

Service numbers

Germany	(D)	Phone 0180-5 00 02 25	Fax 051 21-49 40 02
Austria	(A)	Phone 01-610 39 0	Fax 01-610 39 391
Belgium	(B)	Phone 02-525 5444	Fax 02-525 5263
Denmark	(DK)	Phone 44-898 360	Fax 44-898 644
Finland	(FIN)	Phone 09-435 991	Fax 09-435 99236
France	(F)	Phone 01-4010 7007	Fax 01-4010 7320
Great Britain	(GB)	Phone 01-89583 8880	Fax 01-89583 8394
Greece	(GR)	Phone 210 94 27 337	Fax 210 94 12 711
Ireland	(IRL)	Phone 01-46 66 700	Fax 01-46 66 706
Italy	(I)	Phone 02-369 62331	Fax 02-369 62464
Luxembourg	(L)	Phone 40 4078	Fax 40 2085
Netherlands	(NL)	Phone 00 31 24 35 91 338	Fax 00 31 24 35 91 336
Norway	(N)	Phone +47 64 87 89 60	Fax +47 64 87 89 02
Portugal	(P)	Phone 2185 00144	Fax 2185 00165
Spain	(E)	Phone 902 52 77 70	Fax 91 410 4078
Sweden	(S)	Phone 08-7501850	Fax 08-7501810
Switzerland	(CH)	Phone 01-8471644	Fax 01-8471650
Czech. Rep.	(CZ)	Phone 02-6130 0446	Fax 02-6130 0514
Hungary	(H)	Phone 76 511 803	Fax 76 511 809
Poland	(PL)	Phone 0800-118922	Fax 022-8771260
Turkey	(TR)	Phone 0212-335 06 71	Fax 0212-346 00 40
USA	(USA)	Phone 800-950-2528	Fax 708-6817188
Brasil (Mercosur)	(BR)	Phone 0800 7045446	Fax +55-19 3745 2773
Malaysia (Asia Pacific)	(MAL)	Phone +604-6382 474	Fax +604-6413 640

Blaupunkt GmbH
P.O.Box
D-31132 Hildesheim
Germany
Hotline +49-180/5 00 02 25
Fax +49-51 21/49 41 54
www.blaupunkt.com

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Car Multimedia
2007|2008

 **BLAUPUNKT**

The advantage in your car.

 **BLAUPUNKT**

The advantage in your car.

SimplyConnect



Take
the short cut.

The multi-media connection:

Blaupunkt invented SimplyConnect, a system that enables you to hook up the new car stereo and navigation systems and the amplifiers with other electronic devices – like MP3/WMA players, USB sticks/flash players or portable hard disks that contain sound files. And as easy as the connection using a USB cable or the Aux input jack is, it's just as convenient to browse through such information as MP3 lists on the display. A hands-free operation system is also part of the package: many of the Blaupunkt radios are now equipped with a wireless Bluetooth connection for your cell phone. And we certainly hope that all these exciting new features won't leave you speechless.

Innovations are nothing new to us.

The advantage in your car was always a great advantage for you as well. Whether it's brilliant sound or first-class entertainment, high-precision navigation systems or digital radio, mobile communications or information: Blaupunkt has been working hard to eliminate boredom in your vehicle for more than 70 years. And we're doing it by using particularly innovative technology and fascinating products. Rest assured: We will continue to make history for you in the future as well.

1932 First car radio. **1952** World's first FM car radio. **1957** First transistor radio. **1969** World's first stereo car radio. **1974** First car radio with traffic message receiver. **1983** First CD player. **1989** World's first mass-produced navigation system for road traffic. **1996** First fully digital radio. **2001** First car radio with "digital recording". **2004** First navigation system with optimal route function. **2005** First car radio navigation system with map zoom and color display. **2006** First amplifier with "Direct Aux input" for external players.



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Don't waste precious time, find what you're looking for fast: The Blaupunkt navigation systems show you the best routes – and some of them even provide you with entertainment along the way. Are you partial to a permanently installed system, one that features a particularly large map display, an attractive entry-level model or is it a compact portable device that you want for the car and on foot that not only looks great but also plays videos, music and displays photos at the touch of a button? Whatever you decide, there's one thing you'll always get: high-precision technology from the inventor of finding your way around, from Blaupunkt. Let us be your guide – to anywhere.

It's better to opt for quality.

Music. Videos. Photos. And every street or road in Europe.



TravelPilot Lucca 5.2

Mobility has made the world smaller. In the same way, the portable navigation devices from Blaupunkt have shrunk in size but in contrast, they have also grown significantly in performance. The new portable Entertainment Navigation Lucca 5.2 shows you the best way to get where you're going in 41 countries in Europe. A precise, convenient navigation function has been combined with entertainment, all in a very elegant design. Listen to your favorite music (MP3/WMA) while you navigate. And the fun doesn't stop there. Use the Picture-Viewer to look at your holiday photos or transform your Lucca 5.2 into a drive-in theater. Use the video function to play your video films or connect your video player via the Connect Cradle. In addition, the Connect Cradle also lets you connect a back-up camera, a gaming console or a DVB-T tuner. So you can see, the TravelPilot Lucca 5.2 really is more than just a portable navigation system.

To make operation particularly easy and convenient, use the touch screen to access a maximum of 3 menu levels or move the sensitive slider to activate the function you need. Thieves, on the other hand, have a real problem on their hands. A 4-digit PIN code doesn't give crooks much of a chance. And to make sure that you never get bogged down in traffic along the way, the device uses the integrated Traffic Message Channel (TMC) to immediately include traffic messages and warnings of congestion in route calculation. Dare to go where you have never gone before with the TravelPilot Lucca 5.2.

- Quick, easy mounting – just install it and go
- Portable navigation with a low-reflection, high-contrast 4" TFT touch-screen color display in 16:9 format
- Quick navigation thanks to the GPS QuickFinder and the 300 MHz Atlas 2 Dual Core processor
- Dynamic, highly precise navigation in 41 European countries. 35 countries are already pre-installed on 2 GB for the northern European variant along with 36 countries on the southern European variant; both European variants with a total of 41 European countries are also included on DVD
- Integrated TMC receiver for dynamic navigation
- 2 GB internal memory
- High-powered rechargeable battery, up to 5 hours of operating time
- Entertainment navigation with audio/video/photo features
- See and hear WMV video via SD Card



- Listen to MP3/WMA music via MMC/SD card and navigate at the same time. Show JPEG image files in slide shows.
- Optimum connectivity: USB 2.0, MMC/SD card reader and Connect Cradle
- For the connection of:
 - Video players
 - Back-up cameras
 - Gaming consoles
- Playback driving recommendations and MP3/WMA music from SD/MCC cards using either the in-vehicle or integrated speakers
- A DVB-T tuner for mobile TV reception
- Innovative slider function for volume/zoom/scroll
- 4-digit PIN code for theft protection
- Warning of permanently enforced speed limits
- Includes MERIAN scout travel guide, with 120,000 recommendations, information and tourist attractions – in addition to the 2 million regular points of interest, such as filling stations, rest stops, hotels, airports, train stations, etc.
- Destination input with postal codes and route guidance to the door
- Route calculation selectable according to profiles; route (with/without highway, toll roads or ferries), car (quick, normal, slow), truck, pedestrian
- Route planning with multiple stopovers
- "Go-home" function from any location
- Display of traffic sign information with speed limit warning
- POI INFO-enabled
- Headphone connection
- Demo for route planning/simulation

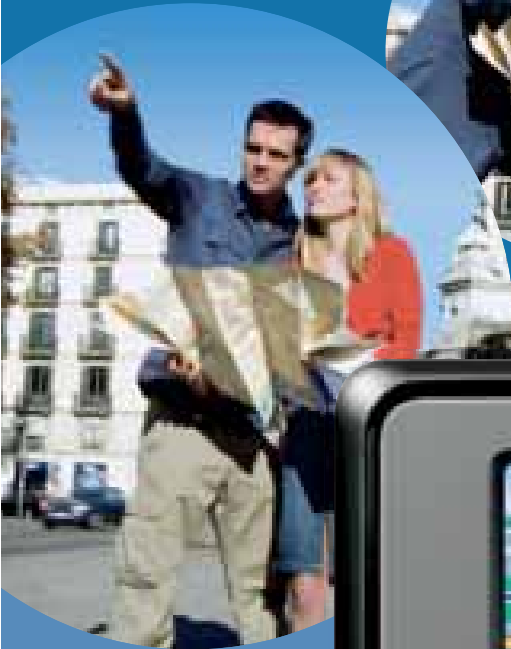
What's included: Connect Cradle, suction-cup holder, recharger, recharger cable for the cigarette lighter, USB cable, TMC antenna, DVD with 41 European countries, operating manual



Your drive-in movie: The 5.2 lets you play your videos from SD/MMC cards.



Just the tip of your finger: The highly sensitive slider function lets you control volume/zoom/scroll.



TravelPilot Lucca 3.4

M2
TravelPilot

TMC
integrated

SD
MP3
WMA

Compact in size, but great performance guaranteed: The Lucca 3.4 takes you to your selected destination with reliability and high precision to anywhere in 21 countries in Western Europe. And traffic jams will not get in your way because the device has also been equipped with the Traffic Message Channel (TMC). It automatically receives traffic information and takes this information into account in calculating the optimum route. And that means that there is nothing more to stand in the way of a relaxing trip.

- Quick, easy mounting – just install it and go
- Precise, quick navigation thanks to an integrated GPS receiver
- Portable navigation with a low-reflection, high-contrast 3.5" TFT touch-screen color display in 4:3 format
- Germany, Austria, Switzerland and Liechtenstein pre-installed and 21 countries in Western Europe included on DVD
- Integrated TMC receiver for dynamic navigation
- Quick navigation thanks to the GPS QuickFinder and the 300 MHz Atlas 2 Dual Core processor

- SD/MMC card reader to play MP3/WMA music, display of JPEG picture files and use of additional maps
- Listen to MP3/WMA music or look at photos and navigate at the same time
- 512 MB internal memory and USB 2.0 jack
- Battery life of up to 3 h in navigation mode
- 2-D and 3-D map display
- Integrated speakers and GPS antenna
- Display of traffic sign information with speed limit warnings
- Route planning with several stopovers
- POI INFO-enabled
- Special destinations such as filling stations, rest stops, hotels, airports, train stations, etc.
- Headphone jack
- Unique HMI concept for easiest operation
- Postal code and house-number exact navigation
- Demo for route planning/simulation

Comes included with: suction-cup holder, recharger cable for the cigarette lighter, 21 countries in Western Europe on DVD, operating manual



Easy menu prompting starts with the Start screen.



The PictureViewer shows you your favorite photos.



All your top hits in the music player.



TravelPilot Lucca 3.3

Identical with TravelPilot Lucca 3.4 – without TMC.

Holders for ventilation grille

Use these holders to integrate the TravelPilot Lucca and the TravelPilot Lucca MP3 perfectly into your vehicle. The holders are mounted on the ventilation grille on the dashboard directly within the driver's range of vision.

- Specially developed for the TravelPilot Lucca series
- The navigation system moves closer to within the driver's range of vision
- The driver's range of vision is not obstructed and the navigation system display is easier to read



Second-Car Kit

Would you like to use your TravelPilot Lucca and the TravelPilot Lucca MP3 in different vehicles? Then all you need is the Second-Car Kit, which can be installed quickly and easily on the front window of any vehicle with the swivel-foot, suction-cup base.

- Specially developed for the TravelPilot Lucca series (for the TravelPilot Lucca 5.2 incl. the TMC antenna)
- Can be used in different vehicles
- Quick and easy to attach to the front windshields of many different vehicles
- Sturdy holder
- Reduces vibration
- Easy-to-read information on the screen
- Power supply via the cigarette lighter
- Fixed installation of the device provides additional driving safety



USB cable

For the shortest network in the world: Use the USB cable to connect the Lucca to your PC and you can do all your route planning conveniently from your desk.



Smart Cables

If you want to pump up the volume, the Smart Cable with an ISO plug connects the TravelPilot Lucca 5.2 with a Blaupunkt car radio (after-market models). The Smart Cable with free cable ends (i.e. without the plug, see illustration) connects other makes or OEM models with the corresponding connection options (Aux input, telephone mute and telephone line-in). Then you can hear the navigation voice as well as the MP3 files stored on the Travel Pilot Lucca 5.2 over the vehicle speakers.



Power supply for the TravelPilot Lucca 3.3, 3.4

Charged to the hilt: If you want to recharge the TravelPilot Lucca's batteries at home, just plug it in and the recharging cable will supply it with all the power you'll need.

GPS antenna

For signals from outer space: The GPS antenna increases the reception performance of the TravelPilot Lucca (available for the TravelPilot Lucca, TravelPilot Lucca MP3 and TravelPilot Lucca 5.2) in cars with tinted windows. The antenna can be easily mounted on the inside or out – it's glued.



RC 09, RC 10H remote control unit

The remote controls for the TravelPilot Lucca, TravelPilot Lucca MP3 and TravelPilot Lucca 5.2 navigation systems support the navigation and radio functions of your Blaupunkt car radio (after-market radio) and – thanks to excellent ergonomics – prevent any distraction, even when it gets dark.

- Ergonomic design
- Control of all the important functions of the car hi-fi system as well as the basic functions of your navigation system
- Infrared steering-wheel or handheld remote control unit



Travel bag

Provides optimum transport protection for the TravelPilot Lucca including such accessories as the operating manual, power pack, holder, etc.



Outdoor carry case

The multifunctional outdoor carry case lets you take the TravelPilot Lucca with you along with such accessories as an SD card.

- Form-fitted
- Secure protection
- High-quality and robust
- In leather or leather-look
- With magnet fastening or zipper
- Integrated pocket for SD card
- Belt loop
- With an opening for the headphones (available for the leather case only)





TravelPilot Rome Europe NAV 56E

The TravelPilot Rome Europe NAV 56E is the perfect combination of a highly efficient navigation system with a top end car radio. The Rome's extremely high quality, color TFT display boasts a split screen with permanent street level mapping as well as clear arrow symbols. Precise spoken instructions are played through the vehicle's sound system at a volume level to suit your needs. In addition, you can listen to MP3s, WMAs or your favorite CD while navigating due to an integrated memory corridor. Simply enter the destination and the system will remember the route allowing the navigation CD to be swapped for a music one. Even if you deviate from your route, the navigation system will still be able to guide you to your destination. The unit does not require a speed pulse connection and can therefore be installed quickly and easily, saving both time and installation costs. If you are looking for both a high-end navigation system as well as a premium car radio then the Rome Europe NAV 56E is the perfect solution! Features such as a digital, 5 band equaliser and first class tuner reception with DigiCeiver Technology ensure great sound quality in your car. It's also possible to listen to your favorite MP3/WMA tracks while you navigate. The Rome sports a high-resolution, color TFT display making it easy to browse through tracks while listening to your chosen title.



New: Permanent map display including arrow (selectable)



Route information such as arrival time, distance, etc.



High quality, color TFT display clearly showing the station name



Powerful display of bass settings



- TFT color display with permanent map display
- Easy operation with optimal menu prompting
- European navigation with 10 full-coverage navigation CD-ROMs
- Display of POIs along the highway
- Display of traffic sign information
- Programmable speed profile for exact arrival time
- Optimal route guidance: "optimal route" configurable
- TMC warning even without active guidance
- Dynamic route guidance even on main national roads
- Quick destination entry via postal code, route guidance directly to house number
- Easy installation: Navigation even without speed-signal connection (switchable)
- Listen to MP3s/WMAs or audio CDs and navigate at the same time thanks to the corridor function (64 MB) for an optimum corridor
- Navigation even without speed pulse connection (switchable)
- First-class tuner reception (DigiCeiver technology)
- Car hi-fi sound functions
- iPod-ready: iPod connection via optional interface
- Bluetooth-ready: MP3 audio streaming from Bluetooth cell phone to the car radio and an optional interface for hands-free telephone operation via the car radio system



TravelPilot Amsterdam NAV 35E

To get you from Point A to Point B quickly and reliably, we have packed all of our knowledge from A to Z into the TravelPilot Amsterdam NAV 35E. Choose between the shortest and the fastest route, or combine both for the optimal route. Receive current traffic information via TMC, which is automatically taken into consideration when computing routes. The switchable speed-signal connection ensures even greater accuracy. This is just the thing for those who have the same standards with regard to precision as they do when it comes to design.



- Easy installation: Navigation even without speed-signal connection (switchable)
- Listen to MP3s/WMAs or audio CDs and navigate at the same time thanks to the corridor function for an optimum corridor
- Simple, fast destination entry according to postal code
- Door-to-door navigation
- Optimal route guidance: "optimal route" configurable
- Dynamic route guidance even on main national roads
- Car hi-fi radio with above-average sound functions
- Pan-European navigation with one CD-ROM
- Display color/button illumination available in white/white, blue/red and white/red
- iPod-ready: Connection for iPod interface
- Bluetooth-ready: MP3 audio streaming from Bluetooth cell phone to the car radio and an optional interface for hands-free telephone operation via the car radio system

Any more precise and it would have to be called electronic parking assistance.



TravelPilot EX-V

The TravelPilot EX-V uses easy-to-understand screen menus to take you quickly and directly to your destination to make sure that easy operation and great convenience are not a contradiction in terms. It's just what we do. The TravelPilot EX-V easily meets these demands because there is hardly another DVD navigation system that has such an attractive range of features to boast. The digital map of Europe, extremely quick route calculation, traffic congestion avoidance (optional), acoustic traffic jam warning – in other words: high-end navigation.

- Precise route guidance based on GPS, the speed signal and the gyro – reliable route guidance even without the GPS signal, e.g. in tunnels, in forested areas, etc.
- Seamless, borderless navigation in 25 European countries
- Faster route calculation thanks to modern computer technology
- “Quick”, “short” or “optimal” route (a combination of the quick and the short route)



- Dynamic route guidance even on main national roads
- Acoustic traffic jam warning, e.g. “Warning: Traffic jam in 2 km”
- Error-tolerant destination input – also offers similar-sounding names
- Speed warning – a warning signal sounds when you exceed the maximum speed limit
- Quick and easy destination input via postal code, letters or a combination of the two. The input function automatically limits the entry to the possible results
- Navigation with several stopover destinations possible
- Destination information with additional note on which side of the street the destination is on
- Infrared hand remote control



M1
TravelPilot

M2
TravelPilot

M-Navigation

You don't have to know exactly where every place is. Thanks to the new map material, the TravelPilot Lucca can get you anywhere. M-Navigation is a package of 41 countries – the DVD for all of Europe. It is fully compatible with all portable Blaupunkt navigation devices.

Detailed road network in:

- Andorra, Austria, Belgium, Czech Republic, Denmark, Finland, France, Greece, Germany, Great Britain, Hungary, Ireland, Italy, Liechtenstein, Luxemburg, Monaco, Netherlands, Norway, Poland, Portugal, San Marino, Slovakia, Spain, Sweden, Switzerland, Turkey, Vatican.

Main connecting roads in:

- Albania, Belarus, Bosnia and Herzegovina, Bulgaria, Croatia, Estonia, Latvia, Lithuania, Macedonia, Moldavia, Rumania, Serbia and Montenegro, Slovenia, Ukraine.

In addition, selected points of interest from MERIAN scout. Totaling: Close to 250,000 restaurants, more than 130,000 hotels, more than 7,000 tourist attractions as well as, close to 90,000 filling stations, 600 airports, more than 7,000 highway rest stops.



DX
TravelPilot

DX-CD

Features based on the Germany CD:

- Detailed road network of Germany
- Dynamic navigation in Belgium, Denmark, Germany, Austria, France, Italy, the Netherlands, Norway, Finland, Sweden, Switzerland, Spain and the Czech Republic (on highways and main national roads)
- Destination input in Germany via postal code (complete coverage in Germany)
- More than 650,000 addresses like airports, highways, borders, city centers, filling stations, fast-food restaurants and much more
- Compatible with the TravelPilot DX navigation systems



E
TravelPilot

E-CD

Features based on the Germany CD:

- Detailed road network of Germany
- Navigation throughout Europe with main connecting roads in: France, Belgium, the Netherlands, Luxemburg, Italy, Great Britain, Ireland, Austria, Switzerland, Portugal, Spain, Norway, Sweden, Denmark, Finland, Andorra, Liechtenstein, San Marino, Vatican City, Monaco, Poland, Hungary, Slovakia and the Czech Republic
- Dynamic navigation in Belgium, Denmark, Germany, Austria, France, Italy, the Netherlands, Norway, Finland, Sweden, Switzerland, Spain and the Czech Republic (on highways and main national roads)
- Destination input in Germany via postal code (complete coverage in Germany)
- More than 650,000 addresses like airports, highways, borders, city centers, filling stations, fast-food restaurants and much more
- Compatible with the TravelPilot E1, TravelPilot E2, TravelPilot E Freestyler, TravelPilot Exact, TravelPilot Exact MP3, TravelPilot Rome NAV 55E, TravelPilot Rome Europe NAV 56E, TravelPilot Amsterdam NAV 35E



DX
TravelPilot

TravelGuide DX-CD

DX TravelGuide CDs with the travel-guide function:

- De Agostini: Italy
- MERIAN scout: Alps, Germany
- Repsol: Spain/Portugal
- Compatible with the TravelPilot DX navigation systems

TravelGuide info on:

Hotels, restaurants, filling stations, tourist attractions, parking, camping, banks, hospitals, distance indication, credit card acceptance, operas, museums, bars, post offices, police stations, airports, concert halls, tennis courts, amusement parks, trade-show venues

Navigation software is also available for many other countries on CD or DVD.

To be honest, they should really be called sound stations: The new radios from Blaupunkt can do almost anything – except compose, that is. Do you want to take your digital music collection into your car or use your cell phone in combination with the stereo system? Then just plug in your MP3/WMA player, a portable hard disk or your cell phone. Brilliant sound, highest quality and elegant design are always part of the picture. Many of the radios have also been equipped with a particularly large display with exclusive looks and excellent design in terms of operation and title browsing. There's a model to suit every taste. And we still call that selection, even though customization might be the better way to describe it.



An instrument
for all sounds.

Your eyes will envy your ears.



Bremen MP76



This is what tuning looks like: With the Bremen MP76 you can transform your car into a concert stage on wheels. This radio has been designed to meet the most demanding needs in terms of sound and tuner performance. The undisputed Number One for individualists.

All the components work in perfect harmony: The digital TwinCeiver equipped with two receivers delivers brilliant radio reception while the self-adjusting equalizer (DSAmix) provides for richly detailed, differentiated and harmonious sound. It works with four channels and 108 bands and adjusts itself automatically to the acoustic conditions in your vehicle. The sound characteristics are rounded out perfectly by the adjustable, active 2-way frequency crossover for flexible, high-precision speaker control. Is that a delight to your ears? "autoHifi", a German trade magazine, says Yes. In their test, the Bremen car radio reached the reference category.

If you don't want to only see brilliance but hear it as well, just take a look at the high-resolution fully graphical display: VarioColour lights up in virtually any color and really shows off with multiple-line browsing through the MP3 lists. Regardless of whether the music comes from a CD or an SD/MMC card. Bremen MP76 also displays real class with its many convenient features – take the TIM traffic info memory, for example: It records traffic messages with a timer so that you always know exactly what's going on on the road. Get to know the Bremen MP76 and you'll be able to tell: It can do anything – and leaves nothing more to be desired.

- MP3 playback from CD-R/RW, SD/MMC
- Digital TwinCeiver with the "virtual DDA" (Digital Directional Antenna)
- Integrated SD/MMC card slot to play MP3 files
- Digital Sound Adjustment (DSAmix): Digital self-adjusting equalizer with 108 bands, variable signal time alignment and DNC (Dynamic Noise Covering)
- Adjustable, active 2-way frequency crossover for flexible, highly precise control of the speakers connected
- Variable Sub-Out and Center-Out, adjustable high-pass filter
- Fully graphical display with four gray scales
- 4,096 display colors with optional color matching to the instrument cluster (VarioColour)
- Keypad illumination available in 16 shades from red to green
- Traffic Information Memory (TIM)
- Power-driven, removable front panel
- iPod-ready: iPod connection with optional interface
- Bluetooth-ready: MP3 audio streaming from Bluetooth cell phone to the car radio and an optional interface for hands-free telephone operation via the car radio system



Memphis MP66



The seduction of sound: At the touch of a single button, the Memphis MP66 is able to transform any trip into a pleasure ride. Its high-resolution TFT color display makes operation particularly easy. Along with the tasteful but effective use of light and colors. A delight for your senses – each and every time you use the Memphis. Music selection using MP3 browsing and the opportunity to customize the display with Picture Upload are unparalleled.

Unique details provide for perfect sound: Among other things, the digital 6-band equalizer, which uses the optional microphone to automatically adjust the sound system to the in-vehicle acoustics at the touch of a button, and DigiCeiver technology produce first-class tuner reception. Now all you need is music. And the Memphis MP66 is more than willing to accept all types of different media. You can connect virtually all portable audio sources with the radio. Use the USB jack with the enclosed cable to connect a USB stick, an MP3 player or a mobile hard disk. For such players as the Apple iPod, there are also two Aux input jacks, and if you have stored your tunes on SD cards, you'll find the slot you need. The Memphis MP66 will not only make any trip a real pleasure – it will even take you directly to your destination.

- MP3/WMA playback from CD-R/RW, USB, SD/MMC
- Top-class tuner reception (DigiCeiver technology)
- High-resolution color display (TFT) with full graphics (to display such complex information as MP3 play lists)
- Customization using Picture Upload (via USB stick or SD card)
- Integrated USB interface to connect and control external mass storage media
- Integrated SD/MMC card slot
- Two Aux input jacks for external music sources (e.g. MP3 players)
- Digital, fully parametric and self-adjusting 6-band equalizer for optimal sound adjustment to vehicle acoustics (DEQmaxEX)
- 4 x 50 watts of max. power
- 4-channel preamp out to control external amplifiers (front/rear)
- Sub-out for subwoofer control (variable level/frequency)
- Automatic, speed-dependent control of the radio volume (GALA)
- Power-driven, removable front panel
- iPod-ready: iPod connection with optional interface
- Bluetooth-ready: MP3 audio streaming from Bluetooth cell phone to the car radio and an optional interface for hands-free telephone operation via the car radio system





Seattle MP57



No matter where the tunes are playing, they had better come out of the Seattle MP57 – a browsing machine equipped with outstanding display technology and in exclusive front design. The generously-sized, high-resolution TFT display takes discreet but impressive advantage of all the options of a color display. Never before has the simple selection of an MP3 song from a CD generated so much anticipation of the results. Thanks to the Plug 'n' Play principle, MP3/WMA players can also be docked into the front Aux input – it doesn't get much quicker and easier than that. And the Seattle MP57 inner values are convincing proof that it is cut out for more. Equipped with a 3-band equalizer, 4-channel Preamp-Out and subwoofer output, it's just waiting to be upgraded to a full-fledged sound system.

- MP3/WMA playback from CD-R/RW
- FM, MW, LW
- High-resolution color display (TFT) with full graphics (to display such complex information as MP3 play lists)
- Customization using Picture Upload (via CD)
- Front Aux input for external music sources (e.g. MP3 players)
- 3-band equalizer
- 4-channel preamp out to control external amplifiers (front/rear)
- Sub-out for subwoofer control (variable level/frequency)
- 4 x 45 watts of max. power
- Flip Release Panel
- Pre-equipped for telephone/navigation voice output
- iPod-ready: iPod connection with optional interface
- Bluetooth-ready: MP3 audio streaming from Bluetooth cell phone to the car radio and an optional interface for hands-free telephone operation via the car radio system



Casablanca MP56



Elegance like you've rarely seen before. The Casablanca MP56 is a real beauty right at first glance. And when you take a second look, you'll see it's a master of clear-cut design and technical perfection. The high-resolution fully graphical display lets you keep perfect track of all the settings and use the MP3 play lists on a display of up to 4 lines, which makes selecting your music tracks a real pleasure. At the same time, you can adjust the brightness of the display and take advantage of VarioColour with 4,096 colors to create your own customized look on the dashboard – let your taste be your guide. The system is also highly flexible in accommodating the connection of a wide variety of portable audio sources. Use the USB interface and enclosed cable to connect USB sticks, MP3 players or portable hard disks. There are also two Aux input jacks for the connection of such external audio sources as your Apple iPod. And if you've brought your sound files along with you on SD cards, you'll also find the corresponding card slot.

The digital 6-band equalizer delivers top-quality sound. At the touch of a button, you can use the optionally available microphone to adjust the sound to the in-vehicle acoustics. DigiCeiver technology provides for brilliant tuner reception and sound. And if you like, the Casablanca MP56 also has some friendly words to warm your heart: After pressing just a few buttons, you can program your own customized greeting or good-bye text. There is only one word for this and all the other features: Impressive!

- MP3/WMA playback from CD-R/RW, USB, SD/MMC
- Top-class tuner reception (DigiCeiver technology)
- Fully graphical display with four gray scales
- 4,096 display colors with optional color matching to the instrument cluster (VarioColour)
- Integrated USB interface to connect and control external mass storage media
- Integrated SD/MMC card slot
- Two Aux input jacks for external music sources (e.g. MP3 players)
- Digital, fully parametric and self-adjusting 6-band equalizer for optimal sound adjustment to vehicle acoustics (DEQmaxEX)
- 4 x 50 watts of max. power
- 4-channel preamp out to control external amplifiers (front/rear)
- Sub-out for subwoofer control (variable level/frequency)
- Automatic, speed-dependent control of the radio volume (GALA)
- Power-driven, removable front panel
- iPod-ready: iPod connection with optional interface
- Bluetooth-ready: MP3 audio streaming from Bluetooth cell phone to the car radio and an optional interface for hands-free telephone operation via the car radio system



Offers a broad spectrum of colors: the VarioColour display with 4,096 colors.

Almost as many connection options as you have MP3s.



Hamburg MP57



This is where you can dock any sound: The Hamburg MP57 is a convenient docking station for multiple devices – cell phones, MP3 players, external audio sources and comprehensive sound systems. If you want to conveniently use your phone while you're on the road, simply connect your cell phone with the Bluetooth module integrated into the Hamburg. Use the radio to answer and end calls directly with no cables and the best voice quality with hands-free operation.

Whether it's the latest addition to your CD collection or your own compilation: The Hamburg MP57 delivers you the finest in sound quality – from virtually any medium. Plug 'n' Play lets you hook up portable audio media in a breeze (via USB and front Aux input). MP browsing (from CD or USB) is just as convenient on the large, clearly designed fully graphical display with three lines. And if you enjoy your music at maximum volume, simply add an amplifier or subwoofer to the system. All the connections you need are already there. The Hamburg always sounds good.

- MP3/WMA playback from CD-R/RW, USB
- FM, MW, LW
- Fully graphical display with convenient, 3-line MP3 browsing
- Bluetooth integrated for hands-free car phone operation and call answer/end via the car radio system
- Integrated USB interface to connect and control external mass storage media
- Front Aux input for external music sources (e.g. MP3 players)
- 3-band equalizer
- 4-channel preamp out to control external amplifiers (front/rear)
- Sub-out for subwoofer control (variable level/frequency)
- 4 x 45 watts of max. power
- Flip Release Panel
- Pre-equipped for navigation voice output
- iPod-ready: iPod connection with optional interface



Kingston MP47



The system for the New World: The Kingston MP47 is much more than just a simple car radio. It's a multimedia station whose front design is just as perfect as the design of its functions. Simply plug the enclosed USB cable into the interface and connect it with a USB Flash Player, a USB stick or a portable hard disk. Within seconds, the display – which has VarioColour, by the way, and can be fully customized to match or contrast your instrument cluster illumination in 4,096 shades of color – will indicate that the new connection is active. Your index finger is now the DJ: All you need to do is touch a button and you're ready to rock. Use the front Aux input jack to connect up any other audio sources. Whatever you choose, there is always one thing you'll get: Brilliant sound. Optional accessories make it just as easy for you to connect your cell phone with the radio – via Bluetooth. And with the 3-band equalizer, 4-channel Preamp-Out and the subwoofer output, the Kingston MP47 catapults your demands on sound quality into a new dimension.

- MP3/WMA playback from CD-R/RW, USB
- FM, MW, LW
- 4,096 display colors with optional color matching to the instrument cluster (VarioColour)
- Integrated USB interface to connect and control external mass storage media
- Front Aux input for external music sources (e.g. MP3 players)
- 3-band equalizer
- 4-channel preamp out to control external amplifiers (front/rear)
- Sub-out for subwoofer control (variable level/frequency)
- 4 x 45 watts of max. power
- Flip Release Panel
- Pre-equipped for telephone/navigation voice output
- iPod-ready: iPod connection with optional interface
- Bluetooth-ready: MP3 audio streaming from Bluetooth cell phone to the car radio and an optional interface for hands-free telephone operation via the car radio system



Offers a broad spectrum of colors: the VarioColour display with 4,096 colors.



Nashville DAB35

CDs revolutionized the art of listening more than 20 years ago: For the first time, there were no more scratches or crackling to interfere with your enjoyment of music – thanks to digital technology. With the Nashville DAB35 digital radio, Blaupunkt has also put radio programs on wheels in highest quality. That's what DAB technology was developed to do. With outstanding reception and excellent equalizing, you'll hear everything just the way the radio station sends it. And if you want, you can store your favorite tune playing on the radio onto an SD card at the touch of a button and play it back again any time – and that's in CD quality, too.



- MP2/MP3 playback from CD-R/RW, SD/MMC
- DAB Digital Radio
- Manual and automatic digital recorder with a dynamic buffer; delayed recording from DAB onto SD/MMC
- Two independent recording timers
- Preselect option for weather, news, traffic info
- First-class tuner reception (DigiCeiver technology)
- Clear presentation of display contents on two-line DOT display
- Digital, fully parametric 5-band equalizer (DEQmax)
- TMC data output for FM and DAB for dynamic navigation
- Sub-Out, two Aux input inputs and 4-channel Preamp-Out
- 4 x 50 watts of max. power
- Flip Release Panel
- Pre-equipped for telephone/navigation voice output
- iPod-ready: iPod connection with optional interface
- Bluetooth-ready: MP3 audio streaming from Bluetooth cell phone to the car radio and an optional interface for hands-free telephone operation via the car radio system



Las Vegas DVD35

A multimedia package in a compact unit: The Las Vegas DVD35 DVD radio processes all the popular formats (DVD, MP3/WMA, GigaMP3, CD) and transforms them into powerful sound and high-contrast images (with an optional monitor). Multiple connection options from CD changer to iPod interface and right on up to many different monitors provide for top-class In Car Entertainment – that you can add to and customize at any time. The Las Vegas DVD35 is the ideal central component in your own in-car cinema system.



- MP3/WMA playback from DVD: more than 1000 music tracks on a single DVD (at 128 kbps)
- Playback from DVD+/R, DVD+/RW, SVCD, VCD, C-R/RW
- First-class tuner reception (DigiCeiver technology)
- Clear presentation of display contents on two-line DOT display
- Digital, fully parametric 5-band equalizer (DEQmax)
- Connection option for external monitors via Video-Output
- TMC data output for dynamic navigation
- Sub-Out, two Aux input inputs and 4-channel Preamp-Out
- 4 x 50 watts of max. power
- Flip Release Panel
- Pre-equipped for telephone/navigation voice output
- Infrared hand remote control
- iPod-ready: iPod connection with optional interface
- Bluetooth-ready: MP3 audio streaming from Bluetooth cell phone to the car radio and an optional interface for hands-free telephone operation via the car radio system

You can already listen to the sound of the future.



London MP37

Customization makes it truly unique: Once you've made a few basic settings to get the London MP37 up to your speed, it will be remarkable. On the one hand, you can use VarioColour in 4,096 shades to match or contrast the display to your instrument cluster illumination. And on the other, you can easily connect any external audio sources, such as an MP3/WMA player, via the Aux input jack on the front panel. The principle is known as Plug 'n' Play so that you can immediately listen to your favorite tunes in highest sound quality. And if you're into great volume or impressive bass, the London MP37 is also ready to go. It has been equipped with interfaces for external amplifiers and a subwoofer. You'll hear the difference: Sound performance tuned to your taste – all you need to do is to pick the right tunes.

Offers a broad spectrum of colors: the VarioColour display with 4,096 colors.



- MP3/WMA playback from CD-R/RW
- FM, MW, LW
- 4,096 display colors with optional color matching to the instrument cluster (VarioColour)
- Front Aux input for external music sources (e. g. MP3 players)
- 3-band equalizer
- 4-channel preamp out to control external amplifiers (front/rear)
- Sub-out for subwoofer control (variable level/frequency)
- 4 x 45 watts of max. power
- Flip Release Panel
- Pre-equipped for telephone/navigation voice output
- iPod-ready: iPod connection with optional interface
- Bluetooth-ready: MP3 audio streaming from Bluetooth cell phone to the car radio and an optional interface for hands-free telephone operation via the car radio system



Melbourne SD27

The future is virtual. And the Melbourne SD27 is already prepared today for what the future has in store tomorrow. Simple Plug 'n' Play is the measure of all things in the age of digital sound media. MP3/WMA players can be connected to the radio quickly and easily via the Aux input on the front panel. It's just as easy to play tracks from SD/MMC cards – the built-in card reader makes it possible. And the high-quality design promises even more: The Melbourne SD27 is equipped Bluetooth-ready for the wireless hands-free operation of your cell phone and even audio streaming – impressive properties that eliminate the need for a CD drive and any inconvenient juggling with your CD collection. You won't miss it.



- MP3/WMA playback from SD/MMC
- FM, MW, LW
- Front Aux input for external music sources (e. g. MP3 players)
- 4-channel preamp out to control external amplifiers (front/rear)
- Detachable Release Panel (theft protection)
- Pre-equipped for telephone/navigation voice output
- iPod-ready: iPod connection with optional interface
- Bluetooth-ready: MP3 audio streaming from Bluetooth cell phone to the car radio and an optional interface for hands-free telephone operation via the car radio system



Amber: Sydney SD27



Green: Canberra SD27



Brighton MP27

Uncomplicated things enrich your life. Just like the Brighton MP27. It is the best choice for anyone who uses the new sound media along with their existing CD collections. And unwilling to accept compromises with respect to sound quality. It's easy to connect an external audio source – e.g. an MP3/WMA player – with the radio via the Aux Input interface. Whether you want to play conventional CDs or ones you've burned yourself with MP3 files, simply slip them into the CD drive. With clear-cut menu prompting, self-explanatory functions and brilliant sound quality, the Brighton MP27 is a modern classic. And that will continue to delight you in the future as well.

- MP3/WMA playback from CD-R/RW
- FM, MW, LW
- Aux input for external music sources (e.g. MP3 players)
- 4-channel preamp out to control external amplifiers (front/rear)
- 4 x 45 watts of max. power
- Detachable Release Panel (theft protection)
- iPod-ready: iPod connection with optional interface



San Remo MP26

Are you looking for good quality at an affordable price? Then the San Remo MP26 is exactly what you're looking for. Equipped with a range of well-designed features, like iPod-ready, stable radio station reception, the easily detachable Release Panel (theft protection) and easy operation, choosing the San Remo MP26 makes excellent sense. No extraneous elements, but lots of modern design and recognized Blaupunkt quality. All in all: More performance for less money.

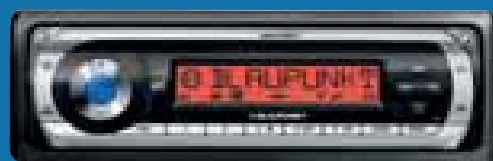
- MP3/WMA playback from CD-R/RW
- FM, MW, LW
- 4 x 45 watts of max. power
- Sound presets (Rock, Pop, classical)
- 4-channel preamp out to control external amplifiers (front/rear)
- Aux input connection for external music sources (e.g. MP3 players)
- Detachable Release Panel (theft protection)
- iPod-ready: iPod connection with optional interface



White: San Diego MP27



Green: Ravenna MP27



Red: Rimini MP27



Porto CD27

If what you need is something basic: then the Porto CD27 is for you. It's a CD radio in the highest quality you are accustomed to from Blaupunkt. In addition to easy operation, this technology has one top priority: brilliant music enjoyment. Regardless of whether you are listening to the radio, your CDs or your MP3 player, for example. You can also connect external audio sources to the Porto CD27 in no time at all – that's what the Aux input jack is there for. And if you're really into sound that just won't stop, you can also connect an external amplifier. The output you need is already there. Make it simple. Simply relaxing.

- Playback from CD-R/RW
- FM, MW, LW
- Aux input connection for external music sources (e.g. MP3 players)
- 4-channel preamp out to control external amplifiers (front/rear)
- 4 x 45 watts of max. power
- Detachable Release Panel (theft protection)
- iPod-ready: iPod connection with optional interface



Green: Madeira CD27



The bass makes the music; you'll really feel it. The Blaupunkt sound systems put rich sound into any vehicle. All the components are matched with one another – designed to deliver maximum performance. The amplifiers operate like turbochargers, the subwoofers like racing engines, and you are the sound pilot sitting in the cockpit. This is where listening pleasure, driving fun and fascinating design all come together. And if the party goes on after you get out, Blaupunkt also has an active subwoofer you can take along with you. After all, there's always a reason to want good bass anywhere.

Good sound always comes from the street. You can bring it back.

They work best under pressure: The Velocity Series.

You'll feel what sound can really do – from the lowest octave to the highest treble. The speakers in the Velocity series are sound machines. They will rock your ride – by producing some of the most powerful sound you've ever heard. They reproduce the entire frequency spectrum with high dynamics and absolute precision. Without compromising sound pressure levels. Hearing is believing.

- Optimized for highest load handling capacity and maximum sound pressure levels
- Particularly stable fiberglass cones
- Solid aluminum die-cast baskets for the Vw subwoofers
- Large dual voice coils for all subwoofers
- Steep frequency crossovers for the Vc systems with selected components
- Designer covers included in package (except Vw woofers)



Vw 300

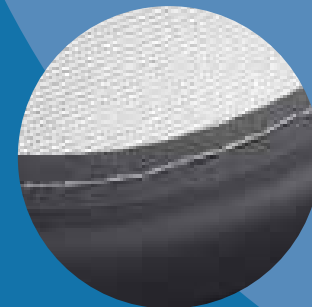
For absolute bass control: The subwoofers in the Velocity series will really get you moving. On any trip. Sturdy cones, solid die-cast aluminum baskets and powerful dual voice coils create maximum sound pressure levels. If you want to lower your bass levels, then these are the woofers for your perfect tuning.

- 2250W
- 300 mm
- 142 mm
- 2 x 2 Ω
- 93 dB/SPL

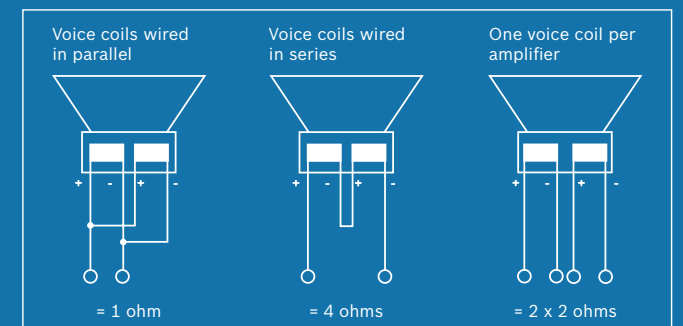


Vb 300

43 liters of bass: Thanks to solid bass-reflex enclosures made of MDF, the Vb 300 always delivers full sound and high pressure.



Together forever – the surrounds of the Velocity subwoofers are glued and then additionally stitched, enabling them to stand up to even extreme mechanical loads.



Maximum flexibility – the dual voice coils of the Velocity subwoofers permit multiple connection configurations.



Vc 172

300 W

165 mm

59 mm

93 dB/SPL



Nothing but the best for your ears: The component system in the Vc series combines highest-quality materials to create a complete package for superior sound. And even though these are top-quality products, one thing is still easy: installation.



Quality makes the difference right down to the last millimeter. Particularly when a lot of space is one thing you don't have. The installation depths of the Vc systems can be cut by an additional three millimeters when the magnet cover is removed. The magnet diameter is reduced at the same time – and that can make a real difference.



A touch more perfection: The 25-mm silk domes in the Vc systems can be swiveled in their mounts and aimed directly at the listeners. You'll never miss another acoustic detail.

	Vc 132	Vc 172	Vb 250	Vb 300
System type	2-way component	2-way component	Subwoofer box	Subwoofer box
Diameter	130 mm / 25 mm	165 mm / 25 mm	250 mm	300 mm
RMS power	80 watts	100 watts	200 watts	400 watts
Max. power	240 watts	300 watts	600 watts	1,200 watts
Sensitivity 2.83 V 1 m	91 dB	92 dB	93 dB	94 dB
Frequency response	50 – 22,000 Hz	40 – 22,000 Hz	40 – 1,000 Hz	35 – 1,000 Hz
Impedance	4 ohms	4 ohms	2 x 2 ohms	2 x 2 ohms
Installation depth	53.5 mm	59 mm	390 x 330 x 350 mm	435 x 390 x 400 mm
	Vw 250	Vw 300	Vw 380	
System type	Subwoofer	Subwoofer	Subwoofer	
Diameter	250 mm	300 mm	380 mm	
RMS power	500 watts	750 watts	1,000 watts	
Max. power	1,500 watts	2,250 watts	3,000 watts	
Sensitivity 2.83 V 1 m	92 dB	93 dB	94 dB	
Impedance	2 x 2 ohms	2 x 2 ohms	2 x 2 ohms	
Fres	42 Hz	37 Hz	36 Hz	
Qts	0.63	0.69	0.83	
Vas	11.3 liters	30.4 liters	44.0 liters	
Xmax	+/- 15 mm	+/- 15 mm	+/- 15 mm	

Superior performance where others let you down: The VA Series.

Is it the looks or the performance? Both are undeniably great. The amplifiers in the VA series definitely combine exclusive design with powerful technology. These amps meet even the most demanding individual requirements. The mounted aluminum profiles make the amps look really elegant; without the profiles, their compact form comes to the fore. And their technology is really something to see: Thanks to the “thermal throttle” circuit, these amplifiers can handle even the toughest temperature loads in style.

- The “thermal throttle” circuit reliably prevents a shutdown of the amplifiers under all kinds of operating conditions
- Flexible design with removable end and side profiles made of solid aluminum
- Visually seamless installation of several amplifiers possible
- All amplifiers include cable remote control for level adjustment

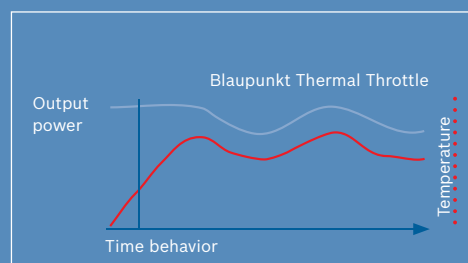
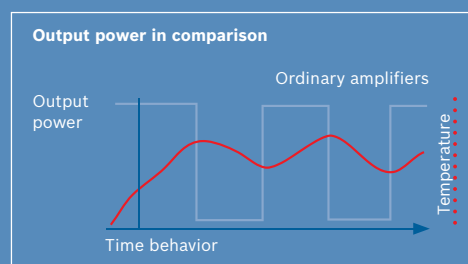


VA 4100

Setting an excellent example: Innovative technology and the high workmanship quality so typical of Blaupunkt make the amplifiers in the VA series reference models.

They keep cool when things heat up: The “thermal throttle” circuit in the amplifiers in the VA series makes sure that the music keeps playing when things heat up. This technology reduces output performance in “emergencies” by up to 3 dB to stabilize the heat balance in the output stages. And it works so well that you’ll hardly notice it.

- 1600 W
- 2 Ω stable
- Thermal Throttle
- Remote Control
- Reference Sound



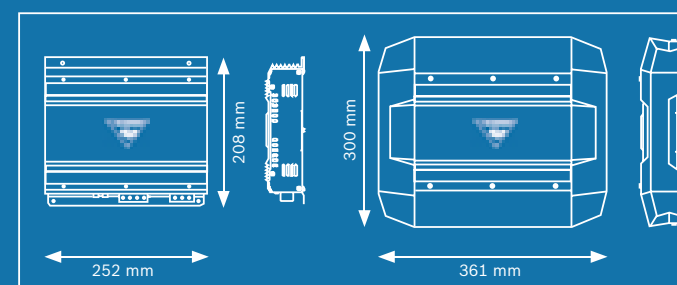
Safe and sound: The connections and controls are protected by solid aluminum profiles to save them from the wear and tear of everyday use.



Power becomes performance: The power supply packs of the VA amplifiers always have more power than they need to guarantee ideal voltage conditions for optimal sound quality.



Stronger together: Thanks to their design, the VA amps can be seamlessly connected with one another to create the impression of one gigantic amplifier.



Flexible installation: The VA series shows off different looks – powerful and sturdy with the aluminum profiles in place. Or surprisingly compact and easy to install when there’s not a lot of room to spare.

	VA 2100	VA 4100
Number of channels	2/1	4/3/2
RMS power (4 ohms)	2 x 100 W/1 x 300 W	4 x 100 W/2 x 300 W
RMS power (2 ohms)	2 x 160 W	4 x 160 W
Max. power (4 ohms)	2 x 250 W/1 x 700 W	4 x 250 W/2 x 700 W
Inputs	Cinch	Cinch
Low-pass (Hz)	50 – 250 Hz	50 – 250 Hz
High-pass (Hz)	50 – 250 Hz	50 – 250 Hz
Dimensions	361 x 60 x 300 mm	491 x 60 x 300 mm

And you will have music wherever you go.



Up to now, you had to take your car along with you to the beach. Because only the impressive sound emanating from the open trunk can really transform a simple BBQ into a rocking beach party. So, this was the question: Can a subwoofer be made even more mobile as simply installed in a car? Yes: Velocity 2Go. This system lets you take powerful sound anywhere. Velocity 2Go is the world's first active subwoofer that works in the car (with your car hifi system) as well as outside the car as a portable stereo hifi speaker. It can also be operated by battery and is able to accommodate virtually any signal source.

- Active subwoofer in the car –
- Fully active stereo hifi speaker outside of the car
- Connect to any MP3 player
- 160 watts of max. Power (in the car)
- Battery/rechargeable battery operation possible
- Automatic power on
- Plug/cinch/high-level input



Everything under control: As a subwoofer, the Velocity 2Go's integrated amp electronics provide everything you need to adjust the level, cut-off frequency and phase.



No need to lift a finger: You can select the operating mode manually, – either "subwoofer" or "hifi speaker" – but you don't have to. In connection with the optional QuickOut, set the switch to "AUTO" and the Velocity 2Go will automatically choose the correct setting.



No fear of contact: Velocity 2Go has been equipped with three types of jacks – a cinch jack, high-level speaker inputs and a 3.5 mm jack for MP3 players.

Velocity 2Go 6

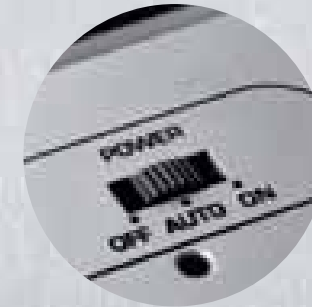


The Velocity 2Go 6 combines opposites that were thought of as "uncombinable" up to now. In the car, it's a real subwoofer. Outside of the vehicle, it's a portable top-class stereo speaker. At home, it's a compact hifi system. And it provides for rich sound enjoyment anywhere you take it. The Velocity 2Go 6 is the first speaker system for a new, flexible world. Without compromise, but with fantastic sound and unparalleled design.

Sound in the car. Around the car. And anywhere you want.



Anything but quiet: Velocity 2Go is so versatile that these are only a few ideas of what you can do with it here. Let your imagination run wild – you are sure to find lots of other uses.



Sound at your fingertips: What you might have already become accustomed to with active THb subwoofers works exactly the same way here. The Velocity 2Go is equipped with automatic power-on, which also functions in connection with the 3.5 mm jack for the MP3 player.



Loud is cool: The bass-reflex channel affords more pressure in the bass range and also works to cool the integrated output stages. The more you demand of the Velocity 2Go, the stronger the air flow in the channel and the higher the cooling performance for the output stages.

Velocity 2Go QuickOut mount

Never miss your connection: The optionally available QuickOut mount makes changing operating modes a breeze. Insert or remove the Velocity 2Go from its mount with just one push or pull. There are no cables to connect or disconnect.



Hifi performance pure and simple: All the components are consistently designed for sound quality. Particularly long-stroke bass with large magnet systems, silk domes, four separate amplifiers for fully active control over 18 dB, crossover frequencies and an integrated equalizer for frequency response correction provide an excellent technical basis.



Velocity 2Go 5

Small but strong on sound: Even with such compact dimensions, the Velocity 2Go 5 is a real subwoofer. It is a perfect fit for compact cars and is easy to carry with you. Its enormous sound richness will fascinate you.

A very bright invention: The Velocity 2Go sets new standards even in the choice of materials. Among other things, it has an enclosure made of solid die-cast aluminum on the front and rear sides.

Quality you can touch: The handle is completely made of aluminum. And new materials were also used for the enclosure. An innovative composite material made of aluminum and ABS gives the body exceptionally high stability despite its lightweight.

A real live wire: Whether at 12 V in the car, plugged into the wall at home (cable included) or battery-operated (optional) – Velocity 2Go has power to go anywhere you want to go.



Incredibly practical: There is a pocket on the back of all the Velocity 2Go models in which you can store the connection cable, an MP3 player or a second set of rechargeable batteries.

Inexpensive operation: The Velocity 2Go was specifically designed for operation using economical, meanwhile amazingly powerful mignon (AA) rechargeable batteries. The batteries can also be recharged in the device – a separate battery recharger is not required.

It all fits: Even if the Velocity 2Go has been designed to accommodate MP3 players, the Lucca 5.2 navigation system also fits perfectly into the cradle on the top.

Tap into any source: Use the connection cable (included) with the 3.5 mm plug to hook up virtually any MP3 player directly via the earphone jack.

	Velocity 2Go 5	Velocity 2Go 6
RMS power	80 W	80 W
Max. power	160 W	160 W
Frequency response	50 – 120 Hz/50 – 25.000 Hz	40 – 120 Hz/40 – 25.000 Hz
Inputs	Cinch/High-Level/Aux	Cinch/High-Level/Aux
Power supply	12 V/230 V/ rechargeable battery (optional)	12 V/230 V/ rechargeable battery (optional)
Dimensions	390 x 181 x 200 mm	480 x 220 x 240 mm
Weight	5.5 kg	7.0 kg

A new sound dimension: The TH Series.

Great sound – made easy. With its innovative drive concept, the TH series proves how compact high-quality speaker systems can be today. Don't waste a thought on whether you can replace your series speakers with better systems. Especially not when it comes to installation depth – after all, everything about the TH series just fits.

- Exceptionally flat design – easiest installation
- Low-resonance cones made of injected polypropylene (IPP) in an elegant “black brushed metal look”
- Rear-ventilated voice coil for optimized heat dissipation and increased electrical power handling
- Woofer magnets integrated in the steel basket for optimum stability (Integrated Magnet System)
- All tweeters equipped with neodymium magnets for high efficiency
- Designer covers with metal application included



Keep cool: The multiple ventilation openings in the basket provide optimal cooling for the voice coil.



Flat intelligence: The special geometry of the low-resonance cone made of injected polypropylene makes all the TH speakers particularly flat.



THc 662



Elegant and particularly easy to install: That's the philosophy behind the THc 662. Whether it's the low installation depth of the woofer of just 46 mm, the compact tweeter with its swivel mounting or the extremely small 12 dB frequency crossover – everything has been optimized for great sound in the most compact dimensions.

	THx 402	THx 542	THx 652	THx 662	THx 462
System type	2-way coaxial	2-way coaxial	2-way coaxial	2-way coaxial	2-way coaxial
Diameter	100 mm	130 mm	158 mm	165 mm	4" x 6"
RMS power	40 watts	40 watts	50 watts	50 watts	40 watts
Max. power	160 watts	160 watts	200 watts	200 watts	160 watts
Sensitivity 2.83 V 1 m	91 dB	91 dB	92 dB	92 dB	91 dB
Frequency response	80 – 22,000 Hz	70 – 22,000 Hz	60 – 22,000 Hz	60 – 22,000 Hz	70 – 22,000 Hz
Impedance	4 ohms	4 ohms	4 ohms	4 ohms	4 ohms
Installation depth	36 mm	43 mm	46 mm	46 mm	40 mm
	THx 572	THx 693	THc 542	THc 652	THc 662
System type	2-way coaxial	3-way triaxial	2-way component	2-way component	2-way component
Diameter	5" x 7"	6" x 9"	130 mm	158 mm	165 mm
RMS power	50 watts	70 watts	50 watts	60 watts	60 watts
Max. power	200 watts	280 watts	200 watts	240 watts	240 watts
Sensitivity 2.83 V 1 m	92 dB	93 dB	92 dB	92 dB	92 dB
Frequency response	50 – 22,000 Hz	40 – 22,000 Hz	60 – 22,000 Hz	50 – 22,000 Hz	50 – 22,000 Hz
Impedance	4 ohms	4 ohms	4 ohms	4 ohms	4 ohms
Installation depth	48 mm	57 mm	43 mm	46 mm	46 mm
	THb 200A	THb 210A			
System type	Subwoofer box	Subwoofer box			
Diameter	200 mm	200 mm			
RMS power	70 watts	120 watts			
Max. power	140 watts	240 watts			
Sensitivity 2.83 V 1 m	Active system	Active system			
Frequency response	30 – 120 Hz	20 – 120 Hz			
Impedance	–	–			
Installation depth	340 x 225 x 71/ 79 mm	340 x 225 x 161/ 169 mm			

Respectably slim. But with really wicked sound!



THb 210 A

240 W

200 mm

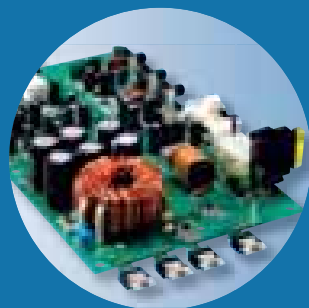


Ultra-slim for rich bass sound: The THb 210 A is particularly compact (approx. 9 liters of net volume) and still delivers the sound pressure of a big subwoofer. And it's a real space-saver, too. A separate amplifier is not required because a powerful output stage is already integrated in the aluminum enclosure. With automatic power-on and speaker inputs, the THb 210 A is the ideal component to add to existing OE systems.

Robust like no other: The complete enclosure is made of solid die-cast aluminum, making it virtually indestructible.



Now that's sweet music: The electronics with the powerful 240 W amplifier drives the woofer.



Sound 48149

THb 200 A

140 W

200 mm



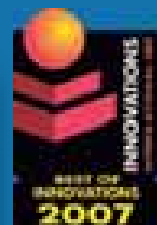
Small and smaller: With an installation depth of no more than 71 mm, this subwoofer is even more compact than the THb 210 A. It is the ideal choice for particularly compact vehicles. And connecting the unit is just as easy as installing it – a remote signal is not required to switch it on.



Plug 'n' Play is their strength: The THA Series.

Sometimes you simply have to have an amplifier: for rich sound and low basses. Car radios already installed in the factory are rarely equipped to afford such music enjoyment. Nevertheless, it is becoming increasingly more difficult to replace the pre-installed models provided by the vehicle manufacturer with aftermarket systems. And in leased vehicles, it is usually out of the question to make any permanent changes – original cables can almost never be cut. Blaupunkt has the solution for more power: The THA PnP amplifier series offers a powerful amp to retrofit into virtually any vehicle. It is not necessary to change any existing wiring. The installation is just as easy as it is ingenious and doesn't generally take any longer than half an hour. The trick is in the system. Take a closer look at the THA PnP amplifiers.

- PnP connection
- Ultra-compact
- Minimum power needs
- Direct Aux input (except THA 1250)
- 2 ohm-stable
- Cable remote control for BassBoost included (THA 1250 and THA 555 only)



THA 475 PnP

- 720 W
- 4/3/2-Channel Amplifier
- Plug 'n' Play Connectivity
- Ultra compact
- Aux-in

Strong, when others go weak: The THA 475 PnP is compact and a real powerhouse at the same time. Intelligent design has made it possible to reduce this amp's dimensions by approximately two thirds compared to conventional amplifiers in this performance category. And its installation is also much easier – thanks to the innovative PnP connection technology.

Our motto is: save space. Thanks to its extremely compact dimensions, this amp can be easily installed virtually anywhere. Gone are the days when amplifiers almost always had to be installed in the trunk because of their size. Center console, glove compartment, under the front seats or behind the dashboard are the convenient installation locations of the future.



1) Remove the radio



2) Plug the correct PnP adapter into the radio



3) Connect the original wiring harness to the PnP adapter



4) Connect the PnP extension cord to the PnP adapter



5) Connect the PnP extension cord to the amplifier



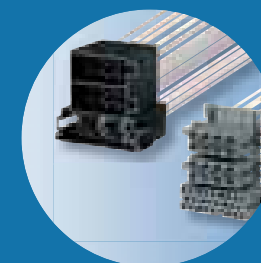
6) Mount the amplifier and return the radio to its original position

Say goodbye to bulky tool kits: Up to now, anyone wanting to install an amplifier needed a whole range of different pliers, screwdrivers, special wrenches and often even a soldering iron at the ready. Nowadays, sometimes all you need are the mounting brackets to remove the original radio. And thanks to the vehicle-specific adapters, you don't need to become an electronics engineer.

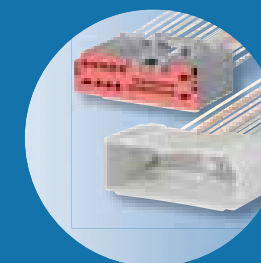
A connection for any car: There are 40 different adapters to choose from, which means that you can easily connect a THA PnP amplifier to factory-installed radios in close to 2000 vehicle models built by European, Asian and American manufacturers. Thanks to the wide range of adapters, you no longer need the skills of an electronics expert.



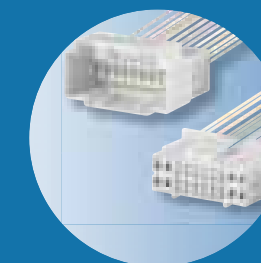
1) VW adapter



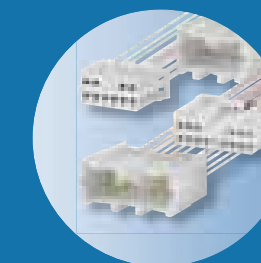
2) BMW adapter



3) Ford adapter



4) Suzuki adapter



5) Volvo adapter

Plug it in.
Buckle up.
And listen.

Small jewels capable of powerful performance: The new PnP amplifiers with highly polished top sides, the embossed Blaupunkt logo and solid side pieces made of die-cast aluminum look so elegant that it seems almost a shame to hide them.



THA 275 PnP



THA 475 PnP

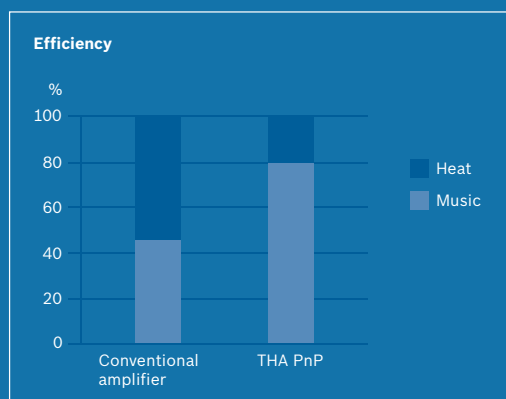


THA 555 PnP



THA 1250 PnP

Low on power consumption, high on performance: The THA PnP won't get its wires smoking – but your ears might. They get all the power they need from the original wiring harness in your vehicle. And after that, almost all the input power is transformed into music. And not into heat.



	THA 275 PnP	THA 475 PnP	THA 555 PnP	THA 1250 PnP
Number of channels	2/1	4/3/2	5/4/3	1
RMS power (4 ohms)	2 x 75 W/1 x 190 W	4 x 75 W/2 x 180 W	4 x 55 W/1 x 200 W	1 x 250 W
RMS power (2 ohms)	2 x 90 W	4 x 85 W	4x 65 W/1 x 250 W	1 x 300 W
Max. power (4 ohms)	2 x 150 W/1 x 400 W	4 x 150 W/2 x 360 W	4 x 110 W/1 x 400 W	1 x 600 W
Inputs	Cinch/High-Level/Aux	Cinch/High-Level/Aux	Cinch/High-Level/Aux	Cinch/High-Level
Low-pass (Hz)	50 – 250 Hz	50 – 250 Hz	50 – 250 Hz	50 – 250 Hz
High-pass (Hz)	10 – 250 Hz	10 – 250 Hz	10 – 250 Hz	10 – 250 Hz
Dimensions	159 x 41 x 170 mm	159 x 41 x 285 mm	159 x 41 x 355 mm	159 x 41 x 260 mm

Simply efficient: The transformers using the completely new Planar-Power-Plant technology save space and work with virtually no signal loss. Which makes the outstanding overall efficiency of the THA PnP amps possible in the first place.



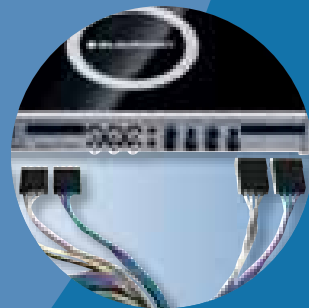
Ready to go even without a signal: When connected via the high-level inputs, the THA PnP amps don't need a control signal from the radio to switch on. The amp generates its own remote signal, which can also be used for other external components.



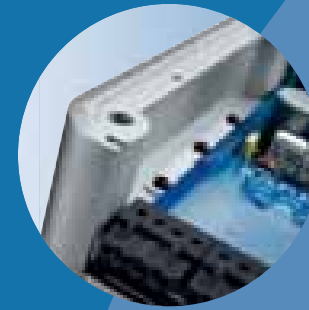
"Conventional" works, too – If lack of space forces you to look for extremely compact dimensions, but you still want to connect the amp as usual –with a cinch plug and screw terminals – then these amps are the perfect choice for you as well.



The sound pipeline: Wherever you install the amplifier – in the rear of the vehicle or in the trunk – you'll always find a connection cable in the right length. Two different lengths are available (2.5 m and 5.5 m).



From a single mold: The sidepieces on the THA PnP amplifiers are made of die-cast aluminum. The pre-drilled holes in them can be used to mount the amplifiers.



No fear of the "diagnosis": Thanks to the intelligent power-on switch, connecting a THA PnP amplifier to the speaker inputs of an OE radio instead of speakers does not lead to any error messages in the central vehicle computer.



Bass power on command: Use the cable remote control included with the THA 1250 PnP and the THA 555 PnP to conveniently adjust the bass level of the subwoofer from the driver's seat.



For a direct line: If your existing radio is not equipped with an Aux input for an external signal source, the THA PnP amplifiers (except THA 1250 PnP) have the exclusive "Direct Aux input" from Blaupunkt. Use it to connect such devices as a portable MP3 player or a navigation system.



A price you're sure to like: The GT Series.

A real improvement in an already excellent price-watt performance ratio: the new 2007 GT series. It once again outdoes all the models that have gone before. The speakers can handle even more power; their metal baskets in the "wrinkle black" look are even more appealing. The GT speakers offer virtually unparalleled system diversity. The latest series includes models in five further sizes. In other words: starting immediately, you can get GT speakers in the right size for virtually any vehicle. Increase your listening pleasure – and say good-bye to your original in-car speakers.

- Low-resonance cones (Injected PP) in all GTX, GTc and GTw speakers
- Rear-ventilated voice coils for optimized heat dissipation and increased electrical power handling
- High sensitivity – requiring only low amplifier output
- Designer covers included (except the GTX 352)



GTc 662

210 W

56 mm

165 mm

In a class of its own even in the entry-level segment: Visually elegant and acoustically convincing, the speakers in the GT series are an upgrade in any vehicle. With such intelligent details as the GTc 662's swiveling tweeters, you can perfectly adjust the acoustics in your vehicle to transform any trip into a concert tour.

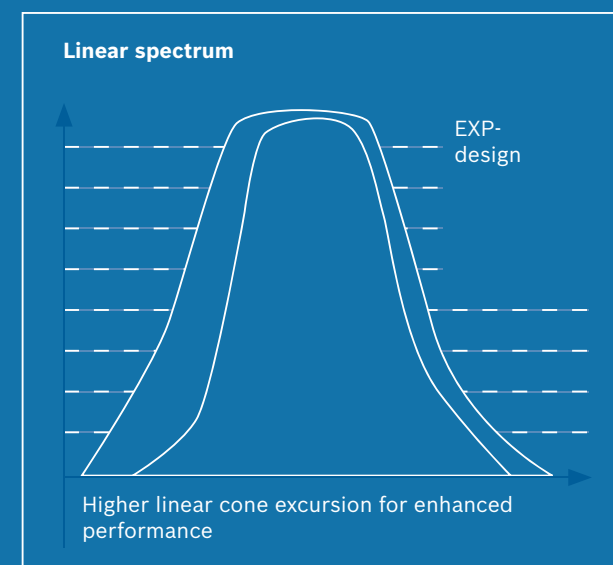
Listen to what this symbol has to say: The GT logo has meanwhile become a synonym for excellent, affordable sound performance.



Beautifully clear: The chrome-plated GT tweeters provide for brilliant sound reproduction and maximum acoustic transparency.



A good environment for any sound: Additional holes in the basket provide added ventilation for the voice coil in the GT speaker to increase its electrical power handling.



Loud and clear: The extended EXP pole piece of the woofer magnets ensures greater linear cone excursion for increased distortion-free maximum volume.



GTw 1000



GTb 1200

All the pressure you need: Whether it's a sealed box, bass-reflex tube or particularly solid subwoofers for a customized enclosure – thanks to the large selection, the GT series has the right speaker for any use. And delivers great bass sound at an affordable price.

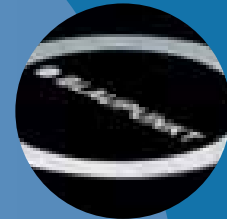


	GTx 352	GTx 402	GTx 542	GTx 652	GTx 662
System type	2-way coaxial	2-way coaxial	2-way coaxial	2-way coaxial	2-way coaxial
Diameter	87 mm	100 mm	130 mm	158 mm	165 mm
RMS power	25 watts	30 watts	40 watts	45 watts	45 watts
Max. power	110 watts	130 watts	170 watts	190 watts	190 watts
Sensitivity 2.83 V 1 m	90 dB	90 dB	91 dB	92 dB	92 dB
Frequency response	90 – 20,000 Hz	90 – 20,000 Hz	70 – 20,000 Hz	60 – 22,000 Hz	60 – 22,000 Hz
Impedance	4 ohms	4 ohms	4 ohms	4 ohms	4 ohms
Installation depth	37 mm	39.5 mm	48 mm	53 mm	56 mm
	GTx 663	GTx 803	GTx 462	GTx 572	GTx 693
System type	3-way triaxial	3-way triaxial	2-way coaxial	2-way coaxial	3-way triaxial
Diameter	165 mm	200 mm	4" x 6"	5" x 7"	6" x 9"
RMS power	50 watts	55 watts	35 watts	40 watts	55 watts
Max. power	210 watts	240 watts	150 watts	170 watts	240 watts
Sensitivity 2.83 V 1 m	93 dB	92 dB	91 dB	91 dB	92 dB
Frequency response	40 – 22,000 Hz	40 – 22,000 Hz	80 – 22,000 Hz	60 – 22,000 Hz	40 – 22,000 Hz
Impedance	4 ohms	4 ohms	4 ohms	4 ohms	4 ohms
Installation depth	56 mm	76 mm	45 mm	55 mm	74.5 mm
	GTc 542	GTc 652	GTc 662	GTw 1000	GTw 1200
System type	2-way component	2-way component	2-way component	Subwoofer	Subwoofer
Diameter	130 mm	158 mm	165 mm	250 mm	300 mm
RMS power	45 watts	50 watts	50 watts	200 watts	200 watts
Max. power	180 watts	210 watts	210 watts	600 watts	600 watts
Sensitivity 2.83 V 1 m	91 dB	91 dB	91 dB	91 dB	92 dB
Frequency response	60 – 22,000 Hz	50 – 22,000 Hz	50 – 22,000 Hz	35 – 1,000 Hz	30 – 1,000 Hz
Impedance	4 ohms	4 ohms	4 ohms	4 ohms	4 ohms
Installation depth	48 mm	53 mm	56 mm	123.0 mm	139.0 mm
	GTt 1200	GTb 1200			
System type	Subwoofer tube	Subwoofer box			
Diameter	300 mm	300 mm			
RMS power	200 watts	250 watts			
Max. power	600 watts	750 watts			
Sensitivity 2.83 V 1 m	91 dB	91 dB			
Frequency response	35 – 500 Hz	35 – 500 Hz			
Impedance	4 ohms	4 ohms			
Installation depth	484 x 328 mm Ø	432 x 387 x 378 mm			

In the beginning,
there was sound:
The GTA Series.

For beginners with the demands of a sound pro: The amplifiers in the GTA series combine top quality, uncompromising technology and outstanding features. They reflect everything that Blaupunkt understands by "optimum value for money". Put first-class sound quality into your car – the GTA amplifiers promise maximum reliability, superior workmanship and high performance reserves. And if you like added features, you'll love these: High-level input along with the Direct Aux input developed by Blaupunkt to make these speakers powerhouses for remarkable versatility and flexibility.

- Direct Aux input – To connect portable music players and navigation systems (GTA 280/480 only)
- High-level input – For the direct connection to the speaker outputs (except the GTA Special Mk II)
- 2-ohm stable (4-ohm stable in bridged mode)
- Variable high and low-pass filters
- Variable BassBoost for expanded bass reproduction
- Oversized heat sinks for optimum heat dissipation



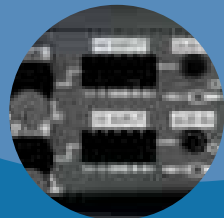
Lightweight instead of heavy metal: The aluminum plate with the embossed logo inserted into the GTA amplifiers gives them an elegance rarely experienced in this price category.

GTA 480

850 W



Like Black Beauty, but much stronger: The new GTA 480 is completely clothed in elegant black. And the range of features included with this 4-channel amp equipped with the unique Direct Aux input is just as impressive as the elegance of its top surface.



Your car radio doesn't have any preamp outputs? No problem – the high-level input lets you connect the amp directly to the speaker outputs.

Everything under control: The GTA 480 connection panel includes multiple setting options for input sensitivity, the crossover frequency and BassBoost.

Sound

60161

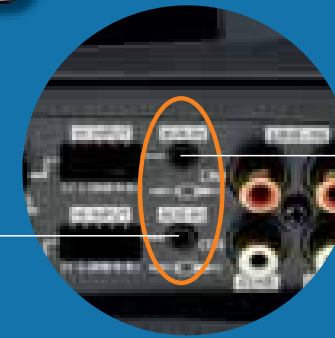


GTA 4 Special Mk II

850 W



Focus on power: The GTA Specials concentrate on the essentials. Strong performance and a sharp appearance in the "brushed metal look" transform these reliable sound machines into real powerhouses of fun.



Ingenuously versatile: The Direct Aux input makes it possible to connect such portable devices as MP3 players, iPods or navigation systems to existing sound systems without Aux inputs.

	GTA 280	GTA 480	GTA 2 Special Mk II	GTA 4 Special Mk II
Number of channels	2/1	4/3/2	2/1	4/3/2
RMS power (4 ohms)	2 x 75 W/1 x 210 W	4 x 75 W/2 x 210 W	2 x 60 W/1 x 180 W	4 x 60 W/2 x 180 W
RMS power (2 ohms)	2 x 105 W	4 x 105 W	2 x 90 W	4 x 90 W
Max. power (4 ohms)	2 x 160 W/1 x 425 W	4 x 160 W/2 x 425 W	2 x 120 W/1 x 400 W	4 x 120 W/2 x 400 W
Inputs	Cinch/High-Level/Aux	Cinch/High-Level/Aux	Cinch	Cinch
Low-pass (Hz)	50 – 250 Hz	50 – 250 Hz	50 – 250 Hz	50 – 250 Hz
High-pass (Hz)	50 – 250 Hz	50 – 250 Hz	80 Hz	80 Hz
Dimensions	263 x 53 x 269 mm	353 x 53 x 269 mm	210 x 49 x 296 mm	210 x 49 x 426 mm

We haven't saved the best for last – but everything that belongs to the best.
Make yourself at home: for example with the infrared remote control, the practical interface for your iPod or a vehicle-specific installation kit for your Blaupunkt equipment. And don't forget the various roof antennas in attractive design variants. In other words: Why not take it to the next level?

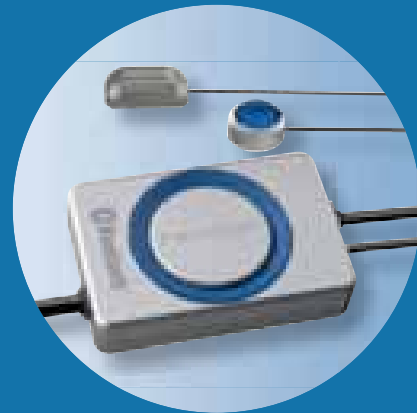
We will make sure you get the best reception.

Fill 'er up with 10,000 songs.

Bluetooth/USB interfaces

You no longer need wires and cables to use your phone in the car or listen to MP3s. The Bluetooth/USB interface is a world's first and combines two ingenious functions in a single device: Via Bluetooth, you can conduct phone calls via the speakers of your car audio system* without wiring your cell phone to the radio. And it's just as easy to use Bluetooth audio streaming to play MP3 files stored on the cell phone over the car radio. The USB interface lets you connect USB sticks, external hard disks or MP3/WMA players directly to the radio. For further information on compatibility, please go to our home page at www.blaupunkt.com.

* Only with Blaupunkt car radios or radio navigation systems (aftermarket systems only)



iPod interfaces

A thousand songs to go: This is the iPod you know and love. And now you cannot only listen to it over your Blaupunkt car radio or radio navigation system (aftermarket systems only), you can control it as well – even by remote control. The iPod interface is simply connected to the CD changer interface. And while you listen to the music, the system even recharges your iPod in the background. Small accessory, big benefit.

- iPod display remains functional and indicates the title/artist playing
- Remembers the last track or last position when switched off
- Long cable included so that the interface can be mounted where it can't be seen
- iPod battery is recharged through the interface during in-vehicle operation
- Simple connection to the CD changer interface
- Suitable for the iPod, iPod-Mini and iPod-Nano for connection to the Blaupunkt car radios and radio navigation systems (aftermarket systems only) with CD changer control (DMS) produced from 2001 and later (available in two different versions). Go to your dealer for more information.



Blaupunkt offers three different holders to give your iPod a very secure footing in your vehicle (available for the iPod, iPod-Mini, iPod-Nano as well as a universal holder).



CAN bus interfaces

The high-quality CAN bus interface solutions for different vehicle models with the Fakra plug retain the functioning of the steering wheel remote control and on-board computer after the installation of a new Blaupunkt car radio. Detailed information is available from your dealer or at <http://carconf.blaupunkt.com>

- The interface is compatible with all Blaupunkt car radios and radio navigation systems
- Compliance with all automotive standards (e.g. sensitivity to heat and cold)
- Available for many different types of vehicles



Installation kits

Blaupunkt's vehicle-specific installation kits for the most popular car makes make sure that you will find the perfect way to integrate your new Blaupunkt car radio or navigation system into your vehicle.



RC 10 and RC 10 Silver Edition remote control units

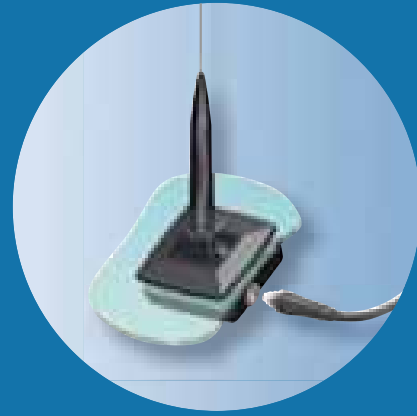
Thanks to its ergonomic design, the RC 10 infrared remote control for the steering wheel prevents driver distraction, even in the dark. Use it to control all the important functions of your car audio system from the tuner to the CD changer.

- Ergonomic design
- Control of all the important functions of the car audio system
- Infrared steering-wheel remote control
- Also available in an attractive silver finish



DAB antenna

Radio in CD quality: The Digital DAB A-D G 01-E antenna delivers not only digital radio programs in perfect sound quality out of "thin air". It is also easy to mount – with no drilling necessary, which is particularly important for leased vehicles. The mounting principle is as simple as it is ingenious: The rod holder is glued to the trunk lid on the outside and the reception block is glued to the inside. With absolutely no compromise in reception performance – the Digital DAB A-D G 01-E is every bit as good as a roof antenna. But much more practical. It is able to receive Band III and Band L and is connected directly to the radio via the 5-m cable included.



Radio and Phone designer rod

The attractive antenna rod is a delight to your ears and eyes. In another variant, it offers radio and cell phone reception for GSM 900/1800 and UMTS.

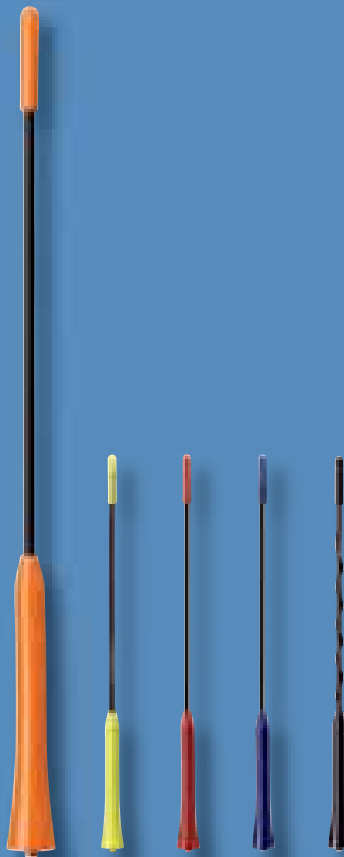
- Top design
- Optimum reception despite reduced length
- Simple to replace
- Fits all popular vehicle models with an M6 screw thread
- Also ideal for SUVs and vans



Color-Line antennas

This new line of antennas was designed to appeal to a younger audience in particular. Thanks to its strong, stylish colors, the "Color-Line" stands out from any other roof antennas.

- Available in different colors: yellow, orange, red, blue, black
- Black model is extremely low in noise thanks to a special anti-whistle winding
- Easy to mount thanks to short antenna rod; good choice for SUVs and vans
- Outstanding reception



Shark-Line antennas

The modern line of antennas in a stylish shark design in five variants: from the simple radio antenna right on up to the all-in-one solution for digital and analog radio, telephone and navigation. Quick to mount on your car roof, the Shark-Line always offers top-quality reception. But if you're also "receptive" to high-quality design, we're sure you've already made up your mind.

- Small and powerful
- A safe investment in the future: Buy a new cell phone without having to buy a new antenna
- Attractive, modern shark design
- Designed for Blaupunkt
- Optimum reception performance thanks to rooftop installation
- Available for:
 - AM/FM
 - AM/FM · DAB
 - AM/FM · GSM · UMTS
 - AM/FM · GSM · UMTS · GPS
 - AM/FM · GSM · UMTS · GPS · DAB



Phone-Shark antennas Nav-Phone-Shark antennas

These stylish antennas are the perfect combination of function and design. Rooftop installation guarantees the best possible reception. The antennas in shark design are now also available for retrofitting on vehicle roofs.

- Attractive, modern shark design
- Outstanding reception performance
- Phone-Shark for GSM 900/1800/UMTS
- Nav-Phone-Shark for GSM 900/1800/UMTS/GPS (navigation systems)



Big-time entertainment
down to the smallest
details.

**We won't
leave you alone:** On the
following pages, you will learn
all about everything that belongs to
perfect car multimedia. Our glossary
will explain technical terms that you
should know, and the subsequent spe-
cifications offer an overview of all pro-
duct features. One thing is for certain:
Afterwards, you will not only have a
brilliant sound, but a brilliant un-
derstanding of the technolo-
gy behind it as well.

A

Angle

Depending on where the car radio is installed, the reading angle of the display can be adjusted to best suit the driver.

Audio output

The audio output power of a car radio or an external output stage measured according to different measurement standards.

RMS power:

Continuous power with a sine wave, measured at 10 % THD (DIN 45.324) for car radios or at 1 % THD (DIN 45.500) for amplifiers or another THD as indicated.

Music power:

Continuous power with a complex signal (music signal), measured at 10 % THD (DIN 45.324) for car radios or at 1 % THD (DIN 45.500) for amplifiers or another THD as indicated.

Max. power:

Maximum short-term output power possible, important for extreme level peaks.

Audio streaming

Allows the wireless transmission of music data via Bluetooth, e.g. from a cell phone to the USB Bluetooth interface.

AutomaticSound

AutomaticSound, also known as GALA, controls the volume in relation to the driving speed. Important: the speed signal must be connected to the car radio.

Aux input

Stereo preamp input to which external audio sources can be connected – e.g. a CD changer, MP3 player or the iPod via the iPod interface. As an alternative to the Aux input connection on the rear side of the system, the Front Aux input is a 3.5 mm stereo jack located conveniently on the front panel.

Aux naming

External sources, e.g., portable music players, can be assigned an arbitrary name (max. 16 characters), which then appears on the car radio display when this source is selected.

B

Bass Boost

The Bass Boost control can be used to adjust the bass reproduction of the amplifier. The adjustment range normally extends from 0 dB to + 12 dB and ensures increased deep bass. Bass Boost permits rich, powerful base sound from relatively small subwoofer enclosure volumes.

Bluetooth (integrated)

Allows the wireless connection of a cell phone to the car radio to provide hands-free operation and call answer/termination via the radio. The cell phone must be equipped with a corresponding Bluetooth interface that meets the Bluetooth 1.2 standard and supports the so-called “hands-free profile” (HFP 1.5).

Brightness

A menu is used to adjust the brightness of the display and night design to the cockpit illumination. Separate settings can be selected for “headlights on” and “headlights off”.

C

Calibration microphone

Special microphone required for automatic calibration of the equalizer (DSAmx, DEQmaxEX). This microphone is already included with the Bremen MP76; it is available as an accessory for other devices.

CD-Text

Many CDs now already include additional information on the artist, the name of the album and the names of the individual tracks. The CD-Text function can be used to show this information on the car radio display.

Center-Out

Center channel generated from the two front channels. It requires an additional external amplifier and a speaker in the center of the dashboard.

Clock

Time display. The exact time is synchronized via the RDS-CT signal.

Coaxial speaker

2-way speaker in which the tweeter is positioned in the centre of the woofer on one axis.

Combination antenna

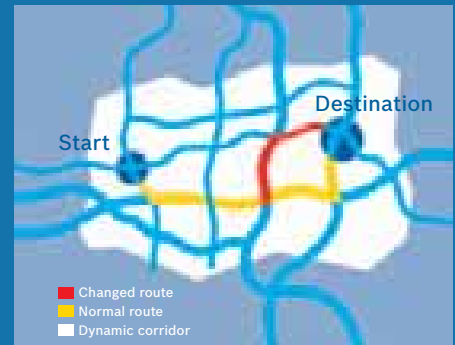
Combination of different types of antennas in one enclosure/rod. There are duplex (e.g. AM/FM radio/GSM) and triplex antennas (e.g. AM/FM radio/GSM/GPS). This means that only one antenna is required on your car to ensure optimal reception for different applications.

Component system

2-way system, in which the chassis (tweeter, woofer, possibly subwoofer) can be installed separately to optimize the sound/installation situation.

Corridor function

Thanks to the latest chip technology, the navigation system stores all relevant data along the specified driving route (corridor). Listen music from CD or MP3/WMA and navigate throughout Europe fully dynamically (traffic jam avoidance) at the same time, without changing CDs, as long as you do not leave the corridor.



Crossover

→ High-pass, low-pass

D

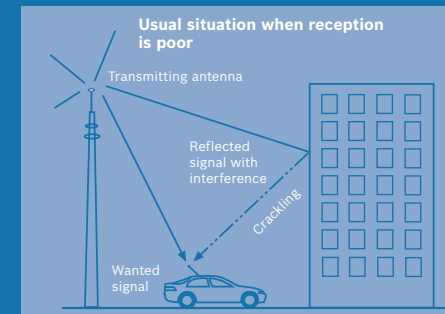
DAB – Digital Audio Broadcasting

→ Digital radio

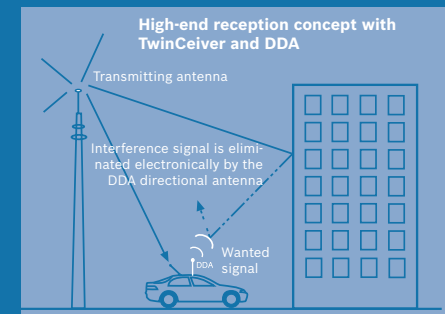
DAB antennas

In contrast to the familiar analog radio (AM/FM 0.145 – 108 MHz), digital radio is broadcast with its 2 bands (Band III 174 – 240 MHz, L-Band 1452 – 1492 MHz) in a higher frequency range. That is why it is necessary to add an antenna or replace the existing AM/FM antenna before it is possible to enjoy uninterrupted digital radio listening pleasure and the reception of extensive data services (news, traffic messages, traffic congestion maps, car park information, stock-market reports, display of artist and song title, etc.). In this department, Blaupunkt offers 5 different antennas to cover the digital radio frequency range. These include single antennas to simply add to your existing system or combination antennas to replace the old antenna. Depending on the model, the combination antennas also offer AM/FM and/or GSM in addition to DAB.

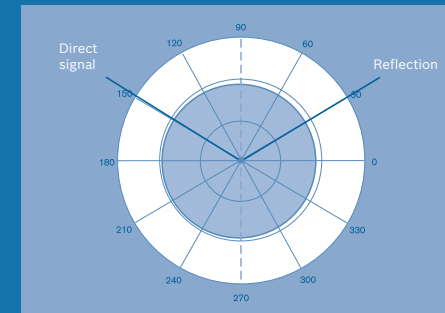
DDA – Digital Directional Antenna



High-end reception concept with TwinCeiver and DDA

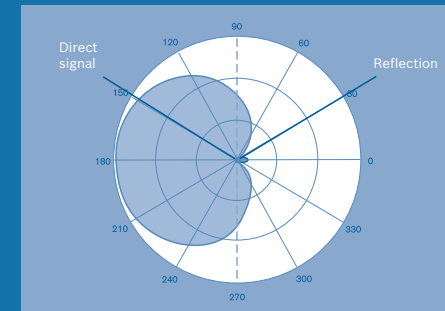


Conventional reception



Comparatively circular reception range of a normal car antenna: both the transmitter signal and the reflected signal are received.

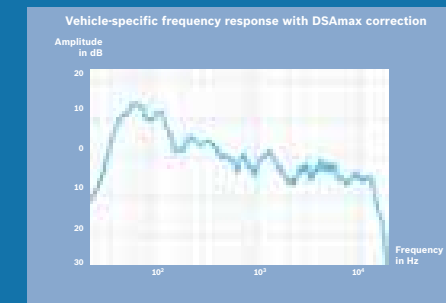
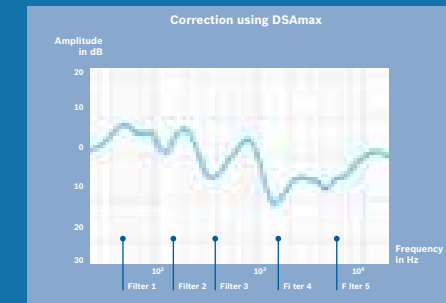
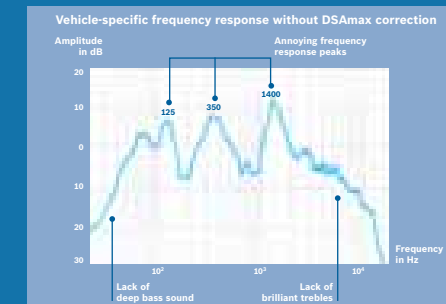
Reception with DDA



Reception range of the automatic DDA directional antenna: the wanted transmitter signal is received, the reflected interference signal is faded out.

In principle, the DDA process mimics the reactions of an extremely quick, automatic directional antenna – similar to TV “rabbit ears” that deliver just “snow” or perfect reception depending on just a small adjustment. When used in car radios, the DDA process works with two independent antennas and receivers, whose signals are digitized using intermediate frequency analog-digital converters. The digitized data is then fed to an adaptive algorithm with extremely low response times. Thus, the two intermediate frequency signals are combined so that the antenna can gain up to 3 dB of antenna power even for weak reception field strength levels. In areas with strong reception, the second regular receiver, the so-called RDS background receiver, is then freely available. Switching between DDA operation and RDS background reception is quick and inaudible, controlled by a logic that evaluates the current reception conditions. This guarantees the radio listeners the best possible reception and rapid frequency switching at all times, without annoying station searches.

DEQmax/DEQmaxEX/DSAmx Digital Sound Adjustment



Equalizers that do the thinking for you! The intelligent Blaupunkt equalizers are equipped with a self-adjusting function to automatically optimize sound reproduction. The DSAmx equalizer is a completely integrated high-performance 24-bit DSP

system. The computer has enough power to handle the 4-channel self-adjustment of 27 graphic equalizer bands (= 108 bands in total). This creates a sound quality that remains unparalleled to date and can also be adjusted to your personal taste. Signal time alignment for the audio signal guarantees a true-to-life, concert-like panorama. Dynamic Noise Covering (DNC) automatically adjusts the volume, the equalizer and music dynamics to the current noise background in the vehicle. And this feature not only regulates the level, it also adjusts the sound to the frequency spectrum of the driving noise.

A spectrum analyzer, fascinating effect sound options for Club, Stadium, Cathedral, Theater and Concert as well as sound presets round out the virtually unlimited opportunities to individualize your sound!

Parametric Bands in DEQmax/DEQmaxEX:

For especially easy operation and outstanding adaptation to the complicated acoustic conditions in modern vehicles, the DEQmaxEX equalizer uses six fully parametric bands (adjustable mid frequency, quality and level) with automatic calibration function (in systems with DEQmax, the parametric equalizer must be adjusted manually). In addition, you can also choose individually from five pre-defined sound curves for different music styles.

Automatic equalizer adjustment with the DSAmx and DEQmaxEX:

To keep things simple and ensure that the best possible sound is what you get in the end, Blaupunkt has developed an automatic self-adjusting function that measures the problematic frequency response individually in every vehicle. All you have to do is to connect the calibration microphone (comes included with the Bremen MP76) with the ISO connection box and press the AUTO key in the equalizer menu. After just a few seconds, the sound will be noticeably more harmonious, richer in detail with greater differentiation, as the annoying frequency peaks are reliably balanced out. To satisfy personal tastes, all the settings can also be adjusted manually afterwards. Alternatively, the sound-related or voice-optimized sound preset curves can also be selected.

DigiCeiver

Technology, whereby the car radio is based on signal/computer processors. The signal is digitally processed from the front-end receiver to the preamp output. This affords considerable advantages in terms of reception properties and sound adaptation.
→ SHARX®

Digital radio/ DAB – Digital Audio Broadcasting

Digital radio standard that, in contrast to analog radio signals, makes it possible to transmit a great deal of data. In addition to audio signals and texts, it is also possible to transmit program-associated data in the form of images and HTML pages. Even moving images are possible. With digital radio, many familiar programs are now available in CD quality, along with an entire spectrum of completely new stations.

Interference

Should there ever be any problem in the transmission of a digital signal, it is usually only a small part of the information that gets lost. And the listener won't even notice: the digital correction process simply recreates the original signals. This guarantees interference-free listening enjoyment every time.

Reception convenience

Digital radio programs are transmitted over just one frequency. This means that, once you have tuned into a program, you will be able to listen to it anywhere within reception range without having to adjust your set.

Versatility

Even though digital radio is bound to replace FM as the radio standard sooner or later, the Blaupunkt digital radios all still include an FM receiver as well.

Additional reception

In the future, digital radio will also be able to receive such additional multimedia information as telematics services, information on song titles, weather reports and MP3/WMA files.

Sound quality

Digital radio provides the same excellent sound quality as a music CD, even at top speed on the motorway.

Future standard

It is already possible to pick up digital radio almost everywhere in Germany. Full coverage is expected to be achieved by 2004. And since digital radio is a European standard, it can already be received in many European countries.

Program diversity

Digital radio doesn't mean you have to make do with fewer programs. In Germany, there are already more than 150 digital radio programs on air – and that number is growing.

Direct Aux input

A world's first from Blaupunkt. An additional input to an external amplifier for direct connection of portable players or navigation systems if the car radio is not equipped with an additional Aux input. The following amplifiers are currently equipped with this feature: GTA 280, GTA 480, THA 275 PnP, THA 475 PnP and THA 555 PnP.

Display-Out

Connection option for existing external displays in the car via an optional interface (Bremen MP76 only).

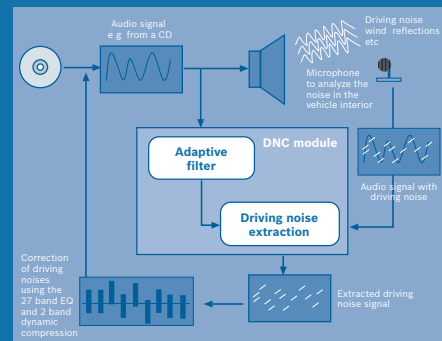
DMB – Digital Multimedia Broadcasting

→ Digital radio

DMS – Disk Management System

The Disk Management System makes it possible to connect a Blaupunkt CD changer and operate it using the car radio keypad.

DNC – Dynamic Noise Covering



→ DSAmx

DSAmx – Digital Sound Adjustment

→ DEQmax / DEQmaxEX / DSAmx

Dual voice coil

In a dual voice coil, the two lengths of wire wound around the same former can be driven separately. This provides you with greater flexibility in the configuration of your system. In a parallel hook-up (= half the impedance), the amplifier connected is able to deliver double the performance at best. For subwoofers that require a lot of power, each voice coil can be wired to a separate amplifier channel.

DVD

Abbreviation of Digital Versatile Disc. Universal storage medium offered in a diverse range of formats (e.g. DVD video, DVD audio, DVD+R/RW, DVD-R/RW and DVD navigation data)

Dynamization, dynamic route guidance

Routes are computed with permanent coordination with TMC reports. If a time advantage results from using an alternative route, then the system automatically (dynamically) guides the driver over this route.

E

EON

Enhanced Other Networks.
→ RDS

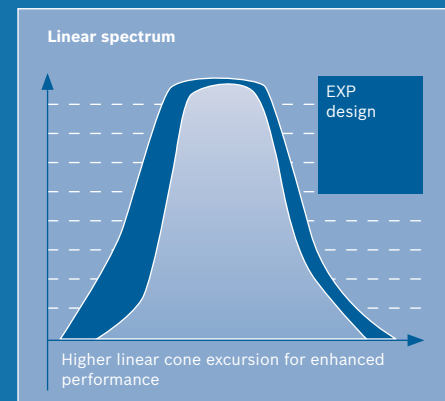
Equalizer

Sound control, which adapts the frequency response on several frequency bands to accommodate less-than-perfect acoustic conditions and personal preferences.

→ DEQmax / DEQmaxEX / DSAmx

EXP technology

EXP stands for "Extended Pole Piece", i.e. the pole piece of the speaker magnet is extended to allow greater linear excursion for the cone/voice coil while simultaneously reducing distortion.



F

Fader

Regulates the volume between the front and rear stereo channels.

Fiberglass Cone

The cones used in woofers and mid-range speakers must combine stiffness and minimal weight for the best linear behavior. The Blaupunkt fiberglass cone offers particularly pleasing resonance characteristics for a very even frequency response.

Flip Release Panel

→ Release Panel

Front Aux input

→ Aux input

G

GALA

→ AutomaticSound

GPS – Global Positioning System

More than 25 satellites orbit the Earth. On the basis of the location data they transmit constantly, it is possible to use a trigonometric formula to determine the location of a vehicle, for example, anywhere on the Earth's surface.

Gyroscope

Magnetically independent, electronic gyroscopic compass for the exact measurement of angles. Standard in airplane, ship and car navigation systems.

H

Hands-free operation

You can use the microphone and speakers in the car to place telephone calls without taking your hands off the wheel.

Head unit

A term commonly used in the car hi-fi industry for a car radio in complex systems.

High-level input

Additional input on a power amplifier that can be directly connected with the speaker outputs of the car radio.

High-pass

Active frequency crossover to control subwoofer/satellite speaker systems, whereby the music signal is faded out below a selected frequency.

High-power output stage

Car radio output stage with 22–26 watts RMS (acc. to DIN 45 324) or 45–50 watts per channel of max. power, created by special high-power transistors.

I

ID 3 tags

Information on artist, album, song, genre, etc. that can be stored with every MP3/WMA file. This information can be shown in the car radio display (comparable to CD-Text).

Installation kit

Mechanical adaptation of DIN car radios or speakers to different-sized, vehicle-specific installation locations. Blaupunkt offers a comprehensive program with the perfect solution for each fitting problem.

Integrated Magnet System

To provide for greater stability, the speaker's driver magnet is not screwed onto the back of the basket as usual, but rather integrated into the basket. This affords advantages not only for high-power-handling subwoofers, it also increases overall reliability.

IPP (Injected Polypropylene) cone

The IPP cone developed by Blaupunkt is a mechanically very stiff cone. With the addition of a synthetic material to the conventional PP cone, the injected IPP cone becomes noticeably stiffer and produces a louder, more linear and precise sound in the entire frequency response range. The IPP cone is used in all coaxial, triaxial and component systems in the GT series and TH series.

IR remote control

A handheld or steering-wheel mounted remote control unit whose signal is transmitted in the invisible infrared range. Products that are mounted on the steering wheel have been certified by the German Technical Inspection Agency (TÜV).

ISO connection technology

Mechanical connection standard commonly used in the car hi-fi industry in which all of the electrical connections are combined into several blocks. The contact allocation can vary electrically depending on the radio or car manufacturer so that specific adapter cables are required even though the plugs look identical.

L

Loudness

→ X-Bass

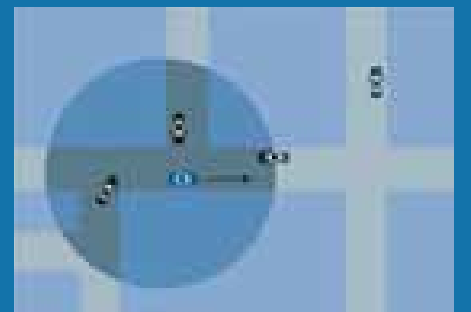
Low-pass

Active frequency crossover to control subwoofer systems, whereby the music signal is faded out above a selected frequency.

→ Sub-X-Over, Sub-Out

M

Map Matching



1. The GPS system makes the initial rough estimate of the vehicle location.



2. After just a few meters, the road the vehicle is traveling on can be identified. Any turns are recorded by the gyroscope.



3. Now the vehicle position has been determined accurately and is updated constantly, whereby the system compares all the sensor data with the information on the digital map.

Vehicle position determined by comparing GPS locating and all sensor data with the digital navigation CD

Menu

With the help of "Menu", the basic settings of the car radio or the navigation system can be adapted to vehicle specifics, individual preferences, and an eventually already existing hi-fi system.

MMC – MultimediaCard/SD – Secure Digital Card

Memory cards for multimedia data, e.g., MP3/WMA music files and navigation data.

MP3/WMA

Compression standard for music data based on the MPEG1 standard.

MP3/WMA browsing

Convenient option that lets you scroll through a list of all the MP3/WMA titles on a CD-R/CD-RW, USB stick, portable hard disk or MMC/SD card without having to interrupt the song currently playing.

MP3/WMA music on a CD-R/RW

A CD-R/RW can accommodate up to approximately 10 conventional CDs, providing that you burn the music in MP3/WMA format.

MP3/WMA music on MultimediaCard/SD-Card

Depending on storage capacity, more than 20 hours of MP3/WMA music can be stored on the MultimediaCard/SD card. It's not much bigger than a postage stamp, easy to transport and versatile to use.

Multipath interference

The radio waves emitted directly by the radio station are overlaid with reflected signals (e.g. from apartment buildings, mountains, etc.) that are received with a slight time delay. The Blaupunkt reception concepts effectively minimize or even eliminate multipath interference.

→ DDA

Music/Speech

→ RDS

N

Navigation (dynamic)

The Traffic Message Channel is a free service provided by radio stations; its traffic information is continually taken into account when computing routes. This information permits proactive, dynamic traffic jam avoidance on freeways and main national roads.

Navigation systems, "TravelPilot"

Active route guidance system for motorists using speech output and a screen/display. Route guidance is based on navigation software (CD/DVD/SD-card or preinstalled in internal memory) and navigation computer (TravelPilot). Locating via satellite (GPS), speed signal, gyroscope, and data comparison with the digital map, depending on the respective system. All TravelPilot navigation systems are suitable for use and simple installation in all classes of automobiles.

Portable Navigation Systems

Portable navigation systems can be used quickly and flexibly, whether on foot, in your car or in a rental car. Fast, inexpensive installation (no connection to the speed signal is required), ease of handling and use, and rapid guidance ensure straightforward and convenient road navigation every time, all the time.

Radio Navigation Systems

Radio Navigation Systems (1 DIN) are integrated in the car radio and are controlled via the user-friendly user interface. You receive understandable driving recommendations via the car hi-fi speakers – even while you are listening to music – thanks to the corridor function. In addition, information is provided in the form of arrow symbols or the permanent map display. The multi-standard drive plays navigation/MP3/WMA/CD-/CD-ROMs and installation is child's play thanks to optional speed signal integration. This ensures perfect integration without cable salad, adapted to your cockpit illumination.

Stand-alone navigation systems

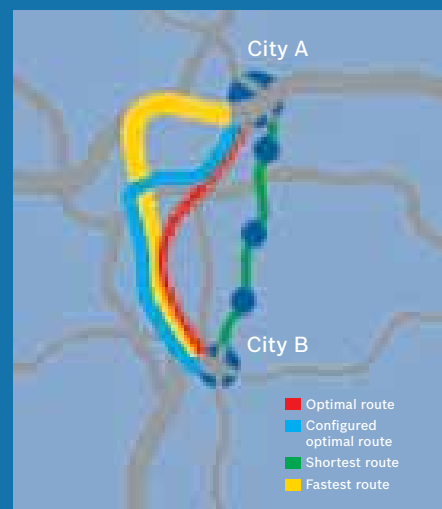
On-screen navigation systems consist of a color monitor (16:9 or 4:3) and a separate navigation unit for loading the navigation data (DVD or CD). These systems are suitable for retrofitting in all vehicle models and classes. Thanks to easy operation, fast pan-European route finding, and precise driving recommendations, drivers can navigate even more conveniently and reliably.

Neodymium tweeter

Tweeter equipped with neodymium magnets. Neodymium has much greater magnetic field strength than conventional materials and drives speakers very powerfully despite the relatively small magnets. This makes it possible to design very small tweeters, which nonetheless produce outstanding sound.

O

Optimal route



Combination of the fastest and shortest routes. The navigation system computes the optimal route between longer, faster freeway routes and shorter, slower ancillary roads. In addition, you can also increase or decrease the share (depending on the system) of faster freeway sections in the route computation.

OSD On-screen display

The settings menu shown on the screen. To adjust Blaupunkt products, it is possible to use either the remote control and/or the buttons directly on the unit to select the desired menu item and to alter the corresponding value or perform the corresponding function.

On-screen navigation

→ Navigation, stand-alone/portable navigation systems

P

Picture upload

Permits individualization of the display background of the car radio with an arbitrary picture that is transferred to the unit via an SD card or USB storage medium.

Planar Power Plant

New type of power supply design with particularly high efficiency. It uses a special transformer without any wire windings.

Plug&Play connection (amplifiers)

Makes it easy to connect an amplifier to an OE car radio using an optional vehicle-specific adapter cable. Advantage: There's no need to make any changes to the vehicle wire harness and all the cables are cut to measure.

Portable navigation

→ Navigation, portable navigation systems

Preamp-Out

Preamp output to control external amplifiers, available in either 2-channel or 4-channel versions. The standard output is 2 volts. To improve sound quality and the control of external amplifiers, the top-of-the-line car radios have a maximum output of up to 5 volts.

Preset equalizer

Equalizer settings that provide ideal frequency curves at the touch of a button for different types of music (rock, pop, jazz, techno, speech and classical).

PTY – Program Type

→ RDS

R

Radio navigation

→ Navigation, Radio Navigation Systems

RDS – Radio Data System

RDS is a service provided by radio stations. In addition to the usual music and speech programs, other information is transmitted in the form of coded digital signals that can be evaluated by the car radio. The following RDS services are currently available:

AF – Alternative Frequency:

The car radio automatically selects the frequency with the best reception for the program you are currently listening to.

EON – Enhanced Other Networks:

When a traffic announcement (TA) is broadcast, the radio will automatically switch from a station that does not transmit traffic information to one that does in the same broadcasting network.

M/S – Music/Speech:

In future, a number of radio stations will differentiate between music and speech programs. A separate tone setting (lowering bass and treble) can be selected (via DSC) for speech programs.

PI Code:

The car radio uses the PI code to identify the radio station.

PS – Program Service:

Allows the display of the station name.

PTY – Program Type:

A function that is supported by an increasing number of radio stations, whereby the car radio can search for stations broadcasting specific program contents (e.g. news, rock, pop, sport, etc.).

RT – Radiotext:

Additional information supplied by the radio station on the program (e.g. title of the program, name of the artist, etc.).

Reading angle (horizontal/vertical)

This describes the range within which the picture displayed on an LCD monitor can be easily identified. The values indicated are for the viewing angle from the side (horizontal) and a vertical (from above/from below) position (e.g. horizontal + 45 degrees/- 45 degrees).

Reinforced seam surround

Subwoofer with a max. power >1000 watts are subjected to enormous mechanical pressure. The joint between the surround and the cone in particular can tear under the strain of continuously high cone excursion. An extra seam stitched to join these two components reliably prevents damage to the speaker.

RP – Release Panel



Effective system of theft protection for car radios whereby you take part of or the entire front panel of the radio with you when you leave the vehicle. The radio will not function without the RP. While a CD can be directly inserted into the slot in a regular Release Panel, a button must first be pressed on the Flip Release Panel to open it by 90°.

S

Scan

Scans all radio stations within reception range (Radio Scan), preset station buttons (Preset Scan) or music titles (CD Scan, CC Scan).

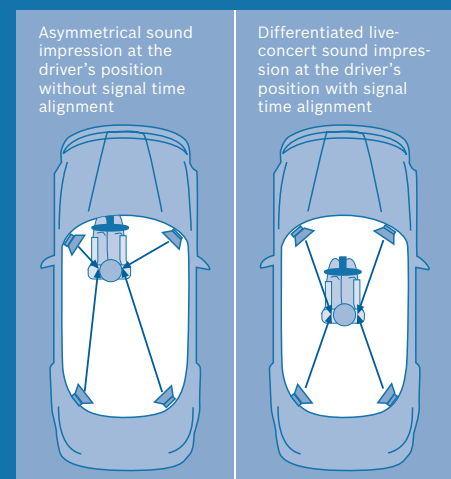
Sensitivity

Measurement for the volume of a speaker at 1 watt of input, measured at a distance of 1 meter. Sensitivity is measured in dB.

SHARX®

Digital adaptive filter designed to optimize channel separation in the receiver. Even station signals that are extremely close to one another are separated cleanly. SHARX® is part of the DigiCeiver and TwinCeiver concepts.

Signal time alignment



Electronically corrects the asymmetrical seating position in the vehicle by delaying the music channels so that the sound waves emitted by all the speakers reach the listener at the same time. The signal time for the Bremen MP76 can be adjusted right down to the last centimeter. It is possible to select different seating positions.

Silk dome tweeter

Silk dome tweeters use impregnated silk as the cone material. Silk works with virtually no annoying resonance of its own and delivers a perfectly balanced frequency response. The impregnation process gives the cone material the stability it requires to handle high power levels.

S/N – Signal/noise ratio

Maximum possible ratio of the music signal to the basic noise, measured in decibels. The higher the value, the better the quality of the equipment.

Softkeys

Keys at the side of the car radio display that are allocated different functions on the display depending on the sound source or the operating menu, e.g. tuner station keys, CD Mix, Mag Mix, Scan, AUD Bass, Treble, Balance, Fader, Equalizer etc.

Sound presets

→ Preset equalizer

Source tone memory

The settings for bass/treble can be adjusted separately for each sound source to compensate for differences in sound quality.

SPC (Spun Paper Cone) cone

The SPC cone developed by Blaupunkt is an extremely sturdy and reliable paper cone. Thanks to the unique polishing process and the mixture of nine mineral materials, the mechanical SPC cone stands apart because of its high degree of stiffness. The SPC cone is used in the GTb 1200 and GTt 1200.

Speed signal

Impulses from the electronic speedometer/odometer that are used to measure distances traveled and for GALA.

Speller, automatic

Entering destinations in Blaupunkt navigation systems is as easy as can be – you are offered only those letters that respectively make sense: Non-existent sequences of letters are simply grayed out.

Station list (dynamic)

Listing and automatic updating of all the radio stations within reception range. The advantage: you no longer need station keys and have access to all the available stations.

Sub-out

Separate preamp output with preceding low-pass.

Subsonic filter

The subsonic filter can be used with an amplifier when a subwoofer is connected. It can be set to protect the subwoofer from mechanical overload due to low frequencies that cannot be heard by the human ear. Thus, the subsonic filter is able to increase the power handling and the subjective maximum sound pressure of the subwoofer.

The subsonic filter is used in all output stages of the THA series and Velocity. A corresponding adjustable filter can be switched on in the Bremen MP76.

Subwoofer

Additional low bass speaker, which is driven by an integrated or separate amplifier with a low-pass.

Subwoofer phase

Lets you switch the phase of the subwoofer output to adjust it perfectly to the other speakers.

Subwoofer tube

A subwoofer in a round, acoustically balanced enclosure. Particularly well suited for vehicles in which the trunk is not physically separated from the passenger cabin. If maximum loading capacity is required in the trunk, simply remove the subwoofer tube from the car.

Sub X-Over

Subwoofer crossover.

- Low-pass
- High-pass

T

TA – Traffic Announcement

→ RDS

Telephone line-in

Separate Aux input to which a mobile telephone can be connected for hands-free operation. The caller's voice is heard on the car hi-fi speakers.

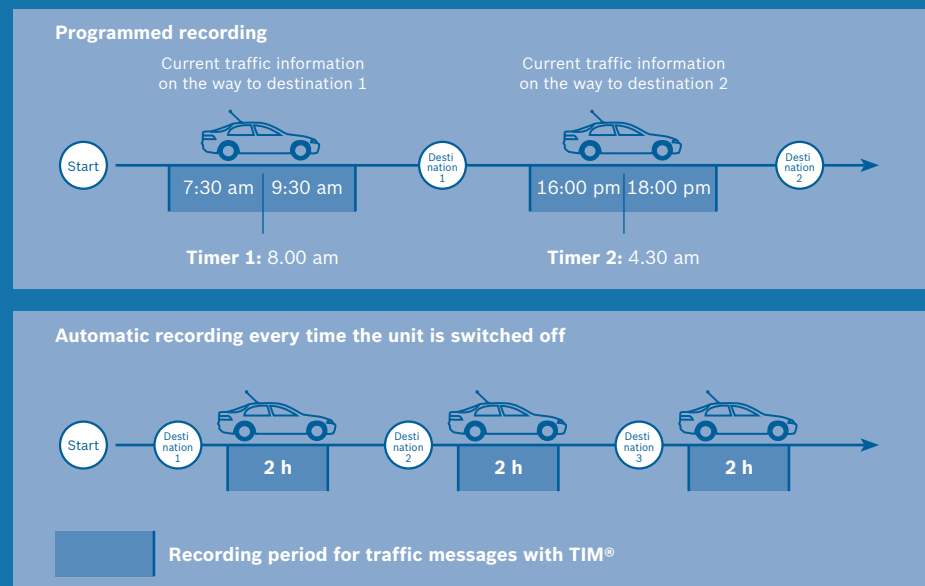
Telephone mute

The car radio automatically switches to mute as soon as an incoming telephone call is detected. Prerequisite: the corresponding pin in the connection box must be connected with the car phone or the hands-free system of the mobile phone.

Thermal Throttle

Circuit that reliably prevents amplifier shutdown due to overload. It subtly varies the voltage at the power supply to reduce heat production without discernibly changing the audio output volume, thus guaranteeing reliable performance even when operated continuously at maximum power levels.

TIM®



A system developed by Blaupunkt with a digital voice memory that can record up to 4 traffic messages with a total length of 4 minutes. The TIM® memory updates itself continually. A function that even works when the car radio is switched off in a freely selectable time frame.

TMC-Out FM

Car radios with this output are able to forward TMC data to any Blaupunkt navigation system connected for dynamic route guidance (separate connection cable required). Prerequisite: the radio must be tuned into an RDS station that transmits TMC data.

TMC – Traffic Message Channel

A digital traffic information data channel with constantly updated data on traffic conditions. TMC receivers allow the user to select data by entering such information as traveling direction, area and road class. The latest information, selected to suit the user's individual needs, is then available at the touch of a button. Likewise, the data is used for integration in the dynamic route guidance (automatic traffic jam avoidance).

Total harmonic distortion (THD)

Measurement for distortion that indicates the ratio of the sum of the powers of all the harmonic frequencies above the fundamental frequency to the power of the fundamental frequency. Rule of thumb: lower values for the same performance are usually a sign of better sound quality.

TP – Traffic Program

→ RDS

Travelstore

Search function that stores the six radio stations with the strongest reception signals sorted according to signal strength in a special memory bank at the touch of a button.

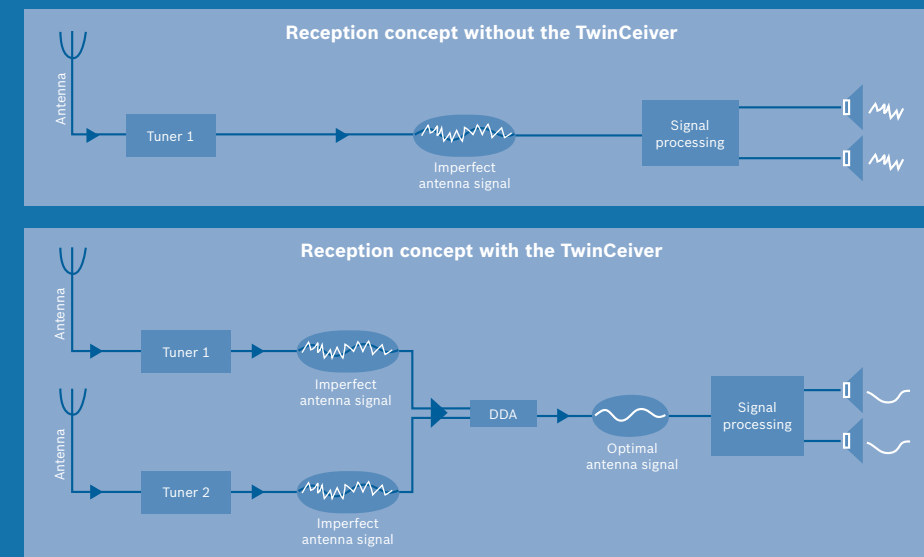
Triaxial speakers

Three-way speakers whereby the mid-range tweeter is positioned in the center of the bass speaker on one axis and the tweeter is on another axis on the side.

Triplex antenna

→ Combination antenna

TwinCeiver – digital twin tuner



Advanced development of the DigiCeiver with two receivers in one car radio.

The TwinCeiver, which boasts two DSP-based receivers, underscores Blaupunkt's outstanding position in perfect radio reception: crackling and noise due to multipath reception caused by apartment blocks in cities or mountains in the countryside now virtually belong to the past.

More distant stations, which were once well outside of the usual reception range, are now within reach as well: the TwinCeiver continuously evaluates the digitized signals from two antennas and combines them to create a strong, clear signal that is free of interference. This process, which was developed by Blaupunkt engineers, is called DDA (Digital Directional Antenna) and it mimics the reactions of an extremely quick, automatic directional antenna – similar to TV "rabbit ears" that deliver just "snow" or perfect reception depending on just a small adjustment.

If the reception is currently so good that the second antenna is not required, or if only one antenna is connected, the radio can be switched to "dynamic station lists". This means that the display will only show those stations that are actually within reception range – which saves you a lot of searching.

U

USB connection

Allows connection of external USB storage media (e.g. USB stick, USB Flash Player, portable hard disk) to the car radio. In this way, music stored there in MP3/WMA format can be selected and played back via the car radio. The media used must fulfill the USB 2.0 standard in order to ensure compatibility.

V

Video input:

Composite Video 1. 0V p-p, 75 ohms

Describes the standard and the electrical value of the signal to be connected. Composite Video corresponds to the normal TV signal, like the one emitted by DVD players, game stations or TV tuners.

W

Watts

→ Output power

WMA

Format for music data, similar to MP3. WMA permits slightly higher data compression with the same sound quality, which results in slightly lower memory requirements.

X

X-Bass

Psycho-acoustic boost of the low frequencies at low volume. For almost all the car radios – an exclusive feature for Blaupunkt car radios – there is a menu that can be used to adjust the effect of X-Bass feature to the existing car-audio system in 6 stages.

Y

Y adapter

Distribution of a 2-channel stereo signal to several different amplifiers using a Y-shaped adapter to link the cables. Using Y adapters can have an adverse effect on the fader function.



Navigation



TravelPilot M1: Navigation software for portable navigation for TravelPilot Lucca, TravelPilot Lucca MP3 and TravelPilot Lucca MP3 Edition.



TravelPilot M2: Navigation software for portable navigation for TravelPilot Lucca 3.3, TravelPilot Lucca 3.4 and TravelPilot Lucca 5.2.



TravelPilot E: Navigation software for E-navigation. Compatible with TravelPilot E1/2, TravelPilot Exact/Exact MP3, TravelPilot E Freestyler, TravelPilot Amsterdam NAV35E and TravelPilot Rome NAV55E.



TravelPilot EX: Navigation software for DVD navigation. Compatible with TravelPilot EX-V.



TravelPilot DX: Navigation software for DX navigation. Compatible with TravelPilot DX-V/DX-N/DX-R70/DX-R52/DX-R4 and TravelPilot RNS 4.



Plug 'n' Play: Effortless installation, navigation right out of the box. It is possible to switch from one vehicle to another just as quickly.



MP3: File format for storing audio signals (lossy).



Entertainment navigation: With audio, video, photo features.



Easy Installation: Easy installation of the navigation system without connection to the speed signal.



Corridor function: Storage of all relevant data along the specified route (corridor). Fully dynamic, pan-European navigation in corridor while simultaneously listening to music from CD.



TFT: Brilliant color display for optimum legibility.



Easy: Easiest operation thanks to innovative slider function for volume/zoom/scroll.



Optimum route: Optimal routing – a combination of the fastest and shortest routes: between long, fast freeway sections and shorter, slower auxiliary roads.



iPod-ready: Connection of the iPod via the car radio with optional interface.



DVD navigation: Navigation data for 27 European countries and more than one million addresses on one DVD.



Europe map: Seamless, cross-border navigation in detailed road network in Europe.



Europe Navigation: With 10 full-coverage navigation CD-ROMs.



Split screen: The screen can be split vertically – for simultaneous viewing of route map and arrow directions.



Multiple destination: Route guidance with multiple stopover destinations.



MP3/WMA from SD: Integrated SD card slot to play MP3/WMA sound files.



TMC optional: Connection of an external TMC source (TMC tuner box or Blaupunkt radio with TMC out) for dynamic route guidance that takes current traffic reports into account.



TMC traffic warning: Depiction of traffic jams and warnings – for optimal route guidance/traffic jam avoidance.



TMC integrated: Integrated TMC receiver for dynamic route guidance on basis of current traffic information.



Bluetooth-ready: Bluetooth-capable via optional interface. Compatible with corresponding mobile telephones.



Car Radio



VarioColour: Up to 4,096 display colors for optimum color adjustment to match/contrast the instrument cluster.



4-channel preamp out: To control an external amplifier (variable level/frequency).



Sub-out: For subwoofer control (variable level/frequency)



TFT: Brilliant color display for optimum legibility.



Equalizer: Adjustment of frequency bands for optimized sound.



Picture upload: Customized radio display with own photos uploaded from USB/SD card or CD.



USB: Connection of external mass storage media via integrated interface.



Aux input: Connection jack for external audio sources (e.g. MP3 player).



Front Aux input: Connection jack for external audio sources (e.g. MP3 player) on front panel.



iPod-ready: Connection of the iPod to the car radio using the optional interface.



Release Panel: Antitheft protection through removable control panel.



Full graphic: Full graphic display with convenient three-line MP3 browsing.



Bluetooth-ready: Bluetooth-capable via optional interface. Compatible with corresponding mobile telephones.



Bluetooth: Bluetooth-enabled via integrated interface. Compatible with corresponding cell phones.



DigiCeiver: Outstanding reception thanks to fast RDS digital tuner.



TwinCeiver: Digital TwinCeiver with "virtual directional antenna" DDA (Digital Directional Antenna) Reference-level reception quality.



DSAmx: Digital sound adjustment. Perfect sound at the press of a button.



DEQmax: Digital fully parametric 5-band equalizer.



DEQmaxEX: Digital, fully parametric, self-calibrating 6-band equalizer for optimal sound tuning in the vehicle.



DAB: Digital Audio Broadcast. Interference-free radio reception (digital) in CD quality in regions with DAB service.



MP3/WMA: Playback of MP3/WMA files from CD-ROM, CD-R/RW, SD/MMC, USB.



DVD video: Playback of video DVDs.



MP3/WMA from SD: Integrated SD card slot to play MP3/WMA sound files.



Video output: External monitor connection.



Digital recorder: Recording of DAB to SD/MMC.



TIM®: A digital speech memory system developed by Blaupunkt. The memory updates itself automatically even when the car radio is switched off.



Variable crossover: Infinitely variable crossover with high and low-pass filters for flexible, precise driving of the connected speakers.



Sound



Max. power: Maximum load-handling capability of the speaker or maximum output power of the amplifier.



Installation depth: Installation depth of the speaker in millimeters.



Diameter: Exterior diameter of the speaker in millimeters.



Number of channels: Specifies the amp's operating modes. A 4-channel amplifier, for example, can be operated in 3- or 2-channel mode when bridged.



2-ohm stable: The amplifier can be loaded with speaker impedances down to a minimum of 2 ohms.



High-level input: The amplifier can be connected directly to the speaker outputs of a car radio if there are not any preamp out connections.



Direct Aux input: Additional direct input for portable players and navigation systems. Ideal if the radio does not have additional inputs for external signal sources.



Variable crossover: Infinitely variable crossover with high and low-pass filters for flexible, precise driving of the connected speakers.



Easy installation: Products with this feature were developed so that they can be installed in the vehicle with minimal effort.



db/SPL: Sensitivity of the speaker at a distance of one meter with 2.83 volts input voltage.



Reference sound: This product utilizes only the finest materials for optimal sound quality.



Thermal throttle: A protective circuit that prevents amplifier shutdown due to overheating.



Remote control: Cable remote control for controlling the amplifier bass level.



Automatic on/off: The device switches on automatically when a music signal is received. The device switches itself off again automatically sixty seconds after the last signal is received.



Multi-power supply: The device can get its operating power from the vehicle battery, from the (optionally) integrated rechargeable battery to make it portable or from the power cord when used at home.



Multi-purpose use: A device marked like this is designed not only for in-vehicle use; it can also be used portably or at home.



Plug 'n' Play connectivity: Prepared for easiest connection to the car stereo via an optionally available, vehicle-specific adapter cable.



Ultra compact: Highest integration and highly efficient Class D technology reduces amplifier dimensions to a minimum without having to cut back on performance quality.



2 x 2 ohms: More flexibility for the connection configuration – the voice coils can be connected in parallel (= 1 ohm) or in series (= 4 ohms) or driven by separate amplifiers.



	Lucca 5.2	Lucca 3.4	Lucca 3.3
Destination entry			
Address/house number	+/-	+/-	+/-
Street name/street number	+/-	+/-	+/-
Postal code entry	+	+	+
Intersection entry	+	+	+
POI (name, category, place)	+	+	+
Destination entry via map	+	+	+
Navigation			
2D or 3D map view	+	+	+
Speech output	D/F/B/NL/GB/DK/ N/S/F/I/ES/P/GR/ TR/PL/US/CZ/H	D/F/B/NL/GB/DK/ N/S/F/I/ES/P/GR/ TR/PL/US/CZ/H	D/F/B/NL/GB/DK/ N/S/F/I/ES/P/GR/ TR/PL/US/CZ/H
HMI	D/F/B/NL/GB/DK/ N/S/F/I/ES/P/GR/ TR/PL/US/CZ/H	D/F/B/NL/GB/DK/ N/S/F/I/ES/P/GR/ TR/PL/US/CZ/H	D/F/B/NL/GB/DK/ N/S/F/I/ES/P/GR/ TR/PL/US/CZ/H
Announcement of street and freeway numbers	+/-	+/-	+/-
Arrow view	+	+	+
Map view	+	+	+
Automatic intersection zoom	+	+	+
Dynamic guidance	TMC integrated	TMC integrated	-
Speed warning	+	+	+
Route computation			
Short/fast route	+/-	+/-	+/-
Avoid freeways/ferries/toll roads	+/-/+	+/-/+	+/-/+
Intermediate destinations	+	> 30	> 30
Destination memory			
No. of last destinations in memory	> 100	> 30	> 30
No. of pers. addresses in memory	> 100	> 100	> 100
Map view			
City names	+	+	+
Street names	+	+	+
View trademark symbols (McDonald's, Shell, etc.)	+	+	+
Zoomed intersection view	+	+	+
Platform			
Atlas 2 dual-core processor (ARM9uP @ 300 MHz and DSP co-processor @ 200 MHz)	+	+	+
Internal 512 MB flash memory	2 GB	512 MB	512 MB
Touch-screen TFT display	4"	3.5"	3.5"
MMC/SD-card slot (128 MB - 4 GB)	+	+	+
Slider function keys	+	-	-
MP3/WMA playback	via SD card	via SD card	via SD card
View JPEG graphics files	via SD card	via SD card	via SD card
Playback of WMV video data	via SD card	-	-
Video-In (connection option for DVD player, back-up camera, gaming console, DVBT tuner)	+	-	-
General information			
View special destinations	+	+	+
Destination information menu	+	+	+
Demo route planning/simulation	+	+	+
Battery performance	Up to 5 hours	Up to 3 hours	Up to 3 hours
Operating voltage range	12 - 24 volts	12 volts	12 volts
Headphone jack	3.5 mm stereo	3.5 mm stereo	3.5 mm stereo
Suction-cup holder	+	+	+
Connect cradle	+	-	-
Charger	200 - 240 volts	-	-
Charging cable for cigarette lighter	12 - 24 volts	12 volts	12 volts
Backup DVD/short operating manual	+/-	+/-	+/-
Accessories			
RC 09 steering wheel remote control	special accessory	-	-
RC 10H handheld remote control	special accessory	-	-
VAN/SUV holder	+	+	+

For more accessories, turn to pages 12/13.



	TravelPilot Rome Europe NAV 56E	TravelPilot Amsterdam NAV 35E	TravelPilot EX-V
Navigation type			
Onboard navigation	+	+	-
Locating			
Gyroscope	+	+	+
Speed signal	+	+	+
Switchable speed signal	+	+	-
Automatic calibration via GPS	+	+	+
Destination entry			
Exact house number entry	+	+	+
Automatic speller	+	+	+
Special destinations	+	+	+
Postal code entry	+	+	+
Destination entry surroundings mode/card	+/-	+/-	+/+
Last city	+	+	+
Last city history	20	20	20
Navigation			
Speech output	CZ/DK/D/UK/ES/F/I/NL/N/P	CZ/DK/D/UK/ES/F/I/NL/N/P	D/CZ/DK/UK/USA/E/F/I/NL/P/SK
Announcement of street numbers	+	+	+
Announcement of traffic reports	+	+	+
Map display	+	+	+
MixMode (map/arrow)	-	-	-
Automatic intersection zoom	-	-	+
Arrow view	+	+/-	+
Distance bar/distance in meters	+/-	+/-	+
View street being driven on	+	+	+
View next street	+	+	+
Remaining kilometers to drive	+	+	+
Time of arrival	+	+	+
Door-to-door navigation	+	+	+
Display of nearest POIs	+	-	-
Route computation			
Fast/short/optimal route	+/-/+	+/-/+	+/-/+
Configurable optimal route	+	+	+
Avoid freeways/ferries/toll roads	+/-/+	+/-/+	+/-/+
No. of intermediate destinations	-	-	10 optional
Dynamic route guidance on freeways and main national roads/TMC route	+	+	+
Traffic jam ahead function	+	+	+
Destination memory			
Destinations in destination memory	min. 24	24	ca. 50
Last destinations	10	10	12
Save location as destination	+	+	+
Radio			
FM/MW/LW	+/-/+	+/-/+	-
Codem concept	DigiCeiver	DigiCeiver	-
Traffic Announcements (TA)	+	+	-
Optimized digital channel separation	SHARX®	SHARX®	-
Presets	30	30	-
Station naming	+	+	-
AM interference suppression	+	+	-
CD			
Audio CD/CD-ROM playback	+/-	+/-	-
CD-R/RW compatible	+/-	+/-	-
DMS (CD changer control)	+	+	-
MP3/WMA player			
MP3/WMA playback from CD-R/RW	+/-	+/-	-/-
View directories	Up to 252	Up to 252	-
View filenames	+	+	-
Convenient MP3/WMA browsing without interruption	+	+	-
View ID3-tags (V1)	Up to 32 characters	Up to 32 characters	-
Bit rate	8 - 320 Kbit	8 - 320 Kbit	-
Mix/Scan	+/-	+/-	-/-
Bluetooth			
Bluetooth-ready (via optional interface)	+	+	-
Amplifier			
Digital parametric 5-band equalizer	+	+	-
Automatic volume adjustment	+	+	-
Source-specific sound adjustment	+	+	-
Preamp-out	4-channel, 4 V	4-channel, 4 V	-
RMS power	4 x 26 watts	4 x 26 watts	-
Max. power	4 x 50 watts	4 x 50 watts	-
General Information			
TMC warning even without active guidance	+	-	-
Corridor function	+	+	-
Destination information menu	+	+	+
Traffic information menu	+	+	+
Depiction of traffic report on map (symbols)	+	+	+
Depiction of traffic reports as text information	+	+	+
Navigation CD-ROM included in package	+	+	-
Navigation DVD included in package	-	-	+
Display technology	Color TFT display	Segment dot matrix	Color TFT display
Display brightness	+	+	+
Anti-theft protection	Flip release panel/code	Flip release panel/code	Removable monitor
Telephone mute	+	+	-
Ready for telephone line-in	+	+	-
Infrared remote control (special accessory)	RC 10/RC 10H	RC 10/RC 10H	+
Dimensions (W x H x D)	180 x 51.5 x 160 mm	180 x 51.5 x 160 mm	180 x 51.5 x 160 mm (computer)



	Bremen MP76	Memphis MP66	Seattle MP57	Casablanca MP56	Hamburg MP57	Kingston MP47	Radio
+/-/+/-	+/-/+/-	+/-/+/-	+/-/+/-	+/-/+/-	+/-/+/-	+/-/+/-	FM/MW/LW/SW (band)
TwinCeiver	DigiCeiver	III+	DigiCeiver	III+	III+	III+	Codem concept
+	-	-	-	-	-	-	2-tuner RDS
RDS-EON-PTY	RDS-EON-PTY	RDS-EON-PTY	RDS-EON-PTY	RDS-EON-PTY	RDS-EON-PTY	RDS-EON-PTY	DDA (DigitalDirectionalAntenna)
+	+	-	+	-	-	-	RDS
+	-	-	-	-	-	-	Radiotext
+	+	+	+	+	+	+	TIM® (Traffic Memo)
+	+	-	+	-	-	-	Traffic Announcement (TA)
36	36	30	36	25	30	30	Optimized digital channel separation (SHARX®)
-	-	-	-	-	-	-	Station presets
20 - 16,000	20 - 16,000	35 - 16,000	20 - 16,000	35 - 16,000	35 - 16,000	35 - 16,000	Updated station list
+	+	> 30 db	+	> 30 db	> 30 db	> 30 db	FM frequency response (Hz) -3 dB
+	-	-	-	-	-	-	AM interference suppression
-	-	-	-	-	-	-	Connection option for 2nd FM antenna
-	-	-	-	-	-	-	Digital Radio
-	-	-	-	-	-	-	Reception range
-	-	-	-	-	-	-	DAB modes
-	-	-	-	-	-	-	Frequency response (Hz) -1 dB
-/-	-/-	-/-	-/-	-/-	-/-	-/-	Dynamic label (Radiotext)
-	-	-	-	-	-	-	Ensemble/Service seek tuning
-	-	-	-	-	-	-	Station presets
-	-	-	-	-	-	-	Reception of primary and secondary services
-	-	-	-	-	-	-	Program Type display (PTY)
-	-	-	-	-	-	-	Preselection options
-	-	-	-	-	-	-	Service Following (DAB/FM, Ensemble)
+	+	+	+	+	+	+	CD
15 - 20,000	15 - 20,000	15 - 20,000	15 - 20,000	15 - 20,000	15 - 20,000	15 - 20,000	CD-R/RW-compatible
+/-/+/-	+/-/+/-	+/-/+/-	+/-/+/-	+/-/+/-	+/-/+/-	+/-/+/-	Frequency response (Hz) -1 dB
+	+	+	+	+	+	+	CD Mix/Disc Naming/CD List/CD-Text
-	-	-	-	-	-	-	DMS (CD changer control)
-	-	-	-	-	-	-	DVD
-	-	-	-	-	-	-	DVD+/-R, DVD+/-RW/SVCD/VCD/JPEG
-	-	-	-	-	-	-	Dolby digital output
-	-	-	-	-	-	-	Video output
-	-	-	-	-	-	-	PAL/NTSC
+	+	-	+	-	-	-	MMC/SD
FAT 16, FAT 32	FAT 16, FAT 32	-	FAT 16, FAT 32	-	-	-	Card reader for MMC/SD
-	-	-	-	-	-	-	Formatting
CD-ROM/CD-RW/MMC/SD	CD-ROM/CD-RW/MMC/SD/USB	CD-ROM/CD-RW	CD-ROM/CD-RW/MMC/SD/USB	CD-ROM/CD-RW/USB	CD-ROM/CD-RW/USB	CD-ROM/CD-RW/USB	MP3/WMA player
CD-ROM/CD-RW/MMC/SD	CD-ROM/CD-RW/MMC/SD/USB	CD-ROM/CD-RW	CD-ROM/CD-RW/MMC/SD/USB	CD-ROM/CD-RW/USB	CD-ROM/CD-RW/USB	CD-ROM/CD-RW/USB	MP3/WMA playback on MP2 (Digital Radio) playback from WMA playback
-	-	-	-	-	-	-	Digital recorder for Digital Radio
Up to 127/+	Up to 127/+	Up to 127/+	Up to 127/+	Up to 127/+	Up to 127/+	Up to 127/+	Display of directories/file names
Up to 30 characters	Up to 30 characters	Up to 30 characters	Up to 30 characters	Up to 30 characters	Up to 30 characters	Up to 30 characters	Display of ID3 tags
8 - 320 kbit	8 - 320 kbit	8 - 320 kbit	8 - 320 kbit	8 - 320 kbit	8 - 320 kbit	8 - 320 kbit	Bit rate
+	+	+	+	+	+	+	Support of variable bit rates
-	+	-	+	+	+	+	USB
-	-	-	-	-	-	-	USB port for mass storage media
-	-	-	-	-	-	-	Bluetooth
-	-	-	-	-	-	-	Integrated Bluetooth module for wireless hands-free operation
+	+	+	+	+	+	+	Bluetooth-ready (via optional interface)
+	-	-	-	-	-	-	Amplifier
+	-	-	-	-	-	-	DSA Max (DigitalSoundAdjustment)
+	-	-	-	-	-	-	DNC (Dynamic Noise Covering)
-	+	+	+	+	+	+	Parametric equalizer
+	+	-	+	-	-	-	Digital parametric equalizer
+	-	-	-	-	-	-	Graphical equalizer
+	+	+	+	+	+	+	Self-adjusting equalizer
108	6	3	6	3	3	3	Number of bands
+	+	+	+	+	+	+	Variable EQ quality
+	-	-	-	-	-	-	Sound/hall effects
+	-	-	-	-	-	-	Signal time alignment (adjustable)
+	+	+	+	+	+	+	AutomaticSound (GALA)
+	+	+	+	+	+	+	High pass filter
+	+	+	+	+	+	+	Source tone memory
+/-	+/-	+/-	+/-	+/-	+/-	+/-	Sound presets (music/car)
-	-	-	-	-	-	-	X-Bass
+	+	+	+	+	+	+	X-bass with variable center frequency
4-channel (3 V)	4-channel (3 V)	4-channel (3 V)	4-channel (3 V)	4-channel (3 V)	4-channel (3 V)	4-channel (3 V)	Preamp-out
-	+	-	+	-	-	-	Internal power amp on/off
2	2	2	2	2	2	2	Aux input
-	+	+	+	+	+	+	Front Aux input
-/+	-/+	-/+	-/+	-/+	-/+	-/+	Sub out: fixed/var. gain/frequency
+	-	-	-	-	-	-	Center-out
-	-	-	-	-	-	-	Dual zone audio
4 x 26 watts	4 x 26 watts	4 x 18 watts	4 x 26 watts	4 x 18 watts	4 x 18 watts	4 x 18 watts	RMS power (DIN 45324) at 14.4 V
4 x 50 watts	4 x 50 watts	4 x 45 watts	4 x 50 watts	4 x 45 watts	4 x 45 watts	4 x 45 watts	Max. power
-	-	-	-	-	-	-	Miscellaneous
Full-graphic DOT	TFT	TFT	Full-graphic DOT	DOT matrix graphic-enabled	DOT, 1-line	DOT, 1-line	Display technology
-	-	-	-	-	-	-	Release panel
+	+	+	+	+	+	+	Flip release panel
+	+	-	+	-	-	-	Power panel
+	+	+	+	+	+	+	Softkey operating concept
VarioColour (4,096 colors)	Fullcolor TFT	Fullcolor TFT	VarioColour (4,096 colors)	white	VarioColour (4,096 colors)	VarioColour (4,096 colors)	Display color
Variable red/green	red	red	red	red	red	red	Keypad illumination
+	+	+	+	+	+	+	Display brightness
+	+	+	+	+	+	+	Angle
+	-	-	+	-	-	-	Variable welcome text
-	+/-	-/+	-				



	Nashville DAB35	Las Vegas DVD35	London MP37	Melbourne SD27	Sydney SD27	Canberra SD27
Radio						
FM/MW/LW/SW (band)	+/-/+/-	+/-/+/-	+/-/+/-	+/-/+/-	+/-/+/-	+/-/+/-
Codem concept	DigiCeiver	DigiCeiver	III+	III+	III+	III+
2-tuner RDS	-	-	-	-	-	-
DDA (DigitalDirectionalAntenna)	-	-	-	-	-	-
RDS	RDS-EON-PTY	RDS-EON-PTY	RDS-EON-PTY	RDS-EON-PTY	RDS-EON-PTY	RDS-EON-PTY
Radiotext	+	+	-	-	-	-
TIM® (Traffic Memo)	-	-	-	-	-	-
Traffic Announcement (TA)	+	+	+	+	+	+
Optimized digital channel separation (SHARX®)	+	+	-	-	-	-
Station presets	30	36	25	25	25	25
Updated station list	-	-	-	-	-	-
FM frequency response (Hz) -3 dB	20 - 16,000	20 - 16,000	35 - 16,000	35 - 16,000	35 - 16,000	35 - 16,000
AM interference suppression	+	+	> 30 db	> 30 db	> 30 db	> 30 db
Connection option for 2nd FM antenna	-	-	-	-	-	-
Digital Radio						
Reception range	Band III	-	-	-	-	-
DAB modes	I, II, III	-	-	-	-	-
Frequency response (Hz) -1 dB	20 - 20,000	-	-	-	-	-
Dynamic label (Radiotext)	+	-	-	-	-	-
Ensemble/Service seek tuning	+/-	-/-	-/-	-/-	-/-	-/-
Station presets	20	-	-	-	-	-
Reception of primary and secondary services	+	-	-	-	-	-
Program Type display (PTY)	+	-	-	-	-	-
Preselection options	Weather, news, traffic news	-	-	-	-	-
Service Following (DAB/FM, Ensemble)	+	-	-	-	-	-
CD						
CD-R/RW compatible	+	+	+	-	-	-
Frequency response (Hz) -1 dB	16 - 20,000	15 - 20,000	15 - 20,000	-	-	-
CD Mix/Disc Naming/CD List/CD-Text	+/-/+/-	+/-/+/-	+/-/+/-	-	-	-
DMS (CD changer control)	+	+	+	+	+	+
DVD						
DVD+/-R, DVD+/-RW/SVCD/VCD/JPEG	-	+	-	-	-	-
Dolby digital output	+	+	-	-	-	-
Video output	+	+	-	-	-	-
PAL/NTSC	-	+	-	-	-	-
MMC/SD						
Card reader for MMC/SD	+	-	-	+	+	+
Formatting	FAT 16	-	-	FAT 16, FAT 32	FAT 16, FAT 32	FAT 16, FAT 32
MP3/WMA player						
MP3/WMA playback on	CD-ROM/CD-RW/MMC/SD	DVD/CD-ROM/CD-RW	CD-ROM/CD-RW	MMC/SD	MMC/SD	MMC/SD
MP2 (Digital Radio) playback from	CD-ROM/CD-RW/MMC/SD	-	-	-	-	-
WMA playback	-	DVD/CD-ROM/CD-RW	CD-ROM/CD-RW	MMC/SD	MMC/SD	MMC/SD
Digital recorder for Digital Radio	+	-	-	-	-	-
Display of directories/file names	Up to 127/+	Up to 127/+	Up to 127/+	Up to 127/+	Up to 127/+	Up to 127/+
Display of ID3 tags	Up to 30 characters (V1)	Up to 30 characters (V1)	Up to 30 characters	Up to 30 characters	Up to 30 characters	Up to 30 characters
Bit rate	9 - 320 kbit	8 - 320 kbit	8 - 320 kbit	8 - 320 kbit	8 - 320 kbit	8 - 320 kbit
Support of variable bit rates	+	+	+	+	+	+
USB						
USB port for mass storage media	-	-	-	-	-	-
Bluetooth						
Integrated Bluetooth module for wireless hands-free operation	-	-	+	+	+	+
Bluetooth-ready (via optional interface)	+	+	+	+	+	+
Amplifier						
DSA Max (DigitalSoundAdjustment)	-	-	-	-	-	-
DNC (Dynamic Noise Covering)	-	-	+	-	-	-
Parametric equalizer	-	+	-	-	-	-
Digital parametric equalizer	+	+	-	-	-	-
Graphical equalizer	-	-	-	-	-	-
Self-adjusting equalizer	-	-	-	-	-	-
Number of bands	6	5	3	-	-	-
Variable EQ quality	+	+	-	-	-	-
Sound/hall effects	-	-	-	-	-	-
Signal time alignment (adjustable)	-	-	-	-	-	-
AutomaticSound (GALA)	+	+	-	-	-	-
High pass filter	-	-	-	-	-	-
Source tone memory	+	+	-	-	-	-
Sound presets (music/car)	+/-	+/-	+/-	+/-	+/-	+/-
X-Bass	+	+	+	+	+	+
X-bass with variable center frequency	-	-	-	-	-	-
Preamp-out	4-channel (3 V)	4-channel (3 V)	4-channel (2 V)	4-channel (2 V)	4-channel (2 V)	4-channel (2 V)
Internal power amp on/off	-	-	-	-	-	-
Aux input	2	2	2	2	2	2
Front Aux input	-	+	+	+	+	+
Sub out: fixed/var. gain/frequency	+/-/-	+/-/-	-/+	-/-/-	-/-/-	-/-/-
Center-out	-	-	-	-	-	-
Dual zone audio	-	-	-	-	-	-
RMS power (DIN 45324) at 14.4 V	5 x 26 watts	4 x 26 watts	4 x 18 watts	4 x 18 watts	4 x 18 watts	4 x 18 watts
Max. power	5 x 50 watts	4 x 50 watts	4 x 45 watts	4 x 45 watts	4 x 45 watts	4 x 45 watts
Miscellaneous						
Display technology	DOT display, 2-line	DOT display, 2-line	DOT, 1-line	DOT, 1-line	DOT, 1-line	DOT, 1-line
Release panel	-	-	-	+	+	+
Flip release panel	+	+	+	-	-	-
Power panel	-	-	-	-	-	-
Softkey operating concept	+	+	-	-	-	-
Display color	white, blue	white, blue	VarioColour (4,096 colors)	white	amber	green
Keypad illumination	red	red	red	red	red	green
Display brightness	+	+	+	-	-	-
Angle	+	+	-	-	-	-
Variable welcome text	-	-	-	-	-	-
Picture Upload (via SD/USB/CD)	-	-	-	-	-	-
Display out (via opt. interface)	-	-	-	-	-	-
Theft protection	Removable flip release panel	Removable flip release panel	Removable flip release panel	Removable release panel	Removable release panel	Removable release panel
Clock	(RDS)	(RDS)	+	+	+	+
Connections: dimmer/telephone-mute	+/-	+/-	-/+	-/+	-/+	-/+
TMC out FM/DAB	+/-	+/-	-/+	-/+	-/+	-/+
Preparation for telephone/navigation speech output	+	+	+	+	+	+
Calibration microphone included	-	-	-	-	-	-
IR remote control included	-	-	-	-	-	-
USB cable included	-	-	-	-	-	-
Preamp-Out cable included	-	-	-	-	-	-
Window antenna included	-	-	-	-	-	-
Dimensions (W x H x D) mm	179/52/161	179/52/160	179/50/150	179/50/150	179/50/150	179/50/150



	Brighton MP27	San Diego MP27	Ravenna MP27	Rimini MP27	San Remo MP26	Porto CD27	Madeira CD27
Radio							
FM/MW/LW/SW (band)	+/-/+/-	+/-/+/-	+/-/+/-	+/-/+/-	+/-/+/-	+/-/+/-	+/-/+/-
Codem concept	III+	III+	III+	III+	III+	III+	III+
2-tuner RDS	-	-	-	-	-	-	-
DDA (DigitalDirectionalAntenna)	-	-	-	-	-	-	-
RDS	RDS-EON-PTY	RDS-EON-PTY	RDS-EON-PTY	RDS-EON-PTY	RDS-EON-PTY	RDS-EON-PTY	RDS-EON-PTY
Radiotext	-	-	-	-	-	-	-
TIM® (Traffic Memo)	-	-	-	-	-	-	-
Traffic Announcement (TA)	+	+	+	+	+	+	+
Optimized digital channel separation (SHARX®)	-	-	-	-	-	-	-
Station presets	25	25	25	25	30	25	25
Updated station list	-	-	-	-	-	-	-
FM frequency response (Hz) -3 dB	35 - 16,000	35 - 16,000	35 - 16,000	35 - 16,000	35 - 16,000	35 - 16,000	35 - 16,000
AM interference suppression	> 30 db	> 30 db	> 30 db	> 30 db	> 30 db	> 30 db	> 30 db
Connection option for 2nd FM antenna	-	-	-	-	-	-	-
Digital Radio							
Reception range	-	-	-	-	-	-	-
DAB modes	-	-	-	-	-	-	-
Frequency response (Hz) -1 dB	-	-	-	-	-	-	-
Dynamic label (Radiotext)	-	-	-	-	-	-	-
Ensemble/Service seek tuning	-/-	-/-	-/-	-/-	-/-	-/-	-/-
Station presets	-	-	-	-	-	-	-
Reception of primary and secondary services	-	-	-	-	-	-	-
Program Type display (PTY)	-	-	-	-	-	-	-
Preselection options	-	-	-	-	-	-	-
Service Following (DAB/FM, Ensemble)	-	-	-	-	-	-	-
CD							
CD-R/RW compatible	+	+	+	+	+	+	+
Frequency response (Hz) -1 dB	15 - 20,000	15 - 20,000	15 - 20,000	15 - 20,000	20 Hz - 20 kHz	15 - 20,000	15 - 20,000
CD Mix/Disc Naming/CD List/CD-Text	+/-/+/-	+/-/+/-	+/-/+/-	+/-/+/-	+/-/+/-	+/-/+/-	+/-/+/-
DMS (CD changer control)	+	+	+	+	+	+	+
DVD							
DVD+/-R, DVD+/-RW/SVCD/VCD/JPEG	-	-	-	-	-	-	-
Dolby digital output	-	-	-	-	-	-	-
Video output	-	-	-	-	-	-	-
PAL/NTSC	-	-	-	-	-	-	-
MMC/SD							
Card reader for MMC/SD	-	-	-	-	-	-	-
Formatting	-	-	-	-	-	-	-
MP3/WMA player							
MP3/WMA playback on	CD-ROM/CD-RW	CD-ROM/CD-RW	CD-ROM/CD-RW	CD-ROM/CD-RW	CD-ROM/CD-RW	-	-
MP2 (Digital Radio) playback from	-	-	-	-	-	-	-
WMA playback	CD-ROM/CD-RW	CD-ROM/CD-RW	CD-ROM/CD-RW	CD-ROM/CD-RW	CD-ROM/CD-RW	-	-
Digital recorder for Digital Radio	-	-	-	-	-	-	-
Display of directories/file names	Up to 127/+	Up to 127/+	Up to 127/+	Up to 127/+	Up to 127/+	-	-
Display of ID3 tags	Up to 30 characters	Up to 30 characters	Up to 30 characters	Up to 30 characters	Up to 30 characters	-	-
Bit rate	8 - 320 kbit	8 - 320 kbit	8 - 320 kbit	8 - 320 kbit	8 - 320 kbit	-	-
Support of variable bit rates	+	+	+	+	+	-	-
USB							
USB port for mass storage media	-	-	-	-	-	-	-
Bluetooth							
Integrated Bluetooth module for wireless hands-free operation	-	-	-	-	-	-	-
Bluetooth-ready (via optional interface)	-	-	-	-	-	-	-
Amplifier							
DSA Max (DigitalSoundAdjustment)	-	-	-	-	-	-	-
DNC (Dynamic Noise Covering)	-	-	-	-	-	-	-
Parametric equalizer	-	-	-	-	-	-	-
Digital parametric equalizer	-	-	-	-	-	-	-
Graphical equalizer	-	-	-	-	-	-	-
Self-adjusting equalizer	-	-	-	-	-	-	-
Number of bands	-	-	-	-	-	-	-
Variable EQ quality	-	-	-	-	-	-	-
Sound/hall effects	-	-	-	-	-	-	-
Signal time alignment (adjustable)	-	-	-	-	-	-	-
AutomaticSound (GALA)	-	-	-	-	-	-	-
High pass filter	-	-	-	-	-	-	-
Source tone memory	-	-	-	-	-	-	-
Sound presets (music/car)	+/-	+/-	+/-	+/-	+/-	+/-	+/-
X-Bass	+	+	+	+	+	+	+
X-bass with variable center frequency	-	-	-	-	-	-	-
Preamp-out	4-channel (2 V)	4-channel (2 V)	4-channel (2 V)	4-channel (2 V)	4-channel (2 V)	4-channel (2 V)	4-channel (2 V)
Internal power amp on/off	-	-	-	-	-	-	-
Aux input	1	1	1	1	1	1	1
Front Aux input	-	-	-	-	-	-	-
Sub out: fixed/var. gain/frequency	-/-/-	-/-/-	-/-/-	-/-/-	-/-/-	-/-/-	-/-/-
Center-out	-	-	-	-	-	-	-
Dual zone audio	-	-	-	-	-	-	-
RMS power (DIN 45324) at 14.4 V	4 x 18 watts	4 x 18 watts	4 x 18 watts	4 x 18 watts	4 x 18 watts	4 x 18 watts	4 x 18 watts
Max. power	4 x 45 watts	4 x 45 watts	4 x 45 watts	4 x 45 watts	4 x 45 watts	4 x 45 watts	4 x 45 watts
Miscellaneous							
Display technology	DOT, 1-line	DOT, 1-line	DOT, 1-line	DOT, 1-line	DOT, 1-line	DOT, 1-line	DOT, 1-line
Release panel	+	+	+	+	+	+	+
Flip release panel	-	-	-	-	-	-	-
Power panel	-	-	-	-	-	-	-
Softkey operating concept	-	-	-	-	-	-	-
Display color	blue	white	green	red	white	white	green
Keypad illumination	red	red	green	red	red	red	green
Display brightness	-	-	-	-	-	-	-
Angle	-	-	-	-	-	-	-
Variable welcome text	-	-	-	-	-	-	-
Picture Upload (via SD/USB/CD)	-	-	-	-	-	-	-
Display out (via opt. interface)	-	-	-	-	-	-	-
Theft protection	Removable release panel	Removable release panel	Removable release panel	Removable release panel	Removable release panel	Removable release panel	Removable release panel
Clock	+	+	+	+	+	+	+
Connections: dimmer/telephone-mute	-/+	-/+	-/+	-/+	-/+	-/+	-/+
TMC out FM/DAB	-/-	-/-	-/-	-/-	-/-	-/-	-/-
Preparation for telephone/navigation speech output	-	-	-	-	-	-	-
Calibration microphone included	-	-	-	-	-	-	-
IR remote control included	-	-	-	-	-	-	-
USB cable included	-	-	-	-	-	-	-
Preamp-Out cable included	-	-	-	-	-	-	-
Window antenna included	-	-	-	-	-	-	-
Dimensions (W x H x D) mm	179/50/150	179/50/150	179/50/150	179/50/150	179/50/150	179/50/150	179/50/150



Vb 250 Vb 300 Vw 250 Vw 300 Vw 380

System	Subwoofer box	Subwoofer box	Subwoofer	Subwoofer	Subwoofer
Diameter (mm)	250	300	250	300	380
Rated power	200 watts	400 watts	500 watts	750 watts	1,000 watts
Peak-power handling	600 watts	1,200 watts	1,500 watts	2,250 watts	3,000 watts
Sensitivity 2.83 V/m	93 dB	94 dB	92 dB	93 dB	94 dB
Frequency range Hz	40 – 1,000 Hz	35 – 1,000 Hz	35 – 1,000 Hz	30 – 1,000 Hz	25 – 1,000 Hz
Impedance	2 x 2 ohms	2 x 2 ohms	2 x 2 ohms	2 x 2 ohms	2 x 2 ohms
Cone material	fiberglass	fiberglass	fiberglass	fiberglass	fiberglass
Installation depth (mm)	390 x 330 x 350 mm	435 x 390 x 400 mm	117 mm	138 mm	175 mm



Velocity 2Go 5

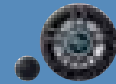
System	Portable active subwoofer/speaker	Portable active subwoofer/speaker
Diameter (mm)	2 x 130	2 x 165
Rated power	2 x 40 watts	2 x 40 watts
Peak-power handling	2 x 80 watts	2 x 80 watts
Sensitivity 2.83 V/m	Active system	Active system
Frequency range Hz	50 – 120 Hz or 50 – 25,000 Hz	40 – 120 Hz or 40 – 25,000 Hz
Impedance	-	-
Cone material	IPP/silk	IPP/silk
Installation depth (mm)	390 x 181 x 200 mm	480 x 220 x 240 mm



Velocity 2Go 6



Vc 132



Vc 172

System	2-way component	2-way component
Diameter (mm)	130	165
Rated power	80 watts	100 watts
Peak-power handling	240 watts	300 watts
Sensitivity 2.83 V/m	91 dB	92 dB
Frequency range Hz	50 – 22,000 Hz	40 – 22,000 Hz
Impedance	4 ohms	4 ohms
Cone material	fiberglass/silk	fiberglass/silk
Installation depth (mm)	53.5 mm	59.0 mm



THx 402



THx 542



THx 652



THx 662

System	2-way coaxial	2-way coaxial	2-way coaxial	2-way coaxial
Diameter (mm)	100	130	158	165
Rated power	40 watts	40 watts	50 watts	50 watts
Peak-power handling	160 watts	160 watts	200 watts	200 watts
Sensitivity 2.83 V/m	91 dB	91 dB	92 dB	92 dB
Frequency range Hz	80 – 22,000 Hz	70 – 22,000 Hz	60 – 22,000 Hz	60 – 22,000 Hz
Impedance	4 ohms	4 ohms	4 ohms	4 ohms
Cone material	Injected PP/PEI	Injected PP/PEI	Injected PP/PEI	Injected PP/PEI
Installation depth (mm)	36 mm	43 mm	46 mm	46 mm



VA 2100



VA 4100

Total output power (2 ohms)	800 watts (2-channel mode)	1,400 watts (2-channel mode)
RMS power (4 ohms)	2 x 100 watts / 1 x 300 watts	4 x 100 watts / 2 x 300 watts
Max power (4 ohms)	2 x 250 watts / 1 x 700 watts	4 x 250 watts / 2 x 700 watts
Number of channels	2/1	4/3/2
Speaker outputs	2	4
Preamp-in	Cinch, gold-plated	Cinch, gold-plated
Frequency range Hz	15 – 50,000 Hz	15 – 50,000 Hz
Stability	2 ohms	2 ohms
Signal/noise ratio	> 100 dBA	> 100 dBA
Gain adjust	0.3 – 8 volts	0.3 – 8 volts
Low pass	50 – 250 Hz	50 – 250 Hz
High pass	50 – 250 Hz	50 – 250 Hz
Accessory included	Cable remote control	Cable remote control
Dimensions W x H x D (mm)	361 x 60 x 300 mm	491 x 60 x 300 mm



THx 462



THx 572



THx 693

System	2-way coaxial	2-way coaxial	3-way triaxial
Diameter (mm)	4" x 6"	5" x 7"	6" x 9"
Rated power	40 watts	50 watts	70 watts
Peak-power handling	160 watts	200 watts	280 watts
Sensitivity 2.83 V/m	91 dB	92 dB	93 dB
Frequency range Hz	60 – 22,000 Hz	50 – 22,000 Hz	40 – 22,000 Hz
Impedance	4 ohms	4 ohms	4 ohms
Cone material	Injected PP/PEI	Injected PP/PEI	Injected PP/PEI
Installation depth (mm)	41 mm	47 mm	57 mm



	THc 542	THc 652	THc 662	THb 200 A	THb 210 A
System	2-way component	2-way component	2-way component	Active subwoofer box	Active subwoofer box
Diameter (mm)	130	158	165	200	200
Rated power	50 watts	60 watts	60 watts	70 watts	120 watts
Peak-power handling	200 watts	240 watts	240 watts	140 watts	240 watts
Sensitivity 2.83 V/m	92 dB	92 dB	92 dB	Active system	Active system
Frequency range Hz	60 – 22,000 Hz	50 – 22,000 Hz	50 – 22,000 Hz	30 – 120 Hz	20 – 120 Hz
Impedance	4 ohms	4 ohms	4 ohms	-	-
Cone material	Injected PP/PEI	Injected PP/PEI	Injected PP/PEI	Aluminum compound	SPC
Installation depth (mm)	43 mm	46 mm	46 mm	340 x 225 x 71/79 mm	340 x 225 x 161/169 mm



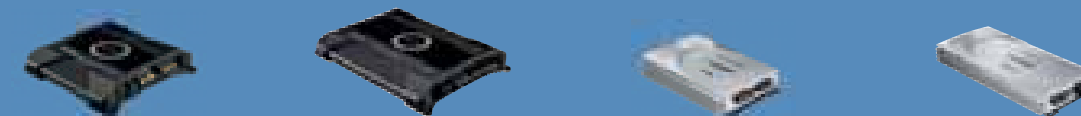
	GTx 803	GTX 462	GTX 572	GTX 693
System	3-way triaxial	2-way coaxial	2-way coaxial	3-way triaxial
Diameter (mm)	200	4" x 6"	5" x 7"	6" x 9"
Rated power	55 watts	35 watts	40 watts	55 watts
Peak-power handling	240 watts	150 watts	170 watts	240 watts
Sensitivity 2.83 V/m	92 dB	91 dB	91 dB	92 dB
Frequency range Hz	40 – 22,000 Hz	80 – 20,000 Hz	60 – 22,000 Hz	40 – 22,000 Hz
Impedance	4 ohms	4 ohms	4 ohms	4 ohms
Cone material	Injected PP/PEI	Injected PP/PEI	Injected PP/PEI	Injected PP/PEI
Installation depth (mm)	76	45	55.0	74.5



	THA 1250 PnP	THA 275 PnP	THA 475 PnP	THA 555 PnP
Total output power (2 ohms)	600 watts	400 watts	600 watts	1,000 watts
RMS power (4 ohms)	1 x 250 watts	2 x 75 watts / 1 x 190 watts	4 x 75 watts / 2 x 150 watts	4 x 55 watts + 1 x 200 watts
Max power (4 ohms)	1 x 500 watts	2 x 150 watts / 1 x 400 watts	4 x 150 watts / 2 x 300 watts	4 x 110 watts + 1 x 400 watts
Number of channels	1	2/1	4/3/2	5/4/3
Speaker outputs	1	2	4	5
Inputs	Cinch PnP input	Cinch PnP input Direct Aux input	Cinch PnP input 2 x Direct Aux input	Cinch PnP input 2 x Direct Aux input
Frequency range Hz	10 – 30,000 Hz	10 – 30,000 Hz	10 – 30,000 Hz	10 – 30,000 Hz
Stability	2 ohms	2 ohms	2 ohms	2 ohms
Signal/noise ratio	> 95 dBA	> 95 dBA	> 95 dBA	> 95 dBA
Gain adjust	0.3 – 8 volts	0.3 – 8 volts	0.3 – 8 volts	0.3 – 8 volts
Low pass	50 – 250 Hz	50 – 250 Hz	50 – 250 Hz	50 – 250 Hz
High pass/Subsonic	10 – 250 Hz	10 – 250 Hz	10 – 250 Hz	10 – 250 Hz
Accessory included	Cable remote control	-	-	Cable remote control
Dimensions W x H x D (mm)	159 x 41 x 260 mm	159 x 41 x 170 mm	159 x 41 x 285 mm	159 x 41 x 355 mm



	GTc 542	GTc 652	GTc 662	GTw 1000	GTw 1200	GTt 1200	GTb 1200
System	2-way component	2-way component	2-way component	Subwoofer	Subwoofer	Subwoofer tube	Subwoofer box
Diameter (mm)	130	158	165	250	300	300	300
Rated power	45 watts	50 watts	50 watts	200 watts	200 watts	200 watts	250 watts
Peak-power handling	180 watts	210 watts	210 watts	600 watts	600 watts	600 watts	750 watts
Sensitivity 2.83 V/m	91 dB	91 dB	91 dB	91 dB	92 dB	91 dB	91 dB
Frequency range Hz	60 – 22,000 Hz	50 – 22,000 Hz	50 – 22,000 Hz	35 – 1,000 Hz	30 – 1,000 Hz	35 – 500 Hz	35 – 500 Hz
Impedance	4 ohms	4 ohms	4 ohms	4 ohms	4 ohms	4 ohms	4 ohms
Cone material	Injected PP/PEI	Injected PP/PEI	Injected PP/PEI	Injected PP	Injected PP	Spun Paper	Spun Paper
Installation depth (mm)	48	53	56	125	139	484 mm x 328 mm Ø	432 x 387 x 378 mm



	GTA 280	GTA 480	GTA 2 Special Mk II	GTA 4 Special Mk II
Total output power (2 ohms)	425 watts (2-channel mode)	850 watts (4-channel mode)	400 watts (2-channel mode)	800 watts (4-channel mode)
RMS power (4 ohms)	2 x 75 watts / 1 x 210 watts	4 x 75 watts / 2 x 210 watts	2 x 60 watts / 1 x 180 watts	4 x 60 watts / 2 x 180 watts
Max power (4 ohms)	2 x 160 watts / 1 x 425 watts	4 x 160 watts / 2 x 425 watts	2 x 120 watts / 1 x 400 watts	4 x 120 watts / 2 x 400 watts
Number of channels	2/1	4/3/2	2/1	4/3/2
Speaker outputs	2	4	2	4
Inputs	Cinch, gold-plated High-level Direct Aux input	Cinch, gold-plated High-level Direct Aux input	Cinch	Cinch
Frequency range Hz	10 – 35,000 Hz	10 – 35,000 Hz	10 – 30,000 Hz	10 – 30,000 Hz
Stability	2 ohms	2 ohms	2 ohms	2 ohms
Signal/noise ratio	> 95 dBA	> 95 dBA	> 90 dBA	> 90 dBA
Gain adjust	0.3 – 8 volts	0.3 – 8 volts	0.3 – 8 volts	0.3 – 8 volts
Low pass	50 – 250 Hz	50 – 250 Hz	50 – 250 Hz	50 – 250 Hz
High pass	50 – 250 Hz	50 – 250 Hz	80 Hz	80 Hz
Dimensions W x H x D (mm)	262 x 53 x 268 mm	352 x 53 x 268 mm	190 x 49 x 296 mm	190 x 49 x 426 mm



	GTx 352	GTx 402	GTx 542	GTx 652	GTx 662	GTx 663
System	2-way coaxial	2-way coaxial	2-way coaxial	2-way coaxial	2-way coaxial	3-way triaxial
Diameter (mm)	87	100	130	158	165	165
Rated power	25 watts	30 watts	40 watts	45 watts	45 watts	50 watts
Peak-power handling	110 watts	130 watts	170 watts	190 watts	190 watts	210 watts
Sensitivity 2.83 V/m	90 dB	90 dB	91 dB	92 dB	92 dB	93 dB
Frequency range Hz	90 – 20,000 Hz	90 – 20,000 Hz	70 – 20,000 Hz	60 – 22,000 Hz	60 – 22,000 Hz	40 – 22,000 Hz
Impedance	4 ohms	4 ohms	4 ohms	4 ohms	4 ohms	4 ohms
Cone material	Injected PP/PEI	Injected PP/PEI	Injected PP/PEI	Injected PP/PEI	Injected PP/PEI	Injected PP/PEI
Installation depth (mm)	37.0	39.4	48	53	56	56

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