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iCN Series Transferable Navigation





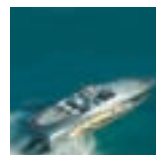
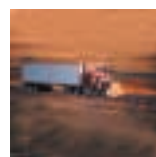
Navman : a leader in GPS navigation technology. And more.

Established in New Zealand in 1998, Navman researches, designs and builds critical navigation technology, including GPS navigation devices, commercial fleet tracking systems and marine electronics instruments.

Employing over 500 staff and using its own manufacturing facilities, Navman products are researched and developed in-house, resulting in high quality systems that are easy to use.

With offices all over the world, Navman is a global GPS company. In Europe, teams of dedicated individuals provide localised high quality sales and technical support to its ever growing user base.

Navman has the backing of the Brunswick corporation, one of the world's longest established corporations, and will continue to grow and provide world leading critical navigation systems.



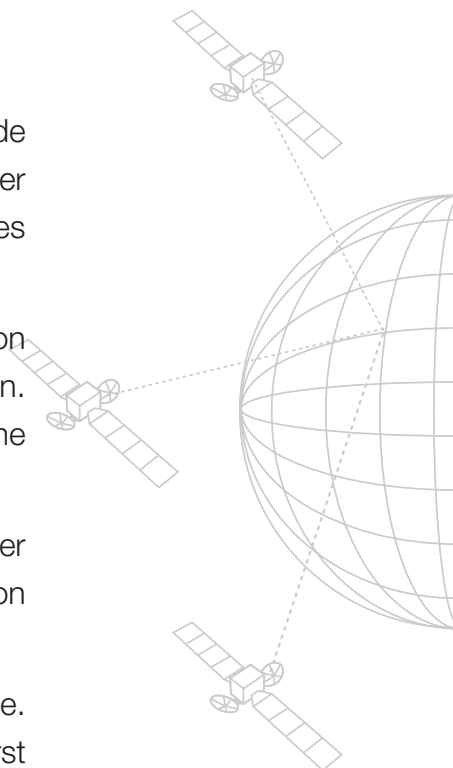
GPS technology explained.

The Global Positioning System (GPS) is a satellite-based navigation system made up of a network of satellites placed into orbit. GPS works in any weather conditions, anywhere in the world, 24 hours a day. There are no subscription fees or setup charges to use GPS.

GPS satellites circle the earth in a very precise orbit and transmit signal information to earth. GPS receivers take this information to calculate the user's exact location. This location is then passed on to the software, which displays in real time the maps relevant to the location.

Once the user's position has been determined, the GPS unit can calculate other information, such as speed, bearing, track, trip distance, distance to destination and more.

Today's GPS receivers with parallel multi-channel design are extremely accurate. A GPS with a 12 parallel channel receiver is quick to lock onto satellites when first turned on and maintains a strong signal whilst driving.





iCN 630

3D Transferable Navigation

The Navman iCN 630 provides the ultimate in-car navigation experience.

Simply load your maps, plug-it in, enter your destination and drive.

Throughout your journey, the iCN 630's unique SmartST™ Version 2 Software will provide turn-by-turn voice instructions until you reach your final destination, guiding you Back-on-Track™ should you leave the suggested route. Along the way, points-of-interest such as petrol stations, restaurants, hotels and airports will appear on-screen, on a map scale that varies with your travelling speed.

The iCN 630's ultra-sharp automotive rated colour screen is in a league of its own, displaying with unprecedented clarity 3D views of street level maps of just about anywhere in the 16 European countries included.

But this is the best part : the iCN 630 is totally transferable in seconds. Which means you benefit from an automotive class navigation system, in any vehicle.

“ ...obviously, the Navman has made a huge difference to our operation's efficiency, particularly in out of town areas, where addresses are not as straightforward as in the city...
...every driver has his own Navman and is responsible for it, so we really needed a mobile solution that was easy to use. ”

Tim Ward
South-East Couriers

key features & benefits

Transferable

Use your iCN 630 from vehicle to vehicle.

Quality

High definition automotive LCD screen housed in magnesium alloy casing.

Voice Guidance

Male and female, turn-by-turn voice instructions.

Navigate and Arrive

To a house number, a street name, an intersection or to a point-of-interest selected from the map database included.

Routing

Automatic calculation of any route to bring you Back-On-Track™ fast if you take the wrong turn.

Visual Guidance

Automatic zooming, up to 200 miles, when driving with overlay arrows showing the exact turn to take when you approach a junction or a roundabout.

Favourites

Use favourites to navigate to your Home, Office, Hotel, Restaurant etc... without having to enter the same details over again.

Display

Variable map and navigation screens allowing you to choose your preferred navigation screen. Night and day map display.

3D Maps

Vivid colour 3D map display, showing street level road details, parks, lakes and rivers.

Avoid Area

Route calculation can be made to avoid user selected areas, so as to exclude areas which are prone to traffic difficulties.

Postcode Search

Enter destination directly by selecting 5 character postcode search.



iCN 630

3D Transferable Navigation

Technical Specifications



Countries covered

United Kingdom
 Ireland (major cities)
 France
 Germany
 Italy
 Belgium
 Netherlands
 Luxembourg
 Austria
 Switzerland
 Portugal
 Spain
 Norway
 Denmark
 Sweden
 Finland (south)

Optional :
 USA, Canada, Australia

GPS Antenna

Multi-directional – Increased capability to receive GPS signal from any direction

External antenna connection via MCX connector (external antenna not included)

GPS Receiver Type

12 channel parallel, automatic selection.

Update Rate

Typically every second once fix established.

Accuracy of Position Fix

The accuracy of the GPS position is typically better than 5m (16ft) for 95% of the time under optimum conditions.

Time to First Fix

Hot start	8s typical
Warm start	38s typical
Cold start	45s typical

Bright, colour 3D maps

3.8" TFT QVGA (320x240) automotive rated landscape screen displaying up to 65536 colours.

Power

External Power
 12 V DC cigarette lighter vehicle power cable.

Fast, dedicated processor

Intel® PXA255 Applications Processor with Intel® XScale™ Technology
 64MB RAM
 64MB Onboard Flash Memory for map and data storage.

Solid construction

Unit completely housed in magnesium alloy casing.

Easy to use controls

Ergonomic keys and touchpad for intuitive navigation of menu-driven graphical user interface.



Expansion

Built-in Secure Digital (SD) and Multimedia Card (MMC)
 Expansion slot.
 Ideal for maps and data storage.

Memory

128 MB MMC card included

To install maps

You will need a computer with the following requirements :
 IBM® Compatible 486 PC or higher, Dual Speed CD-ROM or higher, Microsoft® Windows® 98 SE, ME, 2000 or XP.

Important note

Vehicles that have heated or heat reflective windshields may require a re-radiating or external antenna (not included).



3D View



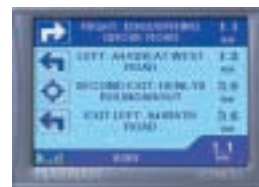
Avoid Area



Display



Drive Control



Instruction list



iCN 620

Transferable Navigation

The Navman iCN 620 is our entry-level transferable navigation solution.

It retains many of the great features and design style of the iCN 630, but comes with a slightly smaller 3.5" screen and 2D regional mapping, rather than Pan-European, which makes it even more affordable.

But in true Navman style, the iCN 620 remains a high-quality transferable navigation solution. Not only does the iCN 620 combine "plug-and-drive" ease of use with the outstanding features of our SmartST™ navigation software Version 1.0, it is also highly expandable, making the iCN 620 a truly versatile navigation system.

Yet, with so many benefits, this high-quality transferable GPS unit remains surprisingly affordable.

“ Since I started using a Navman, I have found it to be a really useful tool. All I do is enter the postcode and street of my next patient, listen and follow the spoken instructions...It's really easy to use...I would recommend it to anyone who spends time on the road going to unfamiliar locations...”

Dr. Paul Wright
Abbey Surgery
London

key features & benefits

Transferable

Use your iCN 620 from vehicle to vehicle.

Quality

High definition colour LCD screen housed in magnesium alloy casing.

Voice Guidance

Male and female, turn-by-turn voice instructions.

Navigate and Arrive

To a house number, a street name, an intersection or to a point-of-interest selected from the map database included.

Routing

Automatic calculation of any route to bring you Back-On-Track™ fast if you take the wrong turn.

Visual Guidance

Automatic zooming when driving with overlay arrows showing the exact turn to take when you approach a junction or a roundabout.

Favourites

Use favourites to navigate to your Home, Office, Hotel, Restaurant etc... without having to enter the same details over and over again.

Display

Variable map and navigation screens allowing you to choose your preferred navigation screen. Night and day map display.

2D colour maps

Full colour 2D maps display showing street level road details, parks, lakes and rivers.



iCN 620

Transferable Navigation

Technical Specifications

Countries covered

The country maps provided vary according to the product language :

- United Kingdom , Ireland
- France, Switzerland
- Italy
- Spain, Portugal, Andora
- Germany, Austria, Switzerland
- Belgium, Netherlands, Luxembourg
- Norway, Sweden, Finland, Denmark

Optional :
Maps from other European countries, as well as the USA, Canada and Australia, are available as an option.

To install maps

you will need a computer with the following requirements :
IBM® Compatible 486 PC or higher, Dual Speed CD-ROM or higher, Microsoft® Windows® 98 SE, ME, 2000 or XP, internet connection (when installing), Internet Explorer 5.5 or higher.

Important note

Vehicles that have heated or heat reflective windshields may require a re-radiating or external antenna (not included).

Bright, colour maps
3.5" Transreflective QVGA (320 x 240) landscape screen, displaying up to 65536 colours.

Power
External Power
12 V DC cigarette lighter vehicle power cable.

Fast, dedicated processor
Intel® PXA250 Applications Processor with Intel® XScale™ Technology
64MB RAM
64MB Onboard Flash Memory for map and data storage.

Solid construction
Unit completely housed in magnesium alloy casing.



Expansion
Built-in Secure Digital (SD) and Multimedia Card (MMC) Expansion slot.
Ideal for maps and data storage.

Easy to use controls
Ergonomic keys and touchpad for intuitive navigation of menu-driven graphical user interface.

GPS Antenna
Multi-directional – Increased capability to receive GPS signal from any direction
External antenna connection via MCX connector (external antenna not included)

GPS Receiver Type
12 channel parallel, automatic selection.

Update Rate
Typically every second once fix established.

Accuracy of Position Fix
The accuracy of the GPS position is typically better than 5m (16ft) for 95% of the time under optimum conditions.

Time to First Fix

Hot start	8s typical
Warm start	38s typical
Cold start	45s typical



Points of interest display



Motorway junction



Speed limit



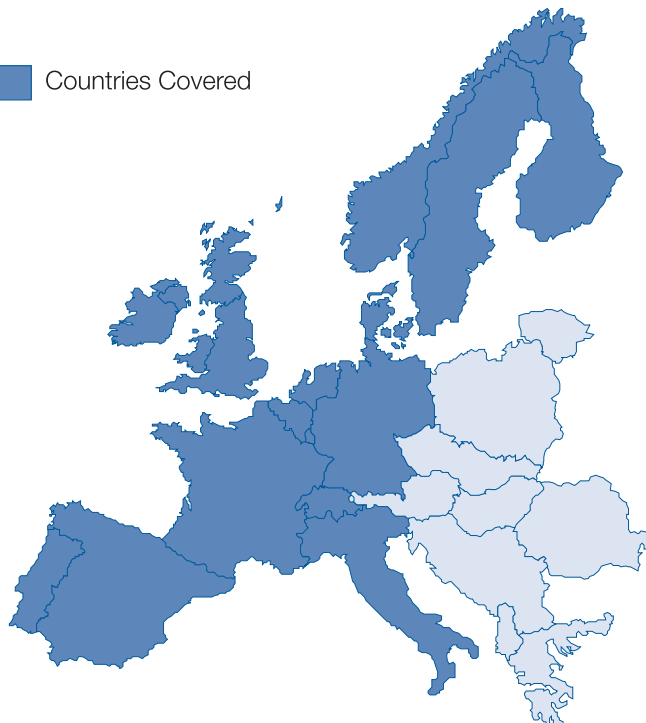
Points of interest

iCN 630 & iCN 620 Maps and accessories

Below are some of the additional software products, maps and accessories to enhance your navigation experience.



Countries Covered



Map data for your iCN

Should you need to use your navigation system in regions not covered by the maps included with your iCN.

Versions available include :
Western Europe
USA
Australasia

External antenna

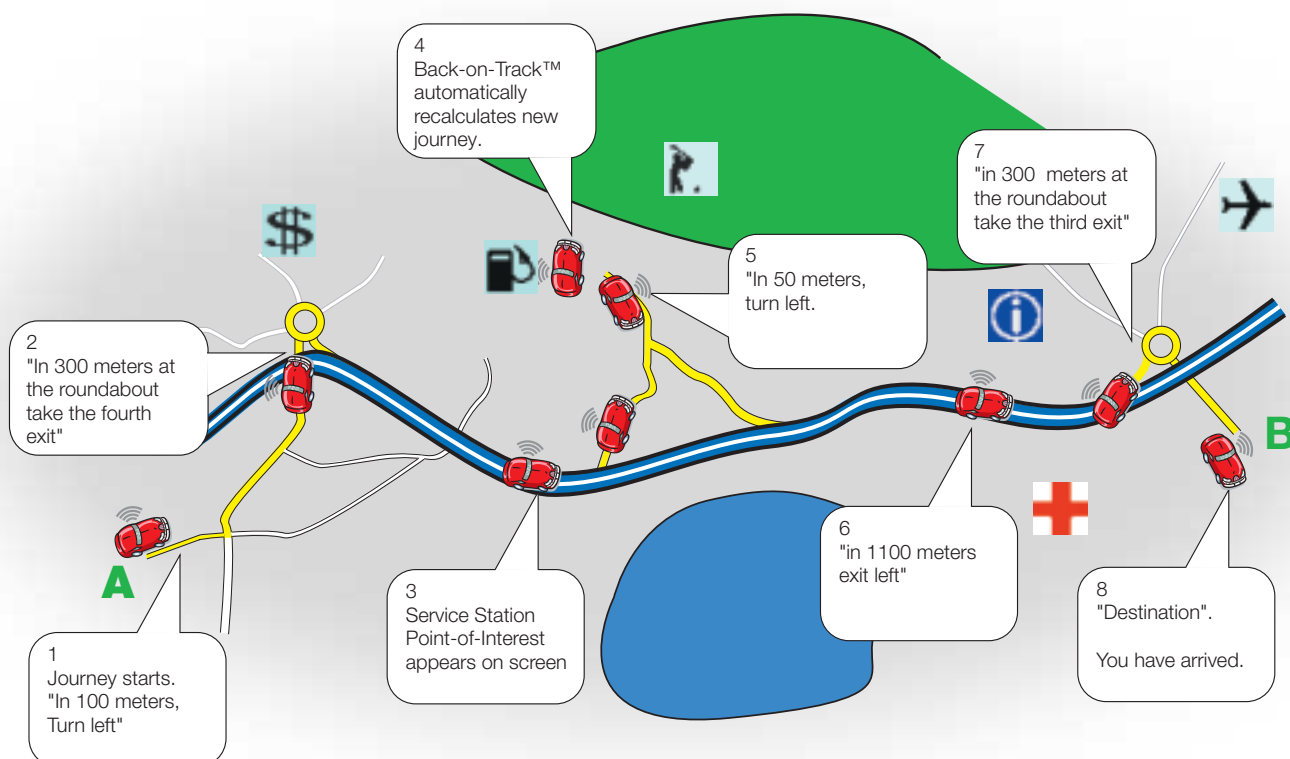
For vehicles that have heated or heat reflective windshields. This external antenna is supplied with a 5m cable and connects to your iCN via its MCX connector.

European coverage

The iCN 630 comes with 16 country maps covering most of Western Europe. The iCN 620 comes with regional maps (See Technical Specifications page for details).

iCN 630 & iCN 620 SmartST™ example journey voice instructions

Below are some of the voice instructions your iCN unit would "speak" on a simple journey, going from A to B.



iCN 630 & iCN 620 Comparison chart

iCN 630



iCN 620



Transferable	•	•
TFT QVGA LCD screen	•	•
Screen size	3.8"	3.5"
Screen resolution (pixels)	320x240	320x240
External power	•	•
SD and MMC expansion slot	•	•
Country maps supplied	16 (Continental Europe)	1 (UK and Ireland)
3D Maps	•	-
Back-on-Track™	•	•
Turn-by-turn voice instructions	•	•
Day and night screen display	•	•
Variable map and navigation screens	•	•
Automatic zooming	•	•
Post Code Searching	•	-
Avoid Areas	•	-
User Selectable language on iCN	•	-
Route to a town only	•	-
Zoom out to 200 mile scale	•	-
Complete Route Summary	•	-

iCN 630 & iCN 620 Box Contents

Box contents iCN 630

iCN 630 unit with integral GPS Receiver

SmartST V 2.0 navigation software and 3 map CD's

128 MB MMC memory card

Vehicle windshield and dash mounting bracket

Vehicle power cable

Mains Power Pack for indoor installation and planning

USB Cable for installation of maps

Quickstart guide

CD-ROM includes:

User manual

Adobe Acrobat Reader



Box contents iCN 620

iCN 620 unit with integral GPS Receiver

SmartST V 1.0 navigation software and 2 map CD's

Vehicle windshield mounting bracket

Vehicle power cable

Mains Power Pack for indoor installation and planning

USB Cable for installation of maps

Quickstart guide

CD-ROM includes:

User manual

Adobe Acrobat Reader



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