MULTIMEDIA NAVIGATION RECEIVER

USER MANUAL
M-DL9000

android auto

Works with
Apple CarPlay

MACROM

Contents

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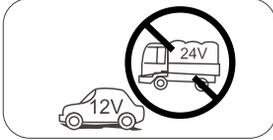
Never install this unit where the operation & condition for safe driving is impaired.

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.
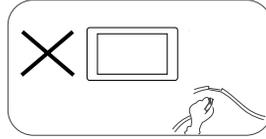
Please contact your nearest dealer if one of the following symptoms is experienced:
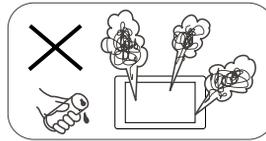
(a). Water or other objects enters the unit.
(b). There is smoke.
(c). Peculiar smell.

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.

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.

Detect parking brake
This connection is indispensable for the proper operation.

Brake light

Battery

TO PARKING
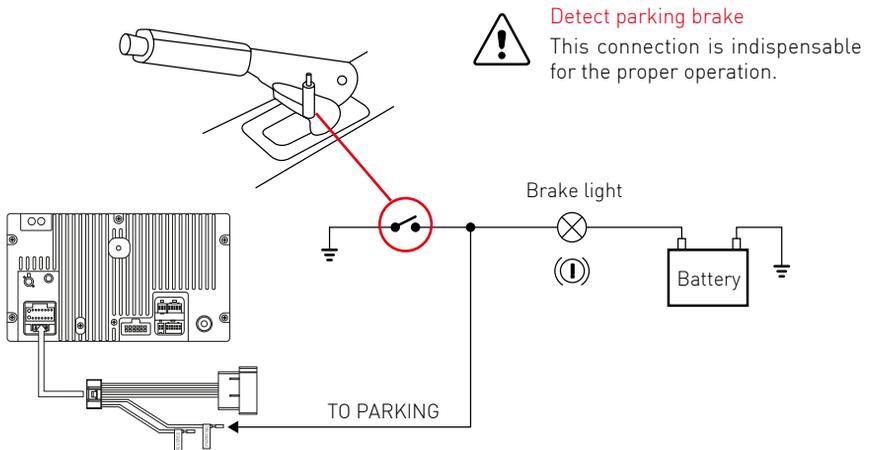
Product overview

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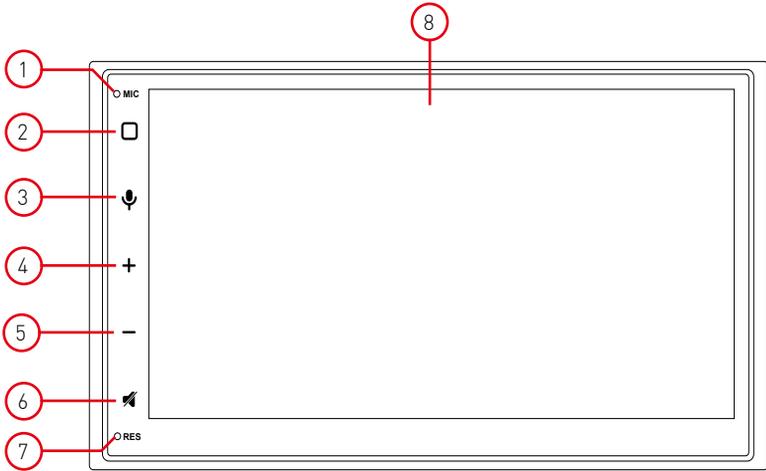
Notice:
The graphic in this manual is for reference only, and may be different from the actual unit.

1. Internal Microphone
   Iternal microphone for Bluetooth calls.
2. [MENU] button
   Press to turn the unit ON. Press and hold to turn the unit OFF.
   Press to access the main.
3. (FIND) Anable Siri or Google
4. [VOL +] button
   Press to increase the volume
5. [VOL -] button
   Press to decrese the volume
6. (MUTE) button
   Press to mute the system, press agin to play the system.
7. (RESET) button
   Press to reset the system
8. Screen dispaly area

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
To increase or decrease the volume level, push the [VOL +/-] buttons on the front panel. The volume ranges are from "0" to "32". The LCD screen displays the volume level for 5 seconds.

Mute
Press [🔇] button 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.

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. Media player view
2. Phone   Hands-free phoning
3. Bluetooth   Play Bluetooth audio music
4. Navigation   Use navigation system
5. FM/AM   Listen to FM / AM radio program
6. Android Auto   Connect to Android phone
7. CarPlay   Connect to iPhone
8. iPod   Connect to iPod
9. USB   Play music/video in USB flash drive
10. Settings   Set the parameters of the product
11. AUX   Listen to External audio
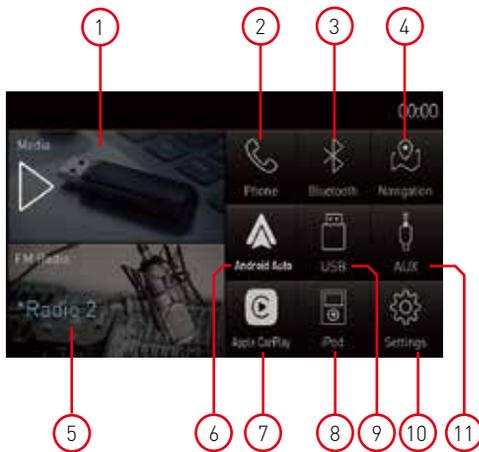
General settings

Date & Time

1. Touch to select the time zone in the region.
2. Touch to set date, touch OK for setting done.
3. Touch to set the time, touch OK for setting done.
4. On/Off/24H mode.
5. On/Off automatically adjust time according to the navigation position.
6. On/Off daylight saving time.
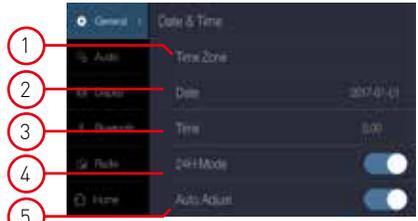
Android Auto

7. Auto lunch

Navigation

8. Select the path for navigation software. Select the mode of navigation path always, when display the map and close.
9. Select the desired navigation mode between "always" or "navigation only"

Language

10. Touch to select language, and then touch OK to restart automatically.
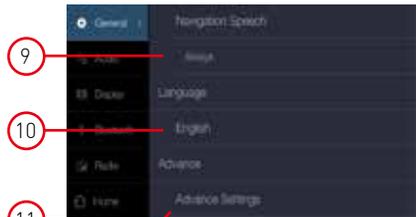
Advance settings

11. Touch to for advance settings. Enter password 0000

Advance settings

12. Touch to choose left driving position or right driving position (for CarPlay) A new connection is required to activate the settings.
13. On/Off handbrake; If On, it will remind user not to watch the video or input keypad in the driving process due to safety.
14. On/Off the illumination control; If open, the screen backlight automatically becomes dimming when user turns on the vehicle light.
15. Steering Wheel control (see next page for setting)
16. Touch 🔒 to lock, and you need to enter password again for the second time setting.
17. Touch ⮑ to return.

Steering wheel control

SWC settings

1. Before starting press Calibrate.
2. Then press YES to reset the preset setting
3. Select the function key, then press the phisically key on steering wheel.
4. Repeat the sequence until the available functions are completed.
5. At the end of the sequence, press Confirm to store the selected functions.
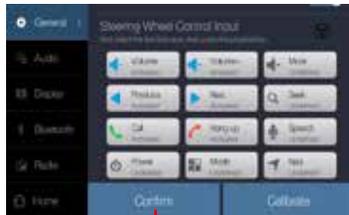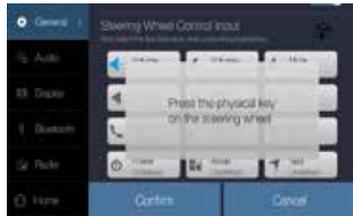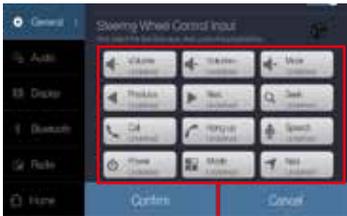
Audio settings

Audio
1. On/Off beep, one touch one beep.
2. On/Off loudness effect.
3. Subwoover volume level.
4. Subwoofer frequency cutting (low pass)
   80Hz - 120Hz - 160Hz

Volume
5. Adjust the volume of multimedia (music, video and radio).
6. Adjust the volume of phone.
7. Adjust the volume of assistant /navigation.

Audio Effect
8. Select the sound effect, choose it directly. Classic, pop, rock, jazz sound effect,
9. Sliding progress Equalizer bar to custom sound effect.
10. Move original point to adjust the speaker output balance.
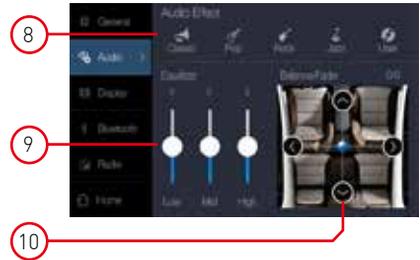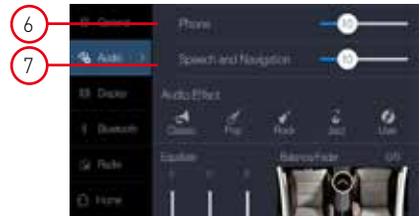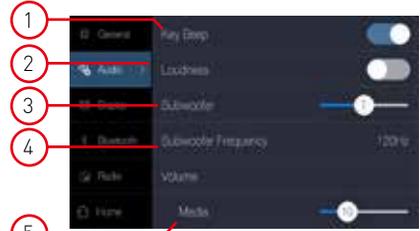
Display settings

Screen
1. Adjust the Gamma contrast range of the LCD screen.
2. Adjust the brightness of the screen in daylight mode.
3. Adjust the brightness of the screen in night mode.

LED
5. Choose the color of LED illumination keys.
6. Adjust the brightness of the LED in daylight mode.
7. Adjust the brightness of the LED in night mode.
8. On/Off animation effect of LED.

Default
9. Recover to default setting value.
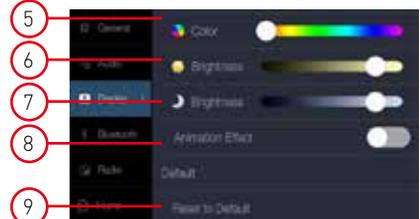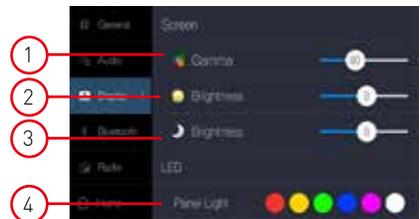
Bluetooth settings

Bluetooth

1. To turn On or Off "Bluetooth" function.
2. To turn On or Off "Auto connect" function.
3. To turn On or Off "Auto answer" function.
   If setting to On, the incoming call will be received automatically.
4. On/Off automatic download phonebook; if On, the product will automatically download phonebook from mobile phone when Bluetooth connection is done.
   Note: (need permission of mobile phone).
5. Touch to modify the product name.
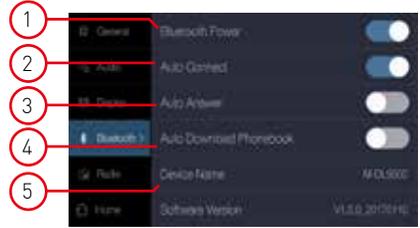
Radio settings

Seek quality

1. When the scan quality is set to -5, the stop sensitivity will be greater (more stations received).
   When the scan quality is set to +5, the stop sensitivity will be lower (fewer received stations).
2. Touch to recover to default stop sensitivity.
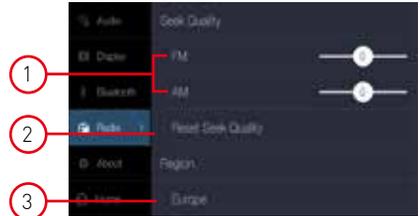
Region

3. Touch to select the region.
   Changing settings causes loss of previously set settings.

RDS

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

4. To turn on or off "RDS" function.
5. To turn on or off "AF" function.
6. To turn on or off "TA" function.
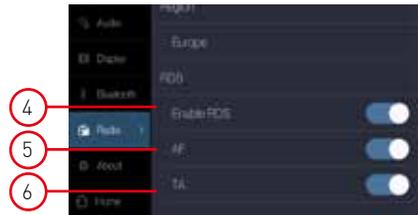
Radio playback music

Play music

1. Select the Radio source to play music.
2. Touch(FM-AM)to alternate switch between FM and AM.
3. Touch (◄◄) or (►►) to automatic search the radio station.
4. Touch (◁) or (▷) to manually search the radio station.
5. Touch (⌂) to back to the main menu.
6. Touch (☰) to select the station in the list.
7. Sliding the cursor left or right to rough adjust radio frequency.
8. Touch (🔍) to automatic search and save station.
9. Radio frequency and Programme Service information.
   Press the (PS) to view the collected stations.
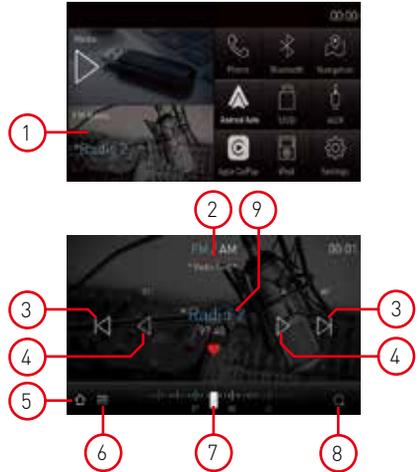
Collect station

10. Collected favorite station
11. Touch (♥) to collect the current station.
12. Touch (PS) to back to the radio window.
13. Touch (Playing) to back to the radio window.
14. Touch (FM) to view the collected FM stations.
15. Touch (AM) to view the collected AM stations.
16. Touch (Favorite) to view the favorite FM stations.
17. Touch (Home) to back to the home page.

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.

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

Check 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".
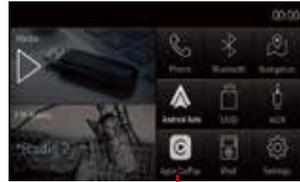
CarPlay
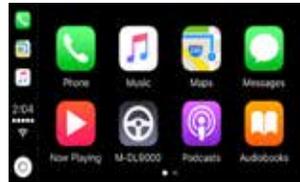
Play music

Call Out/Receive Call

Use map
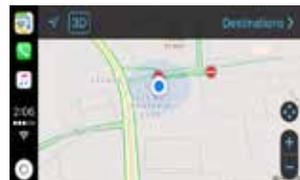
iPod

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.
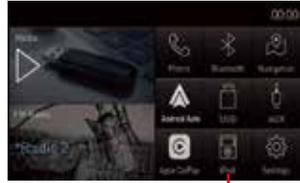
Android Auto

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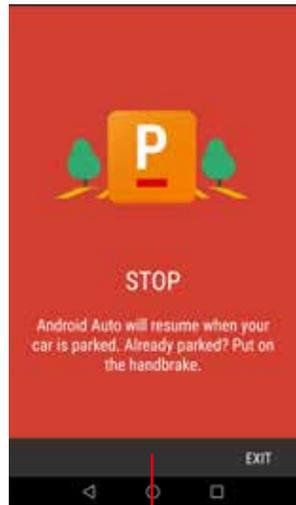
IMPORTANT NOTE:
In order to continue with the APP installation, the vehicle must be parked with the handbrake inserted.

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.
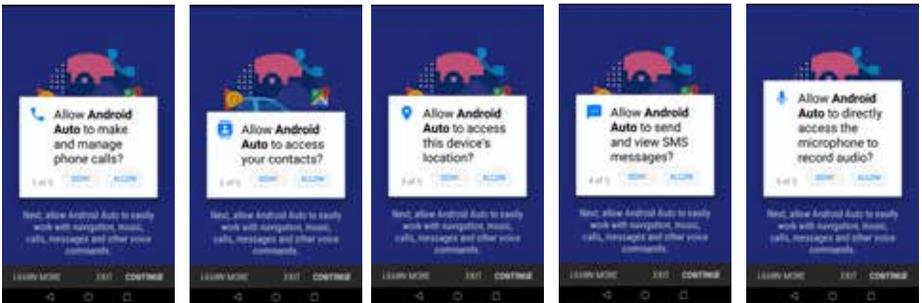
Android Auto

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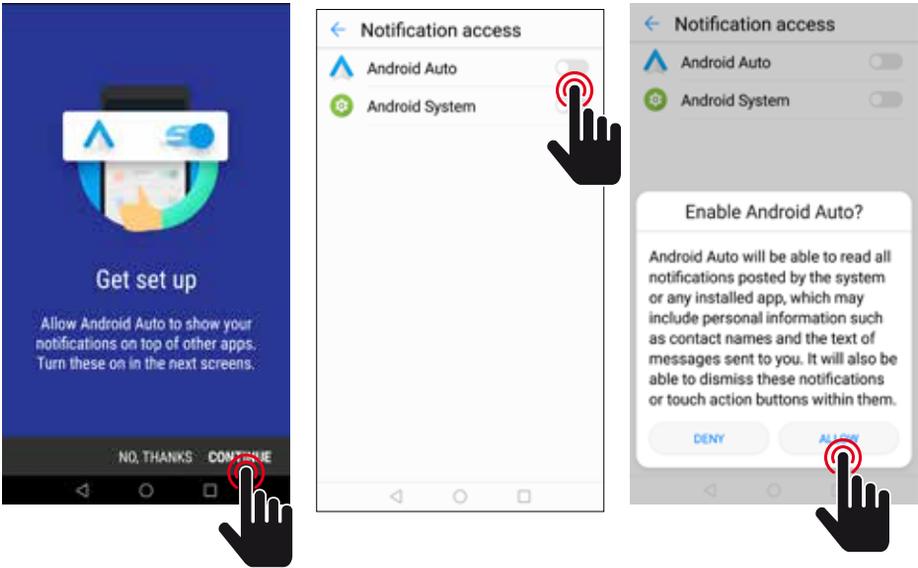
Next step, Get started to Android Auto.
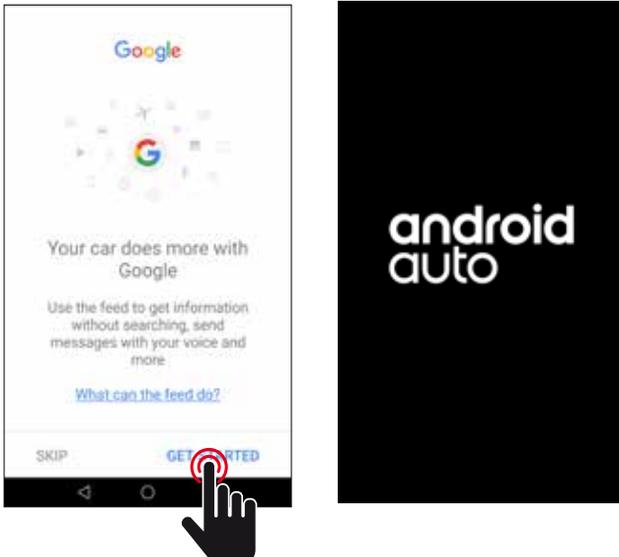
Android Auto

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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 Andorid Auto source to play music.

Open 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.
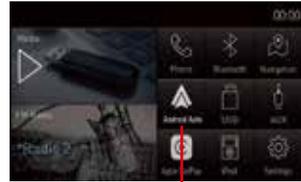
①

Andorid Auto
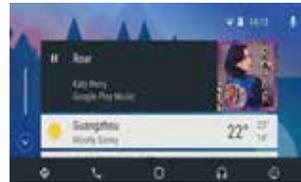
USB playback music

Supporting Format
• Music: APE, FLAC, MP3, WMA, WAV,M4A, OGG.

1. Select the USB device to play music.

Play music
2. Touch list (≡), to view the available media player.
3. Select (♫ Music) to show the music list.
4. Drag up and down the list, touch the selected song to play and adjust the play progress in the progress bar.
5. Touch to change the selection between (🗀 Folder) to (♫ Track) or viceversa.
6. Touch (Q Search) to find the file by the first letter.
7. Touch (ılıl Playing) to return to the player interface.
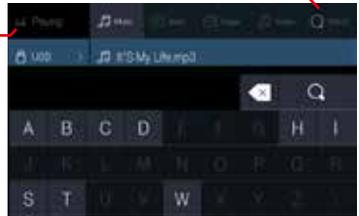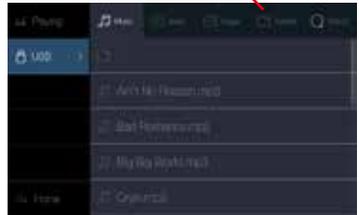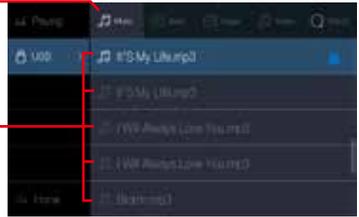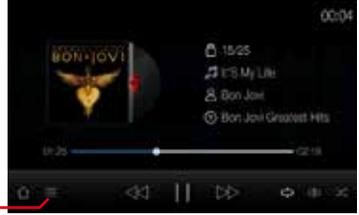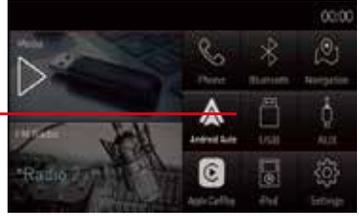
USB playback video

Supporting Format
• Video: 3GP, AVI, MKV, MOV, MP4, MPEG, RMVB.

Play video
1. Touch list (≡), to view the available media player.
2. Select (⊙ Video) to show the music list.
3. Drag up and down the list, touch the selected song to play and adjust the play progress in the progress bar.
4. Touch to change the selection between (🗁 Folder) to (⊙ Tracks) or viceversa.
5. Touch (⊪ Playing) to return to the player interface.
6. Touch (Q Search) to find the file by the first letter.
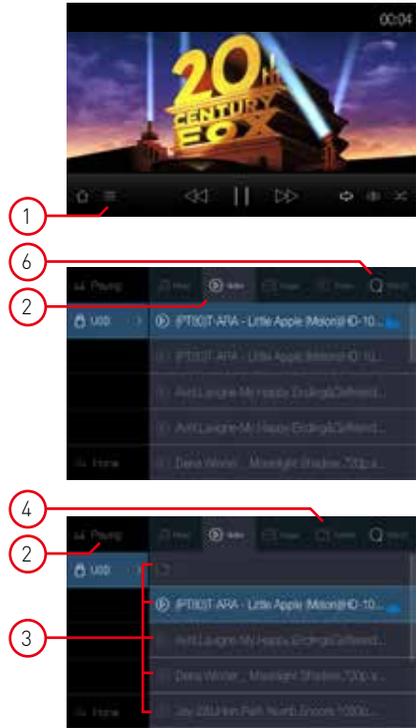
USB playback image

Supporting Format
• Image: JPG, PNG,BMP.

Play image
1. Select (⊠ Image) to show the image list.
2. Touch to change the selection between (🗁 Folder) to (⊠ Tracks) or viceversa.
3. Drag up and down the list, touch the selected image to play and adjust the play progress in the progress bar.
4. Touch (⌕) to zoom out or zoom in
5. Touch (▶|) or (|◀)to view previous or next picture.
6. Touch (▷) to preview all pictures.
7. Touch (☰) to return to the list.
8. Touch (↻) to rotate the image.
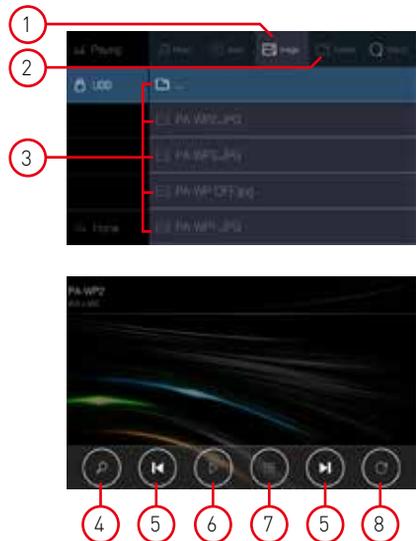
Bluetooth mode

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.

Search Bluetooth device

Please make sure that the device you desire to connect has been turned on and allowed to be detected. Using a mobile device to search the product, the name will be displayed on your mobile device, or touch (Q Search) to search the surrounding Bluetooth devices.
All the devices searched will be displayed on the screen.

Tip:

• The operational range between this unit and a Bluetooth device is approximately 5 meters.
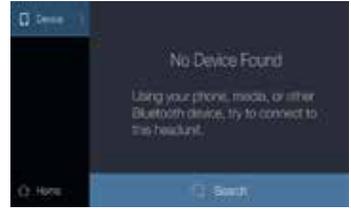
Pairing device

In the mobile device, touch name of the product or choose device on product to connect, and then wait for the connection.

Automatic Connection
If the connected device is out of the operating range, the Bluetooth connection will be disconnected automatically. If user does not close the Bluetooth function, the Bluetooth is automatically reconnected when the device returns to the operating range in few minutes.
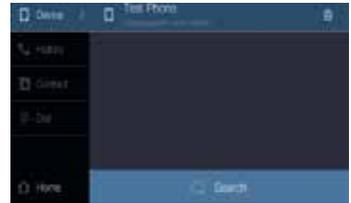
Download Phone book

Touch (Download) to download phone book from mobile device, at this time it will show the download tips on the screen of mobile device, touch OK for download, touch Cancel for not download.
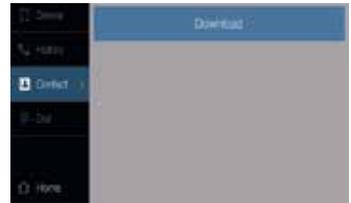
Call Out / Receive call

1. Dial the phone number for calling.
2. Select a name from the phone book to call.
3. Choose a record in the call history for calling.
4. When call is coming in, choose receiving or hanging up.

Hands-free mode and Private mode

During a call, touch (✳) and (🔲)to switch between Hands-free mode and private mode. Touch (🎙) to mute microphone so that the receiver cannot hear from your side.
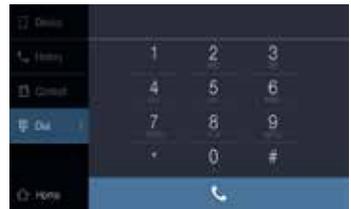
Disconnection

1. Touch the connected device name for disconnection.
2. Touch the dustbin next to the device name to disconnect.
3. End the connection directly on the mobile device.
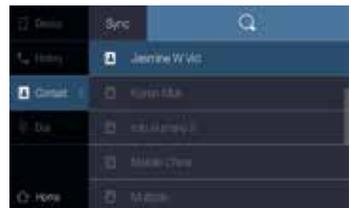
Bluetooth audio music

Supported format
The product supports A2DP, AVRCP, PBAP and HFP protocol.
Make sure Bluetooth device volume is turned to max.

1. Select the Bluetooth device to play music by
   streaming.

Play song
1. Select (✳) to show play song from Bluetooth.
2. Touch (⌂) to back to the main menu.
3. Touch (☰) to return to the list.
4. Touch (⊳⊳) or (⊲⊲)to view previous or next song.
5. Touch (▷) to play or pause the song.

Specifications

General
  Reference Supply Voltage ....12V(DC)
  Operating Voltage Range .... 9 - 16V(DC)
  Max Operating Current...5A
  Grounding System ....Car Battery Negative Pole
  Dimensions(WXHXD).. 178X100X170mm
  Weight(main unit) 1.4kg
FM
  Signal Noise Ratio ....≥55dB
  Residual Noise Sensitivity (S/N=30dB ....) ≤10dBμV
  Frequency Response (±3dB) .... 40Hz~12KHz
  Station Seeking Level.. 23±3dBμV
  Distortion .... ≤1.0%
  Stereo Separation (1KHz .... ≥25dB
  Antenna Impedance... 75Ω
AM
  Residual Noise Sensitivity (S/N=20dB) .... ≤28dBμV
  Selectivity (±9KHz .... ≥50dB
LCD
  Screen size.. 6.75 inches(16:9)
  Display resolution.. 800X480dots
Power output
  Distortion (line out.. ≤0.2%(RCA≤0.1%)
  Frequency Response (±3dB .... 50Hz~16KHz
  Maximum Output Power .... 4×40W
  Load Impedance 4Ω
AUX IN
  Distortion .... ≤0.5%
  Frequency Response (±3dB .... 50Hz~20KHz
  Audio Input Level 0.5Vrms
Audio
  Audio Output Impedance.. 100Ω
  Audio Output Level .... 2Vrms(Max)
Video
  Normal Video Input Level (CVBS .... 1.0±0.2V
  Video Input Impedance... 75Ω
  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

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.

Troubleshooting

When the machine fails
1. Recovery to factory settings or reset.
2. Try reigniting.
3. Please check the phenomena that are described in the table below and try to use the solutions.
4. Contact Service Center.

Machine/function	Phenomena	Solutions
Machine	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

Android Audio / USB Media

CAR PLAY

MIC

ANT GPS

REVERSE

PARKING

Rear view camera
Aux Input

Line output
(Front-Rear-Subwoofer)

Antenna FM/AM

Aux Audio/video input

Steering Wheel Control

Rear view camera
Aux Input

Aux Audio/video input

Line output
(Front-Rear-Subwoofer)

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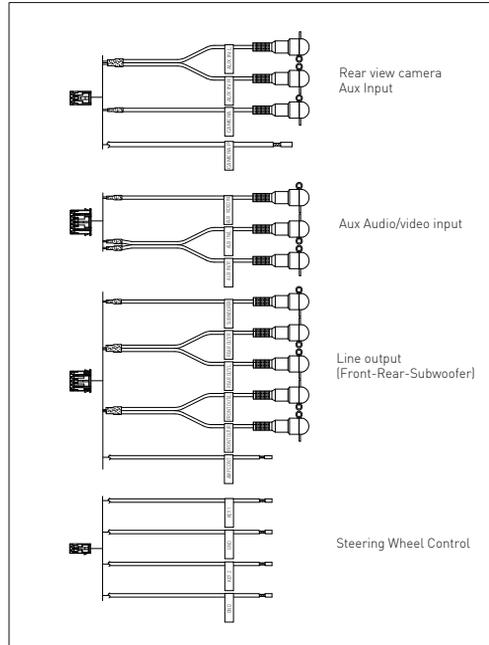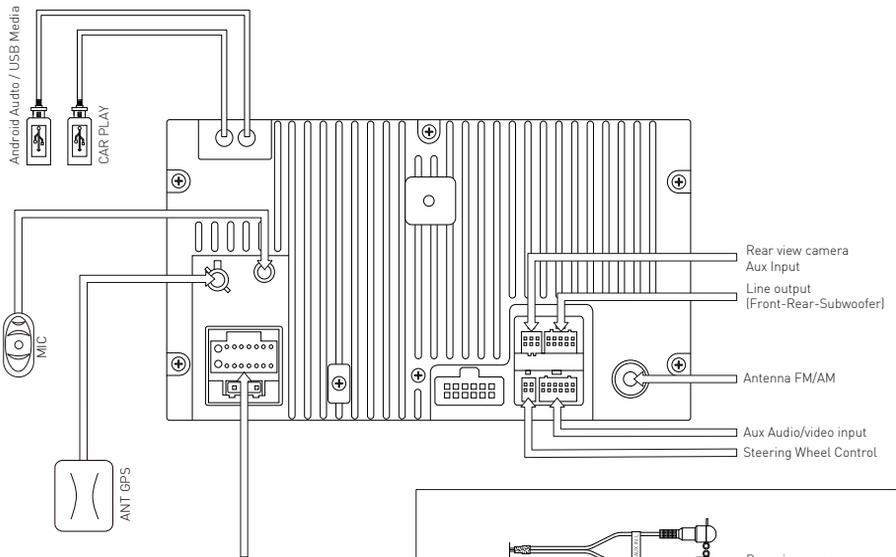
PIN NO.	Function	
	Connector A	Connector B
1	Rear right (+) / Purple	
2	Rear right (-) / Purple with black stripe	
3	Front right / Gray	
4	Front right (-) / Gray with black stripe	ACC+ / Red
5	Front left (+) / White	Antenna-Power Control/ Blue
6	Front left (-) / White with black stripe	Illumination /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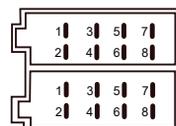
CONNECTOR A

CONNECTOR B

Declaration of Conformity

C E

Made in China

There are no restrictions of use.

The manufacturer Aldinet S.p.A declares that the type of radio equipment-Multimedia Navigation Receiver, model M-DL9000, 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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