

## **iCN 700 Product type and general commercial description**

Navman's iCN700 Series is a GPS (Global Positioning System) in vehicle road navigation device with 2D and/or 3D (dimensional) map display and turn by turn visual and voice instructions. The iCN700 Series is supplied with windscreen mount hardware and a 12Vdc cigarette lighter plug supply.

The internals are quite similar to a PDA product with more peripheral such as a camera and GPS receiver. This design is based around the PXA270 processor from Intel. The basis of this is that geographical road maps are store on the CF/HDD mass storage and then displayed on the colour TFT LCD. The GPS receiver which has an antenna in the flap allows the unit to display the correct position of the unit and subsequently the user on the map. This is also combined with street and location names thus allowing the user to program in a location that they would like to navigate to. The unit then calculates a route (dependent on user settings - highway usage, toll road usage, keep out areas etc) then displays the direction to travel and gives visual and audio turning directions as the user progresses along the route.

There are of course many other sub functionalities such as the ability to receive traffic information via a serial connection to a separate module, take pictures, display points of interest (PIs) such as parking, petrol stations, hospital, restaurants, tourist attractions etc and of course display the lat log location and satellite information. Most of these features and peripherals can be reached by either hot keys on the unit or by navigating through the menu via the touch screen.

The unit will also be available with an RF remote control for controlling volume and brightness and basic navigation operations. This can be mounted nearby on the steering wheel for user convenience. Other accessories include Car and Mains adapters, USB cable and External GPS Antenna.

## RF Remote Product type and general commercial description

The remote will be sold as an accessory with the iCN720 and iCN750 products. It may also be used with future products. It is a simple RF remote transmitting at 2.4GHz using a simple protocol. Its button functions are:

- Cancel route
- Route to Home
- Volume Control
- Brightness Control
- Mute
- Change view mode

The remote is powered by two CR2025 or CR2032 3volt lithium batteries and will come with a small cradle that can be strapped to the steering wheel of a car for convenience of the driver.



RF Remote Block Diagram

