

# INGENIX

ON BOARD

2010 & Up Hyundai YF Sonata OEM

Multimedia Upgrade & Navigation System

8" Hi-Res, LED Backlit TFT-LCD Touch Screen

Fits 2010 & Up  
Hyundai YF Sonata  
GLS & SE Models



## Model: P-84SNTA



OPERATION MANUAL

English

## Warnings

**INSTALL THE PRODUCT CORRECTLY SO THAT THE DRIVER CANNOT WATCH TV/VIDEO UNLESS THE VEHICLE IS STOPPED AND THE EMERGENCY BRAKE IS APPLIED.**  
It is dangerous (and illegal in many states) for the driver to watch TV/Video while driving a vehicle. Installing this product incorrectly enables the driver to watch TV/Video while driving. This may cause a distraction, preventing the driver from looking ahead, thus causing an accident. The driver or other people could be severely injured.

### **DO NOT WATCH VIDEO WHILE DRIVING.**

Watching the video may distract the driver from looking ahead of the vehicle and cause an accident.

### **DO NOT OPERATE ANY FUNCTION THAT TAKES YOUR ATTENTION AWAY FROM SAFELY DRIVING YOUR VEHICLE.**

Any function that requires your prolonged attention should only be performed after coming to a complete stop. Always stop the vehicle in a safe location before performing these functions. Failure to do so may result in an accident.

### **DO NOT FOLLOW ROUTE SUGGESTIONS IF THE NAVIGATION SYSTEM INSTRUCTS YOU TO PERFORM AN UNSAFE OR ILLEGAL MANEUVER, OR PLACES YOU IN AN UNSAFE SITUATION OR AREA.**

This product is not a substitute for your personal judgment. Any route suggestions by this system should never supersede any local traffic regulations or your

### **KEEP THE VOLUME AT A LEVEL WHERE YOU CAN STILL HEAR OUTSIDE NOISES WHILE DRIVING.**

Excessive volume levels that obscure sounds such as emergency vehicle sirens or road warning signals (train crossings, etc.) can be dangerous and may result in an accident. LISTENING AT LOUD VOLUME

### **LEVELS IN A CAR MAY ALSO CAUSE HEARING DAMAGE. MINIMIZE DISPLAY VIEWING WHILE DRIVING.**

Viewing the display may distract the driver from looking ahead of the vehicle and cause an accident.

### **DO NOT DISASSEMBLE OR ALTER.**

Doing so may result in an accident, fire or electric shock.

### **USE ONLY IN CARS WITH A 12 VOLT NEGATIVE GROUND.**

(Check with your dealer if you are not sure.) Failure to do so may result in fire, etc.

### **KEEP SMALL OBJECTS SUCH AS BATTERIES OUT OF THE REACH OF CHILDREN.**

Swallowing them may result in serious injury. If swallowed, consult a physician immediately.

### **USE THE CORRECT AMPERE RATING WHEN REPLACING FUSES.**

Failure to do so may result in fire or electric shock.

### **DO NOT BLOCK VENTS OR RADIATOR PANELS.**

Doing so may cause heat to build up inside and may result in fire.

### **USE THIS PRODUCT FOR MOBILE 12V APPLICATIONS.**

Use for other than its designed application may result in fire, electric shock or other injury.

### **DO NOT PLACE HANDS, FINGERS OR FOREIGN OBJECTS IN INSERTION SLOTS OR GAPS.**

Doing so may result in personal injury or damage to the product.

## LCD Care

Avoid exposing the LCD panel to direct sunlight for prolonged periods of time. Extended exposure can result in premature failure due to temperature outside normal operation limits. +45°C (+113°F) and 0°C (+32°F)

Cellular phone antennas should be kept a minimum of six inches from the LCD panel to prevent disruption of LCD video signals. This can cause colored strips, spots and other effects of this nature.

To protect the LCD panel be certain to touch the panel with only your fingers. Do not use any rigid or metal objects as they can damage the panel.

Use a soft dry cloth for periodic cleaning of the product. For more severe stains, dampen the cloth with water only. Anything else has a risk of dissolving the paint or damaging the plastic.

## Notice to viewers while driving

It is dangerous (and illegal in many states) for the driver to watch TV/Video while driving a vehicle. Installing this product incorrectly enables the driver to watch TV/Video while driving. This may cause a distraction, preventing the driver from looking ahead, thus causing an accident. The driver or other people could be severely injured.

## What's included

### Package Information

1. Head Unit
2. Control box and SD Card
3. Bracket and Screws
4. External Microphone
5. External Speaker
6. External Remote Eye
7. Main cable
8. Main harness
9. External GPS antenna
10. User's manual (CD)
11. Install Guide
12. Warranty Card

## Starting to use Ingenix

Ingenix is an advanced product. Take some time to read this manual and get familiar with your new Multimedia source unit. While Ingenix is quite intuitive this manual will help you better understand all the capabilities and features to help you get the most out of your purchase.

## OPERATION

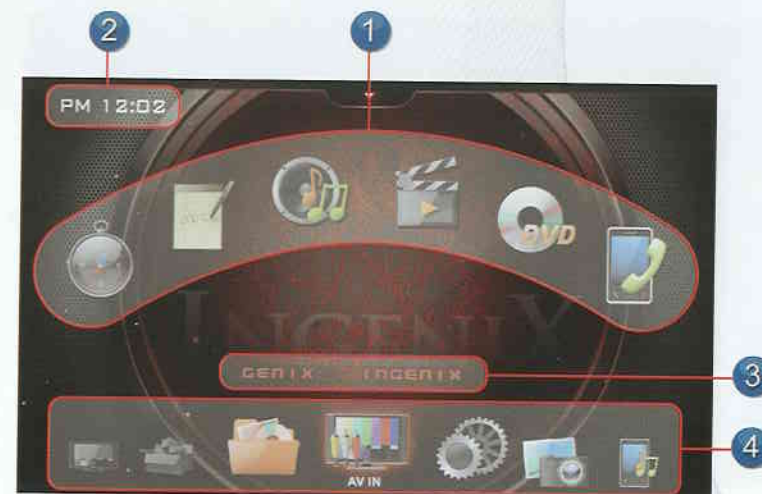
Home Screen



Day screen



Night screen





- 1 Quick Access Links
- 2 Clock
- 3 Marquee Banner
- 4 Slider Menu

## Access to source unit options

The above picture displays the two main areas of the home menu. The lower section is the slider which can access any option of the radio with a simple swipe of your finger from left to right or right to left. To access the option it must be centered. Swipe the slider until you can see the option desired is in one of the five locations. If the desired option is not center simply touch the option and it will center. Once the icon is centered touch again to open the option.

## Creating your quick access links

The second main area of the home screen is the quick access links in the upper section. Source options from the slider can be moved to the quick access links for quicker access to often used sources. A total of six source options can be placed in the quick access links. Follow steps below to add source options to the quick access links. The option from one section will always switch places. Ex. If Blue-tooth music is moved from the slider to the quick access links whatever option the Blue-tooth music source replaces will be moved to the slider where Blue-tooth music was located.

- To move source options to quick access links swipe the slider with your finger either left or right to locate the desired source option.
- With the option visible in any of the five locations on the slider press and hold the option with your finger and slide it up to the quick access location desired.
- Repeat this with all six quick access links to create your list.
- This can be changed at anytime in the future following the same steps.

## Marquee banner

The Marquee banner can be customized to display any statement.

Access to source unit options

- Touch the Marquee banner to access the keyboard.
- Type the desired statement then press the enter key.
- You can also change the color of the text on the Marquee to Pink, Orange, or Emerald.
- The Home screen will be displayed with your statement



## Pull down menu in Home Screen



- 1 Home screen button
- 2 PIP (Picture in picture) button
- 3 Brightness button
- 4 Clock settings button
- 5 Screen saver button

## Pull down menu

At the very top of the almost every source you will notice a small icon. This icon will access the pull down menu. The options in the pull down menu differ slightly from one source to another. See the section of the desired source for more information on functions of the pull down menu in that source.

- In this menu you can access six options.
- The Home screen button will return the system to the home screen from whatever source is active.
- The PIP button will open the Navigation source provided it has been started and the safety notice has been agreed to.
- Note: The Navi PIP button has a slightly different effect in different sources. see instructions on each source for more information.
- Brightness allows control over the brightness of the display. This icon also allows you to turn the screen off



- The clock settings button will open the clock settings menu



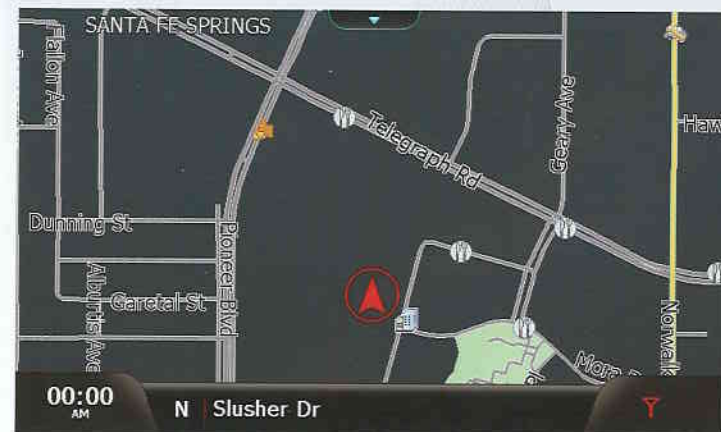


- The screen saver button will allow you to display the screen saver. Simply touch the screen in any location to return to the previous source.



## Navigation

NAVI MENU on the unit to activate the navigation system.















## Navigate to

"Navigate to" set up menu which consists of 2 pages, 12 sub menus as below.

You will see 8 sub menus on the first page, as well as a next page option

<b>Navigate to</b>	 Find by city	 Find by ZIP code	 Home
<b>My favorite</b>	 Office	 Clear route	 Find by favorites
<b>Configure</b>	 Recent destination	 Find by nearest POI	
			

You will see another 4 sub menus on the next page

## Operating Instructions - Planning a route



Find by city

Find by city	
State	CALIFORNIA
City	Los Angeles [Los Angeles] <span>All</span>
Street	E 100th St <span>←</span>
House No.	500 <span>↕</span>
<span>Calculate</span>	
Map	Route option <span>↶</span>

If you know the street name and city that you would like to navigate to then select 'Find by city'. The first time this option is selected you will see "All states" in the searching list. Select the white section directly right of "State" on the top left.

Alternatively, if you don't have a house or building No., Ingenix can navigate you to a point where two roads meet instead. After you have entered the name of the road you would like to navigate to, press the "Intersection" pic or line out button.



## Find by ZIP code

Find by ZIP code	
State	CALIFORNIA
ZIP code	92508
Street	Adirondack Ln
House No.	19700
<div>Calculate</div>	
Map	Route option

The steps for Find by Zip code is similar to "Find by City". The sequence of searching is State-Zip code-Street-House Number

As you begin to input the State, Zip code, Road or Street name, Ingenix will automatically prompt you with all possible matches. You have the option to select the search full view or keyboard anytime the icons are shown in the upper right side of the screen. Search full view will display many more matching names in place of the keyboard on the screen. Pressing the keyboard option will display the search keyboard.



## Recent destination

Ingenix is capable of storing the last 40 routes that have been calculated. This allows you to return to an address you have recently calculated without inputting the details again.

To calculate a route using the "Recent destination" select the option on the main "Navigate to" menu.

Recent destination	
[Recent departure]	
Eagleton St	▲
Acadia Ave	
Adirondack Ln	▼
E 100th St	
Roseton Ave	↺

A list of your most recent routes will be shown in chronological order, use the up/down arrow on the right hand side of the display to scroll through the list and select the destination you would like Ingenix to navigate to. An information window screen will appear for confirming the address you have selected.

To view the location of the recent destination, press "Map".

To return to the previous page, press the "Backward arrow" button located in the lower right hand corner of the display.

If you want to change the route parameter, press "Route Options". By "Route Options" you can change the parameters Of the route or 'Guidance' which will list the turn by turn instructions.

Press "Calculate" and Ingenix will calculate the route to your select destination.

Once calculation is completed the summary screen is displayed.

You can either press "Go" to start navigation or "Simulation" to see the route being run.





## Find by POI

Find by POI	
State	CALIFORNIA
City	Agoura Hills (CA) <span>All</span>
Category	All categories <span>All</span>
Name	
<input type="button" value="Calculate"/>	
Map	Route option
Information	

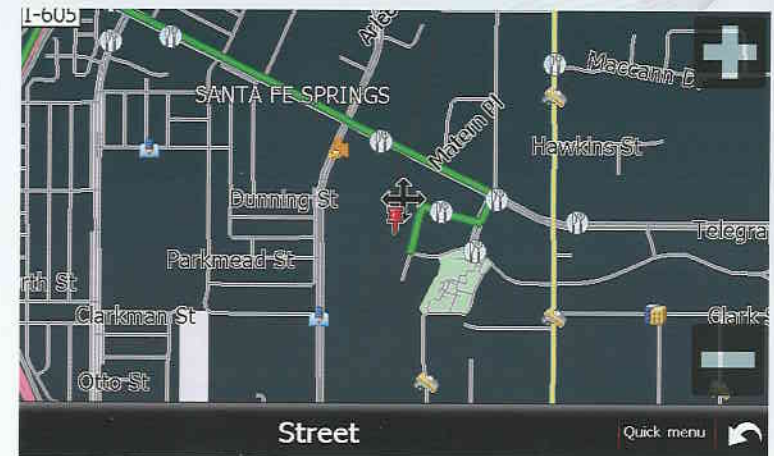
The way of using this menu is similar to "Find by City" option. If you want to set a route to a hotel, hospital, airport, amusement park or even a restaurant. Ingenix can calculate such a route using its extensive database of POI's

After selecting State, City, Category and Name press "Calculate" button to start a route calculation.

If you are not sure which category to select for the desired POI, select "All categories"



## Find by map



"Find by map" menu allows you to select a destination by simply pressing any area on the map.

You can create a route to a location by viewing the map and selecting a road or place with your finger.

To see a larger section on the map, press "-" button to zoom out, and if you would like to see the map in more detail, press "+" button to zoom in.



## Show POI

Show POI

☒ All
 ☒ ATM
 ☒ African(Restaurant)
 ☒ Airport
 ☒ American(Restaurant)

OK

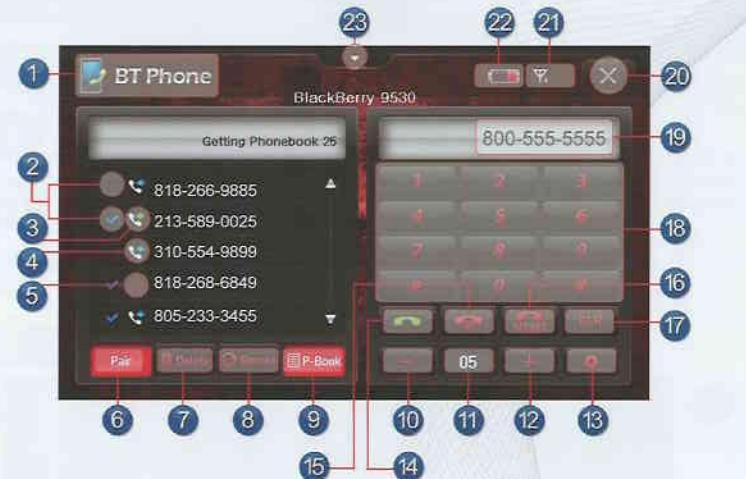
Ingenix comes with a comprehensive list of POIs (Point Of Interest). In this option you can select POIs you would like to have indicated on the map. A red check in the box indicates that the POIs will appear on your map, and unchecked POIs will be removed from the map. To save the changes, press the OK button on the bottom of the display. If you would like to exit the list without making changes press the back button located in the bottom right hand corner of the display.

<input checked="" type="checkbox"/> Airport	<input checked="" type="checkbox"/> Casino	<input checked="" type="checkbox"/> Named place
<input checked="" type="checkbox"/> Amusement park	<input checked="" type="checkbox"/> Commuter rail station	<input checked="" type="checkbox"/> Nightlife
<input checked="" type="checkbox"/> ATM	<input checked="" type="checkbox"/> Convention/Exhibition center	<input checked="" type="checkbox"/> Rest area
<input checked="" type="checkbox"/> Auto service & Maintenance	<input checked="" type="checkbox"/> Court house	<input checked="" type="checkbox"/> Restaurant
<input checked="" type="checkbox"/> Automobile club	<input checked="" type="checkbox"/> Ferry terminal	<input checked="" type="checkbox"/> School
<input checked="" type="checkbox"/> Aviation sports	<input checked="" type="checkbox"/> Gas station	<input checked="" type="checkbox"/> Shopping
<input checked="" type="checkbox"/> Bowling center	<input checked="" type="checkbox"/> Golf course	<input checked="" type="checkbox"/> Ski resort
<input checked="" type="checkbox"/> Bus station	<input checked="" type="checkbox"/> Grocery store	<input checked="" type="checkbox"/> Sports center
<input checked="" type="checkbox"/> Business facility	<input checked="" type="checkbox"/> Hamlet	<input checked="" type="checkbox"/> Sports complex
<input checked="" type="checkbox"/> Car park	<input checked="" type="checkbox"/> Library	<input checked="" type="checkbox"/> Tourist attraction
<input checked="" type="checkbox"/> Car rental	<input checked="" type="checkbox"/> Marina	<input checked="" type="checkbox"/> Tourist information
<input checked="" type="checkbox"/> Car showroom	<input checked="" type="checkbox"/> Motorcycle dealership	<input checked="" type="checkbox"/> Train station
	<input checked="" type="checkbox"/> Museum	<input checked="" type="checkbox"/> Winery



## Blue-tooth Phone

Allows for hands free calling



- |                           |                                     |                                    |
|---------------------------|-------------------------------------|------------------------------------|
| 1 Source display          | 9 Phonebook button                  | 17 Clear button                    |
| 2 Selection box           | 10 Volume down button               | 18 Number keypad                   |
| 3 Outgoing call indicator | 11 Mute button                      | 19 Phone number display            |
| 4 Incoming call indicator | 12 Volume up button                 | 20 Close source button             |
| 5 Missed call indicator   | 13 Blue-tooth phone settings button | 21 Phone signal strength indicator |
| 6 Pair phone button       | 14 Send/Answer button               | 22 Phone battery indicator         |
| 7 Delete button           | 15 End/Ignore button                | 23 Pull down menu button           |
| 8 Recent calls button     | 16 Private call button              |                                    |



## Blue-tooth Music

Allows playback of media from a Blue-tooth device

BLUE-TOOTH is a wireless technology allowing communication between a mobile device or personal computer over short distances . You can listen to audio files stored in Blue-tooth audio player or mobile device.

Note: To pair your Blue-tooth device see How to connect to a BLUE-TOOTH compatible device(Pairing) on page 86



- |                                   |                                  |
|-----------------------------------|----------------------------------|
| 1 Source title                    | 9 Mute button                    |
| 2 Stop button                     | 10 Volume down button            |
| 3 Play button                     | 11 Volume level display          |
| 4 previous track button           | 12 Volume up button              |
| 5 Next track button               | 13 Close source button           |
| 6 Pause button                    | 14 Phone battery level display   |
| 7 Pair button                     | 15 Phone signal strength display |
| 8 PIP (picture in picture) button | 16 Pull down menu button         |





## Music Player

Playback audio files stored in USB, SD, or Hard drive.



- |                                  |                                      |                             |
|----------------------------------|--------------------------------------|-----------------------------|
| 1 Source display                 | 8 EQ button                          | 15 Stop button              |
| 2 Previous track button          | 9 Spectrum analyzer                  | 16 Next track button        |
| 3 Mute button                    | 10 Caption button                    | 17 Close source button      |
| 4 PIP(picture in picture) button | 11 Music player color options button | 18 Album information window |
| 5 Volume down button             | 12 Repeat option selector button     | 19 Pull down menu           |
| 6 Volume up button               | 13 File manager button               | 20 Play button              |
| 7 Spectrum analyzer              | 14 Playlist button                   | 21 Volume display           |



## Video Player

Playback video files stored in USB, SD, or Hard drive.



### Starting the Video player

The first time the video player is started Ingenix will ask for a file to play.

- Select the file from the file access menu. First select the media the file is located on (SD, HDD, USB).
- Next select the folder the file is inside (if the file is not already viewable)
- Last select the file and press the Play button.

From that time on when the video player is selected Ingenix will play the file from the last position viewed.

Note : If the file is removed from the drive Ingenix will not play the file upon start up.

### Creating and accessing a playlist

- To create a playlist for listen you must first access the files you wish to add.
- Press the File search button.
- Select files in the folder to create your playlist.
- Highlighted files will be included in the playlist.
- You can also press Select all to select all files in the folder.
- To save files to a playlist all files must be in the same folder.
- Files can be moved to different folders to allow for larger playlists.

Once the video file has begun touch the video to enlarge to full screen display. Touching the video screen



- |                      |                            |
|----------------------|----------------------------|
| 1 Picture in picture | 10 Full Screen             |
| 2 Mute               | 11 Volume Down             |
| 3 Rewind             | 12 Volume Level Display    |
| 4 Fast Forward       | 13 Volume Up               |
| 5 Previous Chapter   | 14 Pause                   |
| 6 Next Chapter       | 15 Repeat / Random Options |
| 7 Stop               | 16 Video Slice Selector    |
| 8 Play List          | 17 File Manager Access     |
| 9 Exit               | 18 Subtitle Settings       |



## Set up

Set up will allow the user to access Ingenix system settings.

## Main screen

- There are five tabs to the set up screen. Display, Brightness, Screen Saver, Sound, and Software



- |                           |                                     |
|---------------------------|-------------------------------------|
| 1 Source display          | 4 Language options                  |
| 2 Display tab highlighted | 5 Rear Monitor Set up options       |
| 3 Start-up Mode options   | 6 Touch Screen Calibration function |

## Display

### Start-up Mode

- the display tab allows the user to choose which screen is loaded during system start up.
- If Last is selected the last source that was running will be loaded at system start up
- The three other options will match the source selected.

### Language

- Press the Language button to switch between English or Spanish.

Note: Icons will remain English when any language is selected.

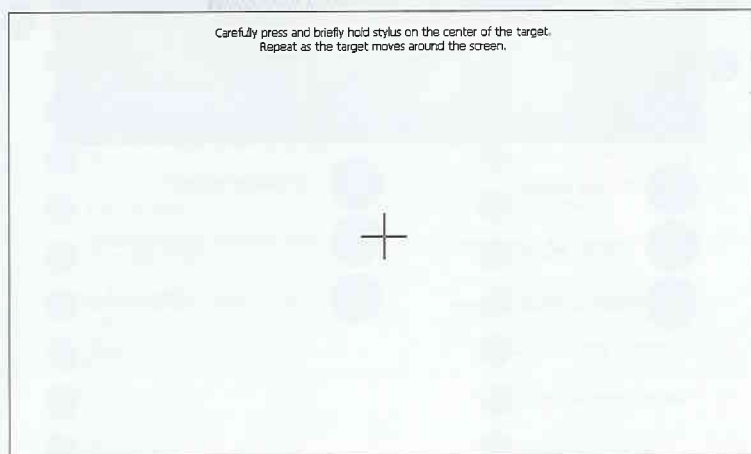
### Rear Monitor Set up

- Press the Rear Monitor Set up button to begin set up.
- The Rear monitor menu allows the user to change position and size of the image on the external monitor if needed.
- Position will allow the user to move the image to a different location on the external monitor.
- Press the up, down, left, and right arrow to move the image to the desired location.
- Size will allow the user to change the shape and size of the image.
- Press the + or - buttons at the upper or lower part of the interface to increase or decrease the height of the image
- Press the + or - buttons on the left or right of the interface to increase or decrease the width of the image.

Note: Changing the size and shape excessively can cause display issues.

If this happens, press "reset" to return to factory default settings.

### Touch Screen Calibration



- Press "Start" to begin touch screen calibration .
- Press and hold the "+" mark on the screen for a brief moment then release.
- As the mark moves around the screen continue to press and hold briefly until the screen reads "New calibration settings have been measured"
- Touch screen calibration is now complete.
- Touch the screen again to exit calibration

## Brightness



- 1 Source display  
2 Automatic dimmer options  
3 Brightness Tab selected  
4 Manual brightness options

## Automatic

- The Automatic Dimmer options tab allows the user to set times for the brightness to change.
- Select the time you wish the dimmer to adjust in the upper location
- Select the brightness of the screen adjustment in the location directly below the time
- The first setting will affect the brightness in the morning and should be set to approximately the same time as sunrise.
- The second setting will affect the dimmer in the evening and should be set to approximately the same time as sunset.
- The On/Off button to the right allows the user to defeat the Automatic dimmer feature.



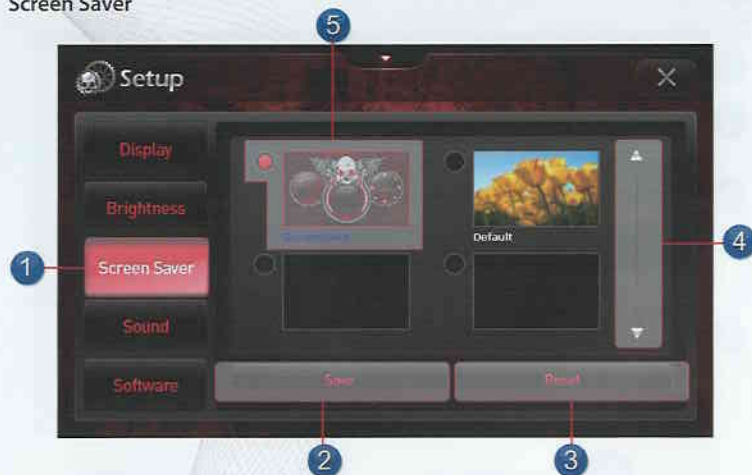
## Manual

- The manual setting allows the user to select the desired brightness at any time.
- Press the left arrow to dim the screen and the right arrow to increase brightness.

## Save and Reset

- After changes are made you must save to have the change take effect.
- Reset allows the user to bring all Brightness settings back to factory default.

## Screen Saver



1 Screen Saver Selection

2 Save

3 Reset

4 Slider

5 Selected Image

- The screen saver tab allows the user to select the image or function to be displayed during screen saver operation.
- Use the up and down buttons to move through store pictures and functions to locate your desired saver.
- You can also use the slider to move through pictures more quickly if needed.

## Save and Reset

- After changes are made you must save to have the changes take effect.
- Reset allows the user to bring all Brightness settings back to factory default.

## Sound



1 Source display

2 Volume control

3 Sound mix

## Volume

- Press the + to increase volume and - to decrease volume.
- You can also directly touch the point of the volume bar you wish to set volume for faster response.

## Sound mix

- The Sound mix option will allow the user to mix audio with the OEM radio during Navigation commands and Blue-tooth playback.



- 1 Source display
- 2 Software version information
- 3 Upgrade activation
- 4 Reset to default





#### Software:

- The software tab displays the software version currently installed.
- Software upgrades should only be installed by an Ingenix authorized dealer
- The reset button resets all of the software to original factory settings.
- USERS SHOULD NOT ATTEMPT TO ALTER SOFTWARE THEMSELVES. DOING SO MAY CAUSE UNIT FAILURE.



**AV IN**  
Auxiliary AV input

#### Using AV IN

- The AV in source will playback any Audio and or video that is connected to the AV input
- Pressing any part of the screen while using the AV IN function will display control options.
- Pressing the  button will increase volume
- Pressing the  button will decrease volume
- Volume level is displayed between the volume controls .
- Pressing the  volume display number will mute audio
-  will be displayed while muted pressing again will resume sound levels .
- Pressing the "X" in the upper right corner of the screen will close the player.

#### Pull down menu in the AV IN source

- While operating in the AV IN source the Navi PIP button will switch to full screen Navigation when selected.

Note: the Navi PIP button will not switch back to AV IN when pressed from the Navigation source.

- All other pull down buttons have standard function as listed on page 15.

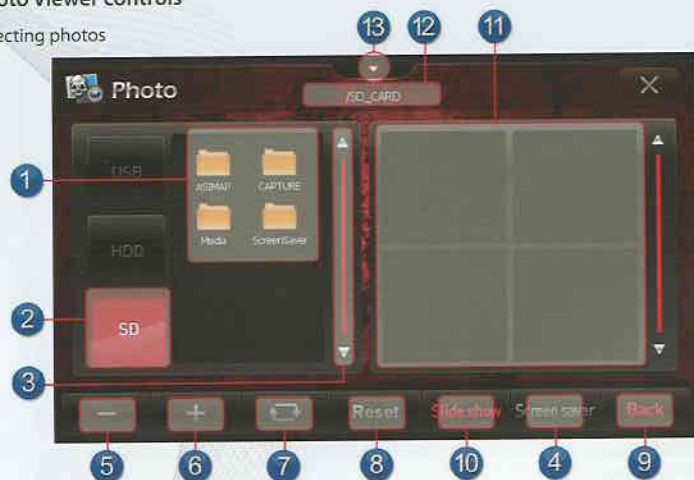


## Photo

Allows user to display images and set wallpaper

### Photo Viewer controls

Selecting photos



- |   |                                    |
|---|------------------------------------|
| 1 File/Folder display window                  | 8 Reset button                     |
| 2 Media selector (SD card currently selected) | 9 Back button                      |
| 3 File/Folder display window slider           | 10 Slide show button               |
| 4 Screen saver selector button                | 11 Picture display window          |
| 5 Zoom out button                             | 12 File/Folder information display |
| 6 Zoom in button                              | 13 Pull down menu button           |
| 7 Flip rotate button                          |                                    |

### Slideshow control panel



- |                                |                           |
|--------------------------------|---------------------------|
| 1 Slideshow time delay options | 8 Flip rotate button      |
| 2 Slideshow direction options  | 9 Reset button            |
| 3 Save button                  | 10 Back button            |
| 4 Cancel button                | 11 slideshow button       |
| 5 Screen saver selector button | 12 Reset button           |
| 6 Zoom out button              | 13 slideshow fade options |
| 7 Zoom in button               |                           |





### Memo Pad

Make and save notes for future reference.



- 1 Memo Note selector buttons
- 2 Font width selector buttons
- 3 Font color selector buttons
- 4 Erase button



### Utility options

- The utility source is a list of programs.
- Inside the utility source you will find six programs
- Texas Hold'em, Biorhythm check, World clock, Scheduler, Car Organizer, and Calculator
- To select the program you would like to open touch either the left and right arrows or the icons in the lower option bar. Once selected touch either the main display window or "Execute" to begin the program.
- While highlighted in the main display window program options will be available.
- "Execute" will begin the program.
- "Registration information" will display program information including title, version, producer, and file size.
- "Registration information" will also allow the user to initialize the program
- "Update" will allow the user to update the program.
- "Initialization" will reset any saved data on the program.



## File manager

Select and transfer Audio, Video, and Image files stored in USB, HDD and SD.

### Managing files



- |                         |                         |
|-------------------------|-------------------------|
| 1 Select all button     | 6 Move file button      |
| 2 Video selector        | 7 delete file button    |
| 3 Music selector        | 8 Pull down menu button |
| 4 Play/pause button     | 9 Pull down menu button |
| 5 Photo selector button |                         |

## iPod

iPod

### iPod control

- iPod use requires the optional IP -5C cable to be installed.
- When your iPod is connected Ingenix will search and Authenticate your iPod before playback is available.
- PLEASE WAIT for the authentication process to finish, it will only take a few seconds to complete.



- When the iPod source is selected the display will appear similar to a standard iPod control



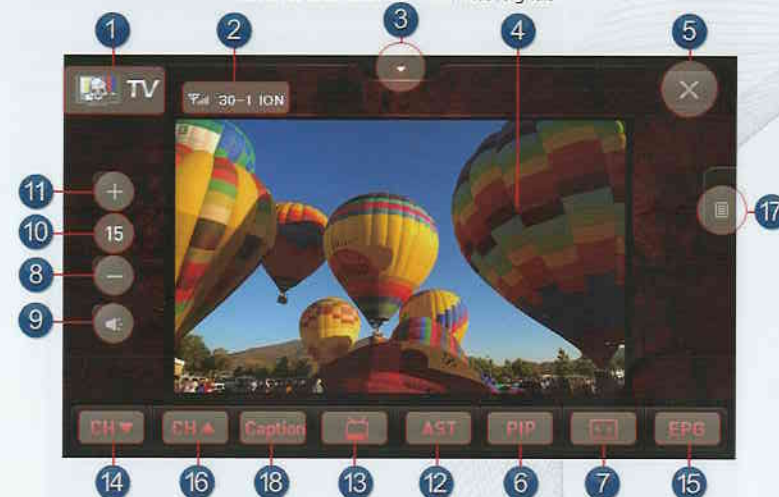
- |                          |                       |
|--------------------------|-----------------------|
| 1 iPod Name              | 10 Volume Down        |
| 2 Exit                   | 11 Mute               |
| 3 Media Navigation Menu  | 12 Picture in Picture |
| 4 Manual Search          | 13 Next Track         |
| 5 Music / Video Selector | 14 Play / Pause       |
| 6 Repeat Options         | 15 Previous Track     |
| 7 Shuffle Options        | 16 OK / Enter         |
| 8 Current Volume         | 17 Menu               |
| 9 Volume Up              |                       |

• The menu button will move backward through the steps previously entered



## Digital TV tuner

Receives local television broadcast signals



Pressing the PIP button will bring up the Navigation picture in picture. Pressing the aspect ratio button will switch between wide screen and standard aspect ratios. Press the AST (automatic station tuning) button to search for stations. The EPG will bring up the electronic program guide (if available). The EPG can display station information including station guide or any information broadcast on the MH band. The first time the TV tuner is used you will need to select the AST button to search for stations. This can also be done to search for stations in a new location. Once the search is complete the channel list button will allow you to see all available stations when pressed. You can directly access the station in the channel list by pressing the station name. You can also surf through channels with the channel up and down button.

- |                      |                             |                             |
|----------------------|-----------------------------|-----------------------------|
| 1 Source Indicator   | 7 Full Screen               | 13 No Function              |
| 2 Current TV Station | 8 Volume Down               | 14 Channel Down             |
| 3 Pull-down Menu     | 9 Mute                      | 15 Electronic Program Guide |
| 4 TV Viewing Window  | 10 Current Volume           | 16 Channel Up               |
| 5 Exit               | 11 Volume Up                | 17 Channel List             |
| 6 Picture in Picture | 12 Automatic Station Tuning | 18 Caption ON/OFF Switch    |



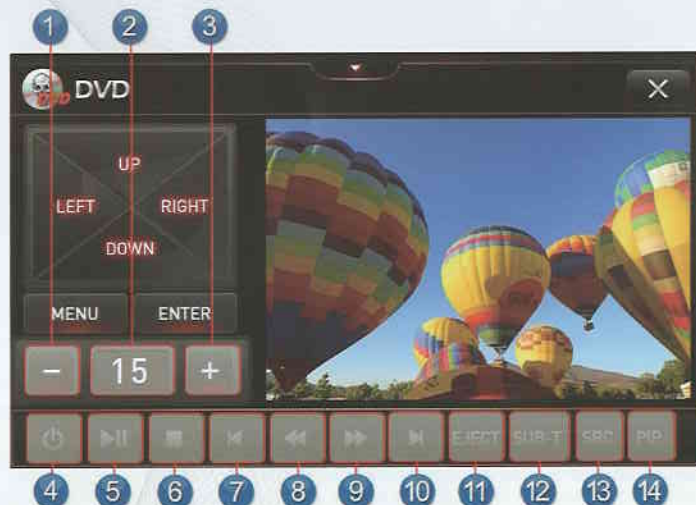


## External DVD

Using (External DVD) requires a supported DVD player

### External DVD player information

- An optional external DVD player can be installed with Ingenix
- Full control of the external DVD player is available through your Ingenix source unit for supported players
- See your Ingenix authorized dealer for information of supported models .



- |                         |                                    |
|-------------------------|------------------------------------|
| 1 Volume down button    | 8 Rewind button                    |
| 2 Volume level display  | 9 Fast forward button              |
| 3 Volume up button      | 10 Next track button               |
| 4 DVD power button      | 11 Eject button                    |
| 5 Play/pause button     | 12 Sub title button                |
| 6 Stop button           | 13 Source selector button          |
| 7 Previous track button | 14 PIP button (Picture in Picture) |

### Picture in Picture controls

Ingenix has an advanced PIP (picture in picture) interface they may take some time to fully understand. Users who do not read this section may find commands given in regards to PIP locations and sizes may not return the desired effect.

- Press the PIP button from the video source you want to run with PIP.
- The location the screen is touched will direct the different responses.
- The shaded box indicates the touch location.
- Regardless of source, Ingenix PIP control are the same for all sources that support PIP. The chart below will display the response from specific commands.

While the PIP image is small and in the upper right. Touching the left side of the image will engage split screen view. Touching the right side of the image will engage the original source full screen.

Screen distortion may occur when changing PIP screen size. This is not a sign of any issue and should be considered normal operation.



While the PIP image is in split screen. Touching the left side of the image will engage full screen view. Touching the right side of the image will engage the small screen view.

## Installation Warnings

# Installation and Connections

Before installing or connecting the unit, please read the following and install guide thoroughly for proper use.

## Warning

### MAKE THE CORRECT CONNECTIONS.

Failure to make the proper connections may result in fire or product damage.

### USE ONLY IN CARS WITH A 12 VOLT NEGATIVE GROUND.

(Check with your dealer if you are not sure.) Failure to do so may result in fire, etc.

### BEFORE WIRING, DISCONNECT THE CABLE FROM THE NEGATIVE BATTERY TERMINAL.

Failure to do so may result in electric shock or injury due to electrical shorts.

### DO NOT ALLOW CABLES TO BECOME ENTANGLED IN SURROUNDING OBJECTS.

Arrange wiring and cables in compliance with the manual to prevent obstructions when driving. Cables or wiring that obstruct or hang up on places such as the steering wheel, gear lever, brake pedals, etc. can be extremely hazardous.

### DO NOT SPLICE INTO ELECTRICAL CABLES.

Never cut away cable insulation to supply power to other equipment. Doing so will exceed the current carrying capacity of the wire and result in fire or electric shock.

### DO NOT DAMAGE PIPE OR WIRING WHEN DRILLING HOLES.

When drilling holes in the chassis for installation, take precautions so as not to contact, damage or obstruct pipes, fuel lines, tanks or electrical wiring. Failure to take such precautions may result in fire.

### DO NOT USE BOLTS OR NUTS IN THE BRAKE OR STEERING SYSTEMS TO MAKE GROUND CONNECTIONS.

Bolts or nuts used for the brake or steering systems (or any other safety-related system), or tanks should NEVER be used for installations or ground connections. Using such parts could disable control of the vehicle and cause fire etc.

### KEEP SMALL OBJECTS SUCH AS BATTERIES OUT OF THE REACH OF CHILDREN.

Swallowing them may result in serious injury. If swallowed, consult a physician immediately.

### DO NOT INSTALL IN LOCATIONS WHICH MIGHT HINDER VEHICLE OPERATION, SUCH AS THE STEERING WHEEL OR GEARSHIFT.

Doing so may obstruct forward vision or hamper movement etc. and results in serious accident.

### HAVE THE WIRING AND INSTALLATION DONE BY EXPERTS.

The wiring and installation of this unit requires special technical skill and experience. To ensure safety, always contact the dealer where you purchased this product to have the work done.

### USE SPECIFIED ACCESSORY PARTS AND INSTALL THEM SECURELY.

Be sure to use only the specified accessory parts. Use of other than designated parts may damage this unit internally or may not securely install the unit in place. This may cause parts to become loose resulting in hazards or product failure.

### ARRANGE THE WIRING SO IT IS NOT CRIMPED OR PINCHED BY A SHARP METAL EDGE.

Route the cables and wiring away from moving parts (like the seat rails) or sharp or pointed edges. This will prevent crimping and damage to the wiring. If wiring passes through a hole in metal, use a rubber grommet to prevent the wire's insulation from being cut by the metal edge of the hole.

### DO NOT INSTALL IN LOCATIONS WITH HIGH MOISTURE OR DUST.

Avoid installing the unit in locations with high incidence of moisture or dust. Moisture or dust that penetrates into this unit may result in product failure.

## Warranty information

- This warranty statement is absolute. No person or organization is authorized to alter this warranty in any way. Any statements made outside of the information list will not be honored.
- Ingenix Models carry a 1 year warranty from the date of original purchase.
- The warranty covers the original purchaser only.

### What is covered under warranty?

- This warranty covers defects in materials or construction of the product
- Parts and labor are covered

### What is not covered by this warranty?

- Damage occurring during the shipping of the product for repair. Such claims must be presented to the shipping carrier
- Damage caused by accident or abuse. The manufacturer reserves the right to determine damage caused by abuse.
- Broken LCD panels
- Dropped or externally damaged product
- Damage caused by negligence, improper operation, or misuse
- Damage caused by an act of God, including but not limited to, fire, flood, earthquake, or other naturally occurring events.
- The cost of uninstalling or reinstalling the covered or uncovered product.
- Changes or modifications made to this product not authorized by the manufacturer
- Any service performed by unauthorized persons, including unauthorized professional repair persons
- Any product with a damaged or missing serial number
- Any product not purchased from an authorized dealer

### State provisional Law

- This warranty gives the owner specific legal rights. You may also have other rights which vary from state to state. Some states do not allow limitations on how long an implied warranty lasts. Some states do not allow the exclusion or limitation of incidental damages. Limitations in regards to these matters may not apply to you.

### How to obtain Warranty service

- In the event your product requires warranty service you must first contact our warranty department (see "Customer service contact information" below)
- You will be required to provide the original proof of purchase, a detailed
- Warranty period is 90 days if self installed. description of the problem or problems with the product
- You will be given an authorization number which must be attached to the product being sent in for warranty service.
- Procedure for obtaining service is subject to change. Contact our Customer service department for the current procedure.



Customer service contact information Tel: (562) 722-3333 Fax: (562) 722-1122

Or visit our website at [www.poweracoustik.com](http://www.poweracoustik.com)

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