



BV960NV USER'S MANUAL

BLUETOOTH® | BUILT-IN NAVIGATION
DVD/MP3/CD AM/FM RECEIVER
FEATURING 6.2" (157 mm) WIDESCREEN
TOUCHSCREEN DIGITAL TFT MONITOR



To ensure safety while driving
and to comply with laws,
drivers should not watch video or
operate the video device while driving.

Congratulations on your purchase of a **Boss Audio Systems®**

Multimedia Receiver.

It has been designed, engineered and manufactured to bring you the highest level of performance and quality, and will offer you years of entertainment pleasure.

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SPECIFICATIONS

Model No.	BV960NV		
General features	Fixed front panel 6.2 inch TFT screen GPS FM/AM Radio RBDS DVD fully compatible with DVD/VCD/CD/MP3/MPEG4/JPEG Front USB&SD reader support Built-in Bluetooth AUX Input AV Input Video Output Front/Rear view camera Front,Rear and Subwoofer Pre-Amp.Output 4*80W AMP power output maximum Steering wheel control		
TFT screen	800*480pixel		
SD	32G		
Working power	12V		
Max Output	4*80W		
Working Temperature		-20℃~70℃/-4 ° F~158° F	
Size	6.71"*3.8"*5.67"(170.5*96.5*144mm)		
Weight	1.86kg / 4.1lbs		
Compatible Media			
Picture	JPG/JPEG/BMP		
Disc	CD/CD-R/CD-RW/DVD/DVD±R/DVD±RW		
Audio file	MP3/WAV		
Video file	Format	Video code	Audio code
	.MPEG1	MPEG1	MP2
	.MPG	MPEG2	MP2

SAFETY NOTICE

Please read and understand the following safety information before operating this unit.

- ⊘ The device is suitable for 12V power supply (requires grounding). Do not connect it to 24V power supply in trucks or buses, or else it will be damaged.
- ❗ Please use genuine discs instead of incompatible discs, or it will damage the device and/or shorten the service life.
- ❗ Without the guide of qualified personnel, do not replace the fuse, or else it may damage the device or cause fire.
- ⚠ Please follow the traffic laws and regulations and do not watch programs or operate the device when you are driving, to avoid accidents(excluding passengers watching through rear monitor).
- ❗ To ensure safety and operate the device normally, please ask qualified personnel to install the device. Do not disassemble or repair the device without authorization, to avoid damage and accidents. please contact a local car audio distributor for details.
- ⊘ Do not put the device in a moist environment or water, to avoid electric shock, damage and/or fire due to a short circuit.
- ⊘ The mechanical drive part of the monitor uses an automatic precision transmission component. Do not pull, push or rotate the device by force or impact the TFT screen to avoid damaging the device.
- ❗ Do not insert the audio plug of the vehicle into the master unit directly. Please convert with the dedicated end cable provided by our company.
- ❗ When installing the unit, prevent metal objects from falling into the master unit from the vents to avoid a short circuit and damaging the device.

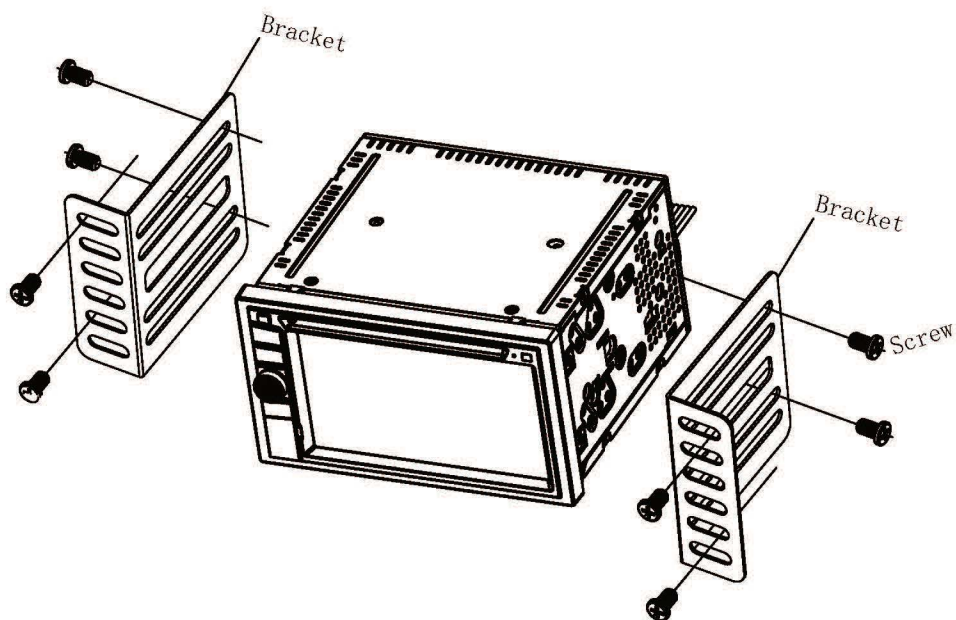
Safety Statement

- ⊘ For the safety of yourself and others, do not watch programs or operate the device when you are driving. It is prohibited by law.
- ❗ The back up monitor function should be used as an auxiliary view only. We are not responsible for any accidents occurred during backing.

ACCESSORIES

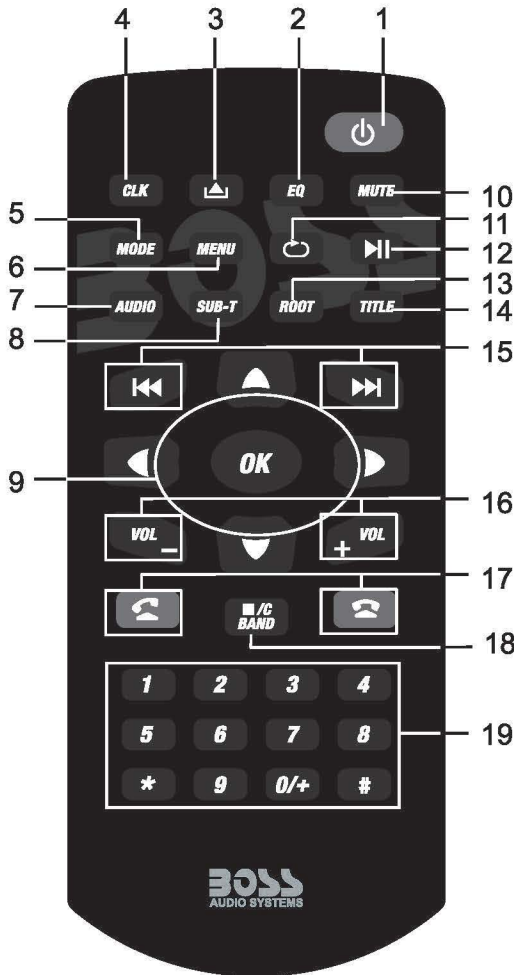
Remote.....	1
Power Cable.....	1
Mounting Brackets.....	2
Screw.....	8
Trim Ring.....	1
GPS Antenna.....	1

UNIT INSTALLATION



- 1.Put the 2 brackets to the left and right side of the unit;
- 2.Use screws to fix the brackets to the unit.
- 3.Once the screws are attached, the brackets can be adjusted forward or backward depending on the installation requirements.

REMOTE CONTROL OPERATION



1.TURN ON/OFF

2.EQ mode

3.EJECT Key

4.CLK Key

5.MODE Key

6.MENU Key

7.Audio Key

8.SUBTITLE Changing Key

9.Direction and OK Key

10.MUTE Key

11.REPEAT Key

12.Play/Pause

13.ROOT Key

14.TITLE Key

15.Under Disc/music/video mode,press to choose previous/next song.

16.VOLUME UP/DOWN Key

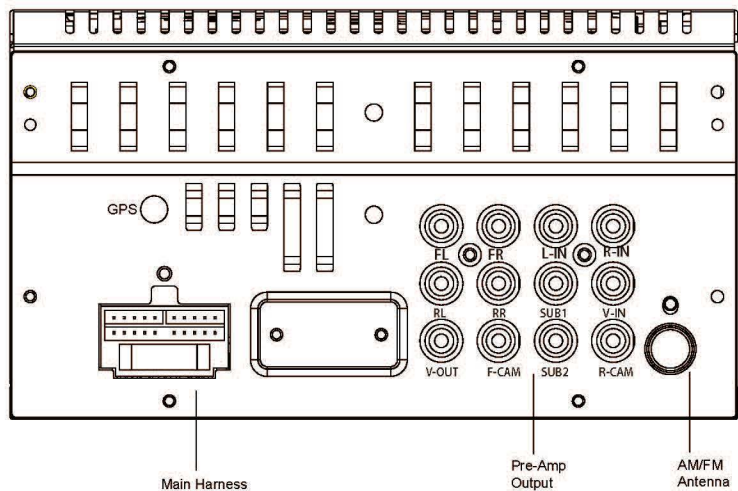
17.Receiving calls/call out; hang up.

18.STOP/C/BAND

19.Number Key

WIRES CONNECTION DESCRIPTION

The Description of the Input/Output Interface



Power

Yellow.....	Constant (+12v)
Red.....	Accessory (+12v)
Black.....	Ground (-)
Orange.....	Illumination Input (+12v)
Violet/Wht.....	Reverse Input (+12v)
Blue.....	Ant. Output (+12v, 500 mA)
Blue/Wht.....	Rem. Output (+12v, 500 mA)
Lt.Green.....	Parking Brake Input

Control

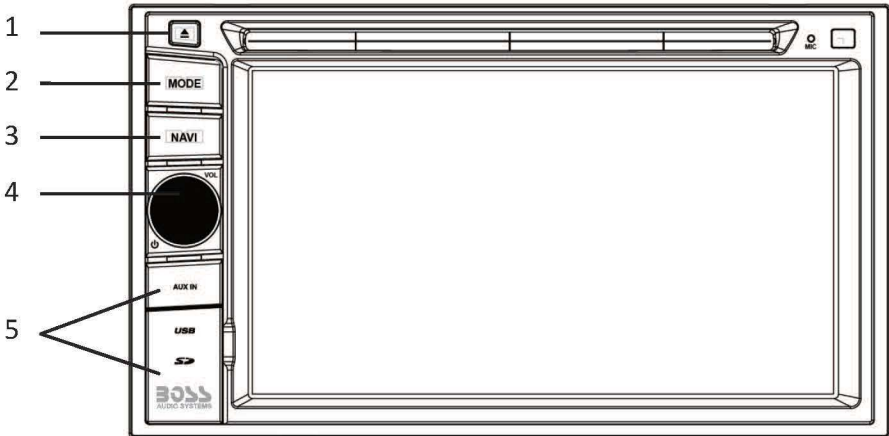
3.5mm.....	SWC Input
------------	-----------

Speaker Outputs

White.....	Left Front (+)
White/Blk.....	Left Front (-)
Gray.....	Right Front (+)
Gray/Blk.....	Right Front (-)
Green.....	Left Rear (+)
Green/Blk.....	Left Rear (-)
Purple.....	Right Rear (+)
Purple/Blk.....	Right Rear (-)

Camera Power

Red/Violet.....	Front Output (+12v, 500 mA)
Red/White.....	Rear Output (+12v, 500 mA)



1.Eject key

When there is a Disc in the unit, press EJECT to remove the Disc. And press again to load the Disc if you do not take out it.

2.MODE key

Press to select system mode (RADIO/DISC/PHONE/VIDEOS/MUSIC/PICTURES/AUX IN/AV INPUT/CAMERAS/NAVI)

3.NAVI key

Press to enter into GPS function, or back media from GPS.

4.TURN ON/OFF & VOLUME UP/DOWN

Long touch to turn ON/OFF the unit. Short touch to activate the MUTE function and silence the audio output. Touch again to restore sound. Rotate to adjust the output volume UP or DOWN.

5.Open to see GPS card slot, AUX IN jack, SD slot, USB port and reset key.

MAIN MENU OPERATION INSTRUCTION

MAIN MENU 1

- 1.NAVI Interface
- 2.Tuner Interface
- 3.Streaming Interface
- 4.DISC Interface
- 5.Phone Interface
- 6.USB Interface
- 7.SD Interface
- 8.Front/Rear Camera Interface



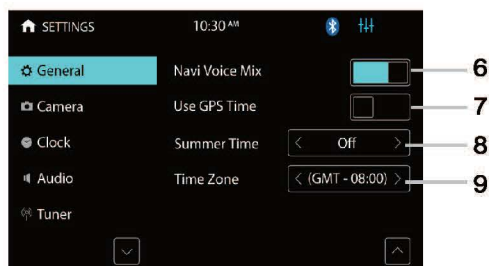
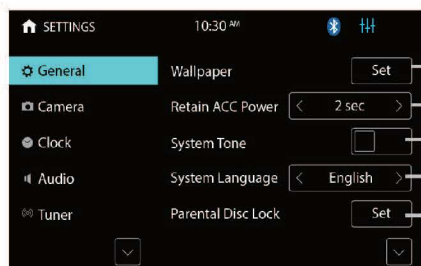
MAIN MENU 2

- 9.AV INPUT Interface
- 10.AUX IN Interface
- 11.Setting Interface



There are seven Setting Menus

GENERAL SETTINGS-Menu 1

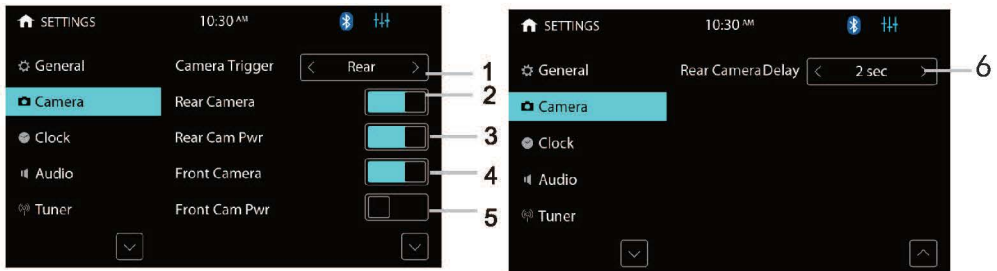


1. Touch to set wallpaper
2. Retain ACC Power: Select how many seconds to delay shut down after the vehicle powers down
3. When turned on, an audible beep tone confirms each function selection.

ACCESS SETUP INTERFACE

4. Touch System Language to select Spanish/English
5. Touch to select parental control level
6. It allows Navi Voice to sound in other source
7. Use GPS Time or not
8. Use Summer Time or not
9. Select Time Zone for GPS Time

CAMERA SETTINGS-Menu 2

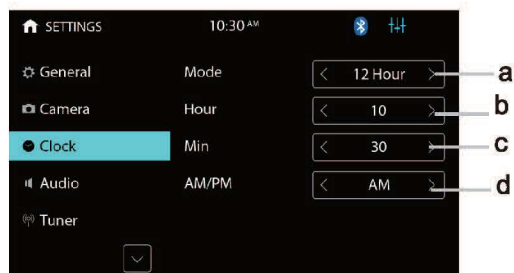


- 1.Camera Trigger:Touch to select Front/Rear/Off, select to display Front Camera, Rear Camera, or no response when reversing.
- 2.Rear Camera: Touch to turn on or turn off the Rear Camera function on main UI.
- 3.Rear Cam Pwr: Turn on to power Rear Camera.
- 4.Front Camera: Touch to turn on or turn off the Front Camera function on main UI.
- 5.Front Cam Pwr: Turn on to power Front Camera.
- 6.Select the delay setting to define the refresh rate for the Rear Camera image when the vehicle is in reverse gear. Options are off / 1 Sec / 2 Sec / 3 Sec. It can switch to front camera delay or Front Camera delay follow the Camera Trigger change .

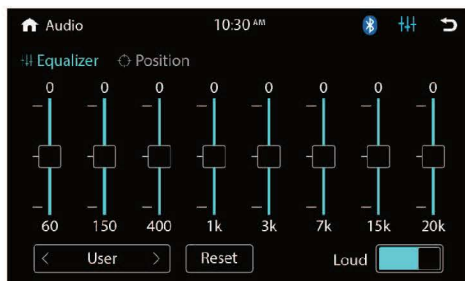
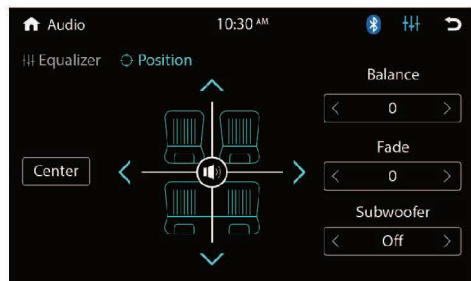
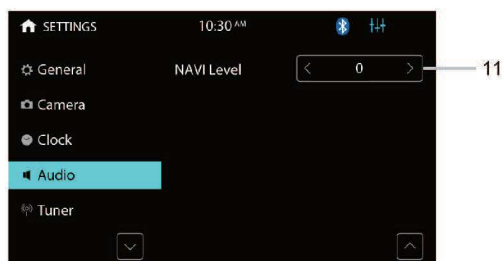
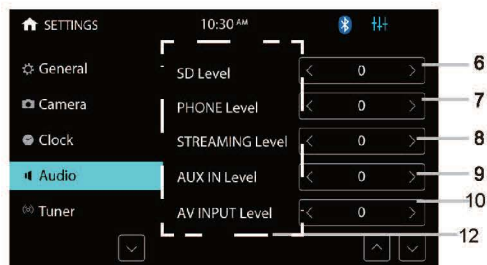
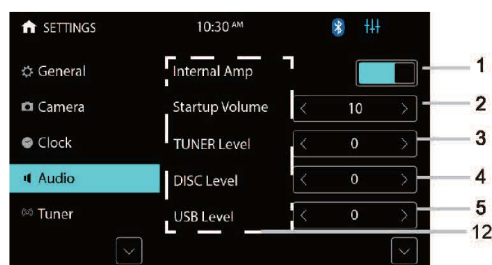
MAIN MENU OPERATION INSTRUCTION

CLOCK SETTINGS-Menu 3

- Press to set clock mode:
12/24 hr
- Press to set hour
- Press to set minute
- Press to set AM/PM at 12hr mode



AUDIO SETTINGS-Menu 4

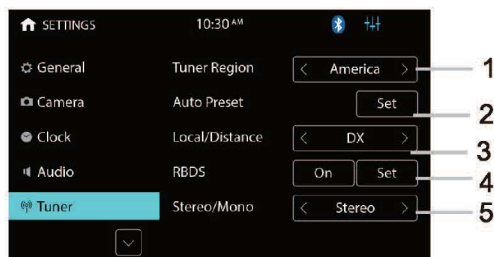


ACCESS SETUP INTERFACE

1. Touch to select whether to output sound from an external amplifier
2. Startup volume: default volume ;
 - ①.If the volume at the last shutdown is less than this volume, the volume at the last shutdown will be used when rebooting;
 - ②.if the volume at the last shutdown is greater than this volume, this default volume will be used when rebooting
- 3-11. Press to set preset gain.
12. Slide up or down to enter previous functions.

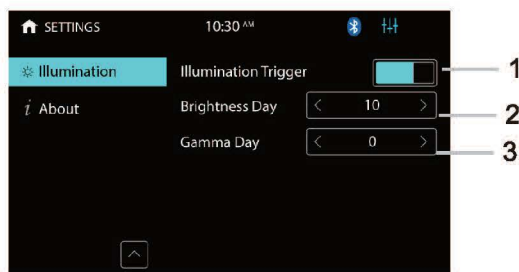
TUNER SETTINGS –Menu 5

1. Touch to choose between America/ EU regions.
2. Perform radio auto preset (ps) functionality
3. Touch to choose Local or Distance
4. Touch to turn on or turn off RBDS; Touch Set to enter RBDS page .
5. Touch to choose Stereo or Mono



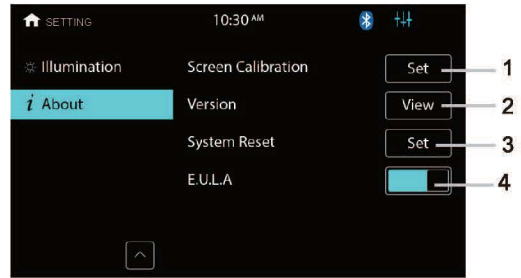
ILLUMINATION SETTINGS –Menu 6

1. Touch to turn on the illumination detection function
2. Touch to set screen brightness
3. Touch to set gamma brightness



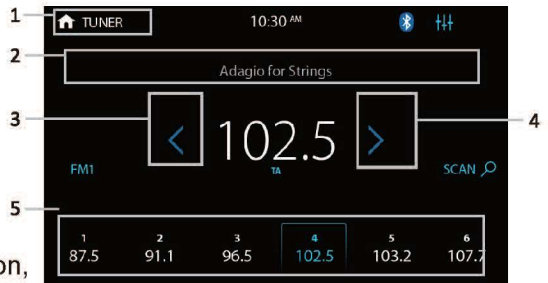
ABOUT SETTINGS –Menu 7

1. Touch to enter the touch calibration interface
2. Touch to view the version number of the machine.
3. Touch to restore the machine to factory status.
4. Touch to select whether it is necessary to display a warning interface when booting up.



TUNER OPERATION

1. Touch to go back to the home page
2. Show PS,PTY and RT messages from RDS
3. Short press to seek backwards, long press to enter manual mode
4. Short press to seek forward, long press to enter manual mode
5. Short press to select the preset station, long press to save current Freq



RBDS: Touch Setting >Tuner > RBDS > Set to enter the RBDS setup menu. You can choose what program type you'd like to listen to: news, sports, information, etc.

a.CT(Clock Time)

Turn on to automatically correct the current time every time the RBDS is opened.

b.TA(Traffic Announcement)

ON:When this is turned on the radio will automatically search for traffic station.



OFF:Turn off to end the TA function. In other modes, the traffic announcements will automatically switch to radio mode. Once the traffic announcements are complete it will automatically switch to the previous mode.

c.AF(Auto Frequency)

When the AF function is turned on, the radio will automatically fine tune to other frequencies when the received stations become weak. A warning message will be displayed on the screen when receiving emergency announcements.

DISC/CD/USB/SD PLAYBACK

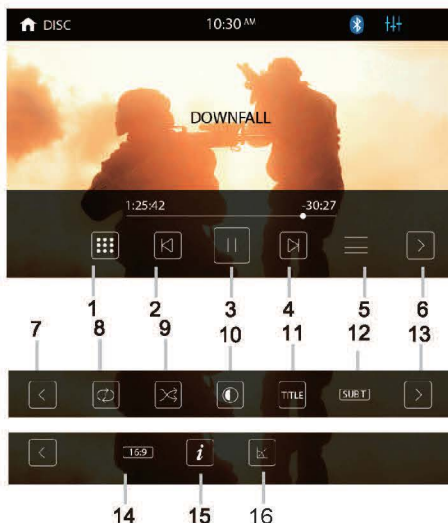
d.PTY(Programming Type)

Touch the button to display program types. Search for stations according to program type.

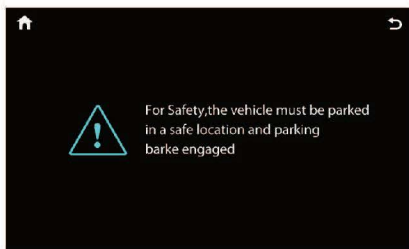
NOTE: If RBDS is turned OFF, AF/TA/PTY will not function.

DVD MODE OPERATION

1. Touch to select title/chapter of DVD
2. Short press to move to the previous chapter, long press to rewind quickly.
3. Touch to playback/pause
4. Short press to move to the next chapter, long press to fast forward quickly.
5. Touch to enter DVD root menu
6. Go to the next page of the menu bar
7. Go to the previous page of the menu bar
8. Touch to change the repeat mode in the following sequence:
DVD:repeat all, repeat off, repeat chapter, repeat title
VCD(PBC off):repeat all, repeat off, repeat single
9. Touch to change random play mode
10. Touch to enter video adjust page
11. Touch to enter DVD title menu
12. Touch to select the subtitle language if the disc is recorded in multiple languages
13. Go to the next page of menu bar
14. Touch to switch video between 4:3 and 16:9
15. Touch to select DVD audio language
16. Touch to select DVD video angle

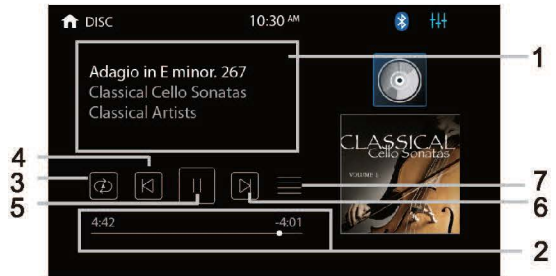


NOTE: When properly installed, a video cannot be displayed unless the parking brake is applied. If the parking brake wire is not installed correctly, the following message will appear.



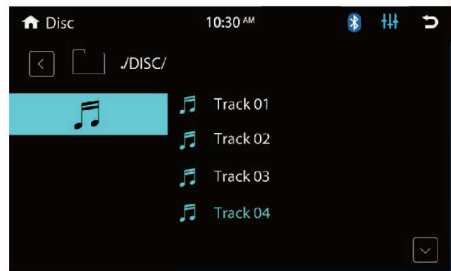
MEDIA PLAYING—CD AUDIO

1. Show the music's ID3 information
2. Time bar: show the total time and playing time of the present song
3. Touch to change play mode: repeat all, repeat directory, repeat single, sequential play and shuffle play
4. Touch to return to previous chapter
5. Touch to playback/pause
6. Touch to go to the next chapter
7. Touch to enter file list page



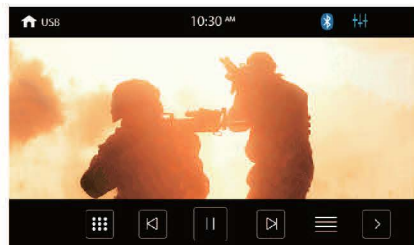
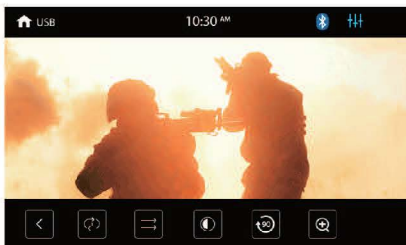
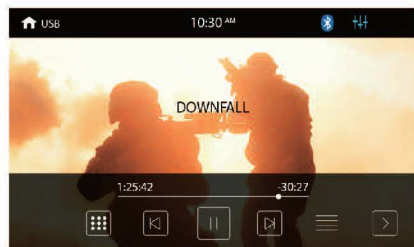
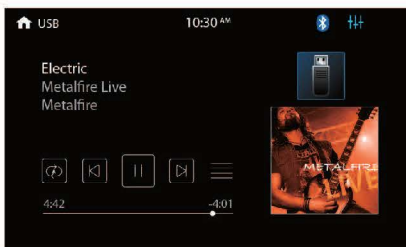
CD SOURCE MENU

Touch the SOURCE MENU (ICON 5) to access the CD track menu to view or change tracks manually. Touch again to return to playback.



USB/SD MUSIC/VIDEO/PICTURE

Press USB/SD in the main menu. The music menu is similar to the disc music menu except there is more ID3 information on it (such as song name & singer).



BLUETOOTH OPERATION

BLUETOOTH OPERATION MENU

Click the phone icon to enter the Bluetooth function interface.

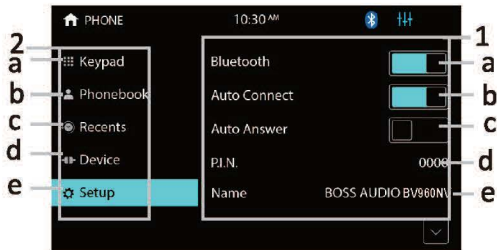
1. Bluetooth setting menu:

- a. Turn Bluetooth on and off.
Turn on and the display loops between the gray Bluetooth icon, the white Bluetooth icon. The icon will turn blue when a phone is paired.
- b. Connect automatically.
- c. Answer automatically.
- d. PIN code: The default password is "0000" and can be changed by clicking "0000".
- e. Default Bluetooth name for this unit:

Boss Audio BV960NV

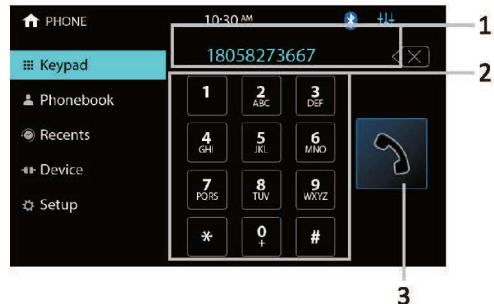
2. Function area:

- a. Click to see the dialing keypad. Users can dial phone numbers and make calls.
- b. Click to see the Bluetooth phonebook menu.
- c. Click to see the Bluetooth call history.
- d. Bluetooth pairing interface.
- e. Bluetooth setting menu.



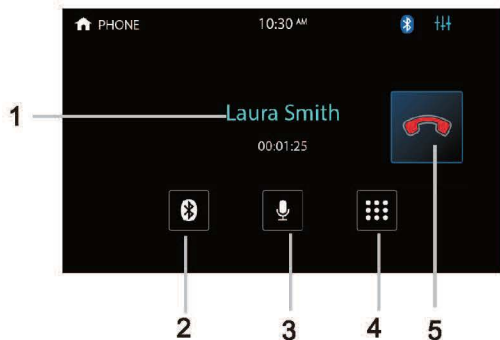
BLUETOOTH KEYPAD

- 1. Shows the number dialed in.
Press to delete wrong numbers.
- 2. Key area.
- 3. Touch to call out.



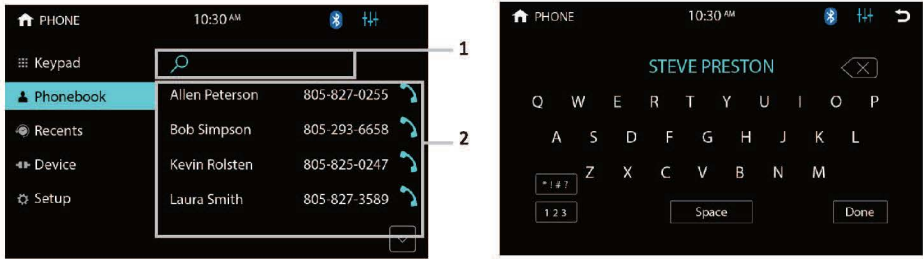
BLUETOOTH CALL

- 1. Show contact name.
- 2. Touch to select talk through phone or through Bluetooth.
- 3. Touch to mute or un-mute mic.
- 4. Keypad area.
- 5. Press to hang up the phone call.



BLUETOOTH OPERATION

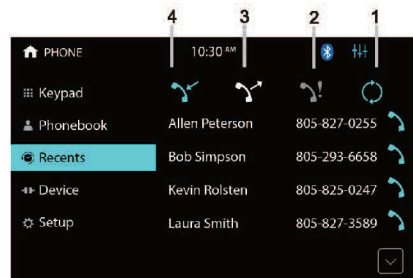
BLUETOOTH PHONEBOOK



- 1.Touch to search for a name or phone number.
- 2.Contact list.

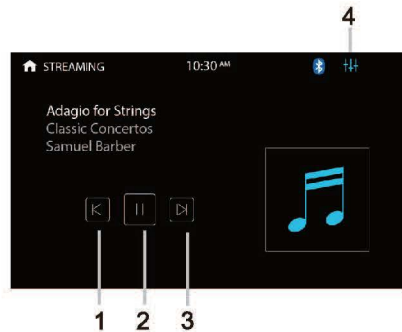
BLUETOOTH PHONE CALL HISTORY

- 1.Click to sync phonebook.
- 2.Touch to show missed calls.
- 3.Touch to show the dialed phone number.
- 4.Touch to show the received phone number.

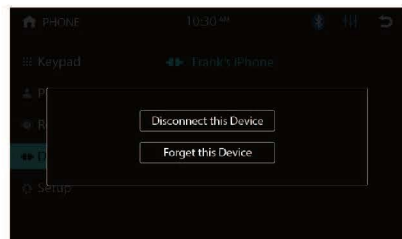


BLUETOOTH MUSIC-A2DP

- 1.Previous song.
- 2.Play/pause.
- 3.Next song.
- 4.Enter EQ setting menu.



BLUETOOTH PAIR DEVICE



PHOTOS

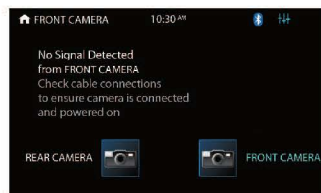
1. Keypad: enter number to select file.
2. Previous pic.
3. PLAY/PAUSE: TOUCH: PLAY/PAUSE: Touch to start picture playing mode. Press again to pause. During picture playing mode, each picture will be played for 5 seconds and then automatically move to the next if the PLAY/PAUSE button is not pressed.
4. Next picture.
5. List: Press to enter file list.
6. Go to the next page of the menu bar.
7. Go to the previous page of the menu bar.
8. Select repeat mode.
9. Random play.
10. Touch to enter the video adjust page.
11. Turn right 90 degrees.
12. Zoom out/in the present picture.



CAMERA/AUX/AV MENU

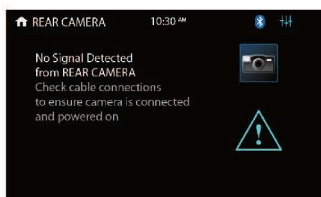
FRONT CAMERA:

Turn on the switching interface of rear camera and front camera at the same time



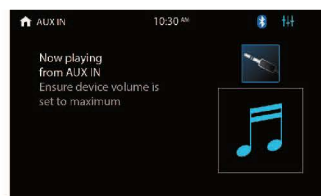
REAR CAMERA:

Rear view function. The rear view video signal can display automatically when reversing the car and then return the screen to the last source when the car is moved out of reverse.



AUX IN:

External audio input function Connect the audio device to the unit by the 3.5mm jack in front of the panel and touch AUX IN icon.



AV INPUT:

External video and audio input function Connect the video and audio device to the unit by the RCA jacks and touch AV INPUT icon.



TROUBLESHOOTING

Media displayed	Cause	Corrective Action
Loading	Disc is being read	
No Disc/Bad Disc	Disc is dirty	Clean the disc
	Disc is upside down	Insert Disc in right way
Unknown Disc	Unsupported Disc type	Check the disc and change
Error	Illegal mechanism operation	Press EJECT for 5s to reset loading mechanism
Problem	Cause	Corrective Action
Unit will not power on	Radio fuse blown	Install new fuse with right rating
	Car battery fuse blown	Install new fuse with right rating
	Illegal operation	Press the RESET button
Screen touch is insensitive	Place of touch screen is uncalibrated	Go to setup menu and set the calibration
No audio output	Improper audio output connection	Check wiring and correct
	VOLUME 0	Turn up the volume
Low audio output	Heavily biased volume balance	Check and adjust the channel balance to the center position
Poor sound quality or distortion	Speaker power rating not compatible with unit	Connect proper speakers
	Speaker short circuit	Check wiring
Weak station searching	Auto antenna is not properly connected	Connect the auto antenna properly
	LOCAL function is activated	Turn LOCAL function OFF

TROUBLESHOOTING

Problem	Cause	Corrective Action
No image	Incorrect connection to parking wire	Check wiring and correct
	Parking brake is not engaged	Stop vehicle in safe place and set parking brake ON
Flashing image or interference appears on screen	Improper video signal connections	Check wiring and correct
Improper image, improper height/width ratio display	Improper aspect ratio setup	Use correct aspect ratio setting
Cannot insert Disc	Disc already inside unit	Eject the current Disc and insert the new one
Loss of audio, music stops	Disc is scratched or warped	Use a new one in good condition
	Disc is dirty or wet	Clean the Disc
No GPS image	Image has not been changed to GPS system	Change to GPS system
Failed to enter the navigation interface	The navigation function is abnormal	Press reset key and hold for more than 1 second to reset



BEST WARRANTY

IN THE INDUSTRY

Keep in Touch!
Register Your Product Online



To register your product, scan this QR code with your smart device and fill in the online form. You can also find the online registration form at: [**www.bossaudio.com/support**](http://www.bossaudio.com/support)

Your product may qualify for a FREE EXTENDED WARRANTY.

**Please see www.bossaudio.com/policies
for the qualifications and details of this program.**

THANK YOU

Welcome to the BOSS AUDIO SYSTEMS family.
Proud audiophiles since 1987.



GET INVOLVED

WE ARE A COMMUNITY!

We read all product feedback, so please share your experience with us and with others!

NEED SUPPORT?

Our U.S. based Customer Support Team is standing by to help you with your inquiries.

CUSTOMER CARE: (805) 751-4853 & Live Chat

ONLINE SUPPORT: www.bossaudio.com/support

JOIN OUR COMMUNITY

Join our #BOSSInsiders Program and have an impact on product updates & releases. Apply at www.bossinsiders.com to test and have an influence on future products.



Stay connected with the BOSS Audio Systems community plus get tips & tricks on products and installs.

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GPS USER'S MANUAL

BV960NV

INCLUDING MAP COVERAGE OF ALL 50 STATES AND PUERTO RICO



BOSS[®]
AUDIO SYSTEMS
ELITE



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✓ Welcome!

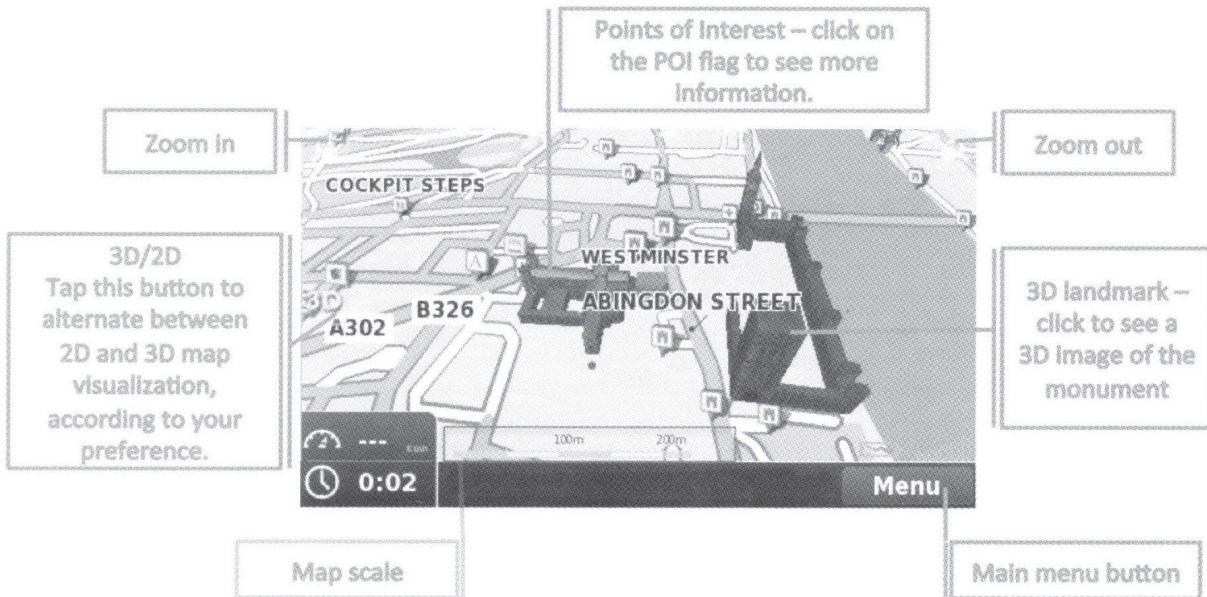
Dear Customer,

Thank you for selecting NDrive as your navigation software. This guide is created so that you can find quick and simple answers to your questions, considering both basic and advanced features, so that you can get more of this application. The new clean and elegant user interface of our latest version, will allow you to easily use the application, improving your user experience.

✓ Main Map Screen

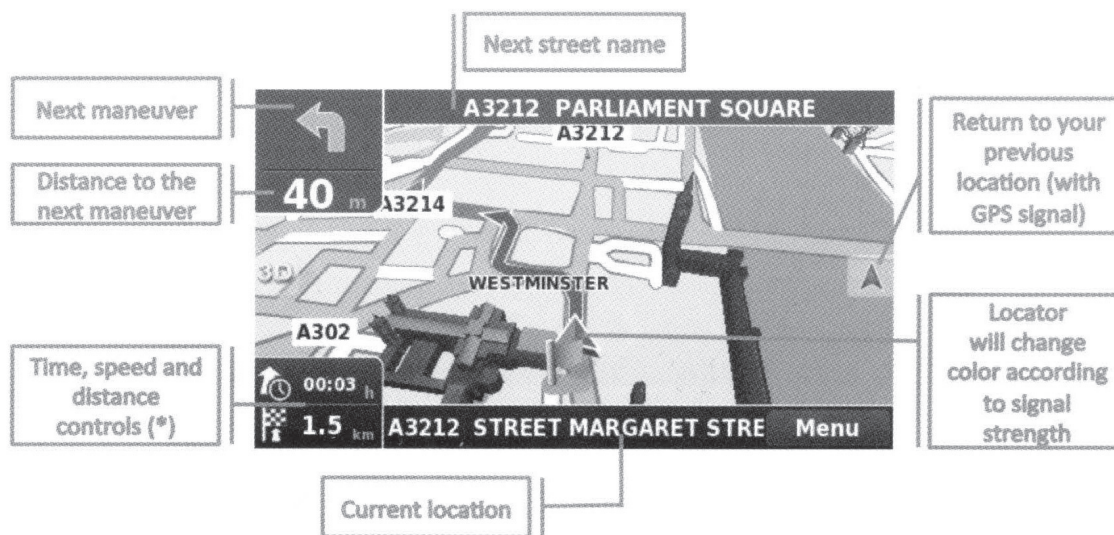
The main map screen can be presented in 3 different modes:

Map view





Navigation



(*) – Time, speed and distance controls show different information, by toggling among the alternative modes:

00:02 h - Estimated time left to destination

14:39 - Estimated time of arrival

50 km/h - Speed limit on the current street

1.2 km - Distance left to destination

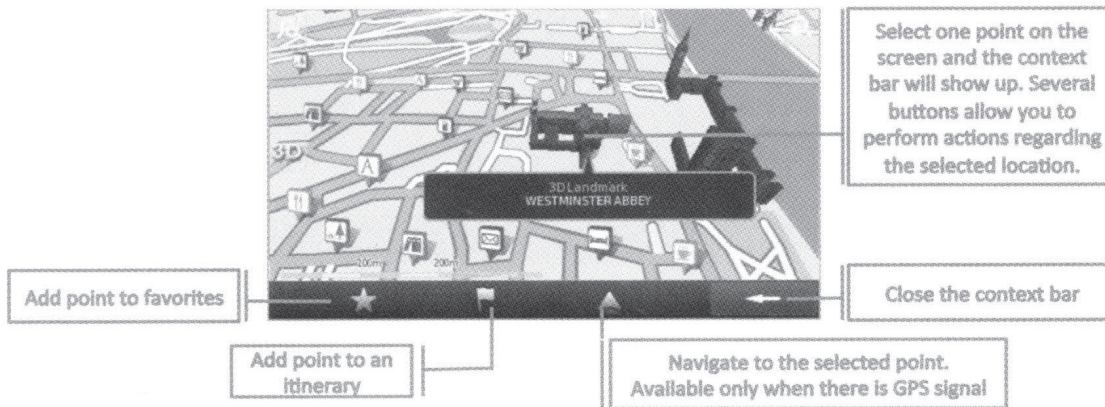
0 km/h - Current speed

14:36 - Current time



Context

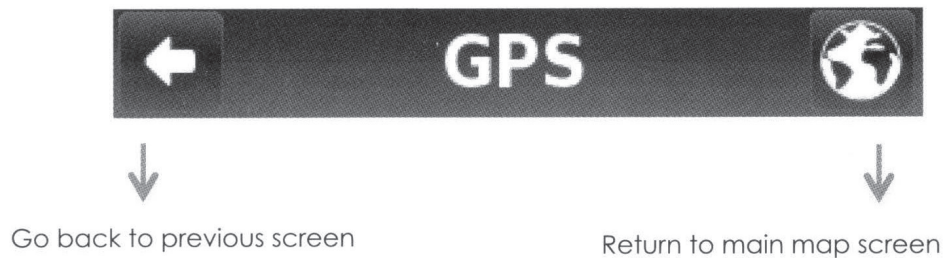
If you click on any point on the map, the context bar shows up on the bottom and these four actions can be performed.



✓ Basic Commands

Exploring menu screens

All menu screens show, on top, two buttons which allow for the following actions:



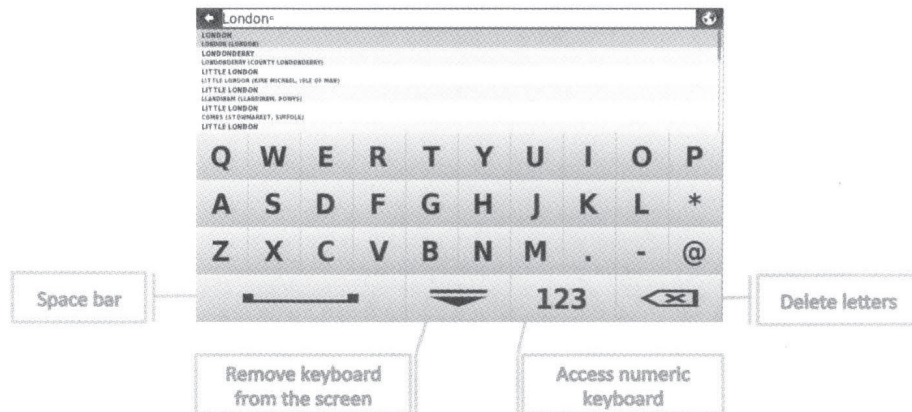
Using keyboards

Whenever you want to perform a search, filter results from a list or input data, the keyboard will appear on screen. Different keyboard layouts can be selected on Settings. Here are some tips you should keep in mind:

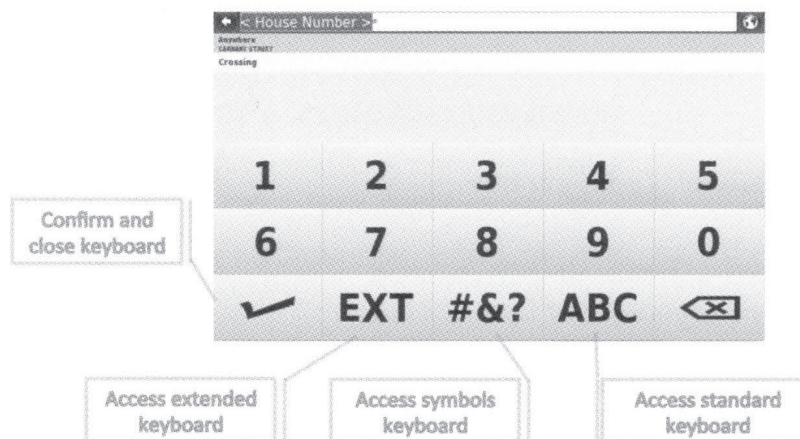
- When searching for a street, you can simply write the initials, separated by a space, and results will show up. Example: enter "C P W" and "Central Park West" will show up on the results list.
- Start writing the first letters, and results will be automatically updated on the list below.



Standard keyboard



Numeric keyboard

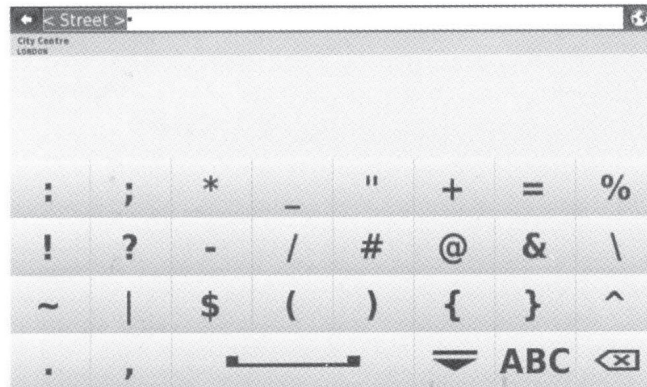


Extended keyboard





Extended symbols keyboard



Remove keyboard
from the screen

Access standard
keyboard





Performing a search

When a search is being performed, this type of screen allows you to enter search details, to filter your results.



Go screen

After performing a search or selecting a POI on the map, the Go Screen will be shown. This screen allows you to perform several actions, based on the location you just selected:





✓ How to Navigate...

Navigate to an address

From the main menu select **Go To**  and then **Address** .




After inputting the address click .


Input an address

Select Country, State (when available), City. Afterwards type in the Street name and house number.

Navigate to a Point of Interest (POI)



From the main menu select **Go To**  and then **Places** .

Then select **Around Me**  or **In a City** . You will see the Places grouped in categories. Select the desired category or specific attributes and use the keyboard to filter your search. After completing your selection, click . You may also select **All** and search for a location name within the entire database; note that this will take longer.





 Alternatively, simply click on a POI, or any other point on the map, and then click on the Navigate button on the bottom bar. See Main Map Screen section.



Navigate to a Postcode

From the main menu select **Go To**  and then **Places** . Select **Postcode**  and after selecting the country, use the keyboard to filter your search. After completing your selection, click **Navigate**.

Use coordinates to navigate to a location


From the main menu select **Go To**  and then **Places** . Then click **Coordinates** , use the keyboard to input the location's coordinates and click . After completing your selection, click **Navigate**.

Navigate to a recent location

From the main menu select **Go To**  and then **Recent Location** . After selecting the desired location from the list, click on **Navigate**.

Save my favourite locations

From the main menu select **Go To**  and then **Address** , **Places**  or **Recent Location** . After completing your selection, click **Save**.

Alternatively, simply click on a POI or any other point on the map, and then click on the Add to Favourites button  on the bottom bar.

Complete the fields you wish to detail, and then click **Save** to add to Favourites.


 See Basic Interaction section for keyboard input options.



Navigate to my favorite locations

From the main menu select **Go To**  and then **Favourites** . Use the scroll bar or the keyboard to filter your search. After selecting the desired location from the list, click

Navigate

 You may type in either the name or the tag of the favourite you have previously defined. NDrive will filter your search according to both fields.

Navigate Home

From the main menu select **Go To** , **Home**  and then **Navigate** .

Define my Home



From the main menu select **My NDrive**  and then **Define Home** . Input an **Address** , select a **Place** , **Recent Location** , **Favourite** , or the current location, according to GPS signal or to your previous selection on the map - **Here** . After completing your selection, click on **Save** .

The first time you try to navigate home, if you haven't previously defined your home location, NDrive will ask you to set that location. It is possible to edit it at any time, following the steps described above.

Stop navigating in the current route

From the main menu, click **My Route** , and then **Stop Navigation** .





See an overview of my route

After defining a route and during navigation, you can see an overview of the whole route by clicking **My Route**  on the main menu, and then **Show Route** .

See the list of all maneuvers included in my route



From the main menu, click **My Route** , and then **Roadbook** . Scroll down to see all the items on the list.

Delete a favourite location



From the main menu select **Go To**  and then **Favourites** . Use the scroll bar or the keyboard to filter your search. After selecting the desired location from the list, click **Edit**  and then **Delete** .





Delete recent locations







From the main menu select **Go To**  and then **Recent Location** . Click **Delete** to clear all recent locations.

Use itineraries

From the main menu select **Go To**  and then **Itineraries** . You can then create a new itinerary, or select an itinerary from the list, if you have already created or imported any.


• Create an itinerary


To create an itinerary, click **Add New Itinerary** . Edit the name and the description by selecting them and using the keyboard. You can also add an icon, by clicking on the **ICON** button  and selecting one from the list. Click **Save** to proceed. Afterwards, you will have to define the waypoints to be included in your itinerary. Click

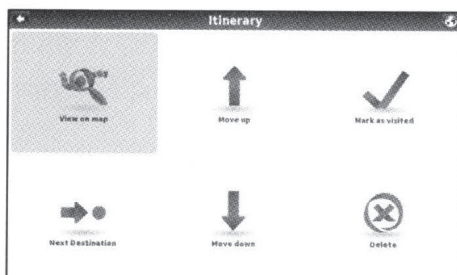
Add New Waypoint , selecting from **Address** , **Places** , **Recent Location** , **Favourites**  or **Home** . After completing your selection, click **Save** and repeat the process for each new waypoint. When you have finished adding waypoints, click **Save** to finish creating the itinerary.

You can also add a waypoint by selecting any point on the map, and clicking the waypoint shortcut, on the context bar. Then you can either add it to an existing itinerary, or create a new one, where the selected waypoint will be included.

• Change an itinerary

After selecting the itinerary from the list, to edit the itinerary's name, description and icon, click **Edit/Rename**  and proceed as described in "Create an itinerary".

To edit the itinerary's waypoints, click on **Show Waypoints** . You can then add a new waypoint as described in "Create an itinerary". You can also select each waypoint and perform several actions:



See waypoint's location on the map;

Mark waypoint as visited, so that when you are navigating the itinerary, you skip that location;

Move the waypoint up on the itinerary's list;

Move the waypoint down on the itinerary's list;

Mark waypoint as the next destination and all the previous ones as visited;

Delete waypoint from the itinerary.

• Navigate to an itinerary

After selecting an itinerary from the list, click **Navigate** . The route from your current location to the first waypoint on the itinerary will be calculated.







You can also see the whole itinerary on the map, by clicking **View On Map** .








The first waypoint is represented by a green flag and the last one by a checkered flag (black and white). The waypoints in between are marked with orange flags.

Manage alternative routes

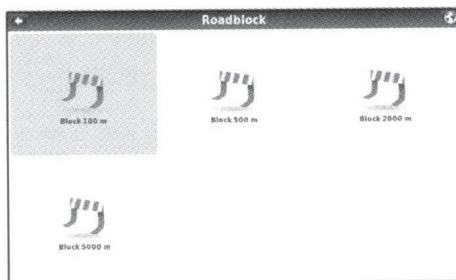
From the main menu select **My Route**  and then **Alternatives** . If you click **Calculate Alternative** , an alternative route will be calculated, according to the defined routing options. If afterwards you prefer the first route, click **Calculate Original** .


Avoid going through specific streets or roads


From the main menu select **My Route**  and then **Alternatives** . Click **Avoid Part Of Route** , select the segments you wish and then click **Avoid** . A new route will be calculated accordingly. If afterwards you prefer the first route, click **Calculate Original** .

Find an alternative when there is a roadblock ahead

From the main menu select **My Route**  and then **Alternatives** .



Click **Roadblock** , and then select the most appropriate option to define how far it is from your current location

A new route will be calculated accordingly. If afterwards you wish to select the previous route, click **Calculate Original** .





See Basic Interaction section for keyboard input options.





✓ Customizing Your NDrive



The speaker volume

From the main menu select **Settings**  and then  **General**. Use +/- to adjust the volume according to your preference. It's also possible to quickly adjust the volume from the Main Map Screen, simply by clicking on the lower bar placed near the Menu button at the bottom of the screen and sliding your finger across it.


The light

From the main menu select **Settings**  and then  **General**. If you select SYSTEM, NDrive will consider the light settings defined for your device. If you prefer to maintain the screen lighten at all times, select ALWAYS ON. To confirm, click on **Save**.



The language

From the main menu select **Settings**  and then  **International**; click on Language and then select from the available options. To confirm, click on **Save**.

The keyboard layout

From the main menu select **Settings**  and then  **International**. You may change the layout between ABC, QWERTY and AZERTY. To confirm your choice, select **Save**.

The speed unit

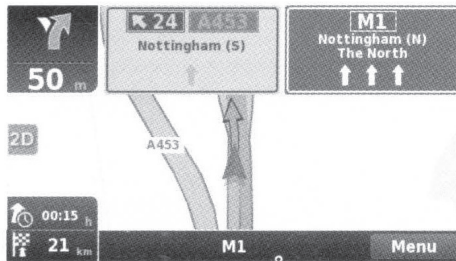
From the main menu select **Settings**  and then  **International**. You may choose to display the velocity in kilometre per hour (kph) or miles per hour (mph). To confirm your choice, select **Save**.

The map appearance

From the main menu select **Settings**  and then  **Map Appearance**. The following items are customizable:



• Lane Assistance



Displays information about the lanes on junctions and turns. In Intersections, it will display the signposts allowing you to pick the right lane. You may choose between simplified and detailed view.

• Map North Up

This option is only applicable to Pedestrian and Adventure modes. When enabled, the map will be displayed with North orientation and the locator will rotate according to your movements. When disabled, the locator will be pointing up and the map will rotate according to your movements. *[This option will be available in version 11.2]*

• Templates

The map colour scheme can be customized according to the time of day, choosing among the available templates. If you select "Enable auto toggle" the colour scheme will change automatically between day/night mode, according to a specific schedule defined by the system.

• Points of Interest

Select from the POIs categories list, the ones you wish to be displayed on the map.

The routing options

From the main menu select **Settings**  and then **Routing Options** . You may select among the following routing options, which will influence the routing calculation:

- **Fastest** – calculates the fastest route, regardless of the distance. It is highly recommended that you select this option: the planned route will be not only the fastest, but also more economic and pleasant, since better and faster roads such as highways are given priority.
- **Shortest** – calculates the shortest route, regardless of the quality of the road. Note that this route may take more time and some of the roads may be narrow or steep.
- **Tolls** – select "avoid" if you don't want to use toll roads on your route or "yes" to allow NDrive to use tolls on route calculation. Please note that even if you've selected the option "avoid", NDrive will consider toll roads, if that is the only option.
- **Pedestrian Mode** – NDrive will calculate your route using the shortest path available for walking or riding a bicycle; routing calculation will not consider traffic signs and routing is limited to 20 km distances.
- **Adventure Mode** – allows you to navigate to a location or coordinates off the beaten track; select this mode for outdoor use or travelling by sea or air. In this mode, the distance to your destination is calculated in direct aerial line and a compass will be displayed to guide you towards your destination.



Safety options

From the main menu select **Settings**  and then **Safety Options**  to customize the following options:

Speed Limit Alarm: an alarm will ring when you exceed the speed limit configured by you (50 kph-160 kph); you may choose to turn off this option

Road Speed Alert: you can adjust the way the speed limit of each road is displayed, among visual (an icon will appear on screen), visual and sound (icon on screen and voice indication), or turned off.

Safety Camera Alert: you will receive an alert of the presence of safety cameras during your route – the system will display an icon with the maximum speed allowed and also a sound warning; you may choose to turn off this option

• System settings

From the main menu select **Settings**  and then **System**  to customize the following options:

Time format: select between 12h or 24h format

Theme: select between the default theme, which will display red buttons or rainbow which will display colourful buttons. *[This option will be available in V 11.2]*

Restore Settings: select this option to restore the system to default settings

• Coordinates Format

From the main menu select **Settings**  and then **GPS** . The selected format will define the input method on navigation by coordinates; you can choose between the following formats:

DMS: degrees, minutes and seconds

DMM: degrees and minutes

DDD: degrees and decimal degrees





Import data to NDrive

First, you will have to connect the device to your computer using an USB cable, or use a memory card reader. Copy the kml files from your source to the correspondent NDrive folders: "favourites", "itineraries", and "speedcams".

From the main menu select **My NDrive**  and then **Data Import/Export** . Then, according to what you wish to import, select **Import Safety Cameras** , **Import Itineraries** , or **Import Favourites** .



Export data from NDrive

From the main menu select **My NDrive**  and then **Data Import/Export** . Then, according to what you wish to export, select **Export Itineraries**  or **Export Favourites** . After you perform this action, a new .kml file will be created in the correspondent NDrive folder: "itineraries" or "favourites". You will have to connect the device to your computer using an USB cable, or use a memory card reader to manage the files.

Know more about my software

From the main menu select **My NDrive**  and then **Version**  to consult information about your software version. **My Maps**  will show you the maps installed on your device, such as version, provider, verify map consistency and on **GPS**  you can visualize your current coordinates and number of satellites your device is connected to.



What is...



Go To - This button allows you to enter a destination such as an address or a Point of Interest. You can then display it on the map, navigate there or set it as your current location.



Address - Select this button to search for a location by its address.



- Use this button to change the country where your destination is located. You can skip this step if the country is correct.



- Use this button to change the state where your destination is located. You can skip this step if the state is correct. This button is only enabled for countries that are divided into states, such as the USA.



- Type the name of your destination city here. If your city name already appears, you may skip this button and go directly to Street.



- Type your destination street here. You can also select "City Center" if you do not know the street name or wish to navigate to the center.

< House Number > - type here the house number. If you do not know the house number, you may select "Anywhere" to be taken to the nearest point in this street or Crossing.

Note: If the house number you typed does not appear, NDrive will offer you the nearest number available.

The GO screen - This screen displays the information about the destination you selected. It can contain an address, a place name or even additional information, if available.



- Displays the selected destination on the map. Click anywhere on the map to set your current location there, which will be presented by a red dot.



- Use this button to save this location in your favourites.



- Click on this button to start live turn-by-turn guidance to the destination you selected. If your software version does not include live guidance, this button will show the route to your selected location.



Places - Allows you to search or navigate to Points of Interest (POI) on the map or by using various online sources



Around Me - A POI located around your location, according to GPS signal, or a previously selected location.



In a City - A POI in a specific or remote location.



Coordinates - Using the special keyboard, you may search for coordinates using the Lat/Lon format.



Postcode - Allows you to search for a destination by typing in the Postcode (Zip) of the location; this function is only enabled only with maps that contain postcode data.



Recent Location - Here you can see a list of all your previously selected locations. Click on any of them to navigate or show it on the map.



Favourites - These are pre-defined locations that you have created or imported. See the "How to" section for further information.



Home - Pre-define a location you use more often, such as your home, work etc. On the first click, it will ask you to set that destination. You can edit/change it at any time from My NDrive menu.



Itineraries - This is a pre-defined set of destinations that you have created or imported. See the "How to" section for further information.



My Route - This button is enabled only when a destination has been selected and a route has been calculated. It will allow you to consult additional information about your route.



Show Route - Displays your route from the current position to your destination on the map.



Road Book - Displays a list of all the maneuvers from your current position to your destination. You may click on one of them to see it on the map.



Stop Navigation - Stops the current turn-by-turn & voice guidance.



Start Demo - Starts a demonstration route of the previously selected navigation.



Stop Demo - Stops the current demonstration route



Alternatives - This button gives you the option to calculate an alternative route; place a Roadblock (if for any reason a part of the route is blocked); avoid part of the route (due to traffic or other info) or re-calculate the original route if you made any changes.



My NDrive - Here you may change the settings and learn about your software.



Define Home - Define your Home location from an address, place of interest, recent location, favourite or your current location (Here). This allows you to quickly navigate there. You may edit or change this location at any time.



Version - Contains detailed information about the NDrive software version you own.



My Maps - Displays a list of the maps you have installed on your device. By clicking on them you have access to the following options: Show – shows the selected map; About – detailed information about the map version and its provider; Check – verifies map file consistency.



Startup Wizard - By selecting this option, the start-up wizard will be displayed the next time you initiate NDrive, displaying the Legal Info.



GPS - Displays a screen with detailed information about the coordinates of your current location; the number of satellites to which your device is connected; the speed you're travelling; the altitude at your location and a compass showing your orientation.



Data import/export - This button allows you to import or export files such as favourites or itineraries.



Settings - Customize the way NDrive is displayed, navigates, uses the GPS and others. For further details see the "How to" section.



Store - Here you may download easily and securely additional content to your NDrive such as additional Worldwide Maps and Map Updates, Voices, Real Navigation city photos, Premium Weather and more.

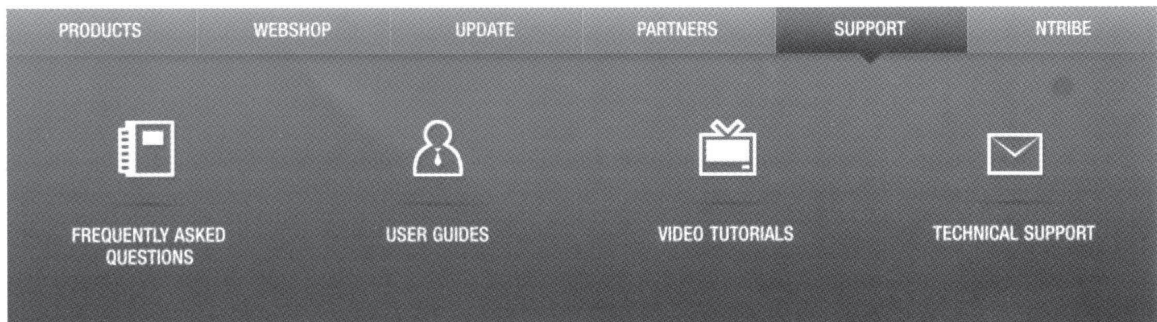


Exit - Click here to exit NDrive Application.



Support

Visit our Support section at <http://www.ndrive.com> to learn more on how to use NDrive. Additional contents such as video tutorials give you a more intuitive view on how to take advantage of your application. If any questions should remain, consult our FAQs or alternatively contact our technical support.



GPS USER'S MANUAL

BV960NV



BOSS Audio Systems

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To connect and program 120ASWC1 to 104BV960N:

Connect appropriate power & ground leads as need for the radio and ASWC1.

Then ...

Connect Brown wire of ASWC1 to KEY A wire.

Manually program the ASWC1 radio type as Jensen/Pioneer (6).

Go into the BOSS radio SWC programming menu and set SWC 3 as radio mode.

Program the desired buttons based on the functions list and buttons on the car.

IMPORTANT! This goes rapidly. One must hit the OK button immediately after the radio shows that it learned the function.

Teaching each button from car to radio then has three steps:

1. Touch a function on the Boss screen from picture one. (example volume up)
2. Press corresponding button on vehicle SWC controls
3. Immediately press okay button on screen of Boss unit when the "Successful binding" message appears.

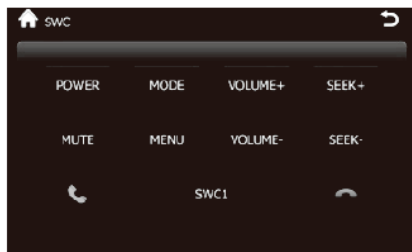
Start again with selection of next button function and proceed with programming the rest of the available buttons from vehicle wheel.

DO NOT HIT THE SWC (1.2.3) selection mode button again. (See bottom center of picture 1).

This clears the currently programmed functions.

Just hit the HOME button at upper left of the screen when done. Now test.

Picture 1



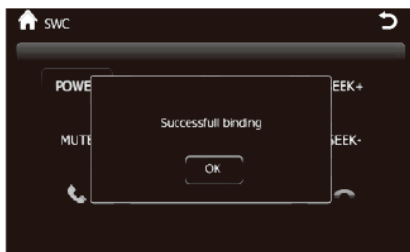
Picture 2



14

RADIO OPERATION

Picture 3



SWC1: Select different SWC resistance to meet different cars. If you cannot finish all key pairing, you can press to select SWC2 SWC3, until all keys can learn. NOTE: Click SWC1 you will lost all KEY learning before.



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www.bossaudio.com/support/warranty-registration

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Oxnard, CA 93030



HEAD UNIT PRODUCTS LIMITED WARRANTY

This product has a manufacturer's warranty against defects in materials and workmanship to the original purchaser for a period of two years from the date-of-purchase (DOP). This manufacturer warranty is non-transferable. The warranty is for repair or replacement at the sole discretion of BOSS AUDIO SYSTEMS (BAS). For service under this warranty you need to return the product to BAS. If replaced, BAS reserves the right to replace it with a new or reconditioned product of the same or similar design.

Your product may qualify for a free extended warranty. Please see www.bosssaudio.com for the qualifications and details of this program.

Obtain Warranty Service

Within the first 30 days from the original DOP, BAS will provide a return shipping label for any defective product shipped from within the 50 US States. After the first 30 days you are responsible for the freight charges incurred to send the product back to BAS. To send a product in for warranty service you will need the following:

- A Return Authorization number (RA#). Please contact our Technical Support Team to receive a RA#.
- A legible copy of the proof-of-purchase with your name, the name of the authorized dealer, the DOP and the model number of the product requiring service.
- Enclose a note stating the problem or issues with the product, your daytime phone number, email and return shipping address (within the USA, no P.O. Box please).

This warranty does not cover any product subjected to abuse, neglect, incorrect wiring, water or physical damage or any attempt to repair or modify the product by anyone other than an BAS Repair Technician. Any damages, resulting from legal action for breach of expressed or implied warranty shall be limited to the cost of the original purchase price of the product. All liability for coincidental damages are excluded under this warranty. The Customer agrees to retain the original proof-of-purchase for establishing the effective date of this warranty. If BAS or an Authorized Dealer replace your product under warranty, the replacement product shall be considered a transaction under the original warranty, and does not extend the original warranty period.

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To register this product fill-in this form and mail this card to
the address shown on the reverse side.
For online registration, see reverse side of this card for instructions.

NAME

AGE

ADDRESS

CITY

STATE

ZIP

E-MAIL

PHONE

MODEL NO.

DATE OF PURCHASE

PURCHASE PRICE

PURCHASED FROM

INSTALLED BY

SERIAL NUMBER (If applicable)

VEHICLE: YEAR, MAKE AND MODEL



HEAD UNIT PRODUCTS

3 YEAR WARRANTY EXTENSION

BOSS AUDIO SYSTEMS (BAS) will extend the original manufacturer 2 YEAR LIMITED WARRANTY on BOSS AUDIO SYSTEMS Elite Head Units for an additional 3 years if the unit is installed by an Authorized Dealer. The additional 3 YEAR EXTENDED WARRANTY on BOSS AUDIO SYSTEMS Elite Head Units will cover the parts and labor to repair or replace the unit. All other conditions of the original Limited Warranty applies.

Obtain Warranty Service

Customer is responsible for freight charges incurred to send unit back to BAS after the first 30 days from original date of purchase. To send a product in for warranty service you will need the following:

- A Return Authorization number (RA#). Please contact our Technical Support Team to receive a RA#.
- A legible copy of the proof-of-purchase with your name, the name of the authorized dealer, the DOP and the model number of the product requiring service.
- Enclose a note stating the problem or issues with the product, your daytime phone number, email and return shipping address (within the USA, no P.O. Box please).

This warranty does not cover any product subjected to abuse, neglect, incorrect wiring, water or physical damage or any attempt to repair or modify the product by anyone other than an BAS Repair Technician. Any damages, resulting from legal action for breach of expressed or implied warranty shall be limited to the cost of the original purchase price of the product. All liability for coincidental damages are excluded under this warranty. The Customer agrees to retain the original proof-of-purchase for establishing the effective date of this warranty. If BAS or an Authorized Dealer replace your product under warranty, the replacement product shall be considered a transaction under the original warranty, and does not extend the original warranty period.

www.bossaudio.com

Technical Support: 805.322.8794 | www.bossaudio.com/support/technical-support