APPENDIX H

: USER'S MANUAL

Cover Page

Welcome to Ingenix

Operation manual.

ARTWORK

Contents

Introduction:

Ingenix is an advanced media platform capable of Lightning fast processing, picture in picture or split screen information display, dual zone multimedia playback for rear seat entertainment, Bluetooth hands free calling and music playback, GPS navigation and much more. Many of the features of Ingenix have never been available for in car use until now. Ingenix was designed to anchor your vehicles entertainment system. Along with the convenience of GPS navigation and the safety of a rearview camera. Ingenix offers everything you need and desire. More to come

READ BEFORE USE:

Please make certain that all persons using this In-dash system carefully read these precautions and the following instructions fully.

•Read this manual carefully before using this system components. They contain instructions on how to use this product in a safe and effective manner.

•This product is not a substitute for your personal judgment. Any route suggestions made by this navigation system may never supersede any local traffic regulations or your personal judgment and/or knowledge of safe driving practices. Do not follow route suggestions if the navigation system instructs you to perform an unsafe or illegal maneuver, places you in an unsafe situation, or routes you into an area which you consider unsafe.

•Glance at the screen only when necessary and safe to do so. If prolonged viewing of the screen is necessary, pull over in a safe and legal manner and location.

•Do not input destinations, change settings, or access any functions requiring a prolonged view of the monitor and/or remote control while you are driving. Pull over in a safe and legal manner and location before attempting to access the system.

•Do not use the navigation system to route you to emergency services. Not all locations of emergency services such as police and fire stations, hospitals and clinics are contained in the database. Please use your own judgment and ask for directions in these situations.

•The map database is designed to provide you with route suggestions and does not take into account the relative safety of a suggested route or of factors which may affect the time required to reach your destination. Use your own personal judgment if the navigation system is unable to provide you with an alternate route.

•There may be situations where the navigation system displays the vehicle's location erroneously. Use your own driving judgment in this situation, taking into account current driving conditions. Please be aware that in this situation the navigation system should correct the vehicle's position automatically. However, it is possible you may have to correct the position yourself. If this is the case, pull over in a safe and legal manner and location before attempting operation.

•Make certain that the volume level of the navigation system is set to a level which still allows you to hear outside traffic and emergency vehicles (see navigation operation .

•This product's rated input voltage is DC 12V. Please check your vehicles electrical system before use.

•Radio reset: this should only be used if the product fails to operate properly.

FCC COMPLIANCE STATEMENT:

NOTE- This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by tuning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/television technician for help.

Caution:

Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

RF exposure statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum 20 cm between the radiator and your body.

This transmitter must not be collocated or operating in conjunction with any other antenna or transmitter unless authorized to do so by the FCC.

Warnings:

Points to Observe for Safe Usage

•This manual uses various pictorial displays to show you how to use this product safely and to alert you to potential dangers resulting from improper connections and operation. Following are the meanings of these pictorial displays. It is important to fully understand the meanings of these pictorial displays in order to use this manual and the system properly.

"symbol"

This symbol means important instructions. Failure to heed them can result in serious injury.

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.**

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 minimun 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.

Mounting angle should not exceed 30 degrees.
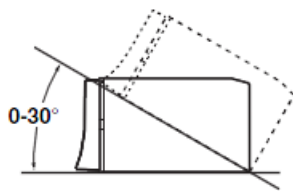
This will not apply to OEM models

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

▣ Basic Package

1. Head Unit

2. Control box and SD Card

3. TRIP box

4. Bracket and Screws

5. External Microphone

6. External Speaker

7. External Remote Eye

8. Main cable

9. TRIP cable

10. External GPS antenna

11. User's manual(CD)

12. Quick Guide

13. Install Guide

14. Warranty Card

Expansion options:

Your new …………….. Ingenix multimedia source unit is capable of many features as you will read about through this operation manual. There are also additional options that can be added. See the options below and contact your nearest Ingenix Authorized dealer for more information.

Ipod interface cable "**IP-5C**" : this optional cable will allow direct control of your Ipod displaying both audio and video on your Ingenix Source unit. The "**IP-5C**" will also keep your Ipod or Iphone charged during use. See the compatibility list below to confirm support for your model.

Ipod compatibility list:

List to come
iPod touch (4th generation)
iPod touch (4th generation)
iPod touch (4th generation)
iPod touch (4th generation)
iPod classic
iPod with video
iPod nano (5th generation)
iPod nano (5th generation)
iPod nano (5th generation)
iPod nano (5th generation)
iPod nano (5th generation)
iPhone 4
iPhone 3GS
iPhone 3G
iPhone

TV Tuner "**ATSC-MH Module**" : the TV tuner module will allow crystal clear digital TV reception through your Ingenix Source unit.

DVD player: Ingenix Source units are prewired for use with external DVD players. Optional supported models are the "**PADVD-450**".

Reverse view camera: Your Ingenix source has connections for a reverse view camera. This dedicated connection will display an onscreen rearview whenever the vehicles reverse gear is engaged.

Remote control: included with non OEM units. Optional only on OEM units. A remote control is available for you Ingenix source unit. The remote comes in very handy for control while driving as you do not need to take your eyes off the road enter commands.

Starting to use Ingenix

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

OPERATION:

Home Screen

Day screen

Night screen

Text and better picture to replace above

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 of 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 centered touch again to open the option.

Creating you quick access links

The second main area of the home screen of the quick access links in the upper section of the screen. 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 Bluetooth music is moved from the slider to the quick access links whatever option the Bluetooth music source replaces will be moved to the slider where Bluetooth 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.

● Once the option is 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.

- Touch the Marquee banner to access the keyboard.
- Type whatever statement you like then press enter.
- The Home screen will be displayed with your statement running across the Marquee.

Pull down menu in Home Screen.

Pull down menu

At the very top of the almost every source you will notice a small icon " pic needed". 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.

In this menu you can access six options.

- Home screen   the Home screen icon will return the system to the home screen from whatever source is active.

  - The   Navi 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 by pressing the "ON" button.

  - Clock settings   this icon will open the clock settings menu. Need screen shot of clock settings, not the same as the given manual.
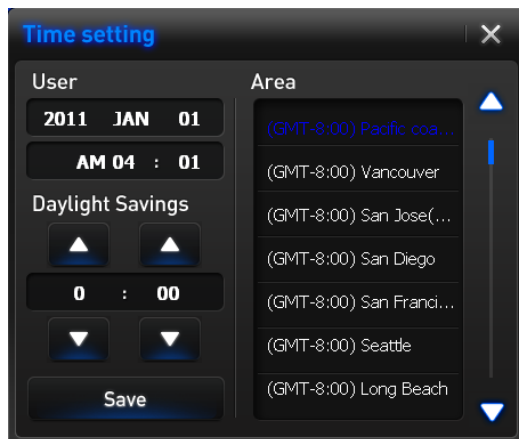
  - Info center "   as the unit does not display trip info" icon image needed. the info center icon will display OEM information (OEM Ingenix only) including clock, multi disc changer, CD, AM/FM tuner information, and climate control information.
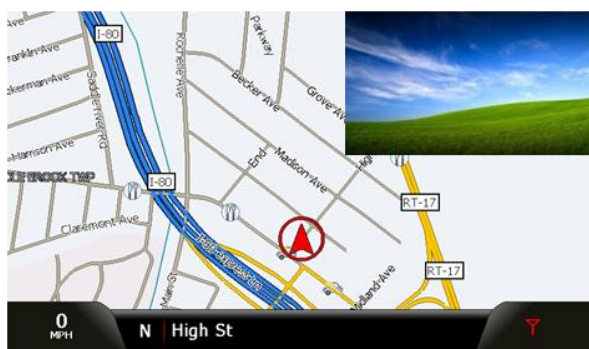
  - Screen saver   the screen saver icon will allow you to display the screen saver. Simply touch the screen in any location to return to the previous source.

Navigation

NAVI MENU on the unit to activate the navigation system.
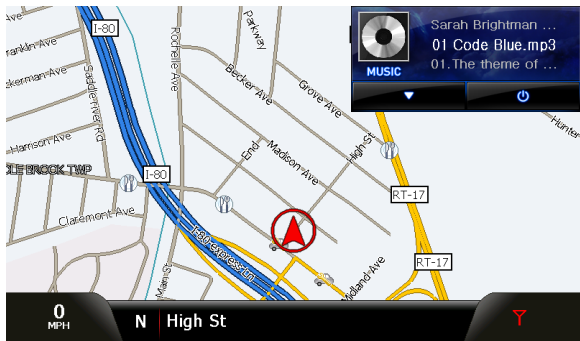
▣ Using Navigation

.

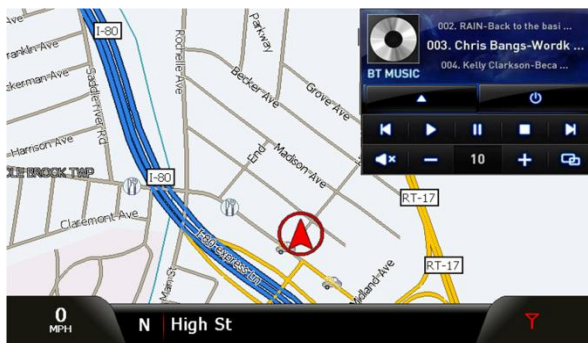## [To use PIP on the navigation]

- menu to select the Main screen. ▽ -> 🏠

- You can choose from Video, Music, iPOD, TV, External DVD, BT music.

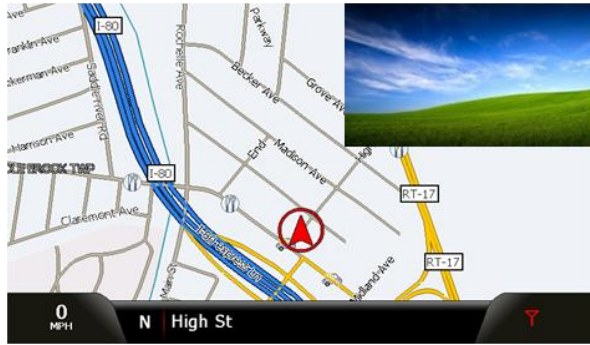- The ability to select the following appears.
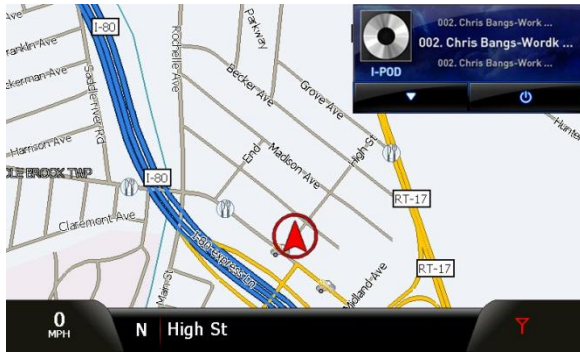
- iPOD and navigation can be run simultaneously

- Music and navigation can be run simultaneously

- BT Music and navigation can be run simultaneously

● Video or TV or External DVD and navigation can be run simultaneously

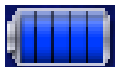## Bluetooth Phone

Allows for hands free calling

Icons can be listed by lines over product display image not each one as below.

Bluetooth Icons:

 Bluetooth signal strength

 Battery life indicator

 Incoming call

 Outgoing call

 Missed call
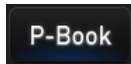
 Select call number

 Pair a device

 Delete a call

 View to recent call list

 View phone book

 Dial/Accept call

 End/Ignore call

 Private call

 If you press the one character is erased. Press and hold is cleared.

 Auto answer/Auto connection setting.

 Volume down/up

Bluetooth

BLUETOOTH is a wireless technology allowing communication between a mobile device or personal computer over short distances. This enables a hands-free call between BLUETOOTH compatible devices.

How to connect to a BLUETOOTH compatible device (Pairing)

add screen shots for each step.

Pairing sequence: Pair ->New device -> Product Name PIN code "XXXX"

- Entered to Bluetooth mode

-
- Press to begin pairing and select "New Device"

- Product brand name and PIN code will be displayed on the upper left side of the display screen. *Note: The system will remain "visible" to searching phones for 90 seconds.*

- Select search for device from you mobile phones Bluetooth options. *Note: wording and process may differ from one phone to another. See owner's manual for your particular phone for more information on searching for Bluetooth devices.*

- Follow instructions listed on your mobile device and enter the displayed PIN when prompted.

- You may need to set your phone to automatically connect to your Ingenix source unit for ease of use. This will allow your mobile device to auto connect each time the source unit is powered up providing the phone is within range. The phone will also auto disconnect each time the source unit is powered down. *Note this may also be considered "adding as a trusted device" please consult your mobile device owner's manual for more information.*

Using Bluetooth Phone Functions

Making a call: calls can be made through the various methods listed below.

- The first option is simply call from your phone as you normally would. All sound will be heard through your source unit. Calls can be ended or started through either the phone or the onscreen display.

- The second option is on screen dialing. Use the keypad on the Ingenix touch screen to dial the desired phone number. Press send to begin the call.
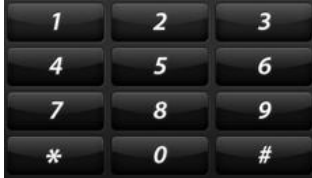
- The third option is through phone book. Press the [P-Book] button on the display. This will access the phonebook stored on your phone and allow direct calling of contacts listed.

Searching your phonebook through Ingenix

- On some mobile devices you may need to transfer contact data manually. This is sometimes called "force" or "push". Consult you mobile devices operation manual for more information.

- Searching through contacts on your Ingenix source unit is rather simple. We need to decide on a letter search or just the slider.

Pull down menu in Bluetooth Phone source

- While operating in the Bluetooth phone source the Navi PIP button will switch to full screen Navigation when selected. *Note: the Navi PIP button will not switch back to Bluetooth Phone when pressed from the Navigation source.*

- All other pull down buttons have standard function as listed in the page ???

Bluetooth audio control
Allows playback of media from a Bluetooth device

BLUETOOTH is a wireless technology allowing communication between a mobile device or personal computer over short distances. You can listen to audio files stored in Bluetooth audio player or mobile device.

Note: To pair your Bluetooth device see ***How to connect to a BLUETOOTH compatible device (Pairing)*** on page *"")"""*

Button overview mark each button and label as below

Will mute the volume. Press again will turn off.

Volume up/down.

Stop

Pause

Play

Previous Track

Next Track

Registers the Bluetooth unit to be connected.

(Picture in picture): BT audio and navigation can be run simultaneously.
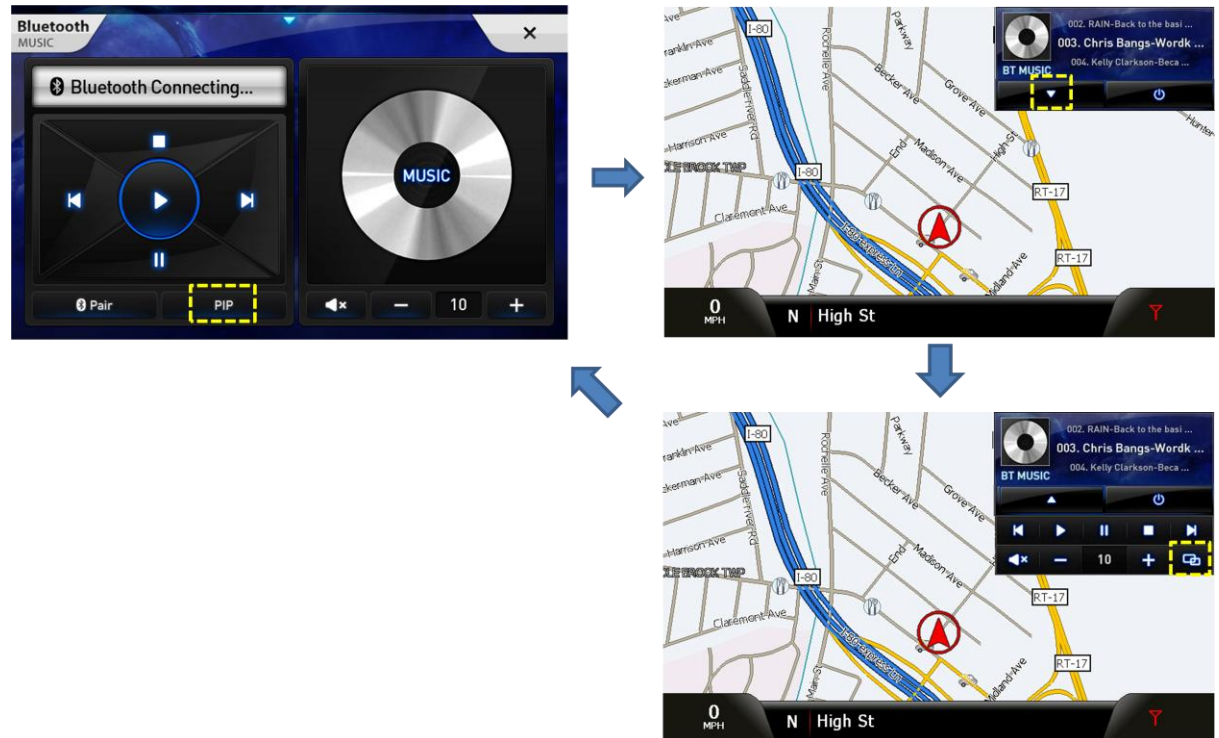

Control Interface

- Pressing the Play button will begin playback of media stored on your mobile device
- Pressing the Pause button will pause playback. Press
- Pressing the Forward button will skip the current track and begin the next.

- Pressing the   Reverse button will skip back to the beginning of the current track. If the track

  is fewer than three seconds into the song this button will skip to the previous track.
- Press the   Stop button to stop music playback

- Pressing the   Mute buton will mute the playback

- When muted the icon will change to

- Press the   again to resume the volume level. Pressing the volume up or down will also

  resume the volume level.
- Press the   Volume button to increase volume and the   Volume button to

  decrease volume
- Volume level will be displayed between the volume up and down buttons.

Note: control of media played on your Smartphone through the internet may be supported.

Pull down menu in Bluetooth Music source

- When the Bluetooth music source is started Ingenix will determine if Navigation is running.
- If Navigation is running the small Bluetooth music menu will display in the upper right hand side of the screen.
- This window will allow you to access the controls of your Bluetooth device without leaving the navigation screen.
- Pressing the down arrow on the menu will enlarge the window and display full control over Bluetooth music functions.
- The PIP button in the small Bluetooth menu will run Bluetooth music in full screen.
- While in the Bluetooth music screen the Navi PIP button will switch between the Bluetooth music and navigation sources.
- Pressing the PIP button on the lower section of the Bluetooth music source will switch to Navigation and display the small Bluetooth music menu in the upper right hand side.
- All other pull down buttons have standard function as listed in the page ???

AM & FM Tuner controls
To come after testing

SD/ USB playback controls

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

Main control interface
This section will help you get the most out of your Ingenix source unit's media playback. Take some time to familiarize yourself with buttons located on the main control interface.. While the interface is quite intuitive it may take some time to understand all the options available at your fingertips.

- The main control interface is located on the bottom half of the screen.

- Pressing the ▶ large center button will pause playback and change the button to ⏸ . Pressing button again will resume playback.
- Pressing ⏭ will skip ahead in your playlist.
- Pressing ⏮ will skip back in your playlist.
- Press ■ to stop music playback
- Pressing 🔊 will mute the playback
- When muted the icon will change to 🔇
- Press the 🔇 again to resume the volume level. Pressing the volume up or down will also resume the volume level.
- Press the + to increase volume and — to decrease volume
- Volume level will be displayed between the volume up and down buttons.
- The playback button has three steps

⟳All **Repeat all** will repeat all tracks

⟳1 **Repeat** will repeat the current track

⟳R **Random** will randomly select tracks from your playlist to playback

- Pressing the 📁 file manager button will access the file manager. *see the section labeled "Creating and accessing a playlist" on page """*
- Press the 📋 playlist button to access your current playlist. In this menu you can directly skip to a song in your playlist for playback. Touch the up or down buttons to move through your playlist. You can also touch the slider to move through your playlist faster. Press the "X" on the upper right side to exit the playlist.

Lined section with description below for each button

Creating and accessing a playlist

- To create a playlist for listen you must first access the files you wish to add.
- Come back to this after testing
- To save music to a playlist all songs must be in the same folder
- Files can be moved to different folders to allow for larger playlists.

Equalizer

- The EQ icon will access the equalizer options. There are ten Equalizer presets as well as two user presets
- Press any desired Equalizer preset to adjust the different sound options.
- When finished press the X on the top right of the equalizer window to return to the music player.

Equalizer user presets

- User presets can be set at any desired levels and will automatically save for future use.
- To set a user preset first select either User 1 or User 2 then adjust the equalizer band by pressing the level you desire. To increase the frequency press a higher point to decrease press a lower point.
- When finished press the X on the top right of the equalizer window to return to the music player.

Main display

- The main display shows information about the media you are listening to.
- Song title and track number will be displayed at the top of the screen.
- Album art will be displayed in the center of the screen for the current, previous, and next track.
- Time status bar is located at the bottom of the main window.
- Time played will be displayed on the left and total track time is displayed on the right.
- Pressing the time status bar will allow for skipping to any point on the track.

Secondary display

- The display at the bottom center of the screen can display one of two options at a time.
- Either the spectrum analyzer or file captions can be displayed.
- Spectrum analyzer will display a graph showing frequency responses from the music playing. Lower frequencies are to the left while higher frequencies are to the right.
- The Caption option is the second option which will display text information from the file currently playing if the file contains supported information. Ex: song title, artist etc.

Display options

- It is possible to change the colors of both the spectrum analyzer and the Text of Captions.
- Press the to access display options.

- The spectrum analyzer has three color options. Blue, Violet, and emerald.
- Caption text has five color options. Yellow, Blue, Red, Black, and White.
- Touch the button with current color list to cycle through the other color options.

Pull down menu in the Music player source

- When the Music player source is started Ingenix will determine if Navigation is running.
- If Navigation is running the small Music palyer menu will display in the upper right hand side of the screen.
- This window will allow you to access the controls of your SD,USB, or hard drive device without leaving the navigation screen.
- Pressing the down arrow on the menu will enlarge the window and display full control over the Music Player functions.

- The PIP button in the small Music Player menu will run Music Player in full screen.
- While in the Music Player screen the Navi PIP button will switch between the Music Player and navigation sources.
- Pressing the PIP button on the lower section of the Music Player source will switch to Navigation and display the small Music Player menu in the upper right hand side.
- All other pull down buttons have standard function as listed in the page ???

Set up
should be labeled "Settings"
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
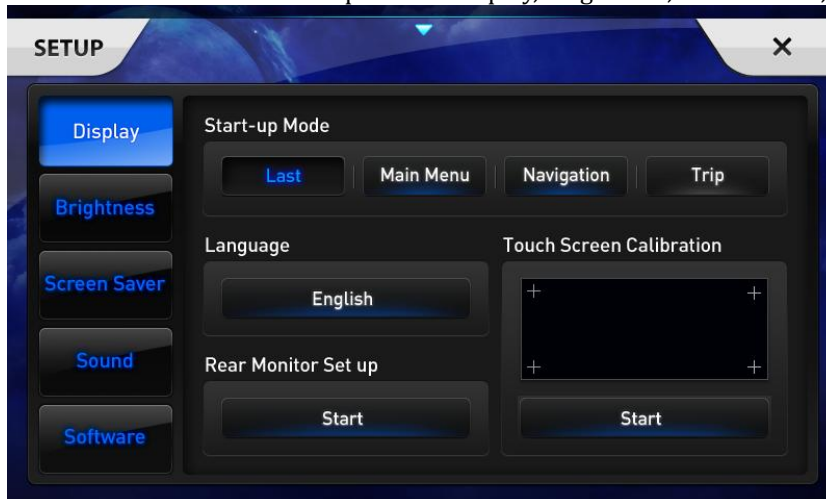
Display:

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
  Driving Alert
    - Selecting driving Alert to" on" will enable ?????
    - → MENU deleted

Touch Screen Calibration

- Press "Start" to begin touch screen calibration *need screen shots*

Carefully press and briefly hold stylus on the center of the target.
Repeat as the target moves around the screen.

- Press and hold the "+" mark on the screen for a brief moment
- 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.
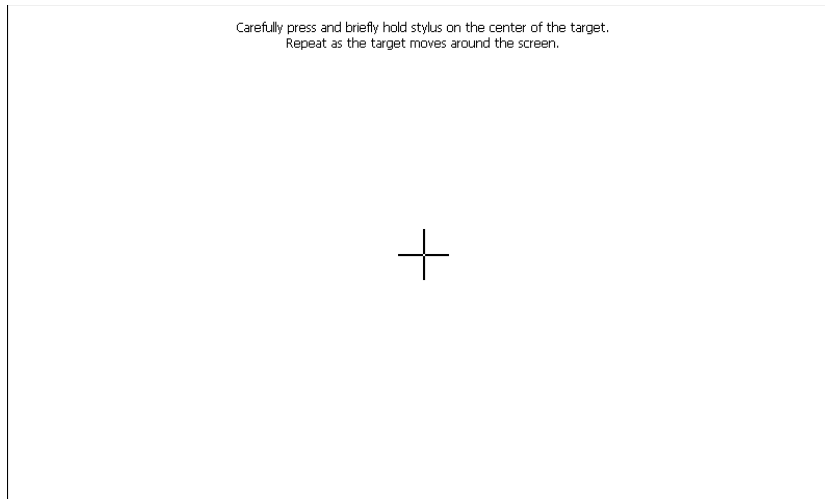
Rear Monitor Set up
- Press the Rear Monitor Set up button to begin set up.
- The Rear monitor menu allows the user to change position and size of the image on the external monitor if needed.
- Position will allow the user to move the image to a different location on the external monitor.
- Press the 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 of the interface to increase or decrease the width of the image.

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

Brightness:
Automatic Dimmer
- The Automatic Dimmer 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 changes take effect.
- Reset allows the user to bring all Brightness settings back to factory default.

Screen Saver:
- 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 desire 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: need screen shot
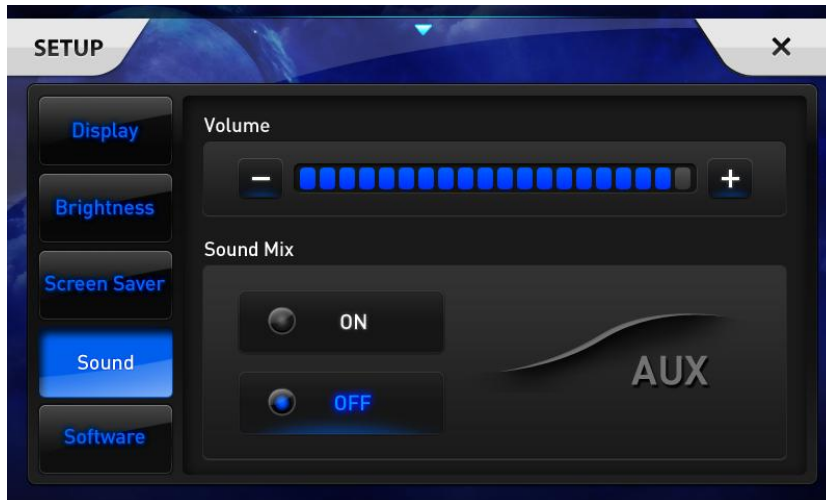
Volume
- Press the + to increase volume and – to decrease volume.
- You can also directly touch the point of the volume bar you wish to set volume for faster response.

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.

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

AV IN
Selects rear camera or AV unit to connect.

Using AV IN

- The AV in source will playback any Audio and or video that is connected to the AV input
  Need picture of AV input jack that corresponds to model
- 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 [20] 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 in the page

Photo
Allows user to display images and set wallpaper

Photo Viewer controls

Selecting photos

- When the photo viewer first started Ingenix will ask you select photos you would like to see.
- First select where the photos are located.
- Press one of three tabs on the left.
- "SD" for SD cards, "HDD" for hard drive. Or "USB" for USB memory stick *"sometimes called thumb drive"*
- Select the folder the desired photos are located in *Note: folders may be inside of other folders*
- Once a photo is selected all photos in the same folder will be accessible through the main control panel.

Main control panel
- The left and right and right arrows will move forward and back through all images in the current selected folder.

Screen saver
- The screen saver button will save the current selected image to the Ingenix Screen saver.

Zoom feature
- The – and + buttons will allow the user to zoom in and out of the current selected image.
- While zoomed, touching the image will center the image at the location touched.
- Pressing reset will reframe the image back to the original location and size.

Image rotation

- Pressing the rotate image button will rotate the image.
- Each time the rotate image button is pressed the image will rotate 90 degrees clockwise.

Back
- The Back button will return the user to the previous screen

Slideshow
- The Slideshow button will access the slideshow control panel
- See "slideshow control panel" on page ??? for information on controls for slideshow.

Slideshow control panel

Time set
- Time set allows user to select the delay time between photos during slide show playback
- 3,5,or 10 second intervals can be selected.

Direction
- This feature allows the user to select the direction pictures will transfer during slideshow.
- Pressing the up arrow will slide photos upward when replacing with the next.
- Pressing the down arrow will slide photos downward and so on…

Fade options
- Pressing the fade in option will render new images during slideshow from top and bottom toward the center.
- Pressing the fade out option will render new images during slideshow from center toward the top and bottom.

Save Cancel and Reset
- After changes are made you must save to have the changes take effect.
- Cancel will disregard changes currently made to slideshow settings.
- Reset allows the user to bring all slideshow settings back to factory default.

Image display Window
- The image display window will show an example of your slideshow including settings that have been made.
- Press the image display window to enlarge the slideshow to full screen.
- Touching the screen while in full screen mode will return the user to the Main control Panel.

Back
- The Back button will return the user to the previous screen

Pull down menu in the Photo source

- While operating in the Photo source the Navi PIP button will switch to full screen Navigation when selected. *Note: the Navi PIP button will not switch back to Photo when pressed from the Navigation source.*

- All other pull down buttons have standard function as listed in the page ???

Memo Pad
Allows the user to save notes for future reference.
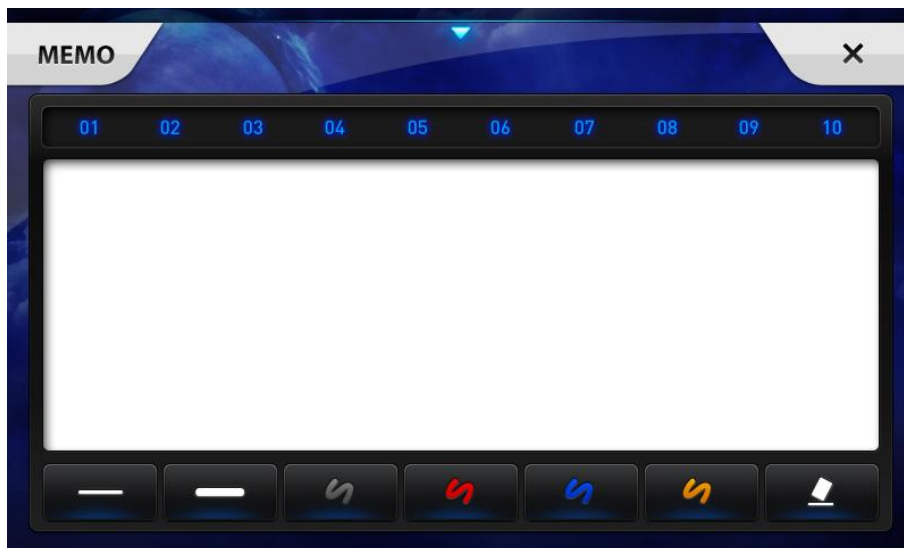
Memo Pad interface
- The memo pad interface screen allows the user to write or draw note to be saved for future reference.
- Up to 10 memo notes can be saved at one time.
- Users have the four optional colors and 2 optional writing sizes to choose from.

Using the Memo pad
- Select which memo note you are storing by pressing [01] through [10] buttons at the top of the screen.
- Select writing width by pressing the [—] or [—] buttons.
- Select your desired color by pressing one of the [ ], [ ], [ ], [ ] color buttons.
- After writing your memo the note will remain in the selected memo location ([01] through [10]) unless erased
- Pressing the [ ] erase button will erase only the select memo note. All notes in other locations will remain.

Pull down menu in the Memo Pad source

- While operating in the Memo Pad source the Navi PIP button will switch to full screen Navigation when selected. *Note: the Navi PIP button will not switch back to Memo Pad when pressed from the Navigation source.*

- All other pull down buttons have standard function as listed in the page ???

Utility
Games, Biorhythm check, World clock, Calculator, and Scheduler
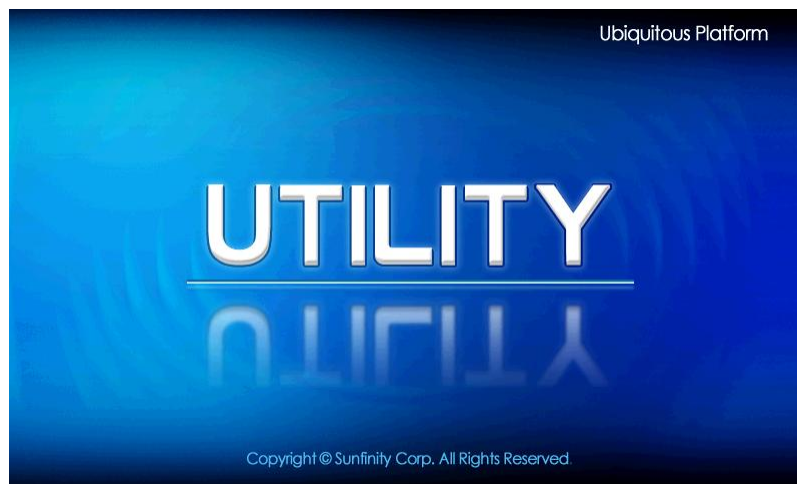
Utility options

- 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.

Texas Hold'em
Need translation for this section. We should either delete or replace this.

- Texas Hold'em style poker game

Biorhythm

- Biorhythm is an attempt to predict various aspects of a person's life through simple mathematical cycles.
- According to believers in biorhythms, a person's life is affected by rhythmic biological cycles which affect one's ability in various domains, such as mental, physical, and emotional activity.
- These cycles begin at birth and oscillate in a steady sine wave fashion throughout life; thus, by modeling them mathematically, a person's level of ability in each of these domains can be predicted from day to day.
- To begin tuning your biorhythm by selecting one of the five user presets.
- Enter the your year, month, then day of birth.
- After birth date is entered press "Enter" to save information to that user location.
- Press "OK" to display Biorhythm information.
- The arrow keys at the top of the screen will move forward or back through the calander and display your biorhythm at different dates.
- The ... key will move by year, the ... key will move by month. And the ... key will move by day.
- Pressing "User Select" will return to the user selection screen.
- Pressing "Monthly Biorhythm" will display your biorhythm sine wave.
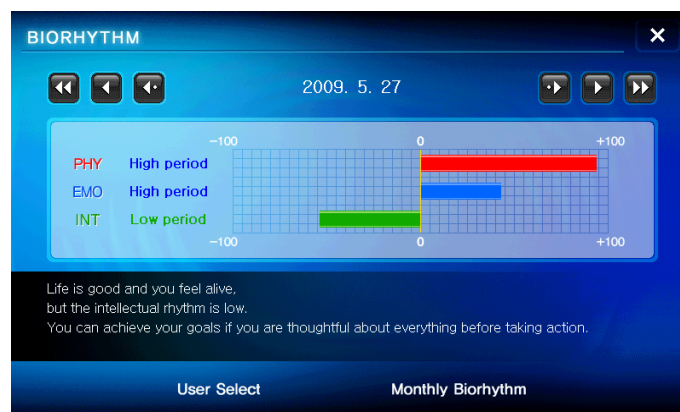

Calculator

- The calculator program is a standard calculator
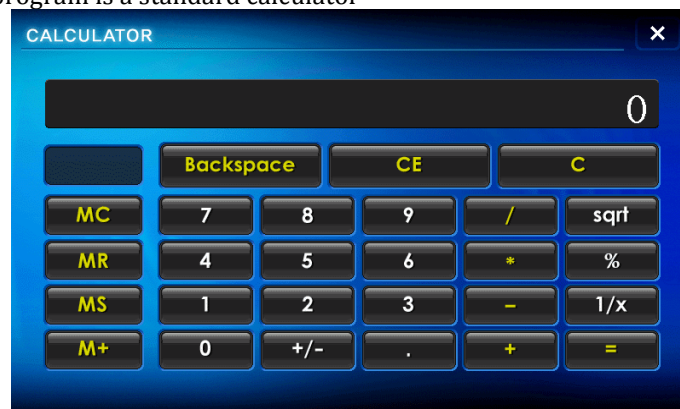
Car Organizer

- The Car Organizer will allow the user to enter vehicle records in the calendar.
- First select a date.
- The ... arrow key will move through months
- The ... arrow key will move through years

- Lastly select the day you wish to enter information.
- Press the "Enter Contents" key
- You will have four options in which to enter information
- The four options are "Payment status, Repair status, Tax related, and Option status"
- Each option will have sub categories.
- Select the sub category that applies to the information to be entered.
- Press "OK" to select the sub category.
- A data table or tables will be displayed.
- Enter the data and select "OK"
- Data will be entered to the organizer and the daily information screen will be displayed.
- Press "OK" again to return to the monthly display.
- "View list" will display the daily information screen.
- "View Graph" will display the annual graph.
- To exit Car Organizer at any time press the "X" in the upper right corner.
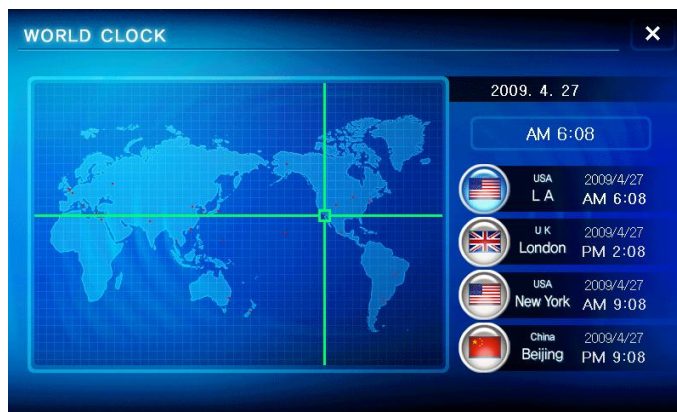- Need screen shots
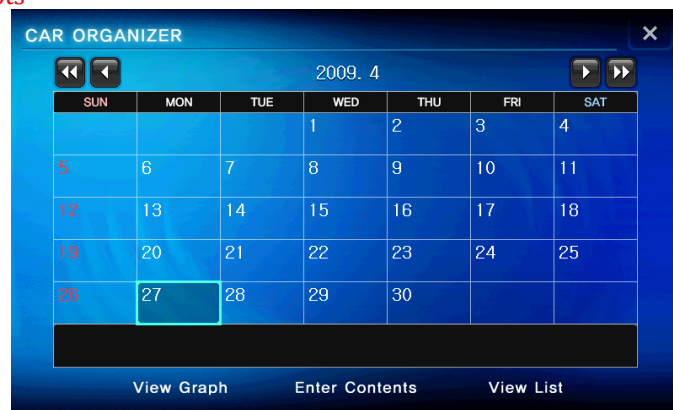
Scheduler
- The Scheduler allows the user to enter their daily schedule and future appointments.
- First select a date.
- The … arrow key will move through months
- The … arrow key will move through years
- Lastly select the day you wish to enter information.
- Press the "Enter Schedule" key
- The enter schedule menu has five sections to customize your appointment information.
- "Importance" allows the user to label the appointment with four levels of importance labeled A,B,C, and D.
- "Classification" allows the user to label the type of appointment in one of three groups labeled Work, Individual, and Miscellaneous.
- "Date" allows the user to change the date of the appointment.
- "Time" allows the user to select a start time and end time of the appointment. *Note: after highlighting the time press again to select that time.*
- "Content" allows the user to enter text information regarding the appointment.
- After entering the desired information press "OK" to save or "Cancel" to disregard.
- After pressing "OK" or "Cancel" the daily information screen will be displayed.
- In the daily information screen you can modify current appointments, delete current appointments, or add new appointments.
- Pressing "OK" will return to the monthly information screen.
- While viewing the monthly information screen the… return arrow key will return the user to the current date.
- While viewing the monthly information screen the "View Schedule" button will access the currently selected daily information screen.
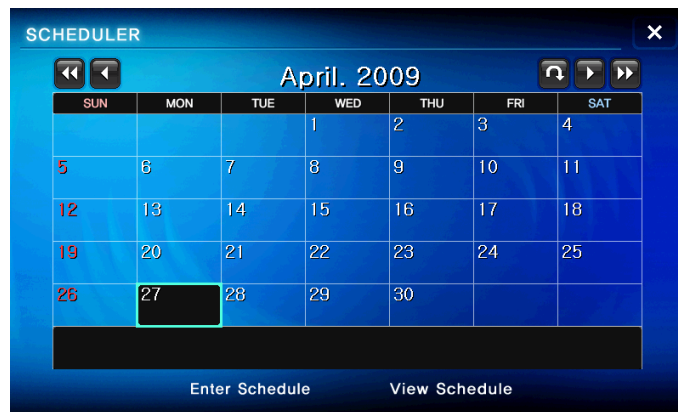
World Clock

- The world clock program allows the user to see the current time in twenty five different cities around the world.
- Four cities can be saved into the main screen.
- To change one of the listed cities press the Flag button for the city to be replaced.
- The full list of available cities will be displayed press the desired city to replace the previously selected city.
- Pressing the location on the map will display that cities' current time in the top location.

Need more user screen shots.

Pull down menu in the Utility source

- The pull down menu is not available while running the utility source

File manager

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

Managing files

- To begin managing files first select the location of the files.
- Select form the three storage devices available.
- "SD" for SD cards, "HDD" for hard drive. Or "USB" for USB memory stick *"sometimes called thumb drive"*
- Select the folder the desired file is located in. *Note: folders may be inside of other folders*
- All file types will be displayed unless the user selects a specific file type.
- To select a specific file type press the "Video", "Music", or "Photo" buttons on the bottom of the screen.
- Files will be tagged with the following images indicating the media type.
- Video file Music file Image file
-
- When selected only files of that type in the selected folder will be displayed.
- To deselect the specific file type press the currently selected button again.
- Once the desired files are visible the user has the option of selecting files one by one or all the files available.
- To select files one by one touch the file name.
- When selected the file name will be highlighted.

- To deselect the file press the highlight file name.
- Pressing "Select all" on the bottom left of the screen will select all files available in the currently selected folder.
- Once the desired files have been selected the user has the option of opening the file/files, moving them to a different location, or deleting the selected file/files.
- To open the selected file/files press the ▶ play button.
- To delete the selected file/files press the 🗑 delete button
- To move the file/files press the **Move** move button.
- After selecting the move option "Moving selected file" will be displayed.
- The "move" button will change to "paste"
- Select the location you would like to move the file/files to using the USB,HDD, or SD tabs on the left and the folders inside each storage device.
- Once selected press the paste button to move file/files to the selected location.
- Moved files are no longer located in the original location. Ex: if you move a music file from a USB flash drive to an SD card the file will be deleted from the USB flash drive and be available only on the SD card.

Note: files not listed are not supported by Ingenix at this time.

Pull down menu in File Manager

- While operating in the File Manager the Navi PIP button will switch to full screen Navigation when selected. *Note: the Navi PIP button will not switch back to File Manager when pressed from the Navigation source.*

- All other pull down buttons have standard function as listed in the page ???

Optional Sources

I-POD

Ipod control
- **Ipod use requires the optional "IP-5C" cable to be installed.**
- **When the Ipod source is selected the display will appear similar to a standard Ipod control**
- **Come back after testing**

Digital TV tuner

TV 32–1 PBS Mobile ✕

PIP | ◀)) | AST | EPG | Caption
| – 19 + | CH▼ | CH▲

TV ✕

18

PIP | ◀)) | AST | EPG | Caption
| – 19 + | CH▼ | CH▲

No information yet

External DVD

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.
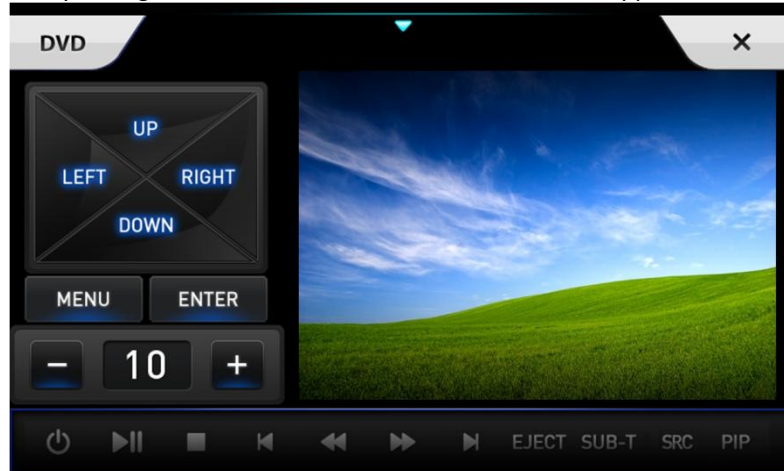
Using an external DVD player with Ingenix

- When the DVD source is selected the main menu will display.
- The "Up", "Down". "Left", and "Right" buttons will allow the user to navigate the DVD's menu
- The "Enter" button will select the currently highlighted option of the DVD menu.
- The "Menu" button will recall the DVD's menu at any time.

- Pressing the ➕ button will increase volume

- Pressing the ➖ button will decrease volume
- Volume level is displayed between the volume controls.

- Pressing the **10** volume display number will mute audio

- 🔇 will be displayed while muted pressing again will resume sound levels.

- Pressing the ⏻ power button will turn the DVD player off.

- Pressing ⏯ play/pause button will pause the video playback.

- Pressing the ⏯ play/pause button again will resume playback.

- Pressing the ⏹ stop button will stop playback

- Pressing the ⏭ skip ahead button will skip the current chapter and begin the next.

- Pressing the ⏮ skip back button will return to the beginning of the current chapter.

- Pressing the ◄◄ skip back button two times will return the beginning of the previous chapter. *Note: if playback is less then 3 seconds into the chapter pressing skip back will start the previous chapter.*

- Pressing the **EJECT** eject button will eject the Disc from the drive.

- Pressing the **SUB-T** sub title button will shift though sub title options.
- Sub title list

- Pressing the **SRC** source button will test

- Pressing the **PIP** picture in picture button will access the GPS navigation.
- If GPS navigation is currently running the DVD playback will appear in the upper right side of the screen while GPS information will be displayed in the remainder of the screen.
- If GPS navigation is not currently running pressing the picture in picture button will start the GPS.
- For PIP controls see "Picture in Picture Controls" on page ???

Note: DVD players that are not supported my not function through Ingenix as described.

Glossary

Troubleshooting

In Case of Difficulty

If you encounter a problem, please turn the power off, then on again. If the unit is still not functioning normally, please review the items in the following checklist. This guide will help you isolate the problem if the unit is at fault.

Basic
No function or display.
 •ACC on a vehicle, please make sure it is.
 •Make sure the Multi box is switched on.
No sound or unnatural sound.
 •Car audio is muted the sound does not come out.
 •Check the AUX cable connection is normal.

Screen not displayed.
- Brightness control is set at the minimum position.
    - Adjust the Brightness control.
- Temperature in the vehicle is too low.
    - Increase the vehicle's interior temperature to operation temperature range.

The remote control is inoperative.
- Are there any cabling problem?
- Check the batteries of the remote control.

The vehicle's position is erroneous.
- The GPS reception is poor.
    - Drive the vehicle in an area of good GPS reception to allow the unit to recalibrate itself. Move to a location where strong GPS reception is possible.

Map is no operation
- Make sure your SD card insert.
- Maps are stored in SD card check for damage.

Ingenix specifications

General

Power supply :   12VDC (11-15VDC) range
Maximum current consumption: **800mA**
Operating temperature: 32℉ – 110℉
Processor speed: 700 Mhz
NAND flash Memory: **128MB**

Monitor

Screen size :   8" diagonal
Aspect ratio: 16 X 9
Resolution: 800 X 480
Pixels per square inch: 14,066
Note: at 50" Monitor at 1080x1920 or (1080P) is 1,941 pixels per square inch
Backlight: LED

Audio

Maximum power output:
Pre-amp output: 4.0 V
Equalizer: **5 band**
Equalizer frequencies: **62/100Hz, 396Hz, 1KHz, 2.51Khz, 15/16KHz**
Equalizer adjustment: +/- 15dB

Media player
File support: mp3,flac,wmv,wma,ogg
Hardware support: USB2.0 to 32GB capacity
                                               SDHC to 32GB capacity
                                               HDD to 250GB capacity

Bluetooth
Version: **2.0**
mOutput power: **0dBm**

1. 8" high-resolution LED backlit LCD display 800 x 480
2. Pixels per square inch 14,066 *Note: at 50" home TV at 1080x1920 or (1080P) is 1,941 pixels per square inch*
3.
4. Supports I-pod and I-phone interface.
5. Bluetooth hands-free operation and Bluetooth Music (A2DP) Bluetooth version
6. Extended memory interface (SD card, USB stick, HDD)

7. Built in 128MB NAND Flash, 256MB DDR2 SDRAM

8. USB 2.0 Host, USB2.0 Device and OTG support

support
special note
Ingenix supports FLAC

FLAC stands for Free Lossless Audio Codec, an audio format similar to MP3, but lossless, meaning that audio is compressed in FLAC without any loss in quality. This is similar to how Zip works, except with FLAC you will get much better compression because it is designed specifically for audio, and you can play back compressed FLAC files in your Ingenix multimedia source just like you would an MP3 file.

Ipod compatibility
iPod touch (4th generation)
iPod touch (4th generation)
iPod touch (4th generation)
iPod touch (4th generation)
iPod classic
iPod with video
iPod nano (5th generation)
iPod nano (5th generation)
iPod nano (5th generation)
iPod nano (5th generation)
iPod nano (5th generation)
iPhone 4
iPhone 3GS
iPhone 3G
iPhone

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 ?? 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 coverd

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 ontact information" below)
- You will be required to provide the original proof or purchase, a detailed 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
1-800 ?????

Or visit our website at www.soundstream.com

1550 S Maple Ave
Montebello, CA 90640 USA