GET SET FOR ADVENTURE

2010 IN-CAR NAVIGATION AND ENTERTAINMENT
Be prepared for whatever comes your way. NavGate is the future of in-car travel. Mixing unsurpassed navigation guidance with Bluetooth® Wireless Technology and a host of multimedia capabilities, these systems offer the complete solution for every trip. NavGate takes the stress out of travelling, giving you the freedom to enjoy the road. Wherever you feel like going, you’ll stay on track, in touch and entertained the whole way. It’s time to start the next adventure. Lead the way.

THE NEW WAY TO TRAVEL
IT’S TIME TO DISCOVER

With NavGate in your car, you can experience the road like never before. More than basic navigation units, NavGate systems enhance your drive with a host of communication and entertainment possibilities. They are simple to use, fit smoothly in all types of cars and can be customised to suit your own taste. Explore. Talk. Play. With NavGate, it’s that easy.

EXPLORE

TALK

PLAY

YOUR CAR, OUR SOLUTION

With NavGate, smooth and seamless integration comes as standard. The NavGate line-up features solutions for all types of factory dashboard locations and custom-fit units for a wide range of vehicles. So, whatever car you drive, there is a perfect fit for you.

Find the best match for your car at www.pioneer.eu/navgate
At heart, NavGate is about fast and precise in-car navigation. Explore Europe using comprehensive, preinstalled map data from Tele Atlas, covering 44 European countries and featuring millions of destinations and Points Of Interest (POIs). Navigation is stress-free thanks to easy address input and fast route calculation. To avoid any unwelcome surprises, all 2010 models come with a Traffic Message Channel (TMC) receiver, giving you up-to-date traffic information while on the road.

EXPLORE

Stay connected as you travel with Bluetooth Wireless Technology. All 2010 in-dash NavGate Systems feature a built-in Bluetooth module from Parrot, giving you the freedom of hands-free telephony on the road. Because your calls are played through your car’s speakers, all conversations are loud and clear. Calls and contacts can be managed with your unit’s Touch Screen.

PLAY

Travelling should be fun. With NavGate, you and your passengers will stay entertained the whole way. Enjoy playback of your discs and portable sources, such as iPod, iPhone, USB and SD. Or simply select and listen to your favourite radio stations. You get easy control of your sources via your system’s Touch Screen. Enjoy the trip!

DISCOVER MORE: WWW.PIONEER.EU/NAVGATE
2010 NAVGATE FEATURES

REVOLUTIONARY AV CONTROL

The new AV user interface of our high-end NavGate systems has been designed to revolutionise the way you control your music and videos in your car*. Operated by your unit’s Touch Screen, the AV user interface is completely intuitive. Its advanced features include dynamic shortcuts to access sources, menus and lists of files, interactive 3D animation during operation and exclusive Slide Touch control to quickly select new songs and videos simply by dragging your finger.

* This feature is not available for the AVIC-F320BT/3210BT.

CUSTOMISABLE HOME MENU

Create your own personalised Short Cut menu on your NavGate unit, featuring your most frequently-used functions. Simply drag and drop icons onto the menu to act as quick links to the desired functions. The customised Short Cut menu can then act as the Home menu to your NavGate system.

COMPLETE MULTIMEDIA CONNECTIVITY

NavGate Systems come with a range of connection options, so you’ll never be without your favourite music and videos*. Insert an SD card or directly connect your iPod, iPhone or USB devices to enjoy complete multimedia playback on the road.

* For the AVIC-F320BT/3210BT, video playback (MPEG4, H.264) is only available via NavGate Application, a downloadable set of NavGate features, and only from SD card.

COLOUR CUSTOMISATION

Perfectly integrate your NavGate System into your dashboard. Colour Customisation* allows you to change the button illumination colour of your unit to exactly match your existing dashboard illumination. Any colour in the RGB spectrum can be selected simply by using the RGB colour selector. Custom colours can be saved in the system and recalled at any time. Our high-end models also have factory preset colours that perfectly match the most common vehicle brands.

* The Colour Customisation feature for the AVIC-F320BT/3210BT is available via NavGate Feeds.
**ECO-FRIENDLY TRAVEL**

ECO Drive is a brand new feature that monitors how economically you are driving and gives you an ECO Score based on your environmental impact*. Calculations are made on estimated average fuel consumption and road type, factoring in abrupt stops, accelerations and idle time. You can view your ECO Score during each trip on screen with the ECO Graph. Throughout the trip, the ECO Graph is regularly updated, making it easier to see how your ECO Score adapts as you drive. Apart from helping the environment, the ECO Drive feature is a great way to see how you can be more cost-effective with your fuel. The NavGate Feeds application also lets you see how efficient you are on the road. Detailed reports include estimates of the fuel cost for specific routes and your vehicle’s CO₂ emissions. The application can also analyse driving habits over a period of time to give you suggestions on how to be more economic with your fuel.

* ECO Drive’s calculations are an estimate of the real-time fuel consumption to average fuel consumption ratio and do not represent an actual value. ECO Drive’s calculations take into account the location of the GPS position and speed of the vehicle when determining a value. Indications of this unit may be different from the actual value. Some features of this device do not take into account the type of vehicle it is installed in.

**MusicSphere**

Want your music to suit your mood? MusicSphere, Pioneer’s brand new software application for iTunes, uses your iTunes library to automatically create mood-based playlists of your music. These playlists can then be transferred to your iPod or iPhone and played on your NavGate device. MusicSphere analyses the music in your entire iTunes library and makes playlists at your command. Choose certain moods, such as bright, energetic or gloomy, and MusicSphere will create playlists to suit. You can also create non-stop mixes of your music, adding transient effects between your songs. Once your iPod or iPhone has been connected to your NavGate system, you can access the MusicSphere playlists using the interactive 3D Sphere interface*. The Sphere shows all MusicSphere playlists stored on your iPod or iPhone. Simply use your finger to rotate and select. To discover more about MusicSphere, go to www.pioneer.eu/musicsphere

* MusicSphere playlists can be played through your AVIC-F320BT/3210BT, but these 2 models do not feature the 3D Sphere interface.
NAVIGATION THAT FITS AROUND YOU

Get the most from your drive with NavGate Feeds. This free software offers a range of interesting features for your NavGate System. Learn more and download NavGate Feeds at www.pioneer.eu/navgatefeeds

NAVGATE FEEDS FOR YOUR PC
With NavGate Feeds, you can prepare updates for your NavGate System and see travel information right on your own PC.

CUSTOMISABLE NAVIGATION
Find your own POIs from a range of sources, such as Google Maps™ mapping service* and internet POI sites, and add them to your system’s maps using an SD card.

*Google Maps is a trademark of Google Inc.

DRIVE REPORT
See an overview of your journeys and the number of kilometres you’ve travelled. Using the Drive Report feature on NavGate Feeds you can view the trips you’ve made on a map, to which you can add comments. Useful when you need to calculate your travel expenses.

IMAGE EDITOR
Create a personalised start-up screen for your NavGate System and icons for POIs with the NavGate Feeds Image Editor.

NAVGATE FEEDS FOR YOUR SMARTPHONE
Plan your route before stepping into your car. NavGate Feeds is now available as an application for smartphones. Use your mobile to find locations on the internet, and transfer them to your NavGate system via the Bluetooth connection. The new locations can then be selected as destinations on your NavGate unit, and the routes will be automatically generated. The downloadable application is available for a range of smartphones. Find out more and download the application at www.pioneer.eu/feedsforsmartphone
DISCOVER EUROPE

2010 MAP COVERAGE

All 2010 NavGate models come with Tele Atlas map content for the whole of Europe stored in their internal memories. Travel anywhere in confidence with detailed coverage of over 9 million kilometres of roads, across 44 European countries. House numbers are included for many of the covered areas. All NavGate units also feature Points Of Interest, such as restaurants, hotels and car dealers, to make it easier to find those necessities in unfamiliar places.

See page 16 for an overview of the navigation features for all NavGate Systems.
THE SUPERIOR CHOICE

If you’re serious about having the finest components in your car, the AVIC-F20BT is your ideal match. Explore Europe with fast and ultra-precise 2D and 3D navigation guidance and high-resolution maps. Experience your music in finer detail with the select range of high-end audio components. Enjoy your videos and movies on the superior 7-inch Touch Screen. Benefit from wireless telephony and music streaming with the built-in Parrot Bluetooth module. Use Voice Recognition to search for addresses and switch between your audio sources. The most advanced NavGate System to date leaves nothing to be desired.

AVIC-F20BT
NAVIGATION DVD AV SYSTEM

VOICE RECOGNITION

Use conversational Voice Recognition to control a number of navigation, Bluetooth and audio functions on the AVIC-F20BT. This advanced technology can recognise and accept words in conversational speech, by filtering out any unnecessary sounds and phrases. So you don’t have to memorise a list of preset commands.

HEAR THE DIFFERENCE

The AVIC-F20BT’s high-quality power line capacitor ensures a stable power supply, while the rounded audio signal pattern reduces distortion. The Advanced Sound Retriever restores the level of compressed music to that of the original recording, while the 7-band Graphic Equaliser (GEQ) lets you adjust the equalisation levels to best suit the acoustics of your car.
3D LANDMARKS

Ready to see the sights? More than 2000 of Europe’s most famous landmarks, such as the Eiffel tower in Paris and the Colosseum in Rome, have been included in the navigation software for the AVIC-F20BT.

CITY MAPS

Get to your destination within the city more easily. The AVIC-F20BT includes detailed City Maps for 147 of Europe’s leading cities. City Maps include the footprints of buildings and show the actual geometry of roads.

JUNCTION VIEW

The exclusive junction view feature takes the stress away from picking the correct exit at junctions. When approaching a junction, your unit informs you of which lane to take, with enough time for you to manoeuvre your vehicle.

DUAL ZONE

The AVIC-F20BT utilises the Dual Zone feature. This allows front and rear seat passengers to enjoy different AV sources at the same time. While the front seat passengers listen to music from a portable source, such as an iPod or iPhone, USB device or SD card, rear seat passengers can watch a DVD on optional rear screens. You can also play back music and video while navigating, so you can keep your passengers entertained for the whole trip.

* 18 languages supported.
** 6 languages supported: Dutch, English, French, German, Italian and Spanish.
THE PERFECT TRAVEL PARTNER

The AVIC-F920BT is the ideal on-road assistant. This all-in-one system not only gets you there, it gives you a complete range of navigation, communication and entertainment possibilities along the way. Highly accurate navigation route guidance, up-to-date traffic information, high-resolution maps, built-in Bluetooth Wireless Technology for hands-free telephony and audio streaming, a host of AV playback possibilities, including direct control of your iPod, iPhone and files from microSD and USB: everything you could want on your journey has been catered for. This high-end NavGate system takes the stress away from travelling on the road, so you are free to explore, talk and play your own way. The AVIC-F920BT is also available in two custom-built versions: the AVIC-F9210BT for VW, Skoda and Seat cars and the AVIC-F9220BT for Ford cars.

AVIC-F920BT
NAVIGATION DVD AV SYSTEM

TMC RECEIVER

Pioneer’s NavGate Systems come with a TMC Receiver, so they can offer detailed traffic information. In countries where real-time TMC traffic information is broadcast, the system indicates any traffic situations on the map and presents you with an alternative route in order to avoid them. A special menu function lists all the current traffic events in the area and even sorts them by ‘Distance’ or ‘Event’.
**AVIC-F9210BT**

**NAVIGATION DVD AV SYSTEM**

The AVIC-F9210BT has the same features as the AVIC-F920BT, but is custom built for VW, Skoda and Seat cars.

The AVIC-F9210BT is compatible with the steering wheel “Phone Key” in vehicles that use this key.

**AVIC-F9220BT**

**NAVIGATION DVD AV SYSTEM**

The AVIC-F9220BT has the same features as the AVIC-F920BT, but is custom built for Ford cars.

**BLUETOOTH WIRELESS TECHNOLOGY**

Enjoy the freedom of Hands-free Telephony in your car. All 2010 NavGate Systems feature a built-in Parrot Bluetooth module, allowing you to leave your phone in your pocket or bag and focus on the road ahead. All Bluetooth telephony functions can be controlled quickly and easily from your NavGate unit’s touch panel, so browsing through contacts and making calls has never been easier. The AVIC-F20BT, AVIC-F920BT, AVIC-F9210BT and AVIC-F9220BT also feature Bluetooth Music Streaming, which lets you stream your favourite songs from your mobile phone directly to your NavGate System.

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**CUSTOM BUILT FOR VW, SKODA AND SEAT CARS**

**CUSTOM BUILT FOR FORD CARS**

**HIGH-QUALITY SOUND**

- MOSFET 50 W x 4 Amplifier
- RDS Tuner
- 7-band GEQ
- Advanced Sound Retriever
- High Pass Filter/Low Pass Filter
- Source Level Adjuster

**INTEGRATION & CONTROL**

- 6.1-inch WVGA Touch Screen
- Revolutionary AV Control
- Multi-language User Interface*
- Colour Customisation
- Steering Wheel Remote Input

* 18 languages supported.
TAKE A NEW ROUTE

Looking to make that first upgrade to an all-in-one navigation and entertainment system? Let us introduce the AVIC-F320BT. This 2-DIN NavGate System gives you advanced 2D and 3D navigation, connection to all of your portable audio sources and Bluetooth hands-free telephony. Its clever design emphasises intuitive, user-friendly control, while its 4.3-inch Touch Screen can be easily detached and taken inside overnight. You can also play compressed video via SD using NavGate Application, Pioneer’s downloadable set of NavGate features. As a finishing touch, the button illumination colour can be customised to perfectly match the colour of any dashboard illumination, using the NavGate Feeds PC application. The AVIC-F320BT is also available in a custom-built version: the AVIC-F3210BT for VW and Skoda cars.

NAVIGATION CD AV SYSTEM

AVIC-F320BT

NAVIGATE APPLICATION

Enjoy video and photo playback from your AVIC-F320BT and AVIC-F3210BT thanks to NavGate Application, a downloadable set of features for your NavGate system. The video player lets you watch compressed video formats (MPEG4/H.264) from SD right on your unit’s screen, while the picture viewer allows you to see slideshows of your favourite photographs with cool transitional effects in between each image. There’s also a wide selection of clock displays to act as your system’s background visual. Download NavGate Application and update your device via NavGate Feeds.
AVIC-F3210BT

NAVIGATION CD AV SYSTEM

THE AVIC-F3210BT HAS THE SAME FEATURES AS THE AVIC-F320BT, BUT IS CUSTOM BUILT FOR VW AND SKODA CARS.

For added convenience, the AVIC-F3210BT has a built-in Source Tray to store your iPod, USB stick or other portable audio device while it is connected.

MEDIA CONNECTIVITY
- SD Card Slot
- Rear USB
- iPod & iPhone Direct Control (music)
- Rear Aux-in

BLUETOOTH WIRELESS TECHNOLOGY
- Hands-free Telephony

ENHANCED DRIVE
- ECO Drive

SYSTEM EXPANSION
- 1 RCA Pre-out
- Direct Subwoofer Drive

HIGH-QUALITY SOUND
- MOSFET 50 W x 4 Amplifier
- RDS Tuner
- 3-band PEQ
- Advanced Sound Retriever
- High Pass Filter/Low Pass Filter
- Source Level Adjuster

INTEGRATION & CONTROL
- 4.3-inch WQVGA Detachable Touch Screen
- Multi-language User Interface*
- Colour Customisation
- Steering Wheel Remote Input

DETACH AND GO

For your peace of mind, the front unit of the AVIC-F320BT and AVIC-F3210BT is detachable. Once this part is removed, the rest of the system can no longer be operated. It also fits nicely in your pocket or bag, so it’s no hassle to take it with you when leaving your car.

CONNECT TO YOUR PC

The AVIC-F320BT and AVIC-F3210BT come with a USB cable, so you can connect them directly to your home PC and update your device via an SD card. Simply hook your unit up to utilise various NavGate Feeds features, such as Colour Customisation, download NavGate Application and plan your trip at home.

* 18 languages supported.
# NAVIGATE COMPARISON CHART

See which NavGate System suits you best. Use the chart below to compare the key features of all 2010 models.

<table>
<thead>
<tr>
<th>EXPLORE</th>
<th>AVIC-F20BT</th>
<th>AVIC-F20BT BT</th>
<th>AVIC-F20BT BT</th>
<th>AVIC-F20BT BT</th>
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<tbody>
<tr>
<td>Map Coverage</td>
<td>Europe (44 countries, 9 million km of roads)</td>
<td>Europe (44 countries, 9 million km of roads)</td>
<td>Europe (44 countries, 8 million km of roads)</td>
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<tr>
<td>Films</td>
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<td>NavGate Feeds PC Application</td>
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<td>NavGate Feeds For Smartphone</td>
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<td>3D Landmarks</td>
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<td>Junction View</td>
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<td>TMC Receiver</td>
<td>External, Included</td>
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<tr>
<td>Address Input by Voice</td>
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<td>Voice Dialing</td>
<td>25/30, Street View, Rear View, GPS Graph</td>
<td>25/30, Street View, Rear View, GPS Graph</td>
<td>25/30, Street View, Rear View, GPS Graph</td>
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<td>EXPLOR</td>
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<th>TALK</th>
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<td>Bluetooth Wireless Technology</td>
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<td>Hands-Free Telephone</td>
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<td>Music Streaming</td>
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<td>Voice Recognition</td>
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<tr>
<td>Phonebook Capabilities</td>
<td>5 x 1000 contacts</td>
<td>5 x 1000 contacts</td>
<td>4 x 200 contacts</td>
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<th>PLAY</th>
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<tr>
<td>DVD Video Playback</td>
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<tr>
<td>iPod and iPhone Direct Control</td>
<td>Music &amp; Video</td>
<td>Music &amp; Video</td>
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<td>SD Card Slot</td>
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<td>MusicSphere</td>
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<td>Audio Source Selection by Voice</td>
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<td>NavGate Application</td>
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<tr>
<td>Audio Playback</td>
<td>MP3, WMA, WAV, AAC</td>
<td>MP3, WMA, WAV, AAC</td>
<td>MP3*, WMA*, WAV*, AAC**</td>
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<td>DivX***, H.264, WMV*</td>
<td>DivX***, H.264, WMV*</td>
<td>MPEG4****, H.264****</td>
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<td>JPEG playback</td>
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<td>Simultaneous Entertainment and Navigation</td>
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<tr>
<td>RCA Pre-outs</td>
<td>3 F + R + SW</td>
<td>3 F + R + SW</td>
<td>1 R or SW</td>
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<td>High Voltage Output</td>
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<td>Direct Subwoofer Drive</td>
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<td>AUX Input</td>
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<tr>
<th>INTEGRATE &amp; CONTROL</th>
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<td>Installation</td>
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<td>2-DIN</td>
<td>2-DIN</td>
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<td>6.1-inch</td>
<td>6.1-inch</td>
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<td>Screen Type</td>
<td>WVGA Touch Screen</td>
<td>WVGA Touch Screen</td>
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<td>Revolution AV Control</td>
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<td>Multi Language User Interface</td>
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<td>Colour Customisation</td>
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<tr>
<td>Start-up Screen Customisation</td>
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* Only from SD/USB
** Only from USB
*** Only from DVD/CD
**** Only via NavGate Application
ACCESSORIES
Enhance your drive with our range of in-car accessories.

BACK-UP CAMERAS
Get a better view of what’s happening behind your car when in reverse. Our Back-up Cameras capture a wide-angle image of the area behind your car and project it onto your in-car screen, giving you more piece of mind in those tricky situations.

**ND-BC4**
HIGH-SENSITIVITY UNIVERSAL BACK-UP CAMERA
The ND-BC4 features a high-sensitivity lens with a sight line of 135 degrees and an embedded chip which automatically adjusts brightness in light or dark driving conditions.
Available for the AVIC-F20BT, AVIC-F920BT, AVIC-F9210BT and AVIC-F9220BT.

**ND-BC20PA**
UNIVERSAL BACK-UP CAMERA WITH VISUAL DSP UNIT
The ND-BC20PA incorporates a visual DSP unit, which eliminates any wide-angle distortion effect. The camera also features ‘Parking Guidelines’ for easier reverse parking.
Available for the AVIC-F20BT, AVIC-F920BT, AVIC-F9210BT and AVIC-F9220BT.

**CD-IU50**
iPod-TO-USB CABLE
The CD-IU50 supports playback of iPod music.
Connects to the AVIC-F320BT and AVIC-F3210BT.

**CD-IU50V**
iPod VIDEO CABLE
The CD-IU50V supports playback of iPod music and video.
Connects to the AVIC-F20BT, AVIC-F920BT, AVIC-F9210BT and AVIC-F9220BT.

**CD-RM10**
MINI-JACK RCA AV CABLE
The CD-RM10 allows you to connect an external video device* or portable audio player (e.g., digital stills camera, camcorder, games console, portable AV player, music player or music phone).
* Video playback is not available for the AVIC-F320BT or AVIC-F3210BT.
Connects to the AVIC-F20BT, AVIC-F920BT, AVIC-F9220BT, AVIC-F320BT and AVIC-F3210BT.

DISCOVER MORE:
WWW.PIONEER.EU
THE NAVGATE UPGRADE

Add the power of NavGate to your AV system. If you own a 2010 Pioneer DVD Multimedia Station, you can hook up the hideaway AVIC-F220 NavGate Upgrade Unit and enjoy advanced navigation capabilities through your multimedia system. The AVIC-F220 features our extensive Tele Atlas map coverage for 44 European countries, a TMC receiver for up-to-date traffic information and ECO Drive, which analyses how economically you drive and helps you cut your fuel usage. The unit is also compatible with our NavGate Feeds PC application and NavGate Application, a downloadable set of features which lets you get even more from your system.

GET SET TO EXPLORE

- Explore Europe with comprehensive Tele Atlas map data (44 countries, 9 million km of roads).
- Discover 2.3 million POIs.
- Get up-to-date traffic information with the TMC Receiver.
- Drive more economically with the ECO Drive feature.
- Add your own POIs and retrieve your travel data with the NavGate Feeds PC application.
- Plan your trip before getting into your car with NavGate Feeds For Smartphone.

AVIC-F220
NAVGATE UPGRADE UNIT

The AVIC-F220 can be connected to the following Pioneer DVD Multimedia Stations:

- AVH-5200DVD/BT
- AVH-P4200DVD
- AVH-3200DVD/BT

GET SET TO EXPLORE

- Explore Europe with comprehensive Tele Atlas map data (44 countries, 9 million km of roads).
- Discover 2.3 million POIs.
- Get up-to-date traffic information with the TMC Receiver.
- Drive more economically with the ECO Drive feature.
- Add your own POIs and retrieve your travel data with the NavGate Feeds PC application.
- Plan your trip before getting into your car with NavGate Feeds For Smartphone.

The AVIC-F220 can be connected to the following Pioneer DVD Multimedia Stations:

- AVH-5200DVD/BT
- AVH-P4200DVD
- AVH-3200DVD/BT

COMPLETELY FLEXIBLE

The AVIC-F220 can be mounted in any direction, giving a range of options when it comes to putting it in your car. Sit it on the arm rest, put in the glove box – whatever suits you best. The sleek and stylish main unit is detachable, so you don’t have to leave it in your car overnight. Just slip it in your pocket and take it inside. This detachable unit can also be connected straight to your PC or laptop for NavGate Feeds updates.

- PICK UP THE 2010 IN-CAR ENTERTAINMENT GUIDE FOR MORE INFORMATION ON THE AVIC-F220 AND PIONEER DVD MULTIMEDIA STATIONS.
COMPLETE YOUR DRIVE

Want to get the best from your music? Pioneer’s audio products can give you the upgrade in sound quality you’ve been looking for. It’s time to hear your music the way it was supposed to be heard. You’ll really notice the difference.

THE SUPERIOR SOUND UPGRADE

It’s difficult to describe the experience of truly superior car audio. Your music is enhanced, and you recognise every detail, texture and instrument, as though you were listening to a live stage performance right in your car. This is the type of experience our TS-E Speakers give you. Based on our Open & Smooth™ Concept, they deliver strong and precise sound, with smooth octave-to-octave tonal balance and perfect reproduction of all frequencies. It’s time to experience accurate and full-bodied sound that will completely change the way you listen to music in your car.

BASS FOR ANY SPACE

Requiring minimum space and hardly any installation time, our Amplified Subwoofers are the ultimate all-in-one solution for getting powerful, punching bass in your car. Extremely compact in size, these subs are designed to occupy the places you don’t need, so they help you utilise the space in your car more efficiently. They all come complete with a built-in MOSFET amplifier, so you don’t have to install an external amplifier to power your sub. This not only saves space but keeps installation as quick and easy as possible – simply set up the sub in your car and connect it straight to your headunit.

COMPACT YET POWERFUL

Our Digital GM Amplifiers utilise Class-D technology, which allows them to be extremely compact in size, while still retaining the power of conventional amplifiers. Thanks to their innovative circuitry design, they can be as little as 45% of the size of conventional amplifiers. But while they are small, there is no compromise on power. Class-D amplifiers use energy more efficiently, converting as much as 70% of the input power into the output load. The result is an amplifier that requires only two-thirds of the current of a conventional amplifier to produce the same output power.

PICK UP THE 2010 IN-CAR ENTERTAINMENT GUIDE FOR MORE INFORMATION ON OUR FULL LINE-UP OF AUDIO PRODUCTS.
**PIONEER WORLD**

We don’t just make products to entertain. Our aim is to move you, inspire you and give you the freedom to be yourself. Every aspect of planning, designing and constructing our products is done so with you in mind. It’s all about choice – from experiencing true cinema quality in your living room, to having full multimedia entertainment on the road, to simply being able to enjoy your portable sources, like iPod, USB and SD, when it suits you. Everything’s possible, in true Pioneer style. So, whatever you’re doing, wherever you’re going, however you’re getting there, we help you to live life to the full.

**EXPERIENCE ON EVERY LEVEL...**

**IN THE HOME**

If you’re looking for the best audio/visual experience in your home, look no further. When it comes to home AV products, Pioneer has a tradition of being the true reference for quality. Our philosophy is to always guarantee a superior experience. It’s at the base of every product we design and build. So, whatever type of product you choose, whether it’s for your music or your videos, you can rely on the fact that you’ll be getting the ultimate experience every time.

**IN THE CAR**

Just because you’re on the road, doesn’t mean you have to make any sacrifices when it comes to your enjoyment. Our range of in-car products lets you get the most out every trip: from precise navigation to superior audio components to the easiest solutions for playing your portable sources in your car. There’s a selection of products for every need and every taste, no matter what car you drive or what type of driver you are. Get set for a new life on the road.

**WHEREVER IT SUITS YOU**

Music is a personal thing. That’s why you should be able to enjoy it wherever and however you want. We believe that products for playing your music should fit your lifestyle, not the other way around. Take our brand new iPod Speakers Systems as an example. Now you can enjoy your iPod music wherever you are, in the house, without having to wear your headphones. Just plug your iPod directly into the unit and select your tracks. It’s a great way to share your iPod music with friends. For those who like to enjoy their music on the go, our range of Headphones can suit any musical taste, lifestyle and fashion sense. If you like to be more hands on, Pioneer’s DJ equipment always gives you the last word when it comes to putting in a top performance. The first choice for club and bedroom DJs alike, these products are designed to stay in sync with the evolving ways DJs work and are constantly revolutionising the DJ scene.

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PIONEER ONLINE
Go online and discover the world of Pioneer. Visit our website and learn everything you need to know about our products, get all of our latest news and updates and follow Team Pioneer as they compete in Europe’s biggest sound quality competitions. You can also join us on facebook and see what we’ve been up to, meet other Pioneer fans and tell us what you think about our products. And that’s just for starters. See you there!

THE BEST INFO
The Pioneer website offers extensive information for all products in our line-up. Familiarise yourself with all product features, learn about our exclusive technologies and see and download high-quality images. For our NavGate systems, you can also see which units best suit your car. Simply enter the make, model and year of your car and you’ll be directed to the products that are the best match for you.

THE LATEST NEWS
Keep up to date with what’s happening in Pioneer World. Not only can you read the latest Pioneer news online, but now you can get it straight on your desktop by downloading our RSS Newsfeed. You can also subscribe to receive regular mails containing our latest product information and special deals. The Pioneer website is also the place to get the latest product brochures, product manuals and software and firmware updates for your Pioneer equipment.

DISCOVER PIONEER WORLD:
WWW.PIONEER.EU  WWW.FACEBOOK.COM/PIONEER.ELECTRONICS  WWW.YOUTUBE.COM/PIONEEREUROPE
GLOSSARY

Here you can find an explanation of all logos and features that appear throughout this catalogue. Each section has been organised alphabetically for your convenience.

LOGOS

AAC
Advanced Audio Coding
AAC refers to an audio compression technology standard used with MPEG2 and MPEG4. It provides more efficient audio encoding compression than other formats like MP3 while delivering quality comparable to uncompressed CD audio. Pioneer units playback AAC files encoded by iTunes®.

Basalt Blended Cone
The cones of Pioneer’s T51-E Speakers, Shallow-type Subwoofers, Competition-grade SPL Subs and Champion Series Subs are reinforced with fibres from volcanic basalt rock. The use of basalt fibres in speaker cones is unique to Pioneer and not only increases the strength of the cones, but allows for more precise sound and tighter, punchier bass reproduction.

Bluetooth
Units with this revolutionary technology communicate automatically with most Bluetooth enabled mobile phones® and treat the mobile as a source device. After set-up of an individual user identity, Bluetooth Wireless Technology ensures automatic data communication between the phone and your navigation unit, whenever the two devices are within range of each other.

DivX
Using the DivX codec, lengthy video segments can be compressed into small sizes while maintaining relatively high visual quality.

Dolby Digital
The current surround sound quality encoding standard. Dolby Digital provides in-car movie theatre sound performance. The front left and right, centre and rear left and right speakers span frequencies from 20 Hz-20 kHz, and there is a dedicated subwoofer channel for additional low frequency sound effects.

DVD-R/RW
DVD-R and DVD-RW are DVD recordable formats. DVD-R is a “write once” format, which only allows data to be recorded once. DVD-RW is a rewritable format allowing data to be re-noured over existing data given number of times.

DVD Video
DVD guarantees second-to-none picture quality. The ultra-sharp digital picture and surround sound being impressive cinema into your car. DVD is also packed with useful features, such as multiple languages, soundtracks and subtitles and support for various multi-channel audio-encoding technologies such as DTS and Dolby Digital.

Made For iPod
“Made for iPod” means that an electronic accessory has been designed to connect specifically to iPod and has been certified by the developer to meet Apple performance standards. Units showing this logo allow you to control your iPod directly from the unit.

MP3
MP3 is a popular compression format that allows large amounts of audio files to be stored on a data disc or other portable format. MP3 compatible Pioneer players come equipped with large buffering capabilities, which means they are able to handle data rates from 16 kbps and VBR (Variable Bit Rate) recording.

Open & Smooth™ Concept
Our revolutionary Open & Smooth™ Concept enhances your in-car listening experience by surrounding you with pure, multidimensional sound. Speakers based on this concept allow you to experience your music as though it were coming from a wide, open stage right in front of your dashboard. It allows for a completely smooth transition between sound frequencies, giving a natural and dynamic flow to your music.

Parrot
Parrot develops technologies for embedded noise-reject voice recognition and signal processing, with applications in mobile computing and mobile communications. Parrot is one of the few companies to develop the Bluetooth Wireless Technology stack, rather than rely on third party code. This ensures that Pioneer’s Bluetooth models have better maintainability throughout their life cycle.

PLAYS WINDOWS MEDIA
Windows Media Audio (WMA) and Windows Media Video (WMV) are music and video compression formats developed by the Microsoft Corporation. They utilise the latest coding technologies to compress original audio and video, minimising the sizes while maintaining good quality.

SD
A Secure Digital (SD) card is a flash memory storage device, available in a range of memory capacities, which can store a wide selection of file formats. Pioneer’s 2010 line-up features units for both audio and video playback from SD.

Tele Atlas Maps
Tele Atlas provides map data for Pioneer’s NavGate units. With one of the most comprehensive map databases in the world, Tele Atlas enables you to find destinations, guides travellers with landmarks and provides accurate data.

Traffic Message Channel (TMC)
Available on Pioneer NavGate units, TMC keeps the driver updated on current traffic events and suggests alternative routes.

USB
Universal Serial Bus (USB) is an external peripheral interface standard for communication between Pioneer units and external peripherals over a connection cable. Pioneer’s 2010 line-up features units for both audio and video playback from USB.

WAV
WAV files are used to store high-quality, uncompressed audio data of CD-quality. This file format requires a huge amount of memory — roughly 10 MB per minute of music. Compressed audio files such as MP3 and WMA require significantly less memory, but reproduce poorer quality sound.

Works With iPhone
“Works with iPhone” means that an electronic accessory has been designed to connect specifically to iPhone and has been certified by the developer to meet Apple performance standards. Units showing this logo allow you to control your iPhone directly from the unit.

FEATURES

3-BAND PARAMETRIC EQUALISER (PEQ)
The 3-band PEQ allows you to adjust the equalisation to match your car’s acoustics. To ease usage even further, 3 equaliser curves are preset: Powerful, Natural, Vocal, Flat, Custom and Super Bass. 3 bands can be adjusted in band-specific steps from +6 to -6, namely EQ-L (low), EQ-M (mid) and EQ-H (high).

7-BAND GRAPHIC EQUALISER (GEO)
With Pioneer’s 7-band GEO, you can customise the equalisation levels to best match the acoustics of your car. To ease usage even further, 7 equaliser curves are preset: Powerful, Natural, Vocal, Flat, Custom 1, Custom 2 and Super Bass. 7 bands (50 Hz, 125 Hz, 315 Hz, 800 Hz, 2 kHz, 5 kHz and 12.5 kHz) can be adjusted in band-specific steps from +6 to -6, or -4, depending on which equaliser curve is selected.

Advanced Sound Retriever (ASR)
Compressed audio such as MP3 may be convenient, but it can result in inferior sound quality. Pioneer’s ASR restores the quality of compressed audio files such as MP3 to the level of the original recording.

Back-up Camera Input
Connect a back-up camera to your unit using the Back-up Camera Input and get a mirror image of the view behind your car on your in-car screen.

Bluetooth Wireless Technology
Units featuring Bluetooth Wireless Technology all come with a built-in Parrot Bluetooth module for Hands-free Telephony. You can easily control your calls straight from your unit and automatically transfer your phone contacts to your Pioneer device. All units come with an external microphone. Our high-end NavGate models also allow music streaming from a Bluetooth-enabled phone or audio device.

Colour Customisation
The Colour Customisation feature allows you to change the button illumination colour of your NavGate System. Use the RGB colour selector to select any colour within the RGB spectrum.
**DIRECT SUBWOOFER DRIVE**  
Direct Subwoofer Drive is an easy solution for lovers of booming bass, which allows you to hook up a subwoofer without the need for an additional amplifier.

**DUAL ZONE**  
Thanks to Dual Zone, rear seat passengers can enjoy entertainment from a DVD, while the front seat passengers listen to music from another source, such as the radio, iPod, iPhone, SD or USB.

**ECO DRIVE**  
ECO Drive assesses your driving and gives you an ECO Score based on how economic you are on the road. Throughout your journey, your ECO Score is regularly updated, helping you adjust your driving to stay as ECO-friendly as possible as you go.

**HIGH PASS FILTER (HPF)/LOW PASS FILTER (LPF)**  
A High Pass Filter is a filter that passes high frequencies well, but attenuates (or reduces) frequencies lower than an adjustable cut-off frequency. For example, when you do not want low sounds to play from the tweeters or mid-range speakers, turn on the HPF on the tweeters’ or mid-range speakers’ channels. Only frequencies higher than the cut-off frequency are outputted from the tweeters or mid-range speakers.

A Low Pass Filter is a filter that passes low frequencies well, but attenuates (or reduces) frequencies higher than an adjustable cut-off frequency. For example, when you do not want high sounds to play from the subwoofer, turn on the LPF on the subwoofer channel. Only frequencies lower than the cut-off frequency are outputted from the subwoofer.

**HIGH-VOLTAGE OUTPUT**  
Pre-outs with High-voltage Output reduce demand on an amplifier’s input circuit, so it can work with lower gain settings, resulting in improved sound quality and a wider dynamic range.

**iPod AND iPhone DIRECT CONTROL**  
IPod and iPhone Direct Control lets you control your iPod or iPhone directly from your Pioneer unit. Connect your iPod or iPhone to the unit using an optional cable and control the device using the unit’s controls.

**microSD CARD SLOT**  
Units with a microSD Card Slot allow playback of audio and, depending on the unit, video files from microSD cards.

**MOSFET 50 W x 4 AMPLIFIER**  
The MOSFET 50 W x 4 Amplifier boosts audio performance levels by using semiconductor technology. Characteristics such as low loss, low audio distortion, eliminated switching distortion and a wide power band combine to give units with these built-in amplifiers 50 W x 4 of sonic clarity, matching the best component amplifiers.

**MULTI-LANGUAGE USER INTERFACE**  
The Multi-language User Interface allows you to change the language for your on-screen display*. Simply choose your preferred language and all information on your screen will be shown in the selected language.

* 18 languages supported

**MusicSphere**  
MusicSphere is a Pioneer software plug-in for iLunes, which uses your iLunes library to automatically create mood-based playlists of your music. These playlists can then be transferred to your iPod or iPhone and played on your NavGate device. MusicSphere analyses and groups the music in your entire iLunes library based on a certain amount of parameters. It can then create playlists based on certain moods you select, such as bright, energetic or gloomy. Once your iPod or iPhone has been connected to your NavGate device, you can access your MusicSphere playlists using the 3D Sphere interface.

**NAVIGATE APPLICATION**  
Available for AVIC-F320BT, AVIC-F3210BT and AVIC-F220, NavGate Application is a free set of downloadable features for your system. The video player allows playback of compressed video (MP4/G.264) from an SD card. The picture viewer allows you to make slideshows of your favorite photographs, with transitional effects between each photo. NavGate Application also contains a range of animated clock designs for your system’s screen.

**NAVIGATE FEEDS**  
Add your own POIs to your map data, extract your mileage data for specific journeys and personalize your system’s start-up screen using the NavGate Feeds PC application. NavGate Feeds is available as a free download from www.pioneer.eu/navgatefeeds

**RADIO DATA SYSTEM (RDS) TUNER**  
RDS attaches additional (digital) information along with FM broadcasts. This information is used by your RDS Tuner for a wide variety of features:

- Alternative Frequency (AF) ensures that you can continue listening to your favourite radio channel without any interruption. When your current frequency is nearly out of reach, the system automatically switches to a frequency with better reception – without you even noticing.
- Programme Identity (PS) Seek will automatically search for a different station with the same programming, if the tuner can’t find a suitable station or reception status becomes bad.
- Traffic Announcement (TA) lets you receive traffic announcements automatically, no matter what source you are listening to. Playback of any source you’re listening to at that moment will be interrupted.
- Programme Type (PTY) allows you to search quickly and easily for radio channels that broadcast within a certain theme, such as News, Weather, Pop, Rock, etc.

**RCA PRE-OUTS**  
RCA Pre-outs enable you to easily expand your sound system. Depending on whether your unit comes with 1 or 3 RCA Pre-outs, you can customise your sound system with separate amplifiers for the front speakers, the rear speakers and/or a subwoofer. The RCA Pre-outs let you create the exact sound you want, with the focus on complete flexibility.

**REAR AUX-IN**  
Units with a Rear Aux-in terminal allow you to connect a range of external devices, such as portable audio and, depending on the unit, video players.

**REAR USB**  
Units with a Rear USB terminal allow you to connect a range of USB sources to enjoy playback of audio and, depending on the unit, video files. All USB devices can be controlled directly from your unit.

**REVOLUTIONARY AV CONTROL**  
NavGate units with our Revolutionary AV Control let you take charge of your music and videos like never before. The intuitive Touch Screen interface includes 3D graphics, Quickline and advanced Slide Touch operation to give you fast and easy control over all sources and AV features.

**SD CARD SLOT**  
Units with an SD Card Slot allow playback of audio and, depending on the unit, video files from SD cards.

**SOURCE LEVEL ADJUSTER**  
The Source Level Adjuster allows you to independently adjust the volume ratio between all of the unit’s sources (using the FM volume level as a reference), so the start-up volume between sources will always be the same.

**STEERING WHEEL REMOTE INPUT**  
If your car features an existing steering wheel remote control, you can connect it to your Pioneer unit and take full control via that remote control*. By using an optional OEM remote control adapter, the unit can be hard-wired directly to the car’s original remote control system via the mini-jack input at the back of the unit. A simple, convenient and safe feature that lets you keep both hands on the wheel.

* Find the correct adapter for your car at www.pioneer.eu

**TOUCH SCREEN**  
WVGA and WVQVGA Touch Screens give you easy control of your NavGate device. Big and bright, these displays give the clearest view of all maps, AV sources and unit functions, and they allow intuitive control over your whole system.

**VIDEO OUTPUTS/AV INPUTS**  
Video Outputs and AV Inputs allow you to connect a range of AV sources, such as a camcorder or games console, to your unit.

**VOICE RECOGNITION**  
The AVIC-F320BT features conversational Voice Recognition. This means you can perform certain navigation, Bluetooth and audio functions by using speech commands**.

* Available in English, French, German, Italian, Spanish and Dutch.