

# APP-TRONICS

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## SMARTNAV 5



**Operational Manual**



## Introduction to your SmartNav 5 from App-Tronics

*The SmartNav 5 is the first truly captive all-in-one rearview mirror offering users GPS navigation with turn-by-turn directions from iGO Primo. SmartNav 5 also features DVR continuous recording, reverse HD camera, Bluetooth 4.0, music player, video player and a photo viewer with upload capabilities from one of its two Micro 32GB SD card slots. This is all on a 5 inch captive one-touch screen on a standard size rear view mirror with an easy to use interface and OEM mounting.*

*SmartNav 5 now comes standard with the same wireless technology that our Stealth Interceptor systems use, allowing for SmartNav 5 owners to purchase and use the Stealth System components through its "Drive Application". This allows you to receive alerts from the front bumper mounted Radar Detector and Laser Diffusers.*

*Its new interface also allows for driver preference when it comes to viewable icons. As few as 3 to 6 icons can be chosen to be displayed on the 5 inch touch screen. The screen and captive display allow the driver to see right through the image to safely see behind them. The screen display can be turned off while still receiving turn by turn directions from iGo Primo also allowing driver to hear their selected music or media files. SmartNav 5's "Drive Application" can process your incoming calls and your music selection by automatically prioritizing what the driver needs to hear, making sure the driver never misses an important turn from GPS or an important call.*

*App-Tronics motto "Details on their own can mean little, together they mean everything" is how this company was started. Perfecting every aspect of the products' use and performance has always been our goal. When you see the SmartNav 5 for the first time, you will appreciate the dedication the staff at App-Tronics has put into this product. This is what makes the SmartNav 5 the benchmark in applicational rear view mirrors that will never be challenged.*

Best,

Julie Lynn  
App-Tronics, LLC  
Director of Customer Support  
And Media relations

## Disclaimer for general purpose and use of our products:

Driver acknowledges that the media player is not to be used by the driver when the vehicle is in motion. Driver shall be obligated to notify anyone who takes over operation of the vehicle while the media player is turned on and that it is not to be used by the driver when the vehicle is in motion. Driver acknowledges that he or she has been made aware of this disclaimer before turning on the media player.

THIS IS TO INCLUDE THE MISUSE OF ANY APPLICATION ON OUR PRODUCTS. THAT COULD CAUSE DRIVER DISTRACTION OR UNSAFE DRIVING.

BY PURCHASING OUR PRODUCTS YOU AND YOU ALONE, NOT APP-TRONICS, LLC OR ANY AFFILIATION OF APP-TRONICS, LLC IS RESPONSIBLE FOR USING THE PRODUCT PURCHASED IN A SAFE AND PROPER MANNER THAT IS IN ACCORDANCE WITH STATE DRIVING LAWS WHERE OUR PRODUCTS ARE USED.



SmartNav 5's come equipped with the same wireless technology as our Stealth Interceptor 2300is, allowing for owners to purchase the Stealth's Radar Detector and Laser Diffusers at any time. Drivers will be alerted through the SmartNav 5's "Drive Application" as well as the navigation software provided by a fully featured "iGO Primo".

App-Tronics has a current up to date red light camera and speed trap database preinstalled, giving ample warnings when approaching these areas. The application will allow you to add to our own database if not already recorded.

For further information on how to purchase the Stealth Systems upgrade kit, please visit our website at [www.app-tronics.com](http://www.app-tronics.com) or call us at 1(888)587-4111.

# Table of Contents

| TITLE NAMES                                       | PAGE NUMBERS |
|---|--------------|
| SMARTNAV 5 ACCESSORIES                            | 1            |
| INSTALLATION MANUAL                               | 2-13         |
| OVERVIEW OF THE SMARTNAV 5 LAYOUT                 | 14-15        |
| HOW TO PERSONALIZE YOUR SMARTNAV 5                | 16-21        |
| HOW TO USE YOUR GPS NAVIGATION                    | 22-24        |
| HOW TO USE AND SETUP YOUR BLUETOOTH 4.0           | 25-32        |
| HOW TO USE YOUR DRIVE APPLICATION                 | 32-29        |
| STEALTH INTERCEPTOR 2300IS UPGRADE KIT (OPTIONAL) | 40-41        |
| MUSIC PLAYER INTERFACE                            | 42-44        |
| MOVIE, FLASH AND RMVB PLAYER INTERFACE            | 45-47        |
| EBOOK READER INTERFACE                            | 47-51        |
| HOW TO CHANGE YOUR WALLPAPER                      | 52           |
| FM TRANSMITTER AND AUXILIARY PORT USE             | 52-53        |
| GPS SIGNAL VIEWER AND RESET                       | 54           |
| NAVIGATION PATH CONFIGURATION                     | 55           |
| PHOTO VIEWER INTERFACE                            | 56-57        |
| VOLUME CONTROL                                    | 58           |
| BACKLIGHT ADJUSTMENTS AND SETTINGS                | 59           |
| LANGUAGE CHOICES AND INTERFACE                    | 60           |
| DATE AND TIME ADJUSTMENTS                         | 61           |
| FRONT VIEWING DVR RECORDER MANUAL                 | 62-67        |
| REVERSING OR REAR CAMERA USE                      | 65           |
| MICRO SD CARD USE                                 | 65           |
| SPECIFICATIONS                                    | 68-69        |
| TROUBLE SHOOTING                                  | 70           |
| WARRANTY AND EXTENDED WARRANTY REGISTRATION CARD  | 71-72        |

## SmartNav 5 accessories

Upgrade kit now available!



SmartNav 5 can be upgraded to allow the Drive Application to alert drivers of law enforcement radar and diffuse their laser guns.

### SmartNav 5 Plus



You can also purchase the SmartNav 5 Plus, Which comes with the Stealth 2300is radar detector and laser diffusers.

### Micro SD cards and Parking Sensors



Visit App-[tronics.com](http://tronics.com) to purchase additional 16 and 32 GB ADATA Micro SD cards and optional Parking Sensors.

# Installation Manual:

Follow instructions using illustrations for reference. App-Tronics recommends the use of one of our Authorized dealers for installation of the SmartNav 5. Please contact us to receive a list of available dealers near you. The extended warranty can only be given when installed by an Authorized Dealer.

## Chapter one (1) parts description:



**SmartNav 5 rearview mirror**



All SmartNav 5's come with an auxiliary port to allow for direct tie into vehicles audio system. The vehicle must have its own auxiliary port, and the use of a male to male 3/8 audio cord will be needed (Not included with the purchase of your SmartNav 5).



**Wiring harness**



**Video and power line feed for backup camera.**

## Chapter two (2) connection points overview:



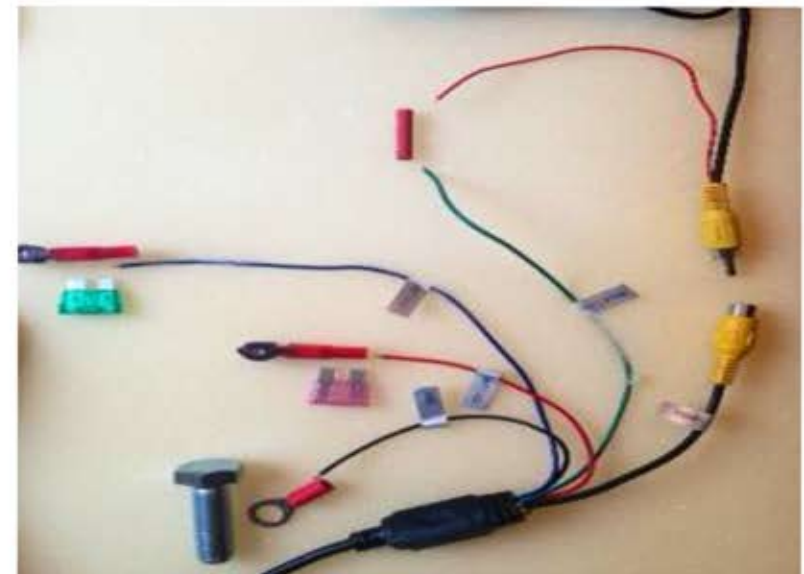
**Reversing camera (optional non LED camera available for 2nd or 3rd child safety cam).**



**Overview of wiring diagram.**



**Universal mounting bracket (OEM mounts available for online orders).**



**Connection points from wiring harness.**



**Reversing camera connection to reversing bulb.**



**Factory mount above, SmartNav 5  
OEM replacement mount below.**

Chapter three (3) installation of parts:



**Install mount on back of SmartNav with screws provided**



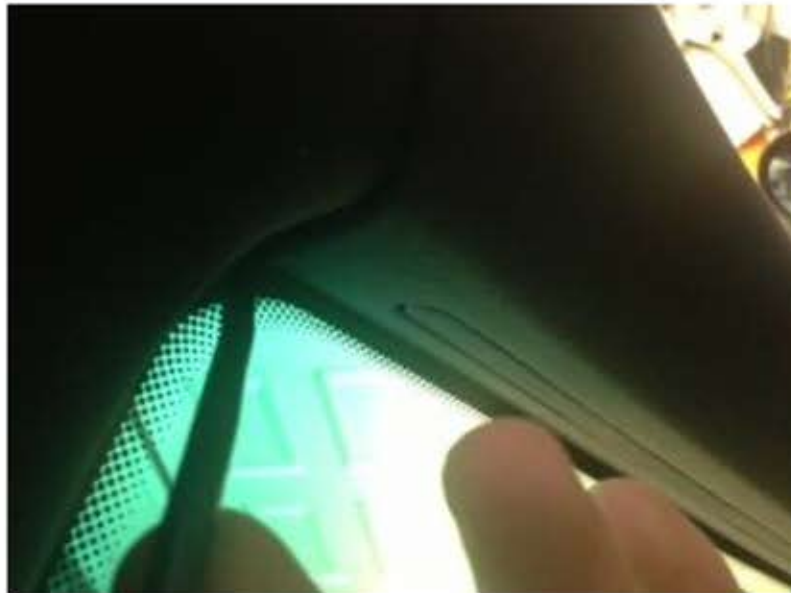
Attach mount according to what mount you are using. If you are using pre-existing anchor and OEM mount as in picture (BMW), use same process but in reverse of the factory mirror and mount you removed. If using universal mount and new anchor, you need to attach anchor with windshield mount repair kit which can be purchased at any auto parts store (not provided with purchase of SmartNav).



Tuck wire from SmartNav 5 into headliner. It only has to go in just a little to stay in place.



Remove weather stripping and run wire harness behind it. As you come down the pillar, tuck weather stripping back into place pressing firmly. You may need to use a plastic wedge tool to force back behind dash.



Route to which ever pillar A or B will get you to your power source. In this case it was B pillar the passenger side.





Guide your wire harness to your power source, in this case the fuse box. You can buy fuse extenders and attached power leads right to fuse (pick non critical fuse such as interior lights, never modules or fuel pump). Use a volt meter to find your constant power source (red cable batt+) which means this fuse always has 12 volts running through it even with ignition off. Attach to fuse.

The blue wire in your accessory power source, this fuse only has power running through it when the ignition is on. Use your volt meter to determine which fuse to attach. (Again never use critical fuse).

Dealership technicians or professional aftermarket installers can tap into back of fuse box or tap into wiring under dash. Note: if you tap directly into wiring check online for proper tap points.

Some wiring comes from relays or distribution points and the voltage maybe lessened for its destination. Use volt meter to check volt current to ensure its above 12 volts. The SmartNav will not run as designed with anything less. Also keep in mind some cars may seem to have a constant power supply. Wait 15 minutes after cars is off and recheck to see if that constant source went to sleep and shutoff. SmartNav 5 uses it for memory. It has internal battery for safety shutdown.

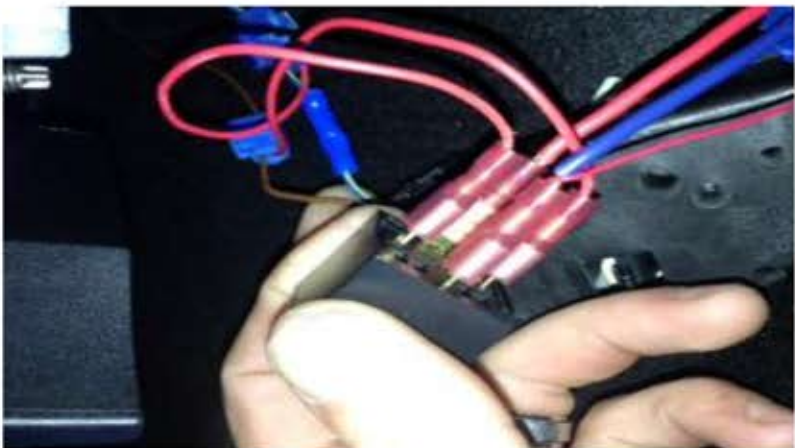


Next find your ground source, (black wire) you may have to extend your black ground wire to find suitable location.

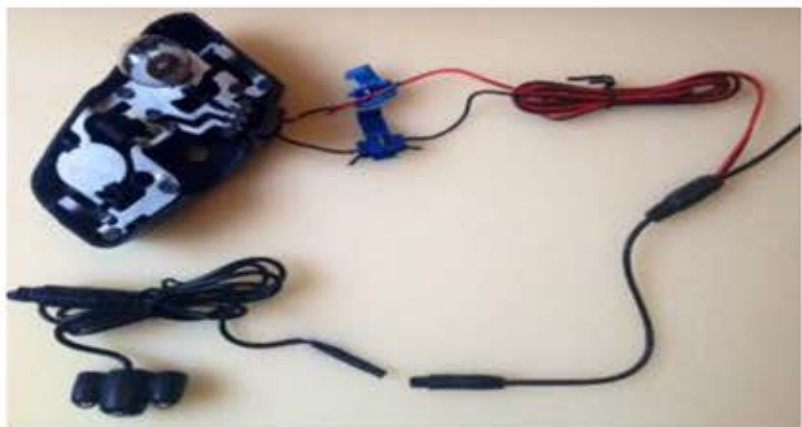


Next attach your rear camera feed (yellow connectors). From the wire harness and the rear camera wiring. Then attach your green wire (back12+) power to the red wire coming from rear camera wire feed. This connection will power your DVR screen to turn to rear camera when put into reverse (when reverse bulb turns on). Some vehicles power the back tail lights thru a relay and drop the voltage to reverse bulb. You will have to find that relay or the point at which the reverse bulbs are branched out. Or use a 12 volt automotive relay yourself and tap into another power source. Using the reverse lamp tie in as your closing circuit. (See sample picture below). There are very few cars that have this issue. Just be sure camera is receiving 12 volts.





Next run the rear camera wire feed to back of vehicle along the floor board trim then under rear seat. Mount your camera in desired location. To do this properly some panels may need to be removed in trunk or lift gate. (No picture to reference).



Tie in the red wire to reverse bulbs power source and the black wire to its ground. You can download wire diagrams online to tell you which is which. Or use your volt meter while the cars in accessory position NOT running have a friend put car in reverse, and keep their foot on brake pedal or use parking brake to keep car from rolling. If you locate these same wires in let's say a top of a lift gate you can splice in there. It may make it easier to wire to your desired location of camera.

If you have purchased the **optional Parking Sensors** along with your SmartNav 5. You would have received the installation manual with the sensors. Below is a quick layout of the additional wiring needed to help you start the Parking Sensors installation process. (Refer to manual included with the parking sensors packaging).



If you have any questions email App-Tronics at [info@app-tronics.com](mailto:info@app-tronics.com) or call [1-888-587-4111](tel:1-888-587-4111) for further assistance.

## Overview of SmartNav 5 layout



**The first button from left:** Power button, you should rarely have to use this button if installed properly or if installed by one of our Authorized Dealers. The SmartNav 5 will power on and off with your vehicle.

**Green Indicator light:** When lit continuous DVR recording is taking Place, note that a Micro SD card is needed to record. (See image on next page for location).

**Red Indicator light:** When lit, power to the mirror is on.

**Second button from left:** This button has two operating functions, one if you short press the button it will turn off the display not the mirror. SmartNav 5 will continue to function with display off. Example, turn by turn directions from iGO GPS will still be heard. Two, if you long press this button it will take you to the DVR mode for viewing of footage.

**Third button from left:** This is the menu button for the DVR settings you should not have to change anything. SmartNav 5 comes set from factory.

**Fourth button from left:** This button is used while in DVR mode, when pressed it will bring up the play back function. You can pause, play and use the last button to cycle forward through the timed footage.

**Fifth button from left:** This button is also used in DVR mode, it has two functions. One it will cycle through footage while you are in playback mode (Fourth button). Two, you can mute the interior cab recording.

## Backside of SmartNav 5



## Quick reference to above photo

- SmartNav 5 comes with a 8GB SD card for the DVR only.
- If you wish to view videos, photos or use the EBook text to speech programming you must buy a secondary card to be placed in the SD slot on bottom right side of the above photo.
- Reset button may have to be used if you are first getting familiar with all that SmartNav 5 can do, for example you are not shutting down the eBook reader or video player before turning off the vehicle. This may cause SmartNav 5 to freeze. Just like your computer at home.
- Your Auxiliary port on the backside of mirror.
- The DVR camera can be adjusted by hand, enter the DVR mode by long pressing the second button from left on front side of mirror, this will bring up the camera view and you can adjust the angle from there.
- The radar lens is where the wireless receiver is located to pick up the transmitted signals from the optional Stealth 2300is radar detector and laser diffusers.

### Theme icon located on main display.



Click on the Theme icon pictured above. This will take you into Theme settings where you can change the number of icons displayed on the main interface.

SmartNav 5 is setup to mimic the standard interface of most smart-phones. Just like most Smart-phones it may take a day or two to become familiar with all the applications that come with the system.

The SmartNav 5 is a computer, App-Tronics recommends that you shut down some applications like video player or eBook reader before turning off your vehicle. If the SmartNav 5 does freeze or Bluetooth fails to initialize, simply hit the reset button or even unplug and re-plug the harness back in.

## Theme display screen



By clicking on the arrows under "Number of icons shown" and setting to "6" the top 6 icons will be placed on the bottom of the Main screen (GPS, Bluetooth, Music Player, FM Transmitter, Volume and Backlight).

By clicking on the arrows to choose "3" Number of icons shown, the top 3 icons will be displayed on the left hand side of the main screen (GPS, Bluetooth and Music Player).

Be sure to click on the Save icon shown above highlighted in red to save this setting, it will close out and change the Main interface to your choice.

## Main screen with 6 icons show



## Main screen with 3 icons show



After you have changed the theme settings to 3 or 6 icons, you will have to swipe your finger to the second screen which is now empty. Leaving behind your 3 or 6 icons

Note: when changing to 3 or 6 icons you lose 4 icons,

**Laungauge, System, Snake and Gobang.**

## Main Screen icon description



The white and blue dot pictured in the right hand corner of your screen represent SmartNav 5's two display screens. You can go back and forth between the two screens just by swiping your finger across the screen to access the second screen.



The Radio icon is a shortcut to access your FM transmitter, by tapping this icon it will take you to the FM transmitter display screen. It also tells you if the FM transmitter is in use.



The satellite icon is a shortcut to your GPS signal display and also indicates to the driver the SmartNav 5 has locked on and iGO navigation can be used.



The Bluetooth icon is also a shortcut to your Bluetooth settings and indicates that a phone is paired.

## Main screen with "All" icons shown



When "All" style is chosen under theme settings an extra 4 icons appear. Language, System, Snake and Gobang. You will need to use the "All" style choice to find and change your language preference.

## Icon Themes can be changes as well



By selecting Icon Theme settings you can select 1 of the 5 different choices for your icon themes. Hit the save icon highlighted in red to save after your selection.



Move your icons to your desired position by long pressing the icon and sliding it to desired position.

## How to use your GPS navigation

Tap the navigation  than tap .

Once you have opened your GPS navigation icon, it will take you to SmartNav 5's Drive application. From here simply touch the button on the display labeled **iGO Primo Navigation**. Once pressed it will take you straight to iGO Primo.




## Quick reference guide to iGO



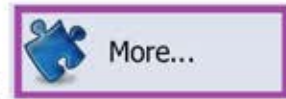
iGO Primo is a fully featured GPS navigational software developed specifically for the SmartNav 5. This color coordinated reference will help you get started on using your GPS Navigation.



The green squared text  will take you to your choice of addresses to be searched with automatic selection for quick address location, Find Places like restaurants, gas stations, accommodations, parking and millions of other destinations. Along with custom searches and along route searches, giving you access to the best database of any applicational device.



The yellow squared icon will take you to the route options such as canceling route, upcoming traffic and detour options.



The purple squared icon will take you to a host of icons which will give you access to any media stored on your device like Music or pictures, along with every unit conversion from pants size to measuring tables.



The red squared icons allow access to the SmartNav 5's main features without having to exit iGO Primo navigation. You can access your Bluetooth to place calls or turn on your music stored on your smart-phone. The master volume can also be adjusted. The backlight can be set for delayed dimming for night time driving or be adjusted manually, these icons will allow access again without leaving your turn by turn directions. Lastly the FM transmitter can be turned on or off if not using the auxiliary port to tap into your cars audio system.

## How to use your Bluetooth 4.0




Tap the Bluetooth icon to start the setup of your smart-phone or standard Bluetooth device.



**Tap the disconnect icon** when existing or turning off your vehicle, you must enter the Bluetooth Menu and tap the disconnect icon. This will allow your call to remain active after shutting off your vehicle.



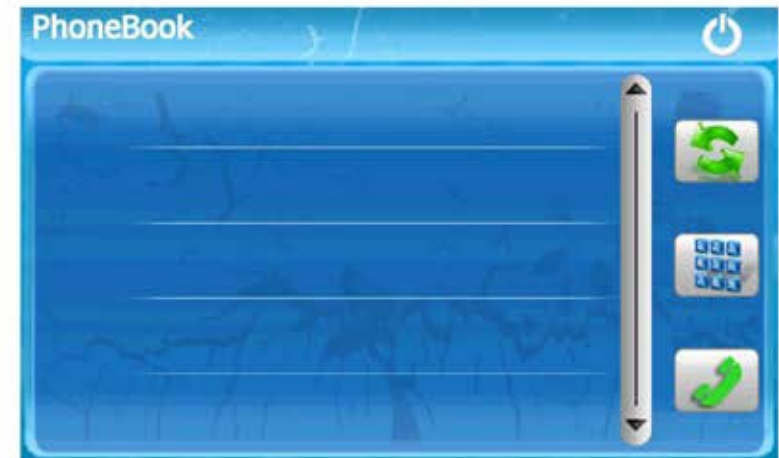
Tap the green arrows icon  to start phone search.

After device is found highlight by tapping it once and tap the Bluetooth check icon  to start the pairing process.

Your cell phone should ask for the 4 digit pin code which is "0000", enter those numbers to allow the pairing to finish.

If your Android device asks to allow sharing of device with SmartNav 5, check the "do not ask" again box on your smart-phone and hit OK.


Tap the phonebook icon  to access




Tap the green arrows icon  to download your phonebook

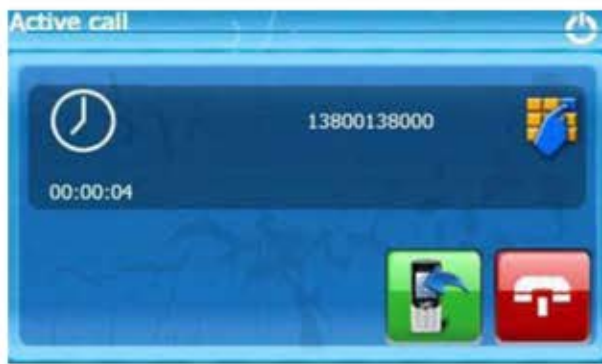





Tap the green phone icon  from phone book after a name has been highlighted to place call.



Calls press the  to accept Press  to decline.



To transfer from cell phone press the  icon.

Tap the Keypad icon  to access keypad to dial by number.



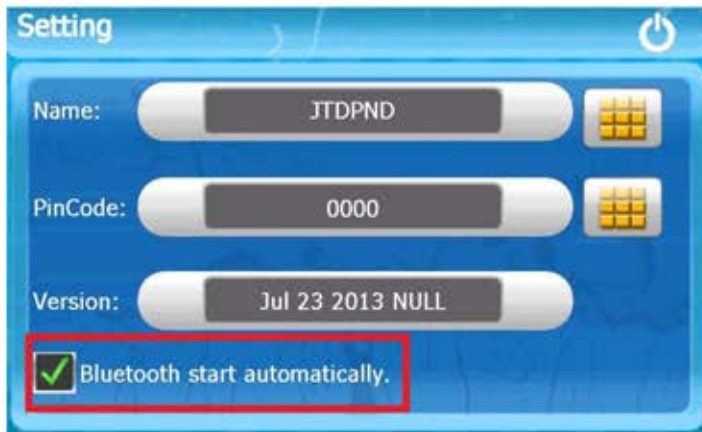
Tap the Dial Record icon  to enter dial record.

Press the settings icon  on main Bluetooth screen to access the Bluetooth settings.





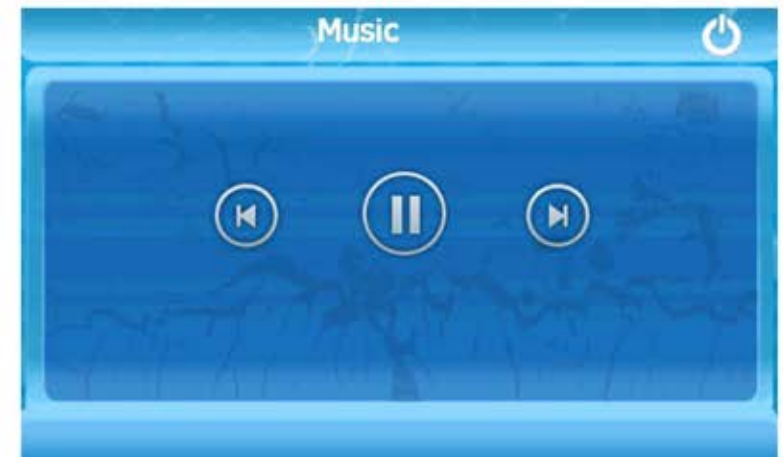
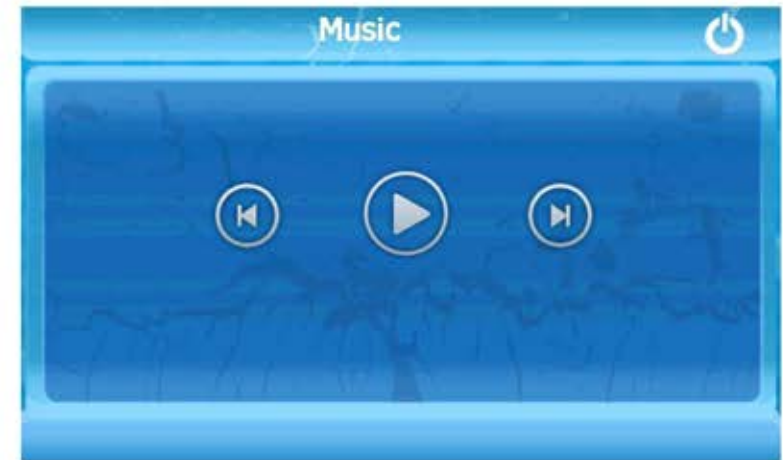
Press the keyboard icon to change pin code or device name that registers on your cell phone.





Select "Bluetooth start automatically icon" to allow for immediate pairing of your cell phone open vehicle Startup.



Select Music icon to access your smart-phones Music library. You can play, pause, reverse and forward your selected music.



The internet explorer or "dun List"  is not yet available on all SmartNav 5's. Please contact App-Tronics at [info@app-tronics.com](mailto:info@app-tronics.com) to see if an update has been issued.

Whenever an active call comes in and you want to return to the previous display screen like iGO Primo navigation, simply press the power button  at the top of all the Bluetooth displays screens till you return back to your navigation. It's just like closing windows on your PC.

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## *How to use your Drive application*

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The SmartNav 5 Drive application is meant to be used when driving your vehicle. It gives you access to all you need in a safe and proper manner. The picture and text below will give an easy to follow breakdown of the Drive Application's functions.



As in the previous chapter *How to use your GPS Navigation*, **tapping iGO Primo Navigation** will take you to iGO Primo GPS guided navigation. NaviB is slotted for adding another navigation system you as a consumer may own. Please read forward to learn how to utilize adding another navigation program to the SmartNav 5.

*How to add or delete to our Red Light and Speed Trap database, including such safety hazards as Black ice.*



Every SmartNav 5 comes with its own red light camera and speed trap database. You can add to this database under several titles such as mobile speed camera, black ice, fixed pole camera and many more. If you come along one of these points of interest (poi's) and it's not current in our database. Simply tap the Add

Location icon **Add Location** shown above in red square.



From here choose your Alert and speed limit if needed and hit save to exit. You can delete alerts that may have been moved such as Mobile speed cameras by

pressing the Delete icon **Del Location**.

**This color coded breakdown will show what the top bar on the Drive Application means to the driver.**



The RF Disconnected or Connect highlighted in Red

**RF Disconnected** shows the status of the wireless connection to either the internal radar or the front bumper mounted Stealth Interceptor Upgrade Radar Detector with Laser Diffusers.

The Navi A shown in here in Yellow highlight **iGO: A** shows which Navigation choice is being used now or most recent, SmartNav 5 can run 2 different navigation software. Either by internal Flash memory and or a combination of the Micro SD slot.

The Alert mute speed **Alert mute: 0 MPH** highlighted in Blue is the speed setting you wish to be first alerted to radar and or laser diffusing, meaning the alerts will not take place till you reach that speed. Example 25 MPH is a good setting taking away any false alerts while stopped.

The Position Valid or Invalid **Position InValid** highlighted in Orange shows the status of the GPS satellites connection, do not run your navigation till Valid status for maximized performance.










*These tables will explain how to use and change your settings in the Drive Application, as well as the use of the optional Upgrade Stealth systems radar detector and laser diffusers*



The Settings tab highlighted in Red. Will take you to the Drive Applications settings interface for the optional Stealth Interceptor 2300is radar detector and laser diffusers. (SmartNav 5 Upgrade Kit)



| Name             | Icon | Explanation                                  |
|------------------|------|--|
| Traffic Lighting |      | Traffic light Alarm on/off                   |
| Camera Alarm     |      | Camera Alarm on/off                          |
| Spot             |      | Display alarm tips on the upper left corner  |
|                  |      | Display alarm tips on the upper right corner |
|                  |      | Display alarm tips on the lower left corner  |
|                  |      | Display alarm tips on the lower right corner |

|                  |   |  |
|------------------|---|--|
|                  |    | Preview  |
| Speed of Silence |    | When car speed is smaller than the value, the alarm does not prompt          |
|                  |    | Add the speed value  |
|                  |    | Sub the speed value  |
| Navi A           |    | Select A as current executed navi program, Navi A will display on title bar. |
| Navi B           |    | Select B as current executed navi program, Navi A will display on title bar. |
| Paths            |    | Specify the path of navigation A and B                                       |
| Volume           |  | Volume decrease  |
|                  |  | Volume increase  |

Tap the Magnifying Glass  either marked Navi: A or Navi: B. Some SmartNav 5 models are marked iGO: A.



Tall buildings, tunnels and underground parking can all affect and influence satellite signal strength. Resulting in positioning failure or SmartNav 5's ability to function normally. SmartNav 5's GPS antenna is located in the upper right hand side of the mirror. Having both constant and accessory power supplied to the SmartNav 5, ensures correct positioning of last location. If SmartNav 5 is in a Invalid state and not receiving a satellite signal, please check the following:

1. Was the SmartNav 5 installed by one of App-Tronics Authorized Dealers? If not check the constant power supply source. SmartNav 5 needs a constant power connection to retain memory of its last known satellite positioning.
2. Is your vehicle parked in underground parking? Please wait till after exiting the structure before turning on the GPS software.
3. If you are still having a connection issue see Chapter GPS Viewer to reset your satellite search. Visit [App-Tronics.com](http://App-Tronics.com) for additional information.

## Stealth Interceptor 2300is Upgrade

### Kit (Optional)



If you have purchased the Stealth Interceptor 2300is radar detector and laser diffusers Upgrade Kit, please follow the manual that came with the kit for installation.

The SmartNav 5 will automatically connect with the front bumper mounted radar detector and laser diffusers moments after your car is started.

To hear and see the wireless alerts being received by the SmartNav 5's wireless receiver, open up to Drive application by entering the Navigation icon.




While in both the Drive application and iGO Primo GPS navigation, the alerts will come thru audibly and visually.

**To mute in coming alerts:** Simply double tap the speed alert icon, you will have to mute the next alert that comes through.
















Please refer to the previous chapter that goes over the Settings display, to adjust your alert settings for the Stealth Interceptor 2300is radar detector and laser diffusers.


Setting

Tap the Music Player icon  to enter the below Music Interface.









| Icon  | Name     | Explanation   |
|---|----------|---|
|  | Close    | Close the music player.   |
|  | Minimize | Minimize the music player and return to the <b>Media</b> interface. |
|  | Play     | Continue playing the paused/stopped music.                          |

|   |                   |   |
|---|-------------------|---|
|    | Pause             | Pause the music being played.   |
|    | Stop              | Stop the music being played.  |
|    | Set play sequence | Select sequence, random or cycle play.                                  |
|    | Previous          | Play the previous music.  |
|    | Next              | Play the next music.  |
|    | Volume            | Drag it leftward to turn down or rightward to turn up the volume.       |
|    | Progress          | Drag it leftward or rightward to play from a previous or future moment. |
|   | Music list        | Enter to download and create playlist.                                  |
|  | Time              | Display the run time.   |
|  | Equalizer         | Enter the equalizer.  |

Tap the File icon  to enter the Music List. From here you can create your playlist from your Micro SD card.

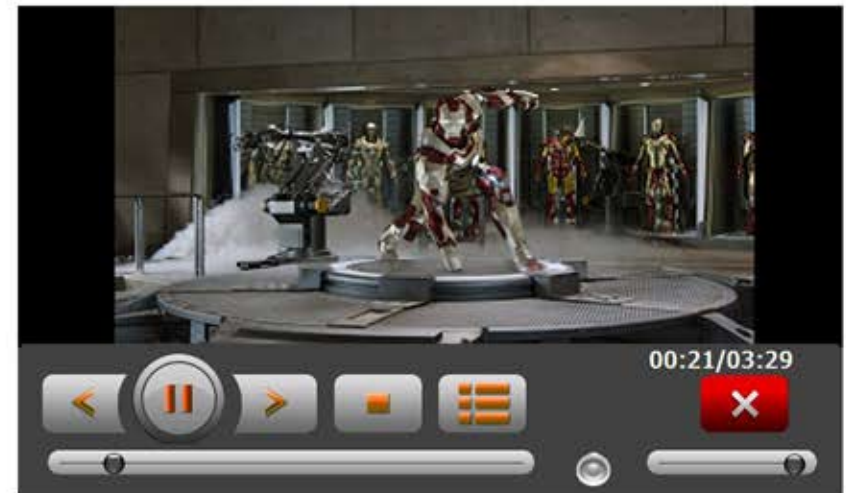













| Icon   | Name       | Explanation   |
|--|------------|---|
|    | Close      | Close the <b>Music List</b>   |
|    | Scroll bar | Drag it upward/ downward to view all music.                               |
|  | Add one    | Add a piece of music on the left list to the play list on the right.      |
|  | Add all    | Add all the music on the left list to the play list on the right.         |
|  | Delete one | Select one piece of music in the play list and tap the icon to delete it. |
|  | Delete all | Delete all the music in the play list.                                    |




The Movie Player, Flash Player and RMVB Player icons can all be tapped once to enter the selected Player Interface.

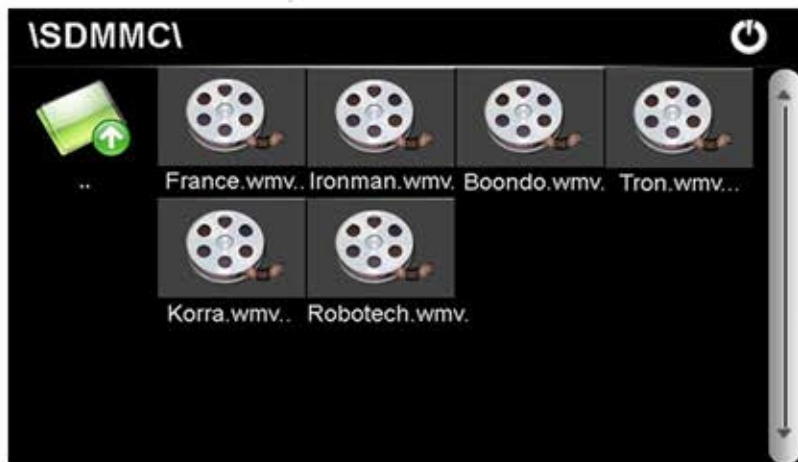





| Icon  | Name          | Explanation                                 |
|---|---------------|---|
|   | Close         | Close the video player.                     |
|  | Previous film | Play the previous film.                     |
|  | Play          | Continue playing the paused/ stopped music. |
|  | Next film     | Play the next film.                         |
|  | Stop          | Stop the film being played.                 |
|  | Video folder  | Enter to select a film to play.             |

|   |          |  |
|---|----------|--|
|  | Progress | Drag the sliding block leftward to play from a Previous moment or rightward for a coming Moment. |
|  | Volume   | Drag it leftward to turn down or rightward to turn up the volume.                                |
|  | Time     | Display the play time and the music duration.  |




Tap the File icon  to enter the Video Folder from here you can play a selected video from your Micro SD card.

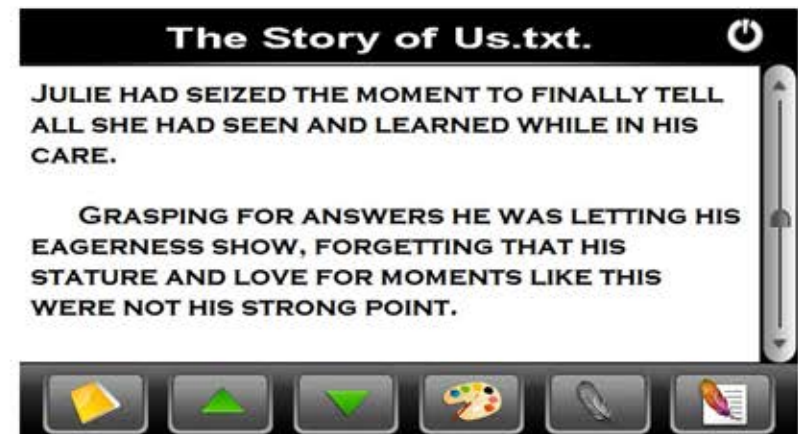


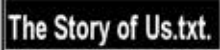








| Icon  | Name               | Explanation   |
|---|--------------------|---|
|  | Close              | Close the video folder.   |
|  | Scroll bar         | Drag the sliding block upward/downward to view all the files inside the folder. |
|  | Film name & format | Film name and its format  |

## *eBook Reader*






Tap the eBook Reader icon  to enter the Text to Speech interface. Some models of the SmartNav 5 come equipped with TTS software or text to speech. Allowing the driver to have the converted to text eBooks read to them through the SmartNav 5's dual speakers or the cars audio system. Please visit [www.app-tronics.com](http://www.app-tronics.com) for any updated manual changes, as well as how to convert your eBooks to text format from our video page.



| Icon   | Name               | Explanation   |
|--|--------------------|---|
|    | File name & format | Current file name and format.   |
|   | Close              | Close the reader.   |
|   | Scroll bar         | Drag the sliding block upward/downward to view all content of the e-book. |
|    | Folder             | Enter the e-book folder to select an e-book to read.                      |
|   | Previous           | Read the previous page.   |
|   | Next               | Read the next page.   |
|    | Setting            | Select a text theme, font, word size and bold type.                       |
|  | New bookmark       | Select partial text and tap the icon to create a bookmark.                |
|  | Bookmark list      | Enter the bookmark list to select or delete a bookmark.                   |
| 23/732   | Page / total pages | Current page / total pages  |

Tap the Paint Board icon  to enter the eBook Reader settings shown below.



| Icon  | Name  | Explanation                                      |
|---|-------|--|
|    | Close | Exit the setting interface.                      |
|    | Save  | Save the setting.                                |
| <b>Theme</b>  | Theme | Tap ▼ to select a theme for the e-book.          |
| <b>Font</b>   | Font  | Tap ▼ to select a font for the e-book.           |
|  | Bold  | Tap to enable bold type. Tap it again to cancel. |

Tap the File or Folder icon  to enter the Micro SD cards uploaded converted to text eBooks.

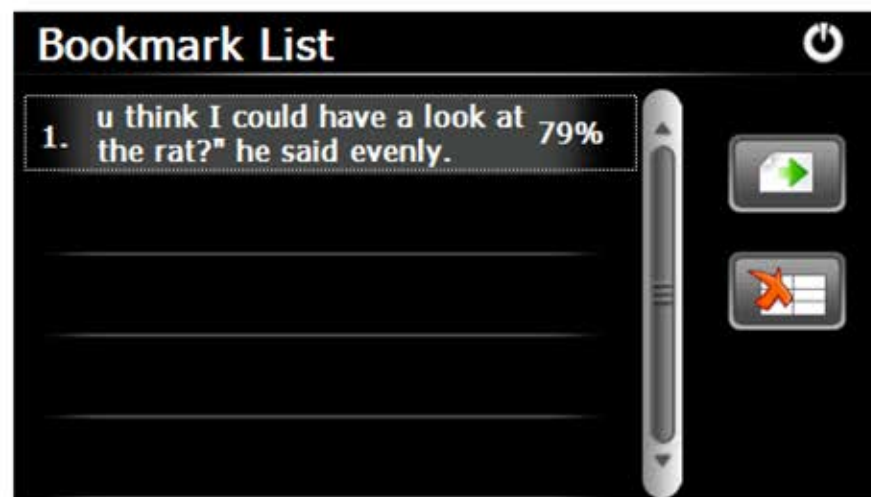


| Icon | Name               | Explanation   |
|------|--------------------|---|
|      | Close              | Close current folder.   |
|      | Return             | Return to the previous folder.                                |
|      | Scroll bar         | Drag the sliding block upward/downward to view all TXT files. |
|      | File name & format | The file name and format.                                     |

To create a book mark, locate the page by tapping up or down or dragging the scroll bar on the right side of the interface.


The Bookmark icon will highlight once you have highlighted the text by dragging your finger across the selected text. Tap the icon, than tap OK to finish.

Tap the Bookmark icon to view past created bookmarks in the Bookmark List seen below.

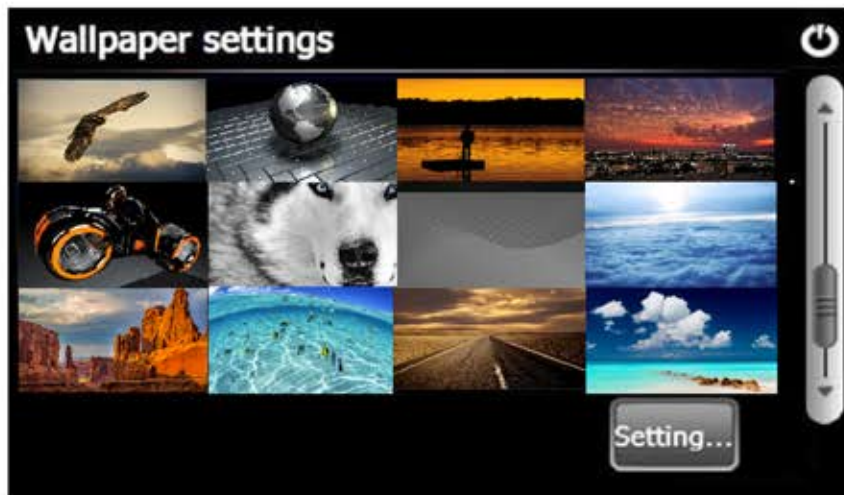



Drag the scroll bar to find the desired bookmark. Tap the Green Arrow icon to go to that location within the converted to text eBook.

Tap the Delete icon to remove a specific bookmark.

Tap the wallpaper icon  to allow changing of your SmartNav 5 wallpaper.







To set your wallpaper simply double tap the wallpaper of your choosing, or tap once and hit the "settings" Button at the bottom of the display screen. It will take a moment for SmartNav5 to change out the wallpaper for you.



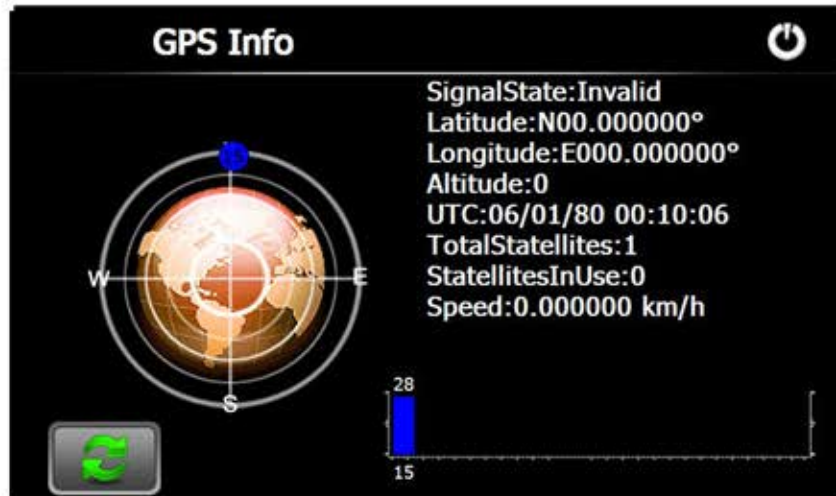
Tap the FM Transmitter icon  to enter the FM dialing interface.


When using the FM transmitter test as many stations as possible to find the best available reception. It doesn't have to be a "dead air" station for SmartNav 5's transmitter to broadcast to your radio station selected. All SmartNav 5's come with an auxiliary port located on the back of the mirror. If your vehicle is equipped with its own auxiliary port, simply route an audio cord with 3/8 male to male ends to the destination. (Cord not provided).



|   |           |   |
|---|-----------|---|
|  | Close     | Exit the FM Setting.  |
|  | Save      | Save current setting.   |
|  | Use FM    | Click in the box to enable FM function.   |
|  | Frequency | Drag the slide block rightward (or tap  ) to increase the frequency and leftward (or tap  ) to reduce the frequency. The frequency range is 88.00 Mhz-108.00 Mhz. |

Tap the GPS Viewer icon  to enter the GPS reset interface.




If your SmartNav 5 is not receiving a strong signal due such reasons as initial setup, vehicle stored for winter months, please tap the Reset icon  to reset the GPS satellite receiver.




Next, tap OK to begin the GPS satellite validation. Or you may hit cancel to exit the reset process. It will not harm the SmartNav 5 if you were to by accident reset without reason.


Tap Navi Configuration icon  to alter what navigation software will be used when you tap the navigation icon. 

Note:Currently all SmartNav 5's navigation configuration or pathway is set for "edog" which is the "Drive Application". From there you access your iGO Primo by tapping "iGO Primo Navigation" .

If you wish to bypass the drive application, you may do so by selecting iGO or Mobile Navigator's exe. file changing the navigation path right to iGO Primo.












Select a map address and tap  to save the setting.

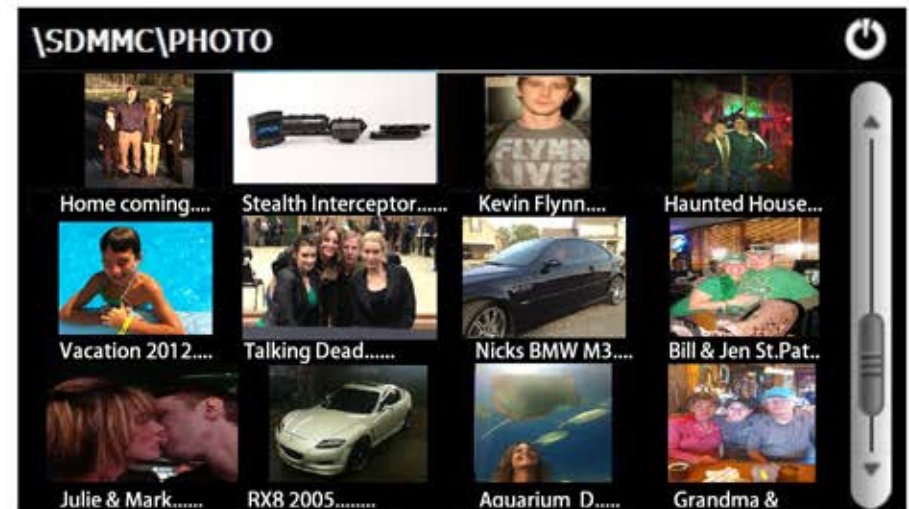
|  |   |
|--|---|
| <p>Navigation exe file path</p>  | <p>Tap to choose what navigation address you want to run.</p>   |
| <p> Auto run navigation</p> | <p>Click in the box to check that you want GPS navigation to start soon as SmartNav 5 is turned on.</p> |




Tap the Photo Viewer icon  to access your Micro SD stored photos.



| Icon   | Name      | Explanation   |
|--|-----------|---|
|    | Previous  | View the preview photo in the folder.                       |
|    | Next      | View the next photo in the folder.                          |
|   | Zoom in   | Scale up current photo.                                     |
|  | Zoom out  | Scale down current photo.                                   |
|  | Rotate    | Rotate current photo 90°clockwise.                          |
|  | Auto play | Cycle play all the photos in the folder from current photo. |
|  | Folder    | Enter the photo folder to select a photo.                   |
|  | Close     | Close the browser and return to the <b>Media</b> interface. |





Tap the Open File icon  to enter the stored photos on the Micro SD card. (Note: You can double tap the viewable photo once opened to cover the entire 5 inch display, double tap to return to bottom tool bar).



| Icon  | Name       | Explanation                                    |
|---|------------|--|
|  | Close      | Close the current folder.                      |
|  | Return     | Return to the previous folder.                 |
|  | Scroll bar | Drag the sliding block to view all the photos. |




Tap the Volume icon  to adjust the volume settings of your SmartNav 5.



|  |                 |  |
|--|-----------------|--|
|   | Close           | Exit the volume setting.   |
|   | Volume          | Ten volume grades (from mute to maximum) available. Tap to decrease the volume by grade. |
|  | Sounds for taps | Tap it to enable the function. Tap it again to disable the function.                     |
|  | Power on music  | Tap ◀ or ▶ to select power-on music or disable it.                                       |

Tap the Backlight icon  to change the brightness and delayed brightness settings of the SmartNav 5 display screen.



|   |            |  |
|---|------------|--|
|    | Close      | Exit the backlight setting.  |
|    | Back-light | Drag leftward to turn down or rightward to turn up the backlight.  |
|  | Auto off   | Auto backlight shutoff after service stop for a period. The options are always On, 10s, 30s, 1m, 2m and 3m. Tap ◀ or ▶ to view the options in cycle. |






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Tap the Language icon  to change the interfaces language settings to the appropriate user or area.

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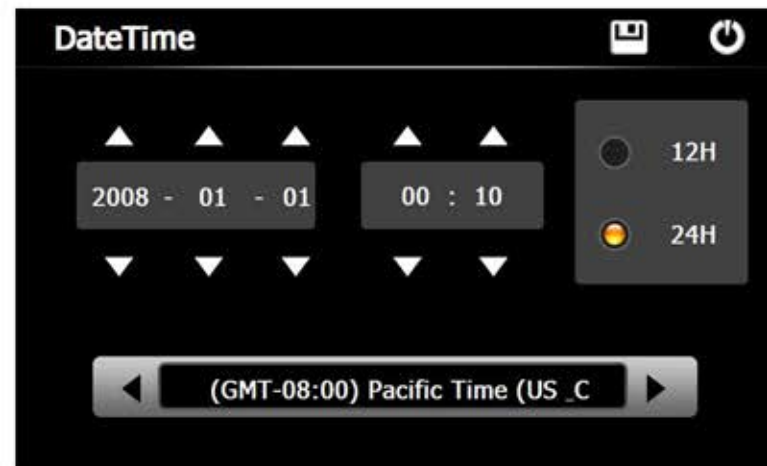
Tap the left Arrowhead icon  or the right Arrowhead icon  to select a system language, tap the Save icon  to save your selection.

SmartNav 5 comes with over 30 languages, The text to speech software that comes with iGO navigation has just as many. The eBook Reader application comes with only a half dozen or so male and female voices to choose from. Please email us at [info@app-tronics.com](mailto:info@app-tronics.com) to see if any updates are available for added TTS voices.



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Tap the Date/Time icon  to adjust the SmartNav 5's date, time and regional location.



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### Setting the System date and time of your SmartNav 5

In the display screen, tap the up  or down  Arrowhead icons to set the year, month, day hour and minute of your SmartNav 5.(Note): Change the 12-hour or 24-hour format for the area covered.

### Setting the system time zone

Tap the left Arrowhead icon  or the right Arrowhead icon  to select the correct time zone for the area covered.

## SmartNav 5 front viewing DVR camera

All SmartNav 5's come with a front viewing DVR camera. This chapter will review and show how to best utilize the forward thinking behind the technology.

Please revert to "Overview of SmartNav 5 layout" for the operational button selection of the DVR system. Please note that the SmartNav 5 will come fully operational with DVR continuous recording, as well as interior cab audio recording.

Once you have completed the operational use of the DVR buttons used to control your DVR, you can quickly utilize all it has to offer.

**Whenever you want to view you're driving footage simply remove the Micro SD card from the secondary slot located on the upper left hand side of there mirror.**

You will have to remove the cover protecting the card. Insert the Micro SD card into your home PC (Adaptor may be needed). Once inserted the PC will ask you to allow the ADR player to be installed onto your PC.

From there the ADR player will take over allowing you to view all the driving footage stored on its Micro SD card. Next are the display screen instructions on how to use the ADR Player.

**Insert the Micro SD card provided into the computer and double click the ADR icon.  The below interface will appear. You can replay video from the SD card, delete locked files or save and share them from your computer. Go to [App-Tronics.com](http://App-Tronics.com) for video demo on how to use your ADR player further.**



**The Micro SD card that comes with the SmartNav 5 in the DVR slot, does not come preformatted.** To maximize the recording time you must format the card from your home PC. If you are unfamiliar with how to format a SD card visit [App-tronics.com](http://App-tronics.com) and go to the download page to learn how to do so. It's a very easy quick process.

SmartNav 5 will ask you to reformat that card to its operating system when reinserted, click yes. You will than maximize your recording time. This process will have to be redone if you insert a new larger SD card, up to 32GB.

### **Features of the digital video recorder**

**High Definition:** Video size can be set to high definition HD 720P (1280x720/30FPS) or VGA (640x480/30FPS). When memory card is full, the new video clips will Automatically overwrite the prior earliest footage.

**East to use:** SmartNav 5 is already set to record soon as you start the vehicle, it will start and stop filming in unison with the vehicles drive time. **Please revert to the SmartNav 5 overview in the beginning of the manual to use buttons to mute the interior cab or view footage from the device itself.**

**MJPG video format:** When you access your ADR footage, the films are complete real images. Setup in minute or so strips allowing for easy sharing of your videos.

**Storage of media:** The DVR requires a Micro SD card from 4-32GB. App-Tronics supplies an 8GB card with purchase, Allowing for immediate use.

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### *Standard reversing camera*

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SmartNav 5 comes Standard with a reversing camera. Please allow just a few seconds for the DVR system to initiate, before putting your car into reverse.

The reverse camera is meant for an additional aid, do not rely solely on the reverse camera when backing your car out of any position. Use the added safety features that come with your vehicle.

Refer to the installation manual for specific wiring and to the Specs of the SmartNav 5 for detailed information on camera specifications.

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### *Using the primary Micro SD card*

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SmartNav 5 only comes with one 8 GB Micro SD card, which is added to the DVR slot. **When wanting to watch videos, listen to eBooks, view photos or listen to your own uploaded music. You must insert another Micro SD card into the primary SD slot located on the lower left side of the SmartNav 5.**

You can also use this primary Micro SD slot to use another Navigational software by choosing Navi: B in the "Drive Application". (Refer to how to use your Drive application section in this manual).

## Notes when using or inserting Micro SD card:

1. Do not take out the Micro SD card while you are using any of the stored media on SmartNav 5's applications. **Example:** If you are running video feed from the Micro SD through the Video Player, do not remove the SD card till you power down the video player.
2. To avoid damaging your Micro SD card do not exert heavy pressure or bend it while inserting and removing the card.
3. Store in proper container if ever removed from the SD slot.
4. Mind the direction while inserting the Micro SD card. The front of the card should be facing towards the inserter, never force the SD card into slot. Line up correctly and try again.

## SmartNav 5's DVR Main Menu Functions

| Main Menu  | Sub Menu   | Description                    |
|------------|------------|--------------------------------|
| Video Size | 640 x 800  | Set the Video size             |
|            | 1280 x 720 |                                |
| Time setup | YYYY/MM/DD | Set the date and time          |
|            | HH:MM:SS   |                                |
| Format     | YES        | Format the Micro SD or TF card |
|            | No         |                                |

|              |         |                                |
|--------------|---------|--------------------------------|
| TV Out       | NTSC    | Set the format of TV out       |
|              | PAL     |                                |
| Audio Record | ON      | Set the recording audio        |
|              | Off     |                                |
| Language     | English | Set the language               |
|              | 繁體中文    |                                |
|              | 简体中文    |                                |
| Frequency    | 50Hz    | Set the frequency of the video |
|              | 60Hz    |                                |

## SmartNav 5's DVR Error Messages

| Error Message       | Description  | Solution  |
|---------------------|--|---|
| No Card             | No card is being seen by SmartNav 5                | Push in a new formatted card  |
| Card Protected      | Card has been locked or protected                  | Unlock and reinsert again   |
| Card Error          | Error occurred when transferring files to the card | Replace with new card or reformat and attempt again.  |
| Card size to small  | Card size is less than 4GB                         | Replace card with 4GB or higher   |
| Card not formatted  | Card has not yet been formatted                    | Card must be formatted refer to section 1.7   |
| Card size changed   | Card size has changed so it cannot record          | Back up data and format card. Refer to section 1.7  |
| Protected slot full | There is no more room for locked videos.           | Unlock some videos in playback mode or use your home PC with ADR player. Which is auto added to each card inserted. |

## Featured Specifications of the SmartNav 5

|   |  |
|---|--|
| GPS navigation                          | Win CE 6.0 Operation System. High sensitive GPS signal received ability.   |
| Digital Video Recorder                  | <ol style="list-style-type: none"> <li>1. Support high resolution. HD 720P(1280*720)</li> <li>2. Support for automatic recording</li> <li>3. Support power-down to save</li> <li>4. Support the cycle of coverage video</li> <li>5. Storage type: support TF card from 4GB to 32GB</li> <li>6. Video resolution: HD720P or VGA</li> <li>7. Video speed: 30FPS</li> <li>8. Real-time and number of overlay video, don't lose any video in each second.</li> <li>9. Video and sound recording synchronization/ video recording/ sound recording</li> <li>10. It can lock the current video, to avoid coverage</li> </ol> |
| Optional Radar detector Laser diffusers | Stealth Interceptor Systems can be added any time. SmartNav 5 is fitted with wireless technology allowing your SmartNav 5 to pick up the transmitted alerts from the front bumper radar detector X, K, KA, KU and 2 laser diode diffusers which disrupt targeted law enforcement's laser guns  |
| Reverse Camera                          | <ol style="list-style-type: none"> <li>1. Photosensitive components 1/4-inch color, CMOS,</li> <li>2. Pixel 628X582, resolution of 380TV lines</li> <li>3. The illumination 3LUX (infrared light at 0 Lux)</li> <li>4. Lens 2.8mm</li> <li>5. Standard PAL / NTSC</li> <li>6. RCA video output interfaces</li> <li>7. Angle 170 degrees</li> <li>8. 0-5 meters night vision distance</li> <li>9. With the line of distance</li> <li>10. Waterproof</li> </ol>  |
| Blue tooth                              | <p>CSR Blue tooth provides for data and voice communications</p> <ol style="list-style-type: none"> <li>1. Operating Frequency Band 2.4GHz-2.48GHz ISM band</li> <li>2. Bluetooth Specification V4.0 with A2DP firmware allowing Streamlining of music from most smart-phones</li> </ol>   |

|                                      |   |
|--------------------------------------|---|
| FM Transmitting Or 3.5 mm audio jack | <p>From 87 to 108MHz. &lt;10 Meter</p> <p>The location of auxiliary port is directly under the mount on backside of the SmartNav 5. (extension cord with male to male end not included)</p> |
| Music                                | Audio Format: WAV, MP3, WMA   |
| Movie                                | Video Format: AVI, MP4, MPG, WMV, 3GP   |
| Picture view                         | Photo Format: JPG, GIF, BMP, PNG  |
| E-book                               | Text Format: TXT, with optional text reader or TTS  |
|                                      | Working temperature: -13 F to + 176 F   |
|                                      | Storage temperature: -31 F to + 203F  |

## Included Hardware

|              |                   |   |
|--------------|-------------------|---|
| CPU          | ARM11             | 800MHz                                      |
| Memory       | NAND flash        | 128 MB / 8GB                                |
|              | SDRAM             | 256 MB                                      |
| GPS Receiver | GPS Module        | Mstar                                       |
| Antenna      | Internal Antenna  | Embedded type, Patch Active Antenna         |
| Display      | Color TFT         | 5" TFT, 800*480, Landscape                  |
| Power        | Supply DC Voltage | 12V   |
|              | Power             | 12V, 1A                                     |
| Input/output | Touch Panel       | Multi-touch capacitive touch screen         |
|              | Speaker           | Dual channel speaker. 1.5W                  |
|              | SD/MMC Card Slot  | Capacity up to 32 GB, storage maps and data |
|              | TF Card Slot      | Support 4~32GB, storage recorded video      |
|              | Micro phone       | Use to record and Bluetooth.                |

# Trouble Shooting

SmartNav 5 is a computer, please allow its UI and operating system to properly adjust to its installation. If you run into any of the below errors, it is typically from user error and just like a new smart-phone, the owner must become acquainted with the system. Check out the demo videos online to better assist in learning all SmartNav 5 can do for you.

| Trouble Shooting                                     |  |   |
|--|--|---|
| Rear Camera not turning on                           | Wait 2-5 seconds before putting in reverse.  | Not enough voltage coming from power source.                            |
| Bluetooth not initializing                           | Hit reset button or unplug SmartNav 5 from harness. Reconnect harness.                     | Un-pair and re-pair your cell phone or smart-phone                      |
| Phonebook will not download                          | Android phones; you must make phone discoverable, check do not ask again when downloading. | Hit reset button or unplug SmartNav 5 from harness. Reconnect harness.  |
| Optional radar detector and laser diff. not alerting | Must buy Upgrade kit, see manual for details, or go online to app-tronics.com.             | SmartNav 5 must be in "Drive application" or iGO GPS to receive alerts. |
| Cell phone hangs up when car is shut off             | You must hit the disconnect button in Bluetooth application.                               | You can access Bluetooth from main screen and iGO GPS main screen.      |
| No sound coming from SmartNav 5 speakers             | Check to see if FM transmitter app is on, uncheck and hit save icon.                       | Auxiliary cord not in all the way. When used.                           |
| Files not opening                                    | Double tap file icons when using video, music and photo apps                               | Must be a 4BG to 32GB Micro SD card.                                    |
| Screen frozen  | Either an app was not shutdown properly or running corrupt files.                          | Hit reset button or unplug and re-plug back in harness.                 |

App-Tronics matches the original manufacturers warranty when installed by an Authorized Dealer up to 5 years, any vehicle under 3 years of remaining factory warranty receives a 3 year extended warranty from App-Tronics. If any entity other than an Authorized Dealer installs the SmartNav 5 system they will receive the standard one year warranty below. The registration card must be filled out and returned to App-Tronics within 30 days after installation has taken place. Failure to do so could result in a voiding of the extended warranty.

For period of one year from the date of first consumer purchase, App-Tronics, LLC will, without charge, repair or replace, at its option, defective products upon delivery to an authorized Service Agent, accompanied by proof of the date of first consumer purchase from an authorized dealer, such as a duplicated copy of a sales receipt. The customer has to pay shipping charges to deliver the product for service. The return charge will be at our expense, if the product is proven to be under warranty.

This limited warranty does not apply:

To any product damaged by accident;

In the event of misuse or abuse of the product or as a result of unauthorized alterations or repairs;

If the serial number has been altered, defaced or removed.

All implied warranties, including warranties of merchantability and fitness for a particular purpose are limited in duration to the length of this warranty.

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App-Tronics and its licensors grant to the purchaser a non-transferable, non-exclusive license to use the software and data installed on our products and the related documentation solely for personal use only on such products.

The purchaser should not copy, reverse engineer, translate, port, modify or make derivative works of the software and data. The purchaser should not loan, rent, disclose, publish, sell, assign, lease, sublicense, market or otherwise transfer the software and data or use it in any manner not expressly authorized by this agreement.

By using this product, the purchaser agrees to be bound by the terms and conditions of this license agreement.

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# APP-TRONICS SMARTNAV 5

WWW.APP-TRONICS.COM

**This warranty card must be filled out and returned to App-Tronics to receive the automatic extended warranty when installed by an Authorized Dealer. Warranty matches cars factory warranty up to 5years, cars with under receive a max 3 year extended warranty. If installed by anyone other then an Authorized Dealer, the standard one year warranty takes place. Please scan and email this card to [info@app-tronics.com](mailto:info@app-tronics.com), or mail to 1605 Commodore Cove Painesville Ohio 44077.**

SmartNav 5 serial # \_\_\_\_\_

Purchased at \_\_\_\_\_ Phone # \_\_\_\_\_

Dealer's address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ zip \_\_\_\_\_

Vehicle identification number \_\_\_\_\_

Customer Invoice number from Installer \_\_\_\_\_ Date \_\_\_\_\_

Vehicle make \_\_\_\_\_ Vehicle model \_\_\_\_\_ Year \_\_\_\_\_

Customer Name \_\_\_\_\_ Phone \_\_\_\_\_

Customer address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ zip \_\_\_\_\_

Facility Rep. Signature of professional install \_\_\_\_\_

Date \_\_\_\_\_

Vehicle owner Signature \_\_\_\_\_

Date \_\_\_\_\_