] / [▶▶] key on the screen to skip to previous / next track / chapter.

# Playback Mode

## Search for a content

### For Folder Control

1. Touch [☰] to display all available folders
2. Touch a folder, then touch the desired file.
3. Touch the file again to start play



### For Audio Files

1. Touch [🎵] to display all available audio folders.
2. Touch a folder, then touch the desired file.
3. Touch the file again to start play.



### For Video Files

1. Touch [📺] to display all available video folders.
2. Touch a folder, then touch the desired file.
3. Touch the file again to start play.



### For Picture Files

1. Touch [🖼️] to display all available picture folders
2. Touch a folder, then touch the desired file.
3. Touch the file again to start play.

## Repeat

1. Touch anywhere except the upper left corner to display menu on the screen.
2. Touch [↔️] repeatedly:
  - [🔄] Repeat off: Cancel repeat play.
  - [🔄] Repeat folder: Play all in the current folder.
  - [🔄] Repeat single: Play the current single repeatedly.

### Shuffle (Random) Play

You can play audio tracks/files in random order.

1. Touch [••••] to display the 2nd menu.
2. Touch [🔀] on the screen repeatedly to turn random play on or off.

### Rotate Pictures

1. When you view pictures, touch the screen to display menu on the screen, if necessary.
2. Touch [••••] to display the 2nd menu.
3. Touch [🔄] or [🔄] repeatedly to rotate the picture.

### Zoom in or out

1. When you view pictures, touch the screen to display menu on the screen, if necessary.
2. Touch [••••] to display the 2nd menu.
3. Touch [🔍] or [🔍] repeatedly to zoom in or out the picture.

# 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.

## Bluetooth device

- In the main menu, press [Phone] the Bluetooth menu will be displayed.  
The list shows known Bluetooth devices.  
[🔍] Add a new Bluetooth device.  
[⚙️] Displays the settings menu.
- Press the [📱] key of the Bluetooth device with which you want to establish a connection.  
When the device is within range and the connection is established, the device is displayed in the menu.
- Press the [🗑️] button if you want to delete the Bluetooth device from the list.



## Connecting Bluetooth devices

If you want to connect a device to the audio system for the first time, do the following:

1. Activate the Bluetooth function on the device.
2. Touch [🔍] to search for the Bluetooth device with the unit.
3. Start scanning on the Bluetooth device and select the unit "M-DL7000"
4. If required, enter the default password "0000".






The connection is established and the menu for the registered device is displayed.

Note:

If a telephone is connected with the car sound system, the Bluetooth icon is displayed at the right edge of the display in all audio/video sources.




# Bluetooth mode

## Bluetooth function

- [  ] Call up the phone book.
- [  ] Call up records lists.
- [  ] Display the dial keypad menu.
- [  ] Disconnect connection with current device.
- [  ] Display options menu.





## Make a Call

- Enter a phone number with the dial keypad and press the [  ] button.  
- Or -
- Select a contact/number via the records lists or phone book.  
The connection is being established.  
If a call is coming in, the call menu is displayed.  
[  ](Hang up): Reject a call.  
[  ](Answer): Answer a call.









## Alphabetic search

Press [  ] on the left bottom of the screen to access Phonebook. If you want to search a contact, press [  ] and enter the characters via the keypad.


## Audio playback via Bluetooth streaming

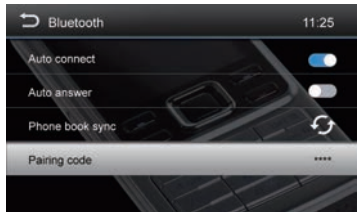
A2DP is short for Advanced Audio Distribution Profile. The mobile phones supporting this function can transmit stereo audio, whereas the ones not supporting this function can transmit mono audio only.

- Press the [  ] button on main menu to change to the audio playback.  
[  ] Title selection.  
[  ] Interrupt playback and continue playback.  
[  ] Title selection.  
[  ] Enter the EQ setup menu.  
[  ] Disconnect connection with current device.



## Bluetooth settings

- Press the [  ] button.  
The options menu is displayed.  
[ Auto Connect ]: If "Auto Connect" the unit automatically connects to the Bluetooth devices listed.  
[ Auto Answer ]: If "Auto Answer" is activated, incoming phone calls are automatically answered.  
[ Phone book sync ]: To be able to access the phonebook of the connected phone, synchronization is required.



# Settings

## General

1. Touch [ General ] in the settings page.
2. Touch to highlight a setting.
3. Touch to display/select an option.

General settings	Options	Description
System Language	Select on-screen display language.	
Lighting	You can select the key color.	
Radio Area	Select your region of origin.	
Beep	On	Turn on the beep sound. Each time you press a button, the unit beeps.
	Off	Turn off the beep sound.
SWC	Steering wheel control	
Screen Saver	On/Off	Turn on/off Screen Saver.
LOC	On	If LOC is on, only stations with a strong signal are found during seek tuning.
	Off	If LOC is off, all stations are tuned during search.

## Video

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

Video settings	Options	Description
Parking	On	Disable video
	Off	Enable video
Day/Night Mode	Day/Night/Auto	
Brightness	0-10	Adjust the display Brightness.

## Volume

You can set different volumes for different modes.

1. Touch [Volume].  
The volume setting sub-menu is displayed.
2. Touch to select a source.
3. The volume range is from: -12 to 12.  
When switching to the source, the volume increases automatically.
4. Touch the upper left corner of the screen to exit.

## Time

1. Touch [ Time ].
2. Touch an option repeatedly to select:
3. Touch the upper left corner of the screen to exit.

Time settings	Options	Description
Set Time	Hour	To set hour and minute.
	Minute	To set AM/PM (only for 12Hr).
Set data	Y/M/D	To set year, month and day.
12H Format	On/Off	Touch On/Off to switch to time mode.

# Settings

## System

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

System settings	Description
MCU Update	Update MCU
MPEG Update	Update MPEG
MCU Version	Display the current MCU version information.
MPEG Version	Display the current MPEG version information.
Load factory	Restore to default settings.

## Various

### Additional devices

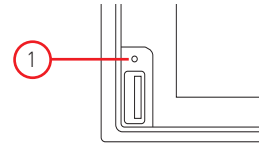
You can connect an external audio/video device to the unit.

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

### Reset

When the unit hangs up, you can reset it.

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



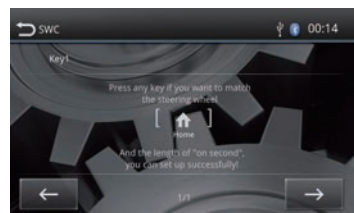
### Replace a Fuse

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

1. Remove the unit from the dashboard.
2. Check all electrical connections.
3. Buy a fuse that matches the amperage of the damaged fuse.
4. Replace the fuse while the unit is powered off.

### Steering Wheel Control Programming

1. Touch the [ ] button in main menu, the settings menu is displayed.
2. Touch [ General setting ] in the settings page.
3. Touch [ SWC ], the SWC menu will display.
4. Select the keys corresponding to the functions of steering wheel controls by tapping the KEY and define the desired function.
5. Touch [ Match ] to program.
6. Press each individual steering wheel control button for each corresponding function.
7. Once the final steering wheel control button is programmed, the functions are saved and the programming.
8. Touch [Reset] to reset the programming.



# Specifications

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## General

Reference Supply Voltage .....	12V $\equiv$
Operating Voltage Range .....	9 - 16V $\equiv$
Max Operating Current.....	15A
Grounding System .....	Car Battery Negative Pole
Dimensions(WXHXD).....	178X100X166.5mm
Weight(main unit) .....	1.9kg

## FM

Signal Noise Ratio .....	$\geq 55$ dB
Residual Noise Sensitivity (S/N=30dB .....	$\leq 10$ dB $\mu$ V
Frequency Response ( $\pm 3$ dB) .....	40Hz-12KHz
Station Seeking Level.....	23 $\pm 3$ dB $\mu$ V
Distortion .....	$\leq 1.0\%$
Stereo Separation (1KHz).....	$\geq 25$ dB
Antenna Impedance.....	75 $\Omega$
Frequency range.....	87,5 /108,0MHz

## AM

Residual Noise Sensitivity (S/N=20dB) .....	$\leq 28$ dB $\mu$ V
Selectivity ( $\pm 9$ KHz) .....	$\geq 50$ dB
Frequency range.....	522/1620KHz

## DAB

Residual Noise Sensitivity (RF=72dBm).....	60dB
Stereo Separation (1KHz).....	$\geq 55$ dB
Frequency range.....	174 /240MHz

## BT

Frequency .....	2,402 - 2,480GHz
EIRP power .....	0.94dbm

## LCD

Screen size.....	6.75 inches(16:9)
Display resolution.....	800X480dots
Contrast ratio.....	400
Brightness .....	280cd/m2

## Power output

Frequency Response ( $\pm 3$ dB) .....	50Hz-16KHz
Maximum Output Power .....	4x40W
Load Impedance .....	4 $\Omega$

## AUX IN

Distortion .....	$\leq 0.5\%$
Frequency Response ( $\pm 3$ dB) .....	50Hz-20KHz
Audio Input Level .....	0.5Vrms

## Audio

Audio Output Impedance.....	100 $\Omega$
Audio Output Level .....	2Vrms(Max)

## Video

Normal Video Input Level (CVBS) .....	1.0 $\pm 0.2$ V
Video Input Impedance.....	75 $\Omega$
Video Output Impedance .....	N/A
Video Output Level.....	N/A

## Environment

Operating Temperature.....	-20°C ~ +70°C
Storing Temperature.....	-30°C ~ +80°C
Operating Humidity.....	45%-80%RH
Storing Humidity.....	30%-90%RH

## Version Software

MCU.....	Ver 1.15
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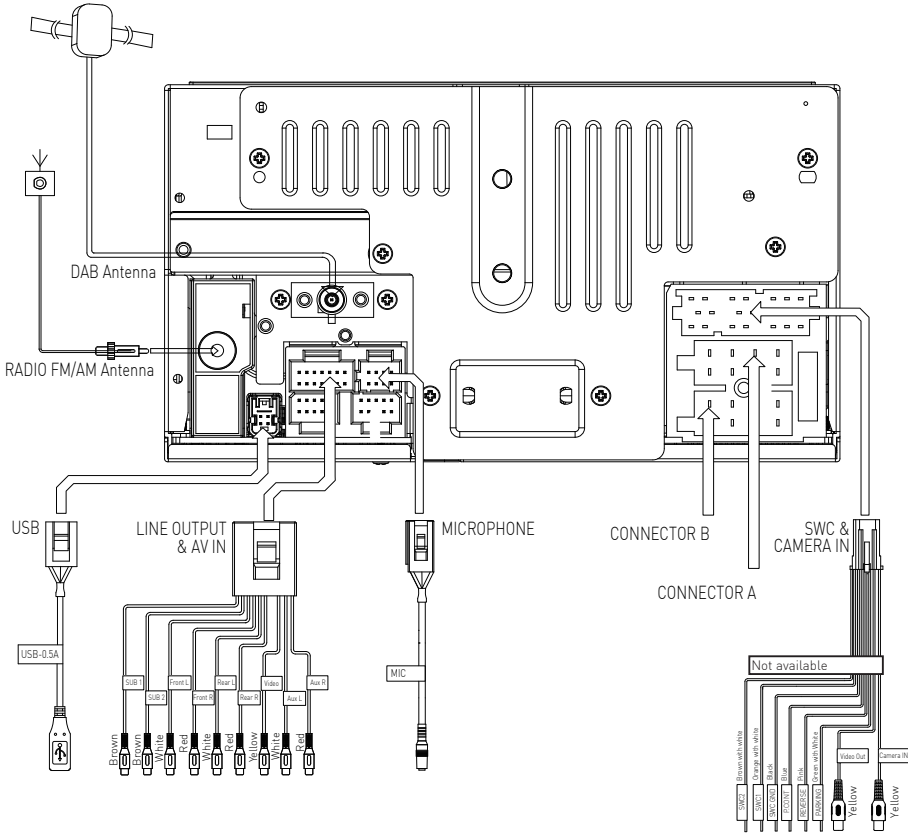


## Troubleshooting

If the unit is faulty, please consult the following points before calling the service center.

Problem	Phenomena	Solutions
Unit	Cannot power on/off	Check the connection, if it is broken, try to reconnect it; Check the main fuse, if it is damaged, replace it; Press reset key.
	No sound	Adjust the volume. Confirm whether the music and video is supported or not.
Reversing	Abnormal picture	Exit reversing mode and enter again. Check whether the camera is covered by foreign matters. Check whether the type of reverse camera is matched or not. Check the reversing signal cable.
Radio	Noisy; Cannot search the station	Ensure there is no metal products around the machine. Driving the vehicle to the place where the radio signal is good and search the station. If the solutions above are invalid, please check whether the antenna is disconnected, damaged, etc.
Navigation	Satellite positioning failure	Please make sure that the SD card has been inserted into the machine, which has navigation map software inside. Driving the vehicle to the open place and search the satellite, the result will be different due to weather conditions.
Bluetooth	Connecting fail	Please make sure that the Bluetooth of mobile device is turned on.
USB playing	Playing fail	Ensure the U disk is not damaged. Please make sure that the format of content is supported.

# Wire Connections



PIN NO.	Function	
	Connector A	Connector B
1	Rear right (+) / Purple	
2	Rear right (-) / Purple with black stripe	
3	Front right / Gray	
4	Front right (-) / Gray with black stripe	ACC+ / Red
5	Front left (+) / White	Antenna-Power Control/ Blue
6	Front left (-) / White with black stripe	Illumination / Orange
7	Rear left (+) / Green	Battery 12V(+) / Yellow
8	Rear left (-) / Green with black stripe	Ground / Black





# Declaration of Conformity

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There are no restrictions of use.

The manufacturer Aldinet S.p.A declares that the type of radio equipment - Multimedia Navigation Receiver, model M-DL7000D, 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](http://www.macrom.it), or at Aldinet S.p.A. Viale Colombo, 8 - 20090 Trezzano S/N (MI) Italy

Made in China by  
Aldinet S.p.A.  
Viale Colombo, 8 - 20090 Trezzano S/N (MI) Italy

## Information on disposal of unit

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This product bears the selective sorting symbol for waste electrical and electronic equipment (WEEE). This means that this product must be handled to the local collecting points or given back to retailer when you buy a new product, in a ratio of one to one (or one to zero if the external dimension is less than 25 cm) pursuant to European Directive 2012/19/EC in order to be recycled or dismantled to minimize its impact on the environment.

For further information, please contact your local or regional authorities. Electronic products not included in the selective sorting process are potentially dangerous for the environment and human health due to the presence of hazardous substances. The unlawful disposal of the product carries a fine according to the legislation currently in force.



The MACROM brand is a registered trade mark of ALDINET S.p.A.

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