

XOMAX

User manual XM-VN745

Thank you for purchasing one of our XOMAX products! We appreciate your confidence. Enjoy your brand new multimedia unit!



Please read the following manual carefully before you install and use the unit. Please save this manual in case you will need to clarify further possible questions regarding installation and usage of our product.

We are constantly trying to keep our online-library of user's manuals for our products up-to-date. In case you miss some information or if something should be unclear, please visit our homepage www.xomax.de/download for a current version of user's manual or contact our customer service.

Please note: Any alternations and changes of technical data or/and design due to technical update of some models need no advertisement.



We appreciate our environment, so to keep it safe and clean, we do not print our manuals on paper but provide our products with manuals in digital version created in *.pdf format.

You can find and download them anytime on our homepage www.xomax.de, view them on your mobile devices and print them for yourself if needed.

Manual's version 1.0

Last update %\$%\$201-

IMPORTANT NOTICE & PRECAUTIONS

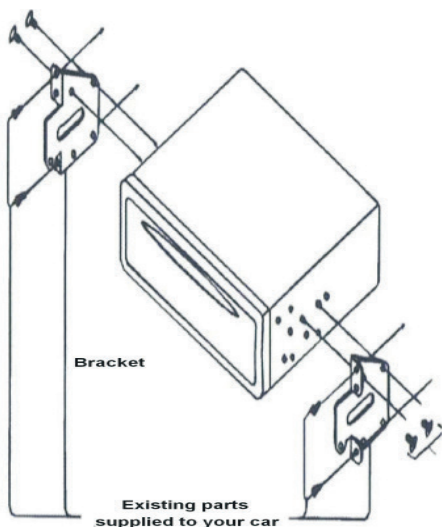
Thank you for using our company multi-media player! To operate the unit correctly, please read the operation manual carefully before using. Keep this operation manual for future reference.

The unit is designed only for DC 12V negative ground operation system. Make sure your vehicle is connected to DC 12V negative ground operation system. Be sure to connect the speaker(-) leads to the speaker(-) terminal. Never connect the left and right channel speaker wires together or to the vehicle body.

The normal temperature for operation is between -0° and $+40^{\circ}$ degree Celsius. Do not work in extreme high or low temperature and lock vents or radiator panels of the unit, blocking them will cause heat to build up inside the unit and may cause damage or fire.

This unit can play the following media files: AVI / RMVB / MP3 / WMA / MPEG 4 / JPEG

INSTALLATION



Notes:

- Installation varies on type of cars and supplied parts
- Store small articles in places not accessible to children
- Install only with the supplied screws
- Installation of unit by professional technician is strongly recommended

Remarks:

Mounting brackets and screws are the parts that supplied in your car and not provided in this unit.

Handling by stop only

To avoid any accidents please don't handle the unit while you driving. Please stop and park the vehicle at safety place and handle the unit casually.

Installation

Please read the following manual carefully before you install the unit. We recommend you to let the technician install the unit in your vehicle.

Regular loudness


Please set the loudness of the unit to the appropriate level so you were still able to hear exterior noises especially traffic warning signals. Furthermore the higher loudness level can damage your hearing organs.

Repair of the unit

Do not open the unit. Do not try to repair the unit by yourself due to any emerging technical problems. While opening the unit by yourself exists the danger to be electrocuted.

Do not use the unit any further since you detect any kind of technical problems.

Leave all the repair operations to professional technicians.

 Due to flawed warranty seal the warranty becomes invalid.

Power supply

Use the unit connected only to 12 Volt on-board power supply. The minus (-) should be connected with the ground (GND) (negative).

Due to the wrong configuration exists the danger of fire. In case of doubt please consult with professional technicians.

Replacement of fuses

While replacing the fuse please make sure that the new fuse has the same properties as the old one, especially the amperage.

Overheating

Do not occlude the vent holes to avoid the heat generation and accumulation in the unit. Otherwise exists the danger of fire.

Regular temperature

Please make sure that the temperature inside of the vehicle amounts to not more than +40 C.

If it's too cold or too hot inside of the vehicle, do not turn the unit on until the inside temperature of the cabin descends.

Cleaning of the unit

Please keep the unit clean and remove the dust from it regularly. Please use for that a soft and dry cleaning rag.

Major soilings can be removed carefully with the wet cleaning rag. Do not use any chemical or alcohol-containing detergents to avoid the damage of the unit's varnish.

Usage of the touchscreen


Do not press the touchscreen too hard – it may lead to image distortions, unit malfunctions and touchscreen damages.

Do not use any sharp articles to use the touchscreen. Please handle the touchscreen with your finger or with the appropriate stylus.

Moisture

To avoid the danger of fire or the electric shock do not put the unit in to the moist environment (e.g. adverse weather conditions, inappropriate wet cleaning etc.)

INSTALLATION

 We recommend you to let a professional technician install the unit in your vehicle.

WARNING!

Please read these advices carefully before installation procedure.

The damages caused by an inappropriate installation are not covered by warranty.

To avoid the risk of losing the warranty please let a specialist accomplish the installation of the unit.

» To avoid a short circuit please disconnect the vehicle battery before the installation. To do it properly please read the manual of the vehicle.

» Please be aware that this unit has an 1DIN standart size. Make sure that your vehicle is equipped with an installation cell of required size.

» As may be the case you will need a suitable faceplate, adapter or other accessories. These could be provided from your local specialist supplier.

» The connection cables may not be cutted or short-circuited. Otherwise the warranty becomes invalid.

» Before the installation please make sure that the vehicle has the 12 Volt on-board power supply.

» The minus (-) should be connected with the ground (GND) (negative).

» Please tag the polarity of the available speakers before you disconnect the vehicle battery.

» A proper grounding of the unit's housing requires a clean ground connection. Thus the grounding area should be rust-, stain- and dust-free.

» Please ground the cable separately from other heavy current devices such as an amplifier etc.

» Please ensure that the coloured cables are connected according to the wiring diagram. The wrong wiring may lead to malfunctions or even damages of the electric elements of the vehicle.

» Please note that the connection cables of this unit and of the other devices may have the same purpose but the different colour. For this reason while connecting this unit with the other devices please ensure that both of the cables in each case have the same purpose. To configure everything correctly please refer to the manuals of the both devices.

» Please ensure that the negative speaker cable is in each case plugged into the negative speaker socket of the ISO interface. Do not ever connect the negative speaker cables with the vehicle body.

» This unit is designed and construed for connection with 4 speakers. Do not combine this unit with devices that are designed and construed for connection with 2 speakers.

» The speakers should feature the impedance of 4-8 Ohm and a sufficient wattage.

» Please ensure that the speakers you are connecting with the unit are intact. Damaged speakers can impair the unit.

» To avoid a short circuit please isolate all cable junctions and endings of the unused cables with the electrical tape.

» All the cables should be layed and fixated tidy and properly. The cables should not contact any movable or hot objects.

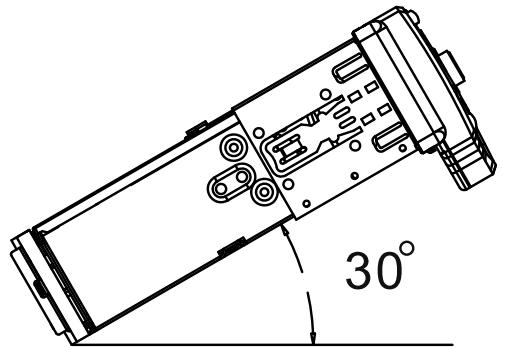
» If the vehicle doesn't have an "ACC" ignition position, please connect the red cable with the ignition switch. Otherwise the unit does not turn off automatically, causing the discharging of the vehicle battery.

» To avoid a rogue and hazardous short circuit do not lay the yellow cable through the engine bay in order to connect it with the vehicle battery.

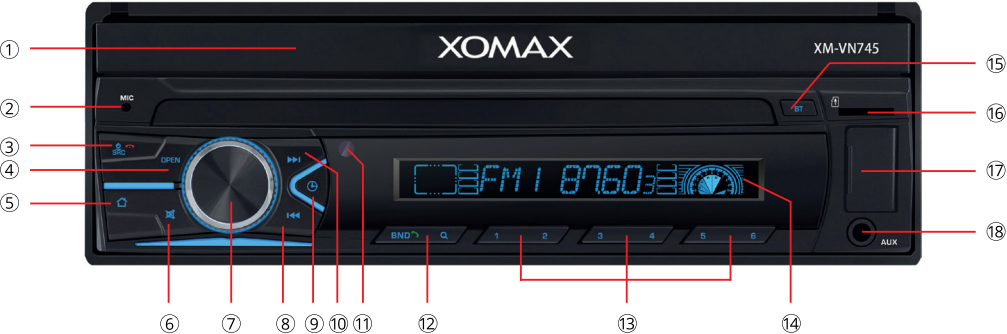
» Do not ever connect speaker cables among one another. In case you do not want to connect all the 4 speakers with the unit please isolate the endings of unused cables with the electrical tape to prevent a short circuit.

» Do not ever connect the negative speaker cables with the vehicle body.

» To ensure a flawless performance of the unit the intergration angle should amount to +/- 30°.



MAIN UNIT OPERATION

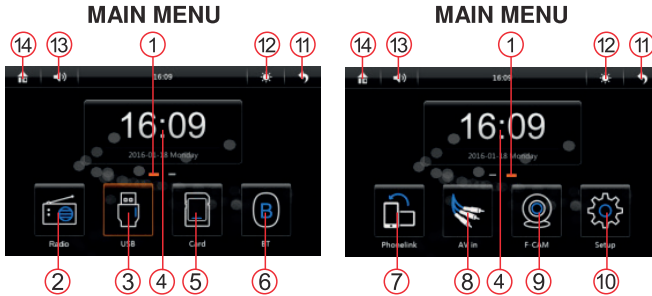


Symbol / Function	Operations & Controls
①	Display
② MIC	Bluetooth microphone
③	Power button/Mode selection/End or reject the call
④ OPEN	Retract or extend the monitor. Long press: adjust monitor angle
⑤	Press to shift between GPS navigation mode & current operation mode.
⑥	Mute
⑦	Volume knob (rotate). EQ settings (press)
⑧	Previous track
⑨	Clock settings
⑩	Next track
⑪	Infrared receiver
⑫ BND/AM/Q	Band button: FM1 and AM switch/Make phone call/Radio station search.
⑬ 1-6	Preset station
⑭	Subdisplay
⑮ BT	Bluetooth mode
⑯	Navi SD card slot for GPS map function
⑰	USB slot
	Insert USB device to this slot for digital files playback.
⑱ AUX	AUX-IN
	Insert an external device to this jack in order to have sound output of that external device through the unit.

Note
 Printings and symbols on the above may be varied from the exact main unit. Referred to the main unit for exact functions and features that applied. User is highly recommended to use the touch screen control to operate. Most of the operations of this unit cannot be controlled by the main unit.

ON SCREEN – MAIN MENU OPERATION

Touch top left corner of screen to enter to **MAIN MENU**.



Touch the icon on the desired mode on screen and the unit will then enter into the mode that selected for operation.

Hold & slide the operation icon on screen to shift to other **MAIN MENU** that shows the hidden input or operation icons.

1. Touch to shift to other **MAIN MENU** that shows the hidden input or operation icons.
2. Touch to start radio operation.
3. Touch to start USB input operation (when an USB device inserted).
4. Touch to activate Time settings
5. Not available
6. Touch to start Bluetooth operation (when connected to a mobile phone).
7. Touch to start auxiliary input operation (when an auxiliary device inserted).
8. Touch to activate mobile phone mirror link
9. Touch to activate front camera input (when connected to a front camera and front camera switch has been turned on). When front camera input has been activated, front camera view will be displayed on screen and:
 - ~ audio output of current operation mode will be retained (for operation modes with audio output only)
 - ~ audio output of current operation mode will be broadcasted 10 seconds later (for operation modes with visual output)
 - ~ audio & visual output of current operation mode will be broadcasted 10 seconds later (for operation with video output connected)
10. Touch to start various setup of the unit.
11. Touch to shift to previous menu or operation mode.
12. Touch repeatedly to select brightness of screen or turn off the screen. Turn off of screen is available under headlamp detection at OFF mode. When the screen is off, touch any portion of the screen to turn it on again. Following preset brightness modes can be selected.




At this mode, brightness of screen is set by the user (user setting – refer to SYSTEM SETUP & ILLUMINATION BACKLIGHT SETUP under ON SCREEN – SETUP OPERATION for detail).

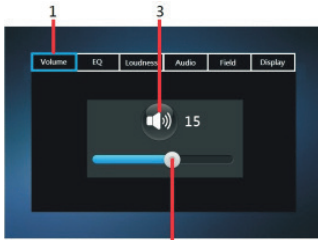


At this mode, brightness of screen is set by the user (user setting under headlamp detection at ON mode – refer to SYSTEM SETUP & ILLUMINATION BACKLIGHT SETUP under ON SCREEN – SETUP OPERATION for detail).

13. Touch to activate audio & visual setting for various audio & visual setup.
14. Touch to shift screen to **MAIN MENU**

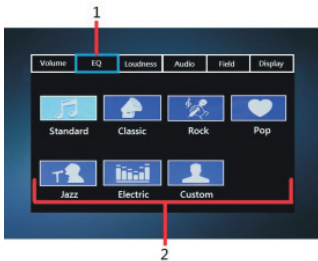
ON SCREEN – AUDIO & VISUAL SETTING

 During unit operation and when this icon appeared on screen, touch to activate audio & visual setting for various audio & visual setup.



Volume Control

1. Touch to shift to Volume Control Menu.
2. Hold & slide to adjust sound output level.
3. Touch to turn on or off of sound mute control.



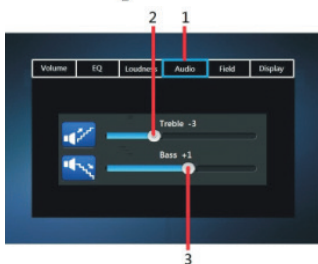
Preset Equalization Control

1. Touch to shift to Preset Equalization Control.
2. Touch to select the desired preset equalization mode. At Custom mode, it is set by the user (Refer to AUDIO SETUP under ON-SCREEN – SETUP OPERATON).



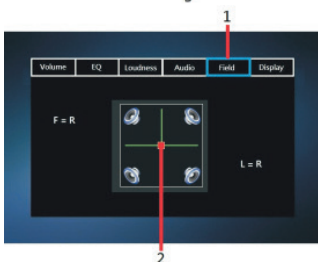
Loudness Control

1. Touch to shift to Loudness Control.
2. Touch to turn on or off of loudness.



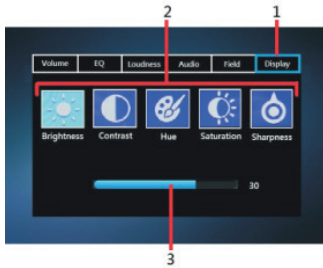
Audio Control

1. Touch to shift to Audio Control.
2. Hold & slide to adjust output level on treble.
3. Hold & slide to adjust output level on bass.



Field Control

1. Touch to shift to Field Control.
2. Hold & slide to set for the output level on left / right / front / rear speaker.



Visual Control

1. Touch to shift to Display Control.
2. Touch to select the desired setting mode on brightness, contrast, hue, saturation and sharpness.
3. At the desired setting mode, hold & slide to adjust the level.

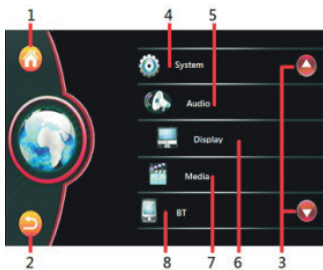
ON SCREEN – SETUP OPERATION



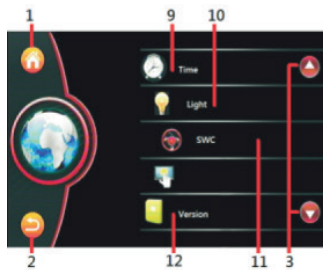
At **MAIN MENU**, touch to shift screen to **SETUP MENU** for various setup selection of the unit.

UNIT SETUP

SETUP MENU

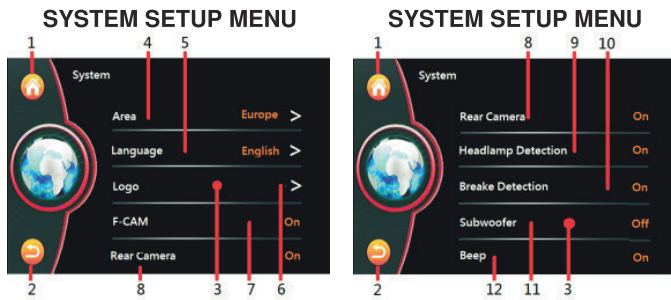


SETUP MENU



1. Touch to shift screen to **MAIN MENU**.
2. Touch to shift to previous menu or operation mode.
3. Touch to shift page up or down.
4. Touch to shift to **SYSTEM SETUP MENU** for various system setting (Refer to SYSTEM SETUP).
5. Touch to shift to **AUDIO SETUP MENU** for various audio setting (Refer to AUDIO SETUP).
6. Touch to shift to **VISUAL SETUP MENU** for various visual setting (Refer to VISUAL SETUP).
7. Touch to shift to **MEDIA SETUP MENU** for various media setting (Refer to MEDIA SETUP).
8. Touch to shift to **BLUETOOTH SETUP MENU** for various Bluetooth setting (Refer to BLUETOOTH SETUP).
9. Touch to shift to **CALENDAR SETUP MENU** for calendar & clock setting (Refer to CALENDAR & CLOCK SETUP).
10. Touch to shift to **LIGHT SETUP MENU** for various illumination backlight setting (Refer to ILLUMINATION BACKLIGHT SETUP).
11. Touch to shift to **SWC SETUP MENU** for steering wheel control setting (Refer to STEERING WHEEL CONTROL SETUP).
12. Touch to shift to **VERSION MENU** to show details of the unit (Refer to VERSION OF UNIT).

SYSTEM SETUP



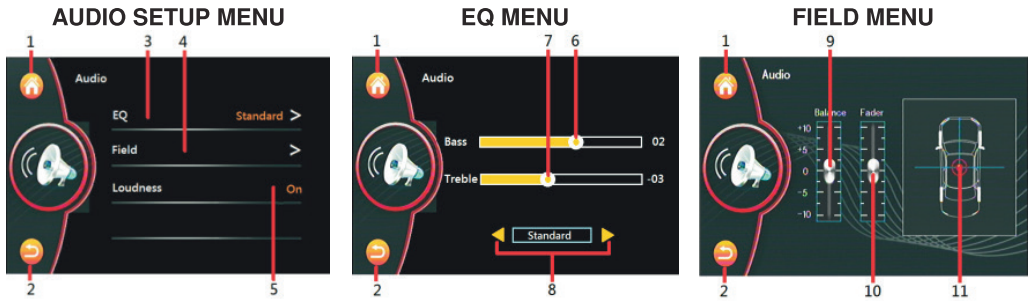
1. Touch to shift screen to **MAIN MENU**.
2. Touch to shift to previous menu or operation mode.
3. Hold & slide to show the hidden setting modes.
4. Touch to activate AREA INTERFACE to select the country or area located (for the radio frequency that suits the country or area that located).
5. Touch to activate LANGUAGE INTERFACE to select the desired system language on screen.
- 6.
7. Touch to turn on or off of front camera input (when front camera and the pink/black wire connected):
 - ~ when the front camera input is turn on and the car is shifted from backward mode to forward mode, front camera input will be display for 10 seconds
 - ~ the default setting after first installation is off and at this moment, no front camera input will be display when the car is shifted from backward mode to forward mode
8. Touch to turn on or off of rear camera input (when rear camera and the pink wire connected).
9. Touch to turn on or off of headlamp detection of the car (when the orange wire connected with the on/off of car headlamp).

ON mode: when the headlamp of the car turned on, brightness of screen will shift to the default setting by user. User can also adjust the brightness of screen at this mode (refer to ILLUMINATION BACKLIGHT SETUP for details)

OFF mode: when the headlamp of the car turned on, brightness of screen will not be affected

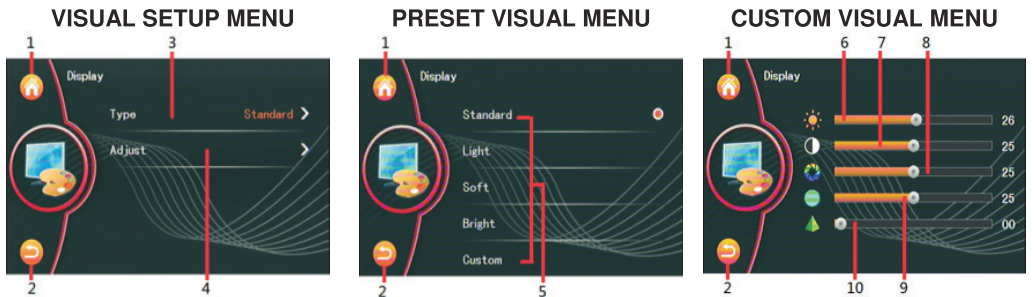
Remark: Backlight illumination of the unit will only be activated when the headlamp detection is turn on and the orange wire connected
10. Touch to turn on or off of allowing watching video during driving (when the brake – brown wire has not been connected).
11. Touch to turn on or off of sub-woofer output.
12. Touch to turn on or off of beep sound when touching on screen for control.

AUDIO SETUP



1. Touch to shift screen to **MAIN MENU**.
2. Touch to shift to previous menu or operation mode.
3. Touch to activate **EQ MENU** for equalization setting.
4. Touch to activate **FIELD MENU** for sound output setting on balance & fader.
5. Touch to turn on or off of loudness control.
6. Hold & slide to set for output level on bass.
7. Hold & slide to set for output level on treble.
8. Touch repeatedly to select the desired preset equalization mode.
9. Hold & slide to adjust the output level between left & right speaker.
10. Hold & slide to adjust the output level between front & rear speaker.
11. Hold & slide to set for the desired output level between left & right speaker as well as front & rear speaker.

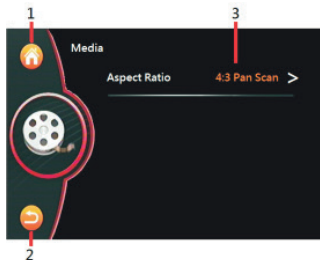
VISUAL SETUP



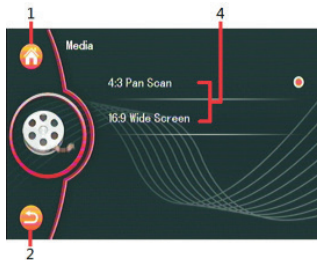
1. Touch to shift screen to **MAIN MENU**.
2. Touch to shift to previous menu or operation mode.
3. Touch to activate **PRESET VISUAL MENU** for preset visual setting.
4. Touch to activate **CUSTOM VISUAL MENU** for visual setting.
5. Touch to select the desired preset visual mode of screen.
(Note: At "Custom" mode, visual setting on brightness, contrast, hue, saturation & sharpness are made by user under **CUSTOM VISUAL MENU**)
6. Hold & slide to adjust brightness of screen.
7. Hold & slide to adjust contrast of screen.
8. Hold & slide to adjust hue of screen.
9. Hold & slide to adjust saturation of screen.
10. Hold & slide to adjust sharpness of screen.

MEDIA SETUP

MEDIA SETUP MENU



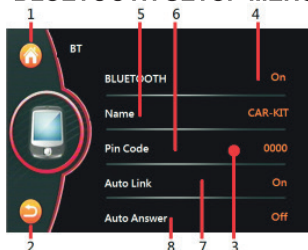
ASPECT RATIO MENU



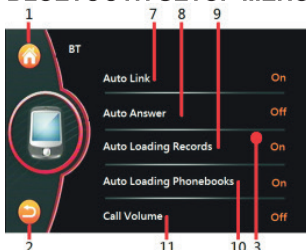
1. Touch to shift screen to **MAIN MENU**.
2. Touch to shift to previous menu or operation mode.
3. Touch to activate **ASPECT RATIO MENU** to select aspect ratio of screen for viewing.
4. Touch to select the desired aspect ratio of screen for viewing.

BLUETOOTH SETUP

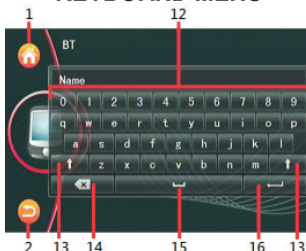
BLUETOOTH SETUP MENU



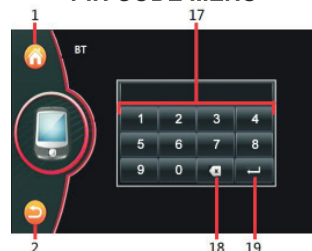
BLUETOOTH SETUP MENU



KEYBOARD MENU



PIN CODE MENU

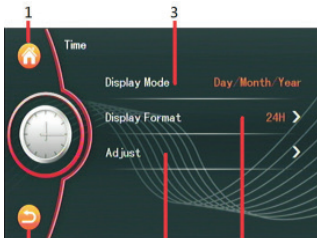


1. Touch to shift screen to **MAIN MENU**.
2. Touch to shift to previous menu or operation mode.
3. Hold & slide to show the hidden Bluetooth setup modes.
4. Touch to turn on or off of Bluetooth operation mode.
5. Touch to activate **KEYBOARD MENU** for renaming the device (default name "CAR-KIT").
6. Touch to activate **PIN CODE MENU** for changing the pin code of the device.
(Note: Default pin code "0000" or "8888").
7. Touch to turn on or off of auto linking between the car unit and mobile phone when the car unit turned on again after power off.

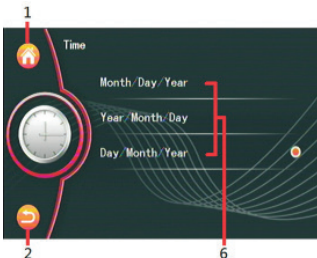
8. Touch to turn on or off of auto answer when receiving incoming call.
9. Touch to turn on or off of automatic loading record of incoming calls / dial out numbers / missing calls of the mobile phone to the car unit.
(Note: Loading of record will start automatically when the unit linked up with the mobile phone & shift to **BT RECORD MENU** at the first time – refer to ON SCREEN – BLUETOOTH OPERATION for details)
10. Touch to turn on or off of automatic loading phone book of the mobile phone to the car unit.
(Note: Loading of phone book will start automatically when the unit linked up with the mobile phone & shift to **BT PHONE BOOK MENU** at the first time – refer to ON SCREEN – BLUETOOTH OPERATION for details)
11. Touch to turn on or off of the default volume level during Bluetooth conversation.
ON mode: volume level at Bluetooth conversation is shifted to the default volume level
OFF mode: volume level at Bluetooth conversation is the same level at current volume level
Note: Volume level can be adjusted at any time during Bluetooth conversation
12. Touch to input the new name of the device.
13. Touch to shift between capital letter & small letter.
14. Touch to erase the digit / letter input by error.
15. Touch for spacing.
16. Touch to confirm the input.
17. Touch to input the new pin code of the device.
18. Touch to erase the digit input by error.
19. Touch to confirm the input.

CALENDAR & CLOCK SETUP

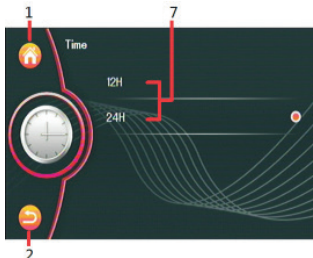
CALENDAR SETUP MENU



CALENDAR FORMAT MENU



CLOCK FORMAT MENU



SETTING MENU

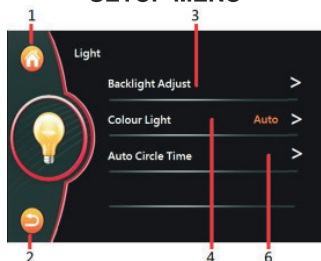


1. Touch to shift screen to **MAIN MENU**.
2. Touch to shift to previous menu or operation mode.
3. Touch to activate **CALENDAR FORMAT MENU** for date / month / year format setting.
4. Touch to activate **CLOCK FORMAT MENU** for 12H / 24H display format setting.

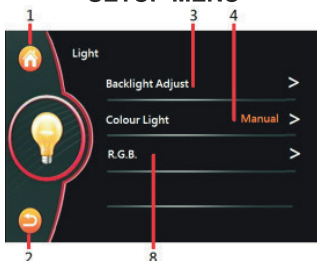
5. Touch to activate **SETTING MENU** for calendar & clock setting.
6. Touch to select calendar display format.
7. Touch to select clock display format.
8. Touch repeatedly to set for calendar & clock.

ILLUMINATION BACKLIGHT SETUP

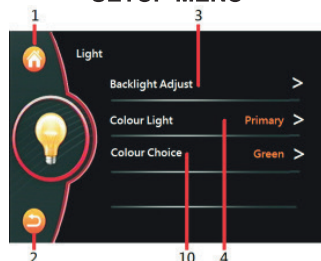
LIGHT (AUTO) SETUP MENU



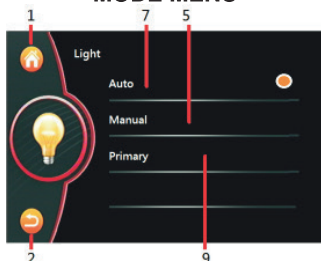
LIGHT (MANUAL) SETUP MENU



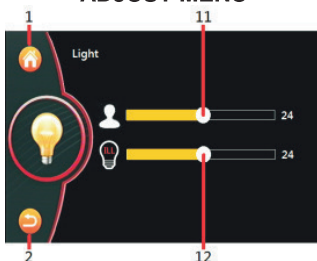
LIGHT (PRIMARY) SETUP MENU



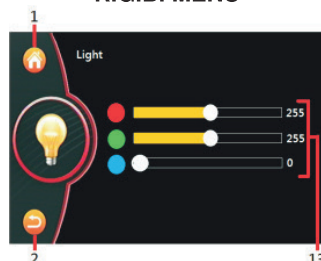
MODE MENU





ADJUST MENU



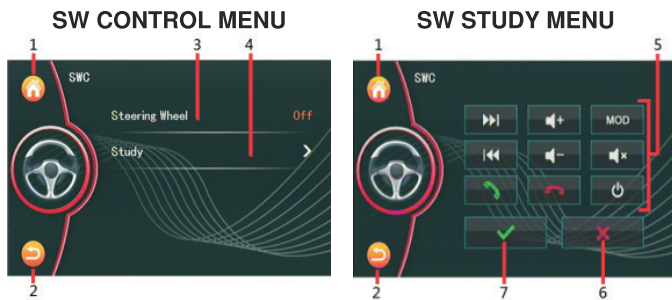
R.G.B. MENU



1. Touch to shift screen to **MAIN MENU**.
2. Touch to shift to previous menu or operation mode.
3. Touch to activate **ADJUST MENU** to adjust backlight illumination.
4. Touch to activate **MODE MENU** to select illumination mode (auto / manual / primary).
5. Touch to select **MANUAL MODE** for R.G.B. colour setting.
6. When **AUTO MODE** selected, touch to activate **AUTO CYCLE TIME INTERFACE** to select the time for automatic backlight change.
7. Touch to select **AUTO MODE** for automatic backlight change (cycle change).
8. When **MANUAL MODE** selected, touch to activate **R.G.B. MENU** for R/G/B adjustment.
9. Touch to select **PRIMARY MODE** to select a single colour illumination.
10. When **PRIMARY MODE** selected, touch to activate **COLOUR INTERFACE** to select a single colour for illumination.
11. Hold & slide to set brightness of screen when brightness of screen is set at **USER MODE** (refer to **ON SCREEN – MAIN MENU OPERATION**): 
12. Hold & slide to set brightness of screen when brightness of screen is set at **USER SETTING MODE** under headlamp detection at **ON mode** (refer to **ON SCREEN – MAIN MENU OPERATION**): 
13. At **R.G.B. MENU**, hold & slide to adjust the desired R / G / B colour.

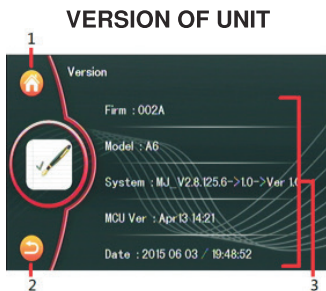
Note: Backlight illumination is synced with the on/off of the car lamp. Orange wire should be connected to the on/off of car lamp

STEERING WHEEL CONTROL SETUP



1. Touch to shift screen to **MAIN MENU**.
2. Touch to shift to previous menu or operation mode.
3. Touch to turn on or off of steering wheel control (when the steering wheel control wires – grey & green as well as the ground wire connected).
4. Touch to activate **SW STUDY MENU** for steering wheel control learning & setting.
Steps for learning & setting:
 - ~ touch any control key “5” on screen
 - ~ press & hold the respective control of the steering wheel of the car
 - ~ the unit starts learning and once completed, indicator appears on screen
 - ~ follow the above steps to set for all other controls
 - ~ when completed, press “7” to confirm the setting
 - ~ press “6” to cancel the setting
5. These show items available for setting.
6. Touch to cancel the setting.
7. When study & setting completed, touch to confirm the setting.

VERSION OF UNIT



1. Touch to shift screen to **MAIN MENU**.
2. Touch to shift to previous menu or operation mode.
3. These show the software version of unit.

Note: The **VERSION OF UNIT** is used to show the details of unit. This is not available for setting.

ON SCREEN – RADIO OPERATION



At **MAIN MENU**, touch to shift screen to **RADIO MENU** for radio operation.

RADIO MENU



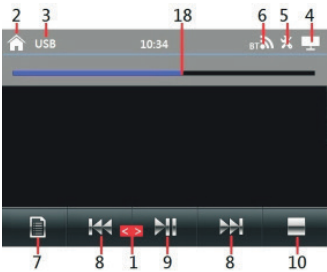
1. Touch to shift screen to **MAIN MENU**.
2. Touch to mute the unit.
3. Touch to shift to previous menu or operation mode.
4. Touch repeatedly to select desired radio band for broadcasting.
5. Touch to tune the radio frequency to upward or downward station for broadcasting. Repeatedly touch & hold shortly to fine tune the radio frequency upward or downward.
6. Touch to start searching the radio frequency & storing the strongest signal stations into memory stations (P1 – P6). After one cycle searched, the unit starts intro broadcasting of the preset memory stations for a few seconds.
7. Touch to start intro broadcasting of the preset memory stations for a few seconds. Touch again to stop this intro broadcasting.
8. Touch repeatedly to fine tune radio frequency upward or downward.
9. Touch to choose FM1/FM2/FM3/AM1 and AM2
10. Touch to start intro broadcasting of the preset memory stations
11. Touch to select local (LOC) setting for reception of strong signal stations and a distant setting for reception of weak stations. When local (LOC) setting is selected, LOC will appear on screen and this is no indication for distant setting.
12. Touch the desired preset station number (P1 – P6) to start broadcasting of the selected station. Touch & hold shortly the preset station number can store the current broadcasting station (frequency) into that station number.

ON SCREEN – USB INPUT OPERATION

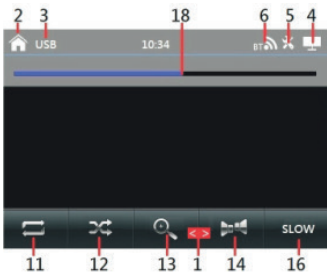


At **MAIN MENU**, touch to shift to multi-media playback mode and playback will start automatically. Depends on the input device and playback media, touch on screen (at music playback, touch repeatedly on screen) to show various playback menus for operation.

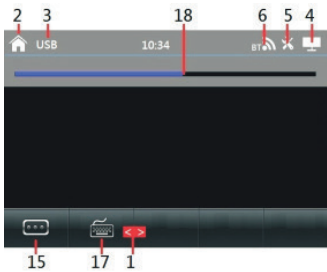
VIDEO PLAYBACK MENU 1



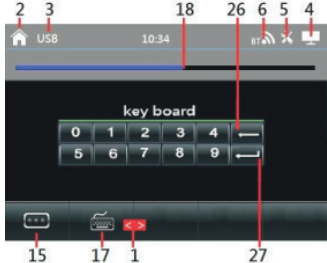
VIDEO PLAYBACK MENU 2



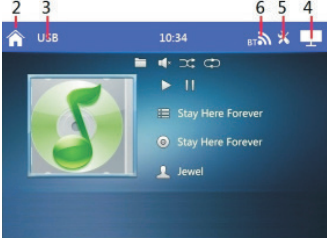
VIDEO PLAYBACK MENU 3



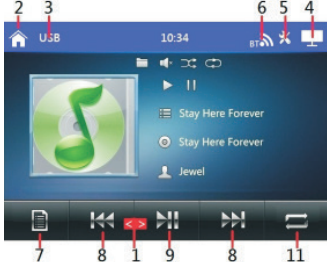
KEYBOARD MENU



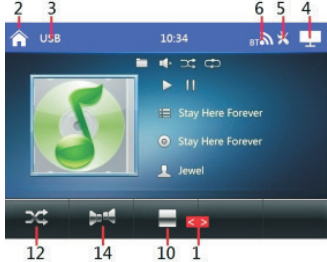
MUSIC PLAYBACK MENU 1



MUSIC PLAYBACK MENU 2



MUSIC PLAYBACK MENU 3



MUSIC PLAYBACK MENU 4

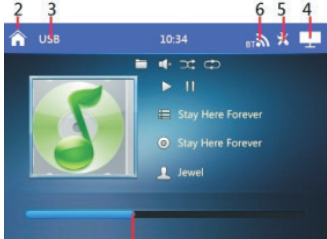


PHOTO PLAYBACK MENU 1

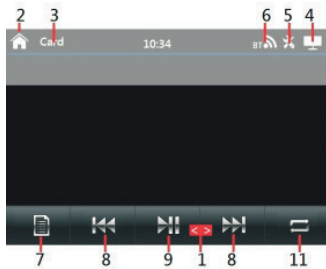
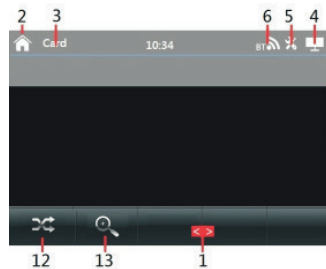
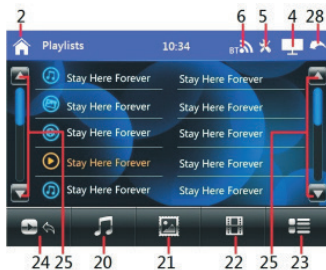


PHOTO PLAYBACK MENU 2



FOLDER PLAYLIST



PLAYLIST



1. Hold & slide to show the hidden operation icons for operation.
2. Touch to shift screen to **MAIN MENU**.
3. This shows the current input device for playback USB.
4. Touch to turn off the screen. When the screen turned off, touch any portion of the screen to turn on the screen.
5. Touch to activate audio & visual setting for various audio & visual setup (refer to ON SCREEN – AUDIO & VISUAL SETTING for details).
6. Touch to shift to Bluetooth mode for operation (available when a mobile phone connected).
7. Touch to activate **PLAYLIST / FOLDER PLAYLIST** (available for input device recorded with folder) to select folder / track for playback.
8. Touch to shift to next or previous track for playback.
At video playback mode, repeatedly touch & hold shortly to activate various fast forward or fast rewind mode.
9. Touch to start, pause or resume playback.
10. Touch to stop playback temporary and will shift to playlist for playback selection. Touch twice on the selected track for playback or normal playback will resume after a while.
11. Touch repeatedly to select repeat playback mode.
12. Touch to turn on or off of random playback of the input device.
13. Touch repeatedly to zoom in and zoom out of screen for viewing.
14. Touch repeatedly to select the audio output channels that recorded in the playback device.
15. Touch repeatedly to select different sub-titles that recorded in the playback device.
(Note: Depended on the input device & playback media, this function may not be available)
16. Touch repeatedly to select different speeds of slow motion playback.
17. Touch to activate **KEYBOARD MENU** to input track number directly for playback.

18. At video playback mode, hold & slide to select the position (time) for playback.
19. At music playback mode, hold & slide to select the position (time) for playback.
20. Touch to select music playback at **FOLDER PLAYLIST / PLAYLIST** provided the playback device recorded with music files.
21. Touch to select photo playback at **FOLDER PLAYLIST / PLAYLIST** provided the playback device recorded with photo files.
22. Touch to select video playback at **FOLDER PLAYLIST / PLAYLIST** provided the playback device recorded with video files.
23. Touch to shift to **FOLDER PLAYLIST** or **PLAYLIST** to select desired folder or file for playback. To start playback, touch twice on the selected track.
24. Touch to shift to previous **FOLDER PLAYLIST / PLAYLIST** or beginning of the folder list / playlist.
25. Touch to shift page up or down.
26. Touch to erase the digit input by error.
27. Touch to confirm after input the number of track for playback.
28. Touch to shift back to **PLAYBACK MENU**.

ON SCREEN – BLUETOOTH OPERATION



At **MAIN MENU**, touch on screen to shift to Bluetooth operation.



During unit operation, touch on screen to shift to Bluetooth operation.

LINK UP WITH MOBILE PHONE

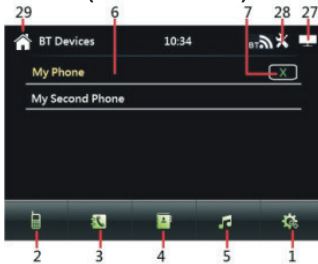
To linkup Bluetooth connection with the mobile phone, take your phone and follow the steps:

- set the mobile phone to Bluetooth state
- start to search new device
- after searched, new device (CAR-KIT or similar) searched out, confirm the search
- in case of need, input default code “0000” or “8888” in the mobile phone
- at the same time, Bluetooth icon & **BT DEVICES MENU** appeared on screen
- connection succeeded and you can start using Bluetooth function

BT DEVICE MENU (NO CONNECTION)



BT DEVICE MENU (CONNECTED)



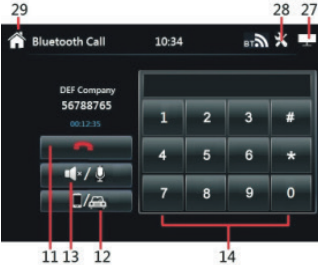
BT DIAL MENU



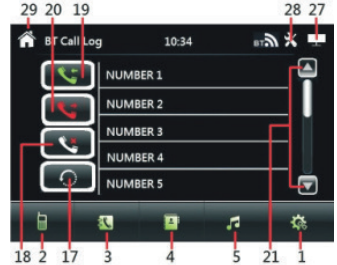
BT INCOMING CALL MENU



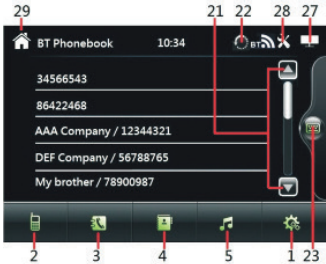
BT CONVERSATION MENU



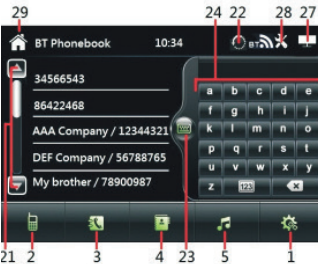
BT RECORD MENU



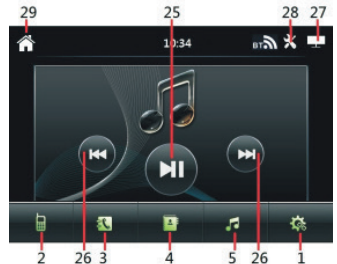
BT PHONE BOOK MENU



BT PHONE BOOK SEARCH MENU



BT MUSIC MENU



1. Touch to shift to **BT DEVICE MENU** to show the current status on connection.
2. Touch to shift to **BT DIAL MENU** for dial out of phone.
3. Touch to shift to **BT RECORD MENU** to show the record on incoming calls / dial out numbers / missing calls of the connected mobile phone.
4. Touch to shift to **BT PHONE BOOK MENU** to show the phone book of the connected mobile phone.
5. Touch to shift to **BT MUSIC MENU** for transmission of music playback from the connected mobile phone.
6. Touch to select the linked up device.
7. Touch to delete the linked up device.
8. Touch to input the phone number.
9. Touch to erase the digit input by error.
10. Touch to dial out after input the phone number or redial when no phone number input.
11. Touch to hang up or refuse an incoming call.
12. Touch to shift conversation between mobile phone & Bluetooth of the unit.

13. Touch to turn on or off of sound muting of the microphone.
14. Touch to input digit (for conversation that needs data input).
15. Touch to hang up or refuse an incoming call.
16. Touch to pick up an incoming call.
17. Touch to download incoming calls / dial out numbers / missing calls of the connected mobile phone.
18. Touch to show list of missing calls.
19. Touch to show list of incoming calls.
20. Touch to show list of dial out numbers.
21. Touch to shift page up or down.
22. Touch to download the phone book of the mobile phone to the unit.
23. Touch to activate or close **BT PHONE BOOK SEARCH MENU** to search for the contact person or number.
 Note 1: Available in English (for 1st letter only) and digit search only
 Note 2: After input the English letter, list of contact with this English letter will appear, use page up / page down to search for the contact
24. Touch to input the digit or the letter for searching.
25. Touch to start / pause / resume music playback transmitted from the mobile phone.
26. Touch to select upward or downward track for playback.
27. Touch to turn off the screen. When the screen turned off, touch any portion of the screen to turn on the screen.
28. Touch to activate audio & visual setting for various audio & visual setup.
29. Touch to shift screen to **MAIN MENU**.

Remarks: Depends on the system language set on the unit, list of phone book / incoming call / dial out call / missing call will not be display correctly.

ON SCREEN – AUXILIARY INPUT OPERATION



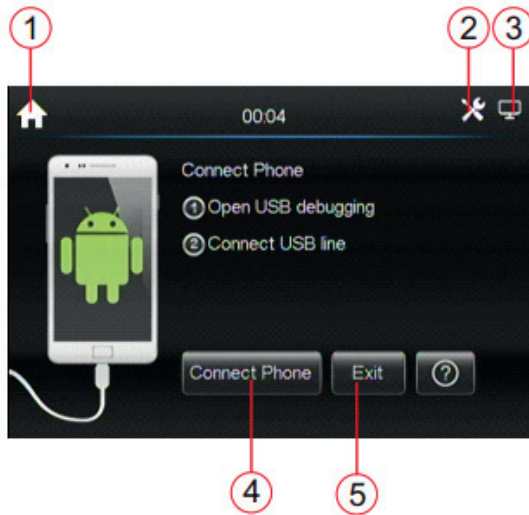
At **MAIN MENU**, touch to shift to auxiliary input operation (provided an auxiliary video device had been connected). At auxiliary input operation, touch any portion of screen to activate **AV INPUT MENU** for operation.

AV INPUT MENU



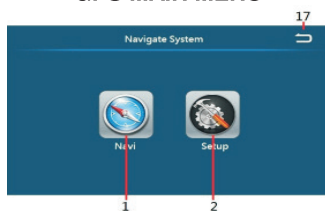
1. Touch to turn off the screen. When the screen turned off, touch any portion of the screen to turn on the screen.
2. Touch to activate audio & visual setting for various audio & visual setup (refer to ON SCREEN – AUDIO & VISUAL SETTING for details).
3. Touch to shift to Bluetooth mode for operation (available when a mobile one connected).
4. Touch to shift screen to **MAIN MENU**.

Mirror Link Function

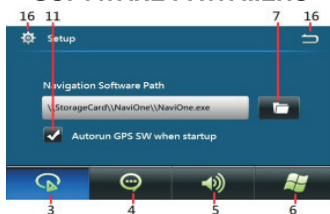


1. Touch to return to the main menu
2. Turn to audio setting
3. Touch to off the screen
4. Touch to connect with mobile phone(make sure the mobile phone connected with the device with USB cable, ONLY supported with Android system mobile phone.)
5. Touch to exist the connection

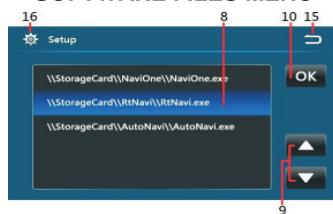
GPS MAIN MENU



SOFTWARE PATH MENU



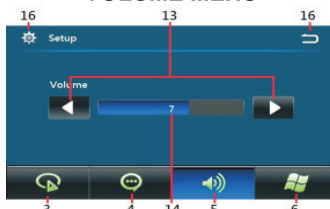
SOFTWARE FILES MENU



LANGUAGE MENU



VOLUME MENU



VERSION MENU



1. Touch to start navigation (when navigation software path has been set) or to shift to **SOFTWARE PATH MENU** to select navigation software path.
2. Touch to shift to **SOFTWARE PATH MENU** to select navigation software path.
3. Touch to shift to **SOFTWARE PATH MENU** to select navigation software path.
4. Touch to shift to **LANGUAGE MENU** to select on screen language at GPS mode.
5. Touch to shift to **VOLUME MENU** to set volume output at GPS mode.
6. Touch to shift to **VERSION MENU** to view the GPS system version. (Note: This menu is not available for setting)
7. Touch to shift to **SOFTWARE FILES MENU** to select navigation software path.
8. Touch to select the desired navigation software path.
9. Touch to shift page up or down.
10. Touch to confirm the selected navigation software path.
11. Touch to turn on or off of auto run the selected GPS software path when GPS startup.
12. Touch repeatedly to select on screen language at GPS mode.
13. Touch repeatedly to set for the volume output at GPS mode.
14. Hold & slide to set for the volume output at GPS mode.
15. Touch to shift to **SOFTWARE PATH MENU**.
16. Touch to shift to **GPS MAIN MENU**.
17. Touch to shift to **MAIN MENU** to select other operation mode. In case no selection made, the unit will shift to MENU of the current operation mode.

SPECIFICATION

GENERAL

Power Requirement:	DC 12 Volts, negative ground
Load Impedance:	4 Ohms
Maximum Power Output:	60 watts x 4 channels

RADIO SECTION

Frequency Range:	AM Section		FM Section	
Area:	Frequency	Stepping	Frequency	Stepping
Europe	522 -1620 KHz	9 KHz	87.5 – 108 MHz	50 KHz
OIRT	522 – 1620 KHz	9 KHz	65 – 74 MHz	30 KHz
Australia	522 – 1710 KHz	9 KHz	87.5 – 108 MHz	100 KHz
Middle East	531 – 1602 KHz	9 KHz	87.5 – 108 MHz	100 KHz
America 1	530 – 1620 KHz	10 KHz	87.5 – 108 MHz	50 KHz
America 2	530 – 1620 KHz	10 KHz	87.5 – 107.9 MHz	100 KHz
America 3	530 – 1710 KHz	10 KHz	87.5 – 107.9 MHz	100 KHz
America 4	530 – 1710 KHz	10 KHz	87.5 – 108 MHz	50 KHz
Japan	522 – 1629KHz	9 KHz	76 – 90 MHz	50 KHz
Brazil	520 – 1710 KHz	10 KHz	87.5 – 108 MHz	100 KHz
China	522 – 1620 KHz	9 KHz	87.5 – 108 MHz	50 KHz
IF:	450 KHz		10.7 MHz	

Mounting Angle	+/- 30°
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VIDEO & TV SECTION

Video & TV System:	PAL / SECAM / NTSC
Video Output Level:	1.0Vp-p 75 Ohms
Horizontal Resolution:	500

BLUETOOTH SECTION

Communication type:	V2.0
Maximum Distance:	5 meters

AUDIO SECTION

Maximum Output Level:	2 Vrms (+/-3 dB)
Frequency Response:	20 Hz to 20 KHz
Signal to Noise Ratio:	85 dB
Channel Separation:	80 dB

Note: Specification and design; functions and features; unit illumination; colour and display segment are subject to change without prior notice. Photos and drawings on gift box or operation manual might be varied from the exact unit. Depends on the input devices, operation might be varied from the operation manual described.

COMMON SOLUTION

The following advices are generally valid and refer to diverse car radios models with the similar characteristics. Please note that some articles may refer not to your model exactly and contain the description of features and functions that your model does not support.

The description of the problem	The cause and the solution
The remote control is without function.	<p><i>Solution 1:</i> Please ensure that the battery film is removed. By delivery the battery is protected by a film which should be removed before usage.</p> <p><i>Solution 2:</i> The battery could be empty. Please replace it if required.</p> <p><i>Solution 3:</i> Please make sure that the infrared receiver (labelled with IR) on the control panel is not blocked.</p> <p><i>Note:</i></p> <p>You can test the functionality of the remote control as follows: please hold the IR transmitter towards a camera (e.g. a cell phone camera) and press any button on the remote control. If the remote control is operative you can see the infrared signal on the display of the used camera device.</p>
The unit does not turn on.	<p>This problem is in most cases caused due to a wrong connection of the ISO cable. Please review the pin assignments of the ISO cable and ISO plug. Pay attention to the proper connection of the ignition- and steady plus and correct the discrepancy if required.</p> <p><i>Note:</i> Though the design of ISO plug is standardized, it's pin assignment is not and may vary. Thus in case of mismatch of connections due to different pin assignments a simple plug'n'play connection may lead to grievous errors.</p>

<p>Poor radio reception: The radio tuner finds no broadcaster or the reception is poor.</p>	<p>For problem-solving regarding the radio reception it is important to know the type of the antenna of your vehicle.</p> <p>Here are the possible solutions for each type of the antenna:</p> <p>Type 1 – passive antenna: We recommend you to substitute the existing antenna by the larger and therefore more efficient one.</p> <p>Shark fin or rod antennas (under 5 cm) are definitely insufficient.</p> <p>Type 2 – active antenna: The vehicle provides no current for the active antenna. In this case a phantom power is required, which provides the active antenna with the external power supply.</p> <p>Type 3 – active antenna with diversity system: The unit provides no current for the active antenna and has no diversity support. For this type of antenna is required the phantom power with an integrated diversity system.</p> <p><i>Note:</i> A phantom power is not to be confused with an antenna amplifier which is far less efficient.</p>
<p>Radio stations are lost: As soon as the unit will be turned off all the stored stations and users settings will be lost.</p>	<p>This problem is caused due to a wrong connection of the ISO cable.</p> <p>Please interchange the cables for ignition plus and for steady plus.</p> <p><i>Caution:</i> If these wires have fuses the latter should be interchanged as well.</p>

REGULATION

Recycling of an old unit

User information regarding recycling of electric and electronic devices (private households)



WEEE DE19856609

This symbol on products or in their manuals implies that electric and electronic devices at the end of their service life should be separated from the domestic waste.

Please hand these products for recycling at municipal collection points free of charge.

The proper disposal of these products contributes to environment protection. To find the nearest collection point or recycling yard please consult your municipal administration.

Recycling of the battery

According to the battery decree we make you aware of your obligation to dispose of empty batteries at municipal collection points.

Batteries that contain pollutants (e.g. Hg = mercury, Pb = lead, Cd = cadmium) are labelled with the symbol pictured above.

At our place you can free dispose of the empty batteries purchased at our store.