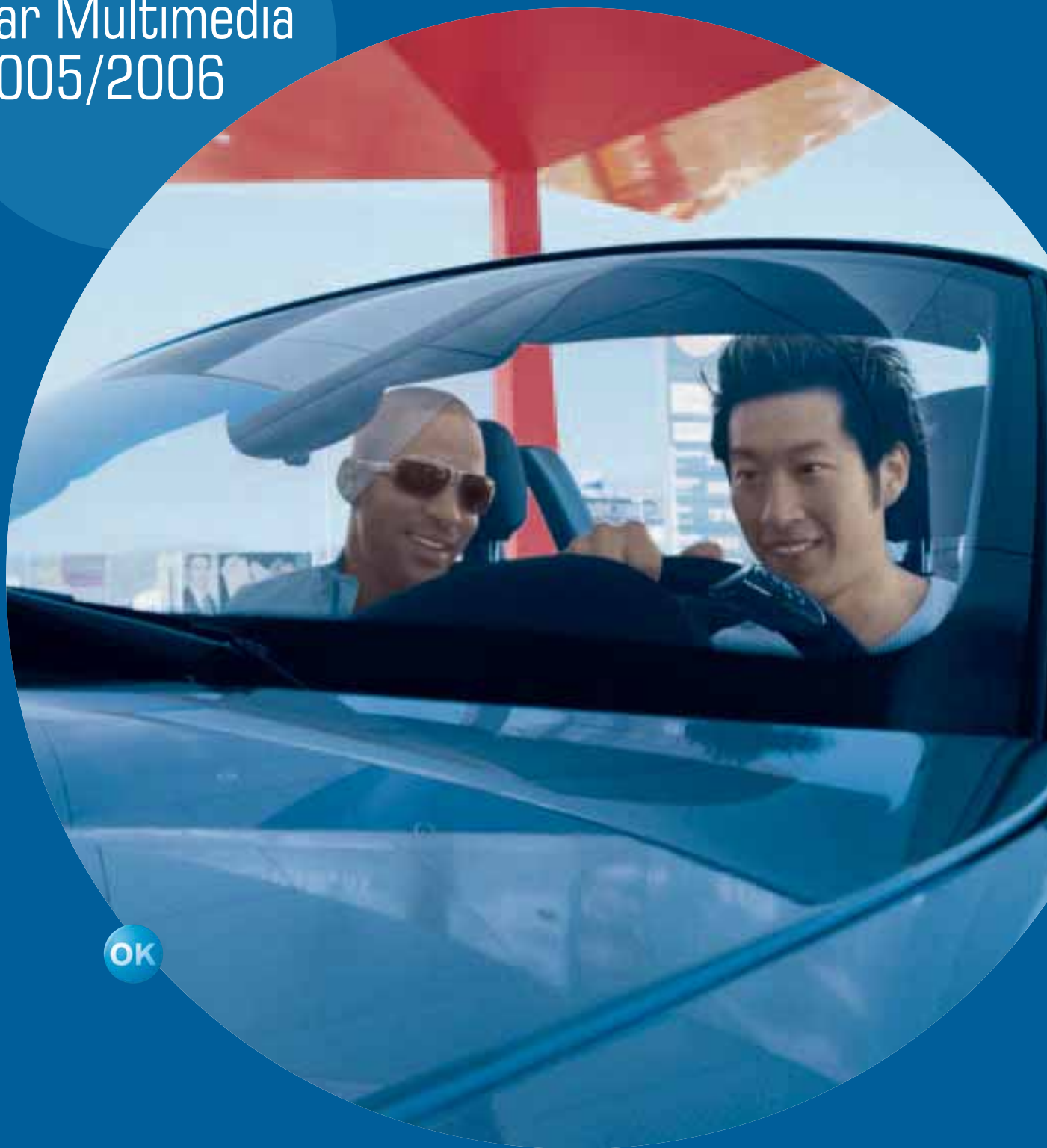


Car Multimedia 2005/2006



OK

 **BLAUPUNKT**

The advantage in your car.



ADAC **reicht weit**
Blaupunkt TransPilot DE 4
empfehlenswert
ADAC Test: Navigationsgeräte
und Zubehör

autohifi **TESTSIEGER**
Spezialklasse
Preis/Leistung: *****

CAR, HIFI **17**
Acapulco MP5
Oberklasse
Preis/Leistung: sehr gut

CHIP
sehr gut

autohifi Seattle MP74
Ausgabe 5/2004
Absolute
Spezialklasse **72**
Preis/Leistung: *****

connect
TESTSIEGER

autohifi
Absolute
Spezialklasse
Kaufpreis: *****

autohifi connect
GUT

autohifi Velocity VPC 172
Ausgabe 5/2004
Testsieger **69**
Preis/Leistung: *****

STIEFUNG
WARRENBÜB
GUT
Ausgabe 02/02
11 Navigationsgeräte
01/02 **Good**



Each new win raises the bar: for you as well as for us. We are well aware of this, not only because we have come out winning the tests conducted by trade magazines time and again, but because we are also an official sponsor of the German Touring Car Masters. And we always use the experience we gain in our pioneering technological advances to make you a winner, too. Take radio reception in CD quality, for example. Traffic congestion avoidance thanks to proactive navigation. Travel entertainment and sound experience customised to meet your specific needs. Our drive for perfection is reflected in all Blaupunkt's products. And that makes everyone a winner.

It's not whether you win or lose, it's how you play the game. As long as you're one of the winners.

You'll find out what your advantage in the car is when you take a look towards the bottom of this page. From the very first car radio to the first radio-based navigation system with the "optimal route" function, we can look back proudly on a long list of innovative accomplishments. And if you now take a look to the right, you'll see the innovations you have to look forward to. Whether it's sound or entertainment, radio or a navigation system, mobile communications or information: with Blaupunkt, you'll always be right out in front.

1932 – the first car radio. **1957** – the first transistor radio. **1969** – the first stereo radio. **1974** – ARI. **1982** – the first turn-by-turn route guidance system. **1983** – the first CD player. **1988** – the first RDS radio. **1989** – the first European navigation system. **1991** – TIM: Traffic Information Memory. **1994** – DSA: Digital Signal Adaptation. **1996** – the first fully digital radio. **1997** – the first TMC radio. Digital Radio/DMB. **1998** – traffic telematics. **1999** – the first proactive, dynamic navigation system. **2001** – the first digital radio with MP3 and MMC. The first MP3 unit with 1 GB. The first WAP-enabled off-board navigation system incl. sound and telephone. **2002** – the TwinCeiver. **2003** – digital recording function. **2004** – the first dynamic, proactive navigation system with "optimal route" and CD sound at the same time. Ultra-flat speakers with front neodymium magnets.

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More fun with mobile entertainment



MP3 and CD Tuners

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More enjoyment with multimedia



Navigation

Chicago IVDN-7003
 Aspen IVDN-7003

Multimedia

Chicago IVDM-7003
 Aspen IVDM-7003

DVD

DVD ME4

TV Tuner and Signal Controller

IVTV-03, IVSC-5502, IVSC-3302,
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More fascination with technology and design



Navigation

TravelPilot E **EXACT** MP35
 TravelPilot E **EXACT**

MP3 Tuners, Digital Radios

Bremen MP74
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Basic | 42 – 45

More features at the entry level



MP3, CD and Cassette Tuners

Essen MP35
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Navigation

TravelPilot DX-V
 Chicago IVDN-7003
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Digital Radios, MP3 Tuners

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More enthusiasm for great sound



Amplifiers | Subwoofers | Speakers

Velocity-Series
 OD-Series
 TH-Series
 GT-Series



Good music demands good sound. And that always goes hand-in-hand with the best possible reception. Brilliant sound and rich volume. Perfectly matched components. And that means technology that is – and stays – state-of-the-art. And then there's individual sound configuration. And it's all Blaupunkt.

Fun – Are you in the market for an attractive, new passenger in your vehicle?

MP3 and CD Tuners.

Bremen MP74



DSAmix

DDA

TIM

TwinCeiver



The **TwinCeiver** Bremen MP74, a digital twin receiver with a **Digital Directional Antenna (DDA)**, is clearly the top choice for individualists with the most exacting demands on sound and tuner performance. It is equipped with a **four-channel, self-adjusting equalizer with a total of 108 bands** and delivers

richly detailed, differentiated, well-balanced sound. It is also possible to adjust all 108 bands on your PC – to reflect your own personal tastes and to accommodate the conditions in your specific vehicle interior. Experience listening pleasure in a new dimension.



Seattle MP74



DigiCeiver

DEQmaxEX



PC connectivity

The Seattle MP74 with the Digital **DigiCeiver** is equipped with a **DEQmaxEX** equalizer with a self-adjusting function that enables it to determine perfect sound all on its own. Thanks to the digital, self-adjusting parametric 5-band equalizer, you'll

enjoy differentiated range of sound that can be individually adjusted to accommodate the vehicle acoustics. You can also choose from three key variocolor illuminations; green, red and amber, which make the Seattle look perfect in your dashboard.

Acapulco MP54



DEQmaxEX

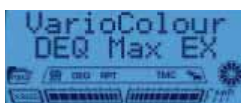


DigiCeiver

PC connectivity

The Acapulco MP54 with an MP3-enabled CD drive and **DEQmaxEX**, a digital, fully parametric, self-adjusting 5-band equalizer, is state-of-the-art in terms of technology as well as looks. Real sound freaks can now use the **PC connection** to

adjust all the sound parameters on their PCs and the **VarioColour** display is a delight to the eyes. You can select exactly the display colour you want from more than 4,000 shades.



MP3 and CD Tuners.

Nowadays, it's hard to imagine in-vehicle sound without MP3 sound files. The advantages are obvious: not only is there a diverse range of storage media, you've got a choice of different playback devices as well. The most important argument in favour of this technology, however, is the compression standard used for music files, based on the MPEG1 standard –

which gives you hours of music listening enjoyment. And a new interface also makes it possible to connect an iPod, the mobile MP3 player from Apple®. The unique VarioColour feature also offers a great deal of flexibility in looks: 4,096 different shades of colour enable you to match up the radio perfectly to virtually any vehicle dashboard.

Calgary MP35



4x45 W



Barcelona MP35



London MP35



Kingston MP35



MP3 Tuners.

Madrid MP35



San Diego MP35



4x45 W



CD Tuners.

CD tuners from Blaupunkt exhibit convincing technology with their high-quality, shock and shake-proof CD drives, easy operation and high functionality. The **Sound Preset** feature, for example, lets you set the ideal frequency response for different

types of music (rock, pop and classical) at the touch of a button. The convenient **4-channel preamp out** provides reliable control for external amplifiers and different connection options make it possible to add to your music system.

Vancouver CD35



Sound Presets



4-Channel Preamp-out



Aux-in

Bristol CD35



Sound Presets



4-Channel Preamp-out



Aux-in



We just keep raising the bar, for sound as well as for navigation. And our claim to the technical sophistication of our products is also reflected in their modern, ergonomic design. Advances that we prove time and again with Digital Radio, MP3 playback or the TwinCeiver. With Blaupunkt, you experience the best ever Car Multimedia. With all your senses.

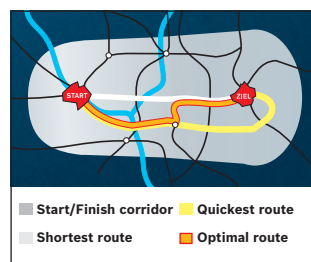
Performance –
See it with your
own two ears.

Get to your destination quicker and more conveniently than ever before.

Precise, reliable route guidance with traffic congestion ahead avoidance is good. Individual navigation – with a setting option to combine the quickest and the shortest route – is better.

And being able to listen to music at the same time – CD or MP3 – means technology of the finest.

TravelPilot E EXACT[™]MP3



TravelPilot E



dynamic corridor function

Europa navi

Optimal Route

The TravelPilot E EXACT[™]MP3, the TravelPilot E EXACT[™]'s big brother, is equipped to perfection in terms of technology as well as looks. Enjoy MP3 sound or your favourite CD, while you take advantage of the **dynamic corridor function** to get wherever you're going on the **optimal route** without a traffic jam in sight. Thanks to house number interpolation, the TravelPilot E EXACT[™]MP3 not only finds the best way to the street

you're looking for, it takes you directly to the front door. Just insert the **Europe navi CD** to get you to virtually any destination in Europe. Precise navigation with optional speed signal hook-up (**easy to install**). Easy installation in just three steps: remove the old system – connect the new one and attach the GPS antenna – slide the Travel-Pilot E EXACT[™]MP3 right in. You're done!



Display illumination in white
Key pad illumination in white



Display illumination in blue
Key pad illumination in red



Display illumination in white
Key pad illumination in red

TravelPilot E **EXACT**



TravelPilot E



dynamic 
corridor function

Europa  navi

**Optimal
Route**

The TravelPilot E **EXACT** has been making it easy to go into the navigation mode since 2004. Thanks to a new chip concept, this navigation system is excellent value for money. The TravelPilot E **EXACT** started off as the first radio-based navigation system with **optimal route** guidance (combination of quickest and shortest route) and a **dynamic corridor function**.

And while you are listening to your favourite CD, the TravelPilot E **EXACT** gets you to your destination, quickly and reliably. The TravelPilot E **EXACT** is also able to boast easy installation in just three steps thanks to the optional speed signal hook-up.



Features based on the Germany CD:

- Detailed road network in Germany
- Major connecting roads in: France, Belgium, the Netherlands, Luxembourg, Italy, Great Britain, Ireland, Austria, Switzerland, Portugal, Spain, Norway, Sweden, Denmark, Finland, Andorra, Liechtenstein, San Marino, Vatican City and Monaco
- Dynamic navigation in Germany, Austria, Belgium, Denmark, France, Italy, the Netherlands, Sweden, Switzerland and Spain
- Destination input in Germany via postal codes (complete coverage in Germany)
- More than 260,000 Points of Interest, such as airports, motorways, border crossings, city centres and petrol stations right on up to fast-food restaurants and much more
- Compatible with the TravelPilot E **EXACT**, TravelPilot E **EXACT**MP5

Other CDs including Major Roads:

Benelux E 2005, Germany E 2005, France E 2005 (incl. Monaco), Great Britain/Ireland E 2005, Italy E 2005 (incl. San Marino and Vatican City), Austria/Switzerland E 2005 (incl. Liechtenstein), Poland (from summer 2005), Czech Republic E 2005, Portugal/Spain E 2005 (incl. Andorra), Scandinavia E 2005 (incl. Denmark, Sweden, Norway and Finland)

Two of a kind.

The Blaupunkt Bremen MP74 is the first car radio to have made it to "autohifi" magazine's reference class, a prestigious award given by Europe's well respected Car hifi magazine. Thanks to a self-adjusting equalizer (**DSA Max**) with 108 bands, which can also be adjusted individually, you'll experience optimal sound at the touch of a button. And we even added an interface (**PC connection**) to connect the car radio with a PC so that you

can display all the sound settings conveniently on a large screen while you adjust them in real time. A **TwinCeiver** equipped with two DSP-based receivers puts the finishing touch on perfect radio reception. The **TIM** speech memory makes it possible to store traffic messages lasting a total of four minutes, and, last but not least, the high-resolution full-graphic display with **VarioColour** makes for a fantastic all-round package.

Bremen MP74



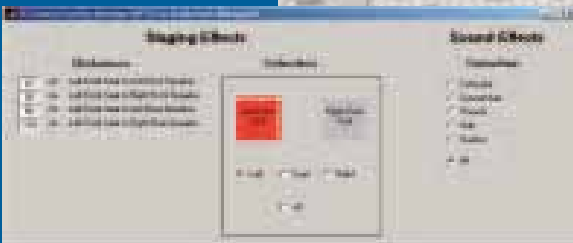
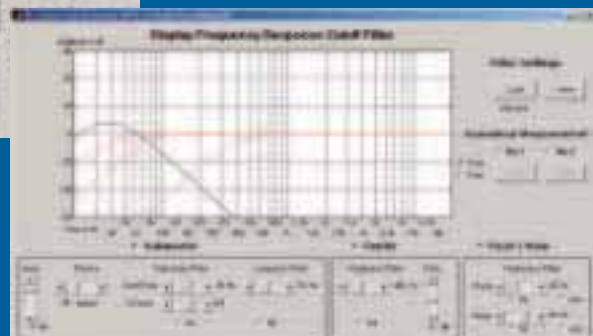
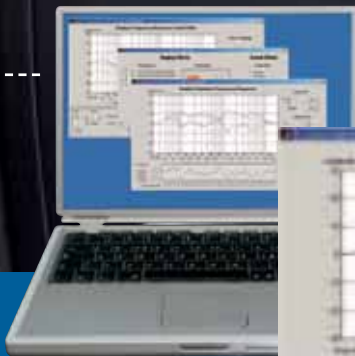
DSAm_{ax}

DDA

TIM

TwinCeiver

PC connectivity



Acapulco MP54



DEQmaxEX



DigiCeiver

PC connectivity

The automatic **DEQmaxEX** self-adjusting equalizer is the heart of the Acapulco MP54 **DigiCeiver**. It can optimize the system's sound at the touch of a button. Or use the PC connection to fine-tune the system's sound performance on your computer

yourself. This car radio sports a very elegant look, featuring a VarioColour display. Select your favourites from among 4,096 colours and 16 coloured night design shades.



Digital Radio – the future on board.

Woodstock DAB 54



DigiCeiver

**DIGITAL
RECORDER**

DEQmaxEX

The Woodstock DAB 54 **digital radio** features a professional design with a high-resolution full-graphic display and sophisticated technology. Interference-free listening pleasure in CD quality is guaranteed by digital reception on the **DigiCeiver**. A one-of-a-kind **digital recorder** lets you record your favourite

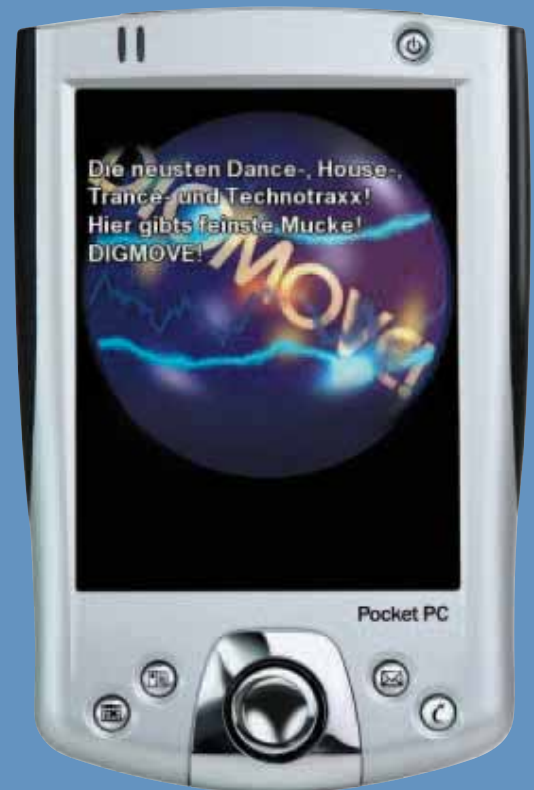
song on an SD/MMC card even when you're already on the road. And don't fret if you missed the first few seconds – thanks to Blaupunkt technology, your recording will be complete from start to finish every time.



PDA

Use your Personal Digital Assistant (PDA) in combination with Digital Radio to take advantage of a wide variety of services. Bluetooth technology and an optional interface connect your PDA with the digital radio. And you can download the DAB browser from the Blaupunkt website free of charge.

For more information, go to www.digitalradio.de



Services

With Digital Radio, you can now display additional information visually. Information on the radio programme that is automatically broadcast with the radio signal, for example, can be shown in a display. This service can be specifically related to

the current programme (e. g. song title, artist and CD cover for title currently played) or completely independent of it (e. g. news, weather, traffic, timetables, stock market information, tips).



You'll always know where you are going with navigation systems from Blaupunkt. Proactive. Dynamic. Quick and precise. Simply bypass any traffic congestion ahead as easily as you insert a CD. And if you like, you can let your feelings be your guide. As far as the music is concerned, that is. After all, this is where you're in complete control – with top class sound, easy handling and future proof technology. In short: Blaupunkt keeps you heading in the right direction.

Business –
Even leaders sometimes
need a little guidance.

In full view: Navigation.

TravelPilot DX-V



TravelPilot DX



Precise route guidance

splitscreen



TRAFFIC MESSAGE CHANNEL

Hand-held remote control included



Steering wheel remote control optional



The **TravelPilot DX-V** high-end navigation system with an infra-red remote control system and wide screen monitor puts on a convincing show in its clear-cut design and 16:9 format. Proactive navigation with dynamic route guidance and traffic

congestion avoidance via **TMC** keeps you fully informed all the time. Detailed map displays with different views and a **split screen** show you everything you need to know at a glance.



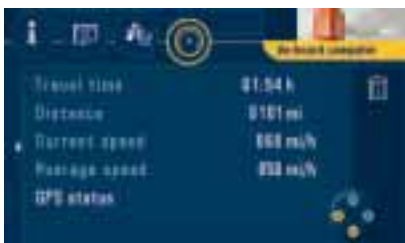
Perfect input with the help of the Operating Assistant.



Select between the arrow or map display or use both at once.



Traffic congestion is automatically taken into consideration in route guidance.



The on-board computer shows you such details as average speed or driving time any time you want.



You'll always know exactly where to find the next hotel, restaurant or petrol station.



Decide for yourself whether or not to avoid motorways, toll roads or ferries.

Chicago IVDN-7003



The addition of the TravelPilot DX-V navigation computer transforms the Chicago IVDN-7003 into a convenient navigation package. The different displays on the easy-to-read 7" monitor help you to get where you're going, quickly and directly.

TravelPilot DX

Aspen IVDN-7003



In combination with the TravelPilot DX-V navigation computer, the Aspen IVDN-7003 also turns out as a full-fledged multi-media navigation system with an easy-to-follow route and map display.

TravelPilot DX



DX-TravelGuide CDs with travel-guide function:

Michelin

- Benelux
- France
- Germany
- Great Britain
- Spain/Portugal

De Agostini

- Italy

MERIAN scout

- Alps
- France
- Germany
- Germany Executive
- Germany Sport & Leisure Time
- Italy

TravelGuide information on:

- Hotels
- Restaurants
- Petrol stations
- Points of interest
- Car parks
- Banks
- Hospitals
- Distance indicator
- Credit cards accepted
- Operas
- Museums
- Bars
- Post offices
- Police
- Airports
- Concert halls
- Tennis courts
- Adventure/ amusement parks
- Trade shows

For Business as Usual.

Blaupunkt sets new standards in terms of speed and precision in the business segment. Anyone travelling on business needs information, up-to-date and easy-to-access. And the same high demands are made of entertainment quality. Much of our equipment meets the highest business standards: with its

revolutionary **DigiCeiver** concept, Blaupunkt offers unparalleled FM reception quality in your car. And the Woodstock DAB 54 is already equipped with the reception standard of the future – **Digital Radio**. Thanks to the **digital recorder**, you can even record music on a SD/MMC card from DAB while you're on the

Woodstock DAB 54

Bluetooth technology makes it possible to connect your PDA (Personal Digital Assistant) to the Woodstock DAB 54. A DAB browser for the PDA can be downloaded from the Blaupunkt website free of charge.



DigiCeiver

**DIGITAL
RECORDER**

4x50 W



road. From start to finish – even if you missed the first few seconds. As another extra feature, you can also connect a Personal Digital Assistant (PDA) with a touch screen and Windows CE operating system. With Bluetooth technology and an optional interface, it can be connected with your

Woodstock DAB 54 to keep you right up to date wherever and whenever. A DAB browser for your PDA can be downloaded from the Blaupunkt website free of charge.



20.2.2005 11:03
Blitzer
 A2 Richtung Berlin - Höhe Hainderwald
 B133 in Zwickau Stg. Bismarck
 in Naumburg-Hennig Stg. Freyburg
 B189 Höhe Tangerhütte Stg. Magdeburg
 B71 Stg. Schau, zwischen Bockel und
 Hennigshausen
 in Weißenfels, Söfner Straße
 in Dessau, Finkenstraße
 B100 zwischen Halle-Pöhlitz und
 Hohenstein

20.2.2005 11:03
Blitzer
 A2 Richtung Berlin - Höhe Hainderwald
 B133 in Zwickau Stg. Bismarck
 in Naumburg-Hennig Stg. Freyburg
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 in Weißenfels, Söfner Straße
 in Dessau, Finkenstraße
 B100 zwischen Halle-Pöhlitz und
 Hohenstein

A Perfect Combination of Style and Technology.

With its high-resolution full-graphic display, the Los Angeles MP74 offers you all the information you need at a glance. The tuner with an MP3-enabled CD drive exhibits outstanding sound characteristics and enhanced reception thanks to unique **DigiCeiver** technology. The digital, self-adjusting, fully parametric **DEQmaxEX** 5-band equalizer determines the

optimal sound for your vehicle on its own. The flip-release panel is motorised. And thanks to VarioColour, you have more than 4,000 colours to choose from to match your display background colour to the dashboard in your vehicle. The steering-wheel remote control comes as standard, it's easy to use without distracting you from the traffic situation.

Los Angeles MP74



DigiCeiver



DEQmaxEX



PC connectivity

VarioColour

You decide what colour the display of your Los Angeles MP74 should have. Car radios equipped with VarioColour offer you a selection of 4,096 different shades and a colour scan function

at the touch of a button for a wide variety of design options – either matching your instrument cluster or just for fun.



With the digital **DEQmaxEX** equalizer, the Seattle MP74 features an automatic self-adjusting function to optimize the sound in your vehicle at the touch of a button. The steering-wheel remote control unit is easy to use without distracting you from

the traffic situation. The Seattle MP74 **DigiCeiver** with an **MP3**-enabled CD drive and ergonomic design with a classic black front panel combines technical sophistication with elegant looks.

Seattle MP74



DigiCeiver



4x50 W

DEQmaxEX



Blaupunkt Car Multimedia opens up a new world of information and entertainment – one that you can customise to your own personal tastes. Put together your own individual package by selecting from the different products: music and navigation for the driver and front-seat passenger, for example, and DVD or TV systems for the back seats. With In Car Entertainment, you have so many options to choose from. But the name is always the same: Blaupunkt.

In Car Entertainment –
Your car key is your
admission ticket to the
movies.

A Perfect Combination of Style and Technology.

Chicago IVDM-7003



This **DVD** player with a power 7" TFT touch panel for particularly easy operation forms the basis of a complete entertainment and information system, featuring an RDS tuner, two additional AV outputs to connect such auxiliary sources as a navigation

computer, back-up camera, etc. and two AV output jacks to connect additional monitors. And there's also an integrated **surround decoder** to provide for the best in listening pleasure on the road.

Chicago IVDN-7003



The **TravelPilot DX-V** navigation computer transforms the Chicago IVDM-7003 into a convenient navigation package. The

different displays available on the easy-to-read 7" monitor help you to get where you're going quickly and directly.

Aspen IVDM-7003



4x45 W



Touchscreen



The aspen IVDM-7003 opens the door for you into the world of automotive multimedia. It is equipped with convenient system operation via a 7" TFT touch-panel monitor, a DVD player, an

RDS tuner and the option of connecting two auxiliary sources and monitors.

Aspen IVDN-7003



TravelPilot DX



4x45 W



In combination with the **TravelPilot DX-V** navigation computer, the Aspen IVDM-7003 also becomes a full-fledged multimedia

navigation system with easy-to-understand route and map displays.

We offer the best in entertainment.

DVD ME4



Whether it's your favourite film or just music: the DVD ME4 makes both possible. It plays not only your **DVDs** and **CDs**, it can also handle **MP3** or **DivX** files. The connection of a Blaupunkt monitor provides rear-seat passengers in particular

with relaxing entertainment options on the road. And cinch input jacks make it possible to connect a digital camera or a gaming console.

You and your passengers all have different ideas about what good entertainment really is: your son wants to play a video game, while your daughter wants to watch her favourite DVD, and you want to listen to a CD. The switching control centre

in the Blaupunkt In Car Entertainment program, the signal controllers, allow you to use up to four different sources at the same time. And if your partner wants to watch TV as well, all you need is the IVTV-03 TV tuner.

IVTV-03



IVSC-5502



IVSC-3302



IVSC-1102



Perfect cinema feeling.

IVMS-5802



16:9

5.8"

They offer unlimited viewing enjoyment and transform your vehicle into a cinema on wheels to provide you with exactly the entertainment you want. This makes every trip, no matter how long it may be, a pleasure. The outstanding picture quality

of the TFT-Matrix LCD completes that perfect cinema feeling. The monitors can be operated either directly on the sets or conveniently by remote control.

IVMS-6502



16:9

6.5"

It's all in how you look at it.

IVMR-7002



Suspended conveniently from the roof interior, Blaupunkt roof monitors in different screen sizes offer the best in viewing pleasure. And when the film is over, they simply fold back up out of the way.

4:3

16:9

7"

IVMR-9002



4:3

16:9

9"

IVMR-1042

4:3

10.4"



IVMR-1542

16:9

4:3

15.4"

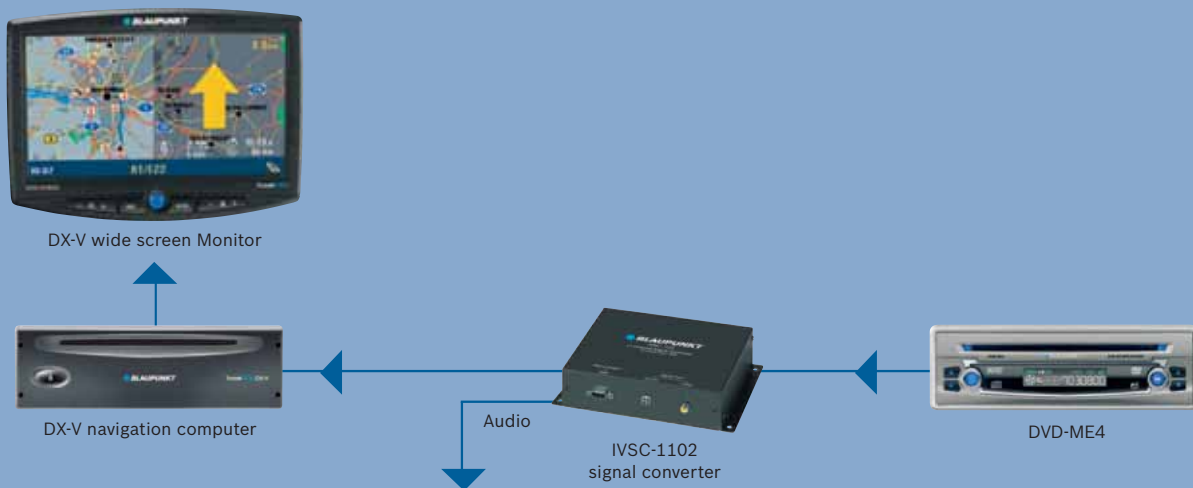


Customised Car Entertainment.

Blaupunkt In Car Entertainment products make it possible to put together the best combinations to satisfy a wide variety of different requirements. From simply extending an existing

navigation system right on up to creating a complex multimedia system: the components on offer leave nothing more to be desired.

Stand-alone navigation and source (e.g. here with DVD)



Optional



Flip-out monitor, navigation and TV tuner

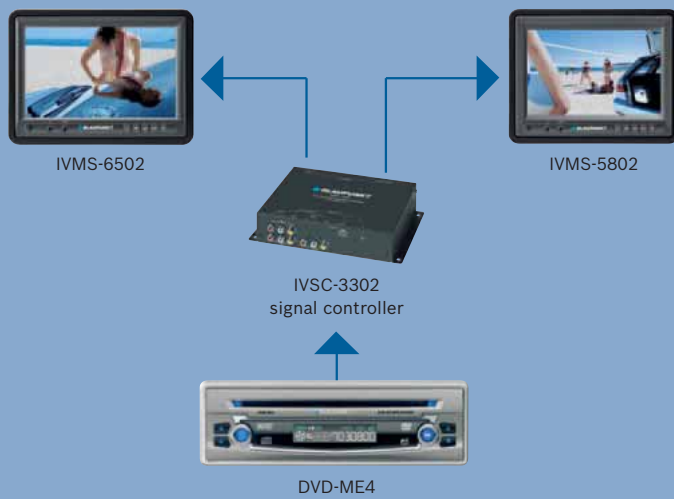


Optional

One source, e.g. TV tuner



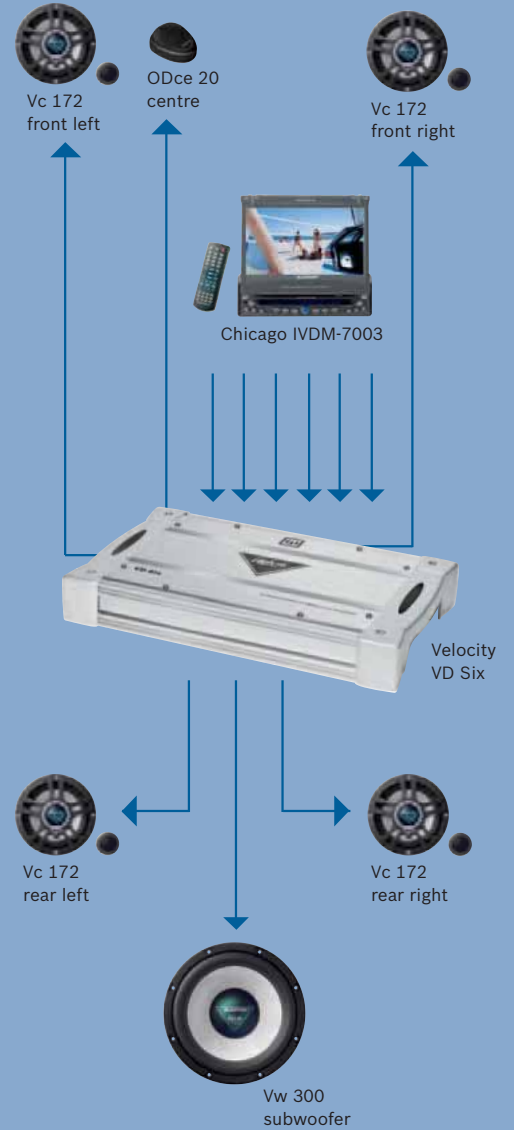
Rear-seat entertainment system



A/V multimedia high-end system



Dolby Digital





Get in, switch on,
drive off. With the right sound
all the way. With a modern design.
And with a system that's even easier to
operate than it is to install. Whether you
choose a cassette, CD or MP3 player – you'll
enjoy life with all its highs and lows. Our
powerful equalizers will make sure of that.
Hear the difference for yourself. And you can
see it as well: just take a look at the test
winners in one of the trade magazi-
nes. Entry-level systems that satisfy
exacting demands. No more
than child's play for us.

Basic –
Child's play to operate.
For a very grown-up
kind of sound.

Listen to the music.

If you like to concentrate on what is most important, Blaupunkt offers you this series of uncomplicated, easy-to-use car radios. Choose your favourite from radios equipped with MP3 sound, a CD player or a cassette deck. With their elegant black front-

panel design, these car radios make a stylish addition to any vehicle and you can always depend on outstanding Blaupunkt quality.

Essen MP35



4x45 W



Brighton MP35



4x45 W



Kiel CD35



Sound Presets



4-Channel Preamp-out



Aux-in

Malaga CD35



Sound Presets



4-Channel Preamp-out



Aux-in

Ravenna C32



Cassette



Maximum sound and the most powerful bass ever. That's what our amplifiers deliver. High-quality materials and innovative technology guarantee richly detailed high-performance sound in every frequency range. And this will amplify not only the sound, but your enjoyment of it as well. Were you expecting anything less?

Sound –
Amplify your feelings.

Sound in New Dimensions.

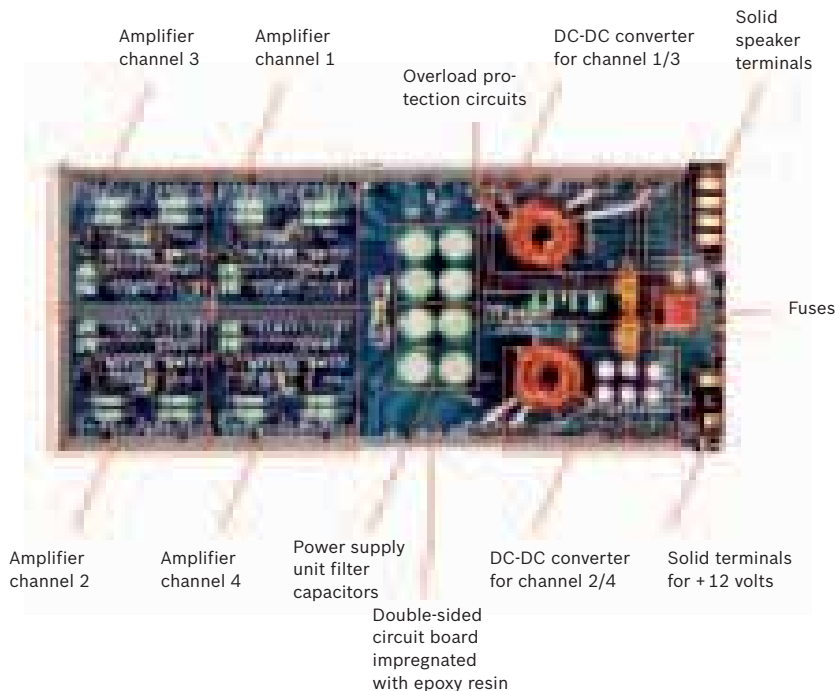
Four different Blaupunkt amplifier series deliver a new generation of sound designed to electrify your senses. Blaupunkt sets new standards with extraordinary reliability, outstanding sound

quality, even greater power-handling capacity and an excellent range of features: there's something for every taste, every space and every budget.

Velocity Pro – “The Ultimate Series”



The Velocity Pro Series amplifiers impressively demonstrate state-of-the-art amplifier engineering. The VPA amplifiers really kick it up a notch, with sensational performance values and sound characteristics as well as a practical, comprehensive range of outstanding features.

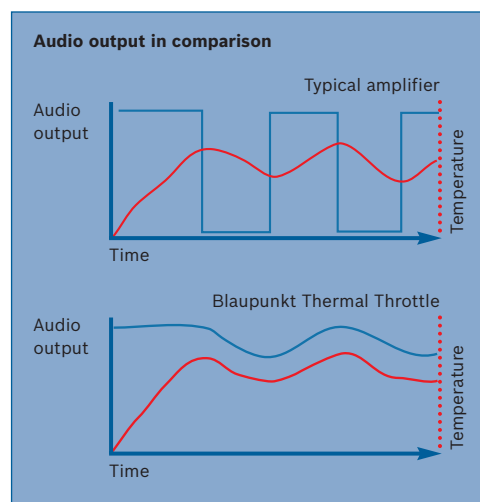


Velocity Pro – “The Competition Series”



With its flexible, exclusive looks, this new VA amplifier line is able to satisfy even the most exacting tastes. Thanks to the innovative

Thermal Throttle circuit, the amplifiers are able to operate continuously at maximum power levels without the risk of shut-down.



THA – “The Easy Installation Series”



Thanks to the flat installation depth of its heat sink profile (just 43 mm), the THA amplifiers can be easily installed anywhere where conventional amplifiers usually have to give

up. The elegant surface finish, high reliability and protection of all the connections with the removable end caps complete this amplifier series.

GTA – “The Best Value Series”



The GTA amplifiers are a prime example of what Blaupunkt understands as optimal “value for money”. Maximum reliability, high power reserves and a rich range of features are combined

here with great workmanship – it’s no wonder then that this amplifier series is incredibly successful.

Top Equipment for Excellent Sound.

VPA 11500



1x3000 W

Variable low pass

**Variable
bass boost/subsonic filter**

Phase control 0/180

Velocity Pro – “The Competition Series”

- Uncompromising design for highest sound quality and maximum performance
- Exclusive use of only the highest-quality materials and components
- Oversized heat sink for optimal reliability under the most extreme conditions
- Enormous adaptability thanks to a multitude of setting options for the integrated filters

VPA 4120

4x250 W **2x750 W**

Variable low pass/high pass

**Variable
bass boost/subsonic filter**

Phase control 0/180



VPA 2120

2x250 W **1x750 W**

Variable low pass/high pass

**Variable
bass boost/subsonic filter**

Phase control 0/180



VA 1400



1x1200 W

Thermal Throttle

Variable low pass

Remote control



Velocity – “The Power Series”

- The Thermal Throttle circuit reliably prevents the risk of audio output shut-down under all operating conditions
- Flexible system of removable end caps and side rails made of solid aluminium
- Visually seamless installation to integrate multiple amplifiers into a single unit
- All amplifiers come complete with cable remote control

VA 4100



4x250 W

2x700 W

Thermal Throttle

Variable low pass/high pass

Remote control



VA 2100

2x250 W

1x700 W

Thermal Throttle

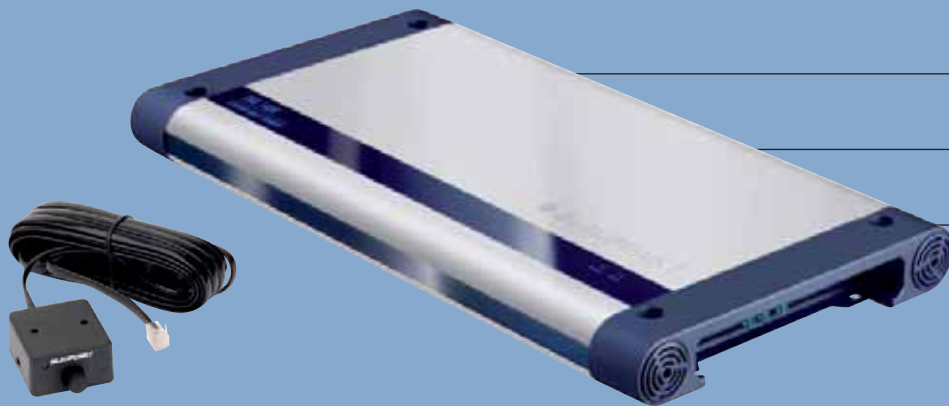
Variable low pass/high pass

Remote control



Good Looks and Technical Sound Highlights.

THA 1400



1 x 1000 W

Variable low pass

Variable bass boost/subsonic filter

THA – “The Easy Installation Series”

- Easiest installation thanks to particularly flat design with a depth of just 43 mm
- Flexible design with removable end caps that reliably protect all wiring and setting controls
- Visually seamless installation to integrate multiple amplifiers into a single unit
- THA 1400 and THA 280 include cable remote control

THA 480

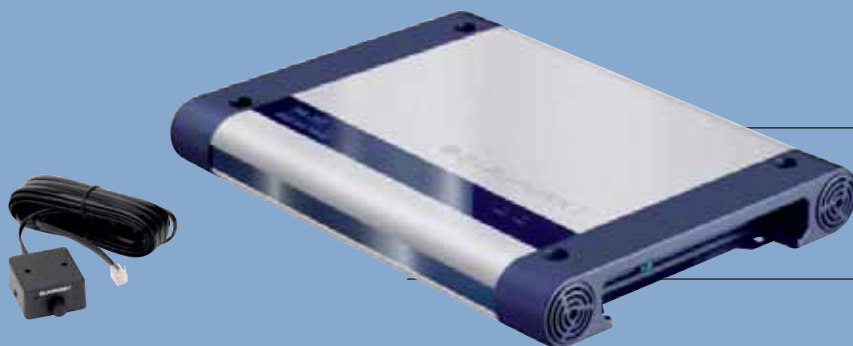
4 x 200 W **2 x 600 W**

Variable low pass/high pass

Variable bass boost



THA 280



2 x 200 W **1 x 600 W**

Variable low pass/high pass

Variable bass boost

GTA 1300



1x750 W

Variable low pass

Variable bass boost/subsonic filter

GTA – “The Best Value Series”

- Solid, oversized heat sink for optimal performance and reliability
- High adaptability thanks to comprehensive setting options for the integrated filters
- Very high audio output and 2-ohm stability

GTA 470



4x150 W

2x400 W

Variable low pass/
high pass

Variable bass boost

GTA 270



2x150 W

1x400 W

Variable low pass/
high pass

Variable bass boost

GTA 400 Flash



4x90 W

2x300 W

Variable low pass

Switchable high pass

Switchable bass boost

GTA 200 Flash



2x90 W


1x350 W

Variable low pass

Switchable high pass

Switchable bass boost





Impressive pressure: speakers from Blaupunkt. And that's no coincidence – it's all based on a well-thought-out combination of high-quality materials. As well as on tests, tests and more tests. That is the only way to find out whether the speakers are able to stand up to extreme conditions and to the extreme bandwidths our amps have to offer. Not to mention the bandwidth of your own musical tastes. After all, we don't know whether you listen to hip-hop or heavy metal. But we can be sure of one thing: any kind of music sounds better when it's true to life and free of distortion. Right?

Sound –
Easy listening.
Even when it gets
hard and heavy.

Subwoofers.

The newest subwoofer generation from Blaupunkt will really make your car rock and reproduces even the lowest octaves with power and precision. Sound pressure and deep bass become an intensive, sensual experience. With clearly structured,

cleanly defined bass in combination with exclusive design, these subwoofers significantly enhance your music listening pleasure. Blaupunkt delivers long-term quality and highest performance to satisfy a wide variety of different demands.

Velocity Pro – “The Competition Series”

VPw subwoofer



50-mm wide BUTYL RUBBER SURROUND

Joined to the cone with a reinforced seam to reduce bell-node resonance, increase service life even under extreme conditions and maximum excursion.

Double SPIDER

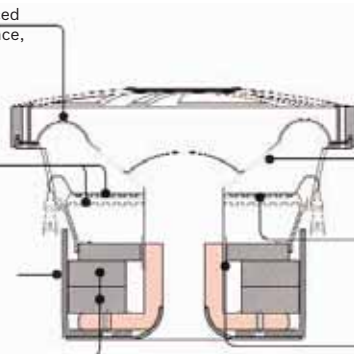
Provides for a smooth cone ride for even extreme cone excursion

Solid DIECAST BASKET

Non-magnetic, resonance-free basket for optimal drive unit mounting.

Double-stacked STRONTIUM-FERRITE MAGNET SYSTEM

Oversized, for high drive energy and maximum cone excursion

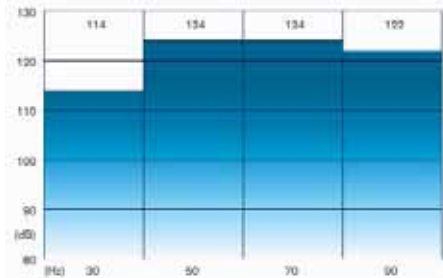


Extremely stiff, stable CONE made of carbon and fibreglass (CFG) for 30% more inner attenuation, resulting in distortion-free reproduction at high power levels

LITZ WIRE woven into the spider prevents noise and increases service life, even for extremely high cone excursion

75-mm VOICE COIL on an aluminium carrier, wound for maximum thermal power handling

VPw 300 sound-level profile



The extreme VPw subwoofers in the Velocity Pro Series were built to satisfy the most exacting demands for superior sound. The sophisticated technology will have even the most hard-core deep-bass

and sound-pressure fan convinced. Unrivalled power handling and maximum sound pressure give new meaning to the expression “deep bass”.

Velocity – “The Power Series”



The new Velocity subwoofers are equipped with many of the virtues sported by their ‘Velocity Pro series’ counterparts. The solid diecast baskets, the stiff, stable fibreglass cones and the powerful drivers provide the right pressure, even under rigorous competitive conditions.

OD – “The Compact Series”



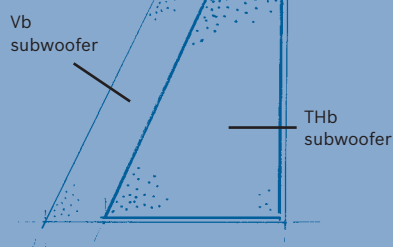
There’s always room for a subwoofer, even in the smallest boot – as long as it’s a subwoofer from the Blaupunkt OD Series. And thanks to the integrated amplifier, this subwoofer is particularly easy to add to factory-installed sound systems. All it takes is a few connections (even without a preamp out) to transform a system that’s short on bass into a rich sound experience.

TH – “The Easy Installation Series”

The new THb systems are considerably flatter than conventional enclosures, thus reducing the space they require in the boot to a minimum. With absolutely no adverse effects on the deep bass quality. The powerful drivers with generously proportioned force factors provide for the right sound pressure.



Compare the installation depth of the THb vs. the Vb



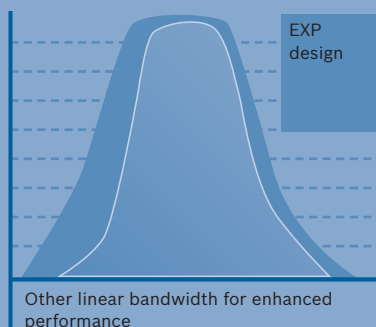
The THb subwoofer takes up much less room in the boot than a normal subwoofer.

GT – “The Best Value Series”



The elegant design of the shiny blue cones underscores the solid technology of the three subwoofer boxes in the GT Series. Up to 1,500 watts of impressive maximum power handling rounds out this exception to the rule in this segment.

Linear spectrum



Optimal Variety.

VPw 460



Diameter: 460 mm

5400 W

2 x 2 ohms

CFG cone

Velocity Pro – “The Competition Series”

- Optimized for highest power handling and maximum sound pressure
- Ultra-stable carbon/fibreglass cone (CFG)
- Solid aluminium diecast basket with an “integrated magnet system”
- Design covers included

VPw 380



Diameter: 380 mm

4500 W

2 x 2 ohms

CFG cone

VPw 300



Diameter: 300 mm

3600 W

2 x 2 ohms

CFG cone

Vw 380

Vw 300

Vw 250



Diameter: 380 mm

3000 W

2 x 2 ohms

Fibreglass cone



Diameter: 300 mm

2250 W

2 x 2 ohms

Fibreglass cone



Diameter: 250 mm

1500 W

2 x 2 ohms

Fibreglass cone

Velocity – “The Power Series”

- Stable, particularly hard fibreglass cone
- Large dual voice coils for highest power handling
- Solid aluminium diecast basket

Vb 300



**Diameter: 300 mm
bass-reflex**

1200 W

2 x 2 ohms

Highlights in the Vb series

- Stable, particularly hard fibreglass cone
- Large dual voice coils for highest power handling
- Solid, compact enclosures made of MDF with design covers

Vb 250



**Diameter: 250 mm
bass-reflex**

600 W

2 x 2 ohms

ODsb 8000A

OD – “The Compact Series”

- Integrated amplifier for easiest installation
- Ultra-compact
- Easy connection to factory-installed sound systems
- High-level inputs



**Diameter: 200 mm
with passive radiator**

140 W

Active subwoofer box

The bassest of the bass!

THb 300

**Diameter: 300 mm
bass-reflex**

750 W

4 ohms



THb – “The Easy Installation Series”

- Particularly flat installation depth – requires significantly less room in the boot than a conventional subwoofer
- High-power-handling drivers with a stable PP cone and integrated magnet system
- Solid, compact enclosures made of MDF with design covers

THb 250



**Diameter: 250 mm
bass-reflex**

600 W

4 ohms

GTb 300 Dual

Diameter: 2 x 300 mm

1500 W

2 x 4 ohms



GTb 300



Diameter: 300 mm

750 W

4 ohms

GT – “The Best Value Series”

- High-power-handling drivers with a stable “spun paper” cone and EXP technology
- Solid, compact enclosures made of MDF with design covers

GTt 300

Diameter: 300 mm

600 W

4 ohms



Speakers.

Great in-car sound is difficult to recreate without good speakers. Thanks to high-quality workmanship, Blaupunkt speakers always deliver even at constant high power levels.

Installation is no problem as Blaupunkt offers practical solutions for virtually any vehicle on the market.

Velocity – “The Competition Series”



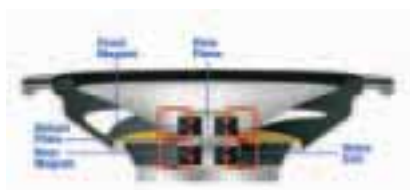
The target definition in the development of this high-end speaker was “simply the best”. With top-rate sound, these speakers master the reproduction of any type of music and tease out even the finest details with ease. Friends of high-end performance will be delighted to find first-class material workmanship combined with the finest components.

Velocity – “The Power Series”

Speakers at the absolute top of the class that are as easy to install as conventional speakers, but come very close to the technology and sound of the ultimate VPc Series. That translates as the music of your dreams and highest power handling capability, combined with easy installation.



OD – “The Compact Series”



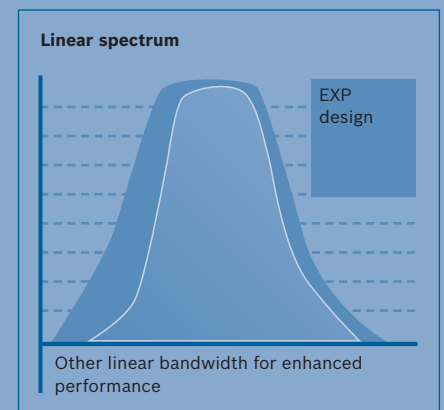
The OD Series, which received the Innovation Award in the USA, stands out by virtue of its very flat design and most modern materials. Maximum sound with minimum installation depth, among other things, is guaranteed by the innovative front neodymium magnet.

TH – “The Easy Installation Series”



With its innovative drive concept, the new TH Series shows how compact high-quality speakers can be. Installation depth as a limiting factor is virtually eliminated – without making any compromises in sound quality.

GT – “The Best Value Series”



Perfection at ground level – with the new GT Series. Perfect sound quality and reliability at outstanding value for money make these speakers particularly interesting. And the shiny blue cones, the chrome-plated tweeter systems and the elegant design covers make them so successful.

Velocity – Ultimate Power.

VPc 172



Diameter: 165 mm

360 W

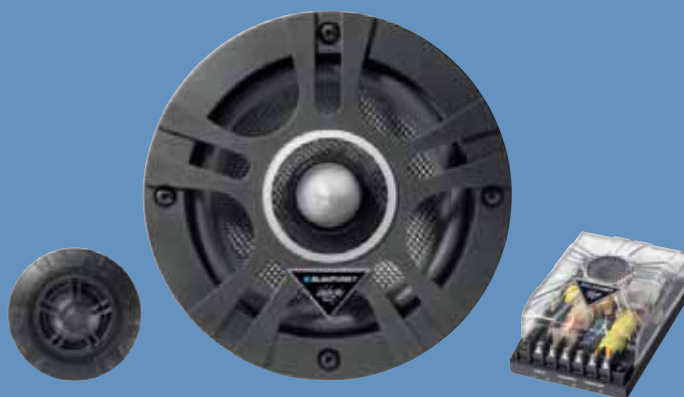
28-mm tetron dome tweeter

CFG cone

Velocity Pro – “The Competition Series”

- Ultra-stable carbon/fibreglass cones (CFG)
- Solid aluminium diecast baskets with an “integrated magnet system”
- Separate steep crossovers with selected components
- Design covers included

VPc 132



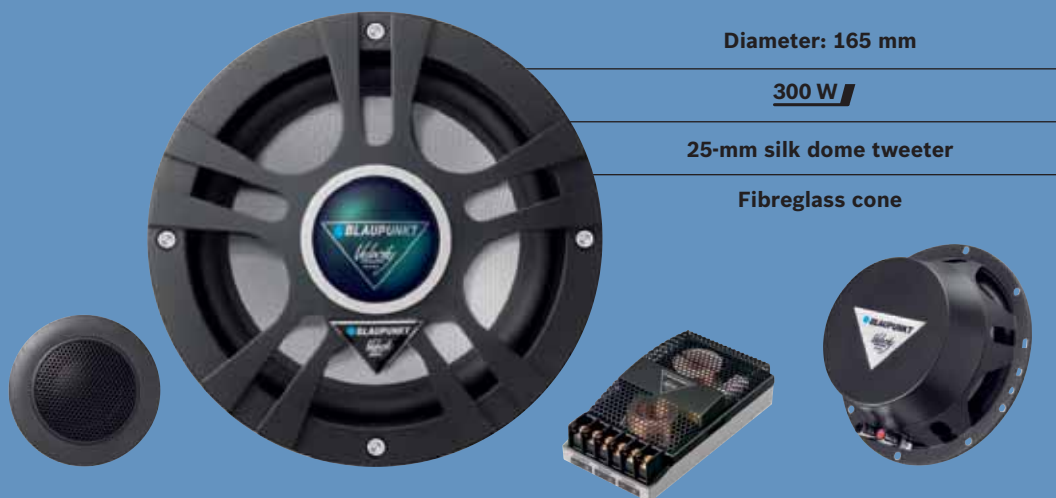
Diameter: 130 mm

300 W

28-mm tetron dome tweeter

CFG cone

Vc 172



Diameter: 165 mm

300 W

25-mm silk dome tweeter

Fibreglass cone

Vc 132



Diameter: 130 mm

240 W

25-mm silk dome tweeter

Fibreglass cone

Velocity – “The Power Series”

- Stable fibreglass cones
- Removable magnet covered for cramped installation spaces
- Separate steep crossovers
- Design covers included

Maximum Power – Minimum Space.

ODc 172



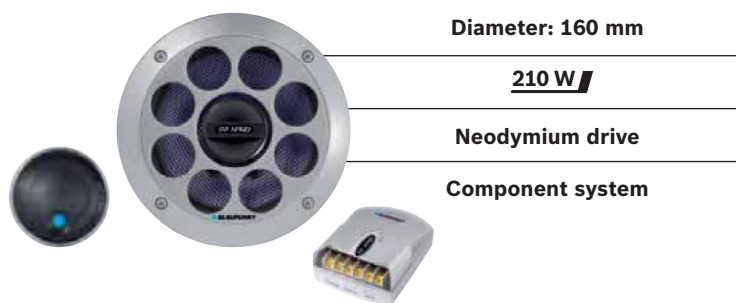
ODx 172



OD – “The Compact Series”

- Particularly flat and ultra-light for easiest installation
- Highly efficient neodymium magnets for tweeters and woofers
- Low-resonance PWF cones
- Design covers included (except for ODx 92)

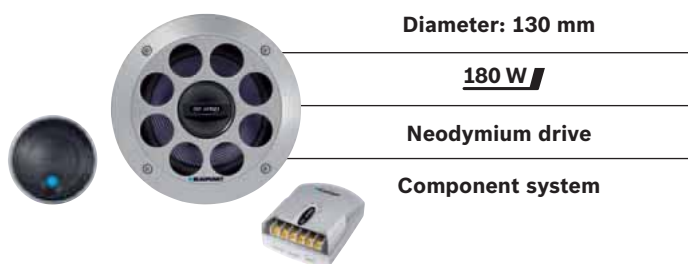
ODc 162



ODx 162



ODc 132



ODx 132



ODx 693



Diameter: 6" x 9" mm

300 W

Neodymium drive

3-way triax system

ODx 102



Diameter: 100 mm

120 W

Neodymium drive

ODx 573



Diameter: 5" x 7" mm

270 W

Neodymium drive

3-way triax system

ODx 92



Diameter: 87 mm

90 W

Neodymium drive

ODx 462



Diameter: 4" x 6" mm

120 W

Neodymium drive

ODc 25



Diameter: 25 mm

300 W

Silk dome tweeter

Great Sound – Easy to Install!

THc 172



Diameter: 165 mm

180 W

Injected PP cone

Component system

THx 172



Diameter: 165 mm

150 W

Injected PP cone

THc 132



Diameter: 130 mm

150 W

Injected PP cone

Component system

TH – “The Easy Installation Series”

- Ultra flat for easy installation
- Rear-ventilated voice coils for high thermal power handling
- Neodymium magnets as drives for the tweeters
- Design covers included

THx 132



Diameter: 130 mm

120 W

Injected PP cone

THx 693



Diameter: 6" x 9"

210 W

3-way triax system

THx 102



Diameter: 100 mm

120 W

Injected PP cone

GTc 172



Diameter: 165 mm

140 W

Injected PP cone

Component system

GTx 203



Diameter: 200 mm

150 W

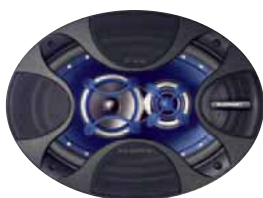
Injected PP cone

3-way triax system

GT – “The Best Value Series”

- Low-resonance injected PP cones
- Design covers included

GTx 693



Diameter: 6” x 9” mm

150 W

Injected PP cone

3-way triax system

GTx 173



Diameter: 165 mm

140 W

Injected PP cone

3-way triax system

GTx 172



Diameter: 165 mm

120 W

Injected PP cone

GTx 132



Diameter: 130 mm

110 W

Injected PP cone

GTx 462



Diameter: 4” x 6” mm

110 W

Injected PP cone

GTx 102



Diameter: 100 mm

90 W

Injected PP cone

The perfect fit.

Blaupunkt delivers not only high-quality car radios, navigation and multimedia systems. We also offer a finely-tuned programme of accessories for the optimal integration of the systems in any vehicle. With customized installation kits for

easy installation, adapter cables to reduce installation time and interfaces that allow you to add new devices to your in-car audio system, system supplier Blaupunkt offers everything you need to ensure that you have a comfortable ride.

Antennas

Get the best reception

In addition to conventional car radio antennas and combined radio, telephone and navigation antennas, Blaupunkt also sells high-tech products for digital radio.

Design rod

The attractive rod antenna is a delight to Your eyes and your ears

- Top-class design
- Great reception despite reduced length
- Easily replaces existing antenna
- Fits all popular vehicles models with M5 screw threads
- AM/FM

Autofun antenna

The most frequently sold window antenna in the world with a new look and excellent reception

- Easy to install
- Integrated amplifier
- AM/FM

Digital Radio Autofun

The active on-glass antenna guarantees outstanding reception and easy installation.

- Band III (174 – 240 MHz)
- L band (1452 – 1492 MHz)
- No drilling required
- Plug&play, i.e. no adapter required

A-DR-T 01-M Digital-radio combined roof antenna

The active antenna is the perfect replacement solution for existing roof antennas.

- AM, FM
- L band (1452 – 1492 MHz)
- Band III (174 – 240 MHz)
- 2 services in one antenna
- Fits into existing drill holes when replacing old antenna
- Retrofit solution for AM/FM and DAB
- Easy installation thanks to integrated crossover and amplifier in antenna base
- Optimal reception throughout Europe

A-PG01-E Telephone-window antenna

The new window antenna is the future-proof solution for your car phone.

- Easiest installation
- No drilling required
- UMTS-enabled
- GSM 900/800



Apple® iPod Interface



IDC-A 09

Just hook up the iPod to the changer interface of your car radio and you have

- play lists that you can see and select from in the radio display
- song folders, songs played and performing artists on the display
- a battery that get recharged by the interface so that it's always fully charged in the car.
- Compatible to all car radios and navigation systems with CD Changer control ability



CDC-A 03

CD changers

Installed in the standard DIN compartment, this 5-disc CD changer is controlled by Blaupunkt DMS radios and allows unlimited music enjoyment for longer periods of time.



The 10-disc CDC-A 03 CD changer can play even more music without interruption.

Can Basic Interface/Remote Control Interfaces



Blaupunkt now offers the high-quality Can Basic interface for vehicle in the VW Group (Audi, VW, Seat, Skoda) as well as for Daimler-Chrysler vehicles with a CAN bus solution without steering wheel remote control. For all popular Can Bus networked vehicles with steering wheel remote control, Blaupunkt delivers interface solutions to retain the remote control functions after the unit has been replaced. The installation time is reduced to a maximum of 2 hours, all the wiring is included and long cable simplify installation considerably.

RC 10

RC 13H



Remote Control Units

The RC 13H cable remote control was specially designed for back-seat passengers. It is compatible with the Bremen MP74 and makes it possible to play a CD while the driver is listening to his/her own programme, for example. Blaupunkt offers the RC 10 infrared remote control for the steering wheel – designed to save the driver from any distraction, even in the dark. And of course, it controls all the most important functions of your in-car hi-fi system (tuner, cassette recorder, CD CDC).



DDA, SHARX,
neodymium tweeters, NTSC.

We know what makes perfect Car Multimedia. And so that you know it too, you'll find the Blaupunkt Technical Terminology on the following pages – describing all the technical terms and product features. After all, anyone who tunes into innovative technology will be interested in the perfect fine-tuning for In Car Entertainment as well.

Technology –
There are many different reasons
for perfect sound. But only one
manufacturer.

A

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).

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.

AutomaticSound

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

Aux-In

Stereo preamp in-line to which an external CD changer is usually hooked up. An adapter can also be used to connect other external signal sources such as portable CD or MP3 players.

Aux naming

External sources, such as an MD-Walkman, can be given any user-defined name (max. of 16 characters). This name will then appear in the display of the car radio when the corresponding source is selected.

B

Bass-Boost

The Bass-Boost control is used to adjust the bass reproduction of the amplifier. The settings normally range from 0 dB to +12 dB or +18 dB and boosts the deep bass sound. Bass-Boost creates a full, rich, powerful bass sound from relatively small subwoofer enclosure volumes.

Bass-Tube

A subwoofer usually built into a round, acoustically matched enclosure. Particularly well suited for vehicles in which the boot is not physically separated from the passenger cabin. If maximum loading capacity is required in the boot, just remove the bass tube from the car.

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 the automatic self-adjustment of the equalizer (DSA Max, DEQmaxEX). This microphone is already included with the Bremen MP74 and the Los Angeles MP74; it is available as an accessory for other car radios.

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.

Centre-Out

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

CFG

CFG stands for Carbon FibreGlass Cone – the optimal cone material for woofers. CFG combines extreme stability and minimum weight with particularly pleasing resonance characteristics. CFG cones deliver practically perfect frequency response even without a crossover.

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.

CODEM®

A reception concept developed by Blaupunkt that makes virtually interference-free reception possible even for weaker reception signals without lowering the treble.

Combination antenna

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

Component system

2- or 3-way system, in which the chassis (tweeter, woofer, perhaps subwoofer) can be installed separately to optimise the sound/installation situation.

Crossover

→ High pass, low pass

Cursor up/down

Pressing one of these keys on the Blaupunkt monitors triggers two different functions: when the on-screen display (OSD) is switched off, the volume will increase (up) or decrease. If the OSD is active, the two keys can be used to navigate within the menu.

Customisable Power-On Message

Any text (max. of 35 characters) that briefly appears in the display when the unit is switched on.

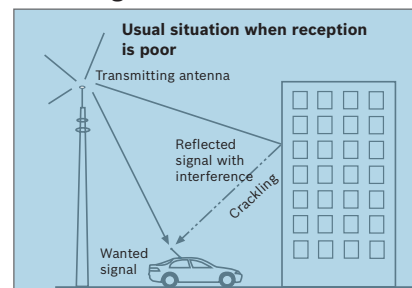
D

DAB – Digital Audio Broadcasting

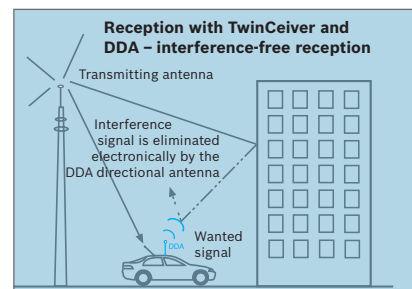
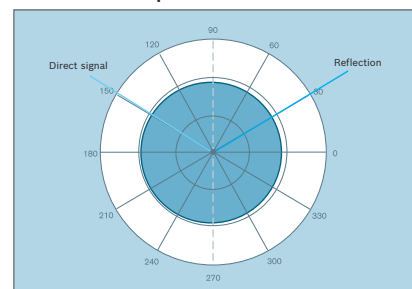
→ Digital-Radio

DAB Antennas

In contrast to the familiar analogue 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.

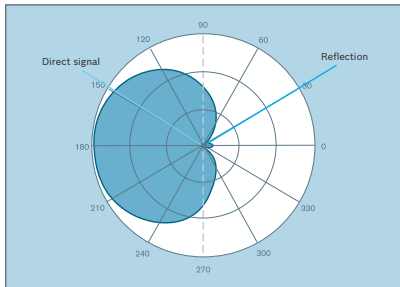
DDA – Digital Directional Antenna

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.

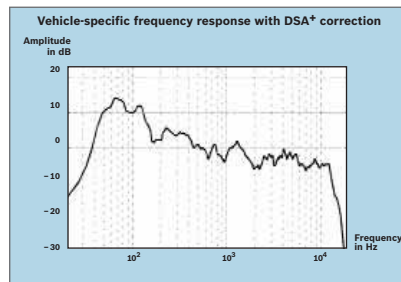
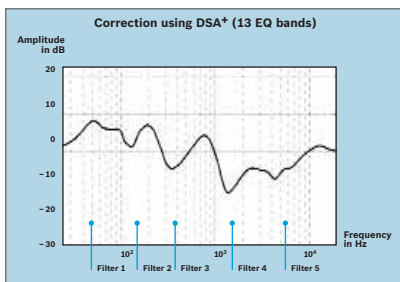
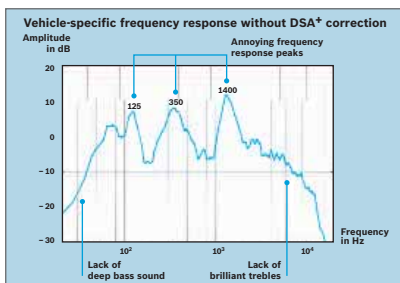
Reception with DDA



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 digitised using intermediate frequency analogue-digital converters. The digitised data is then fed to an adaptive algorithm with extremely low settling 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 strengths. In areas with strong reception, the second regular receiver, the so-called RDS background receiver, is then freely available. The switch 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.

DEQ/DEQ+/DSA+ Digital Sound Adjustment



Equalizers that do the thinking for you! The intelligent Blaupunkt equalizers are equipped with a self-adjusting function to automatically optimise sound reproduction. The new DSA+ equalizer is a complete 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 analyser, fascinating effect sound options for Club, Stadium, Cathedral, Theatre and Concert as well as sound presets round out the virtually unlimited opportunities to individualize your sound!

Parametric bands in DEQ Max/DEQ Max EX:

For particularly easy operation and the outstanding adjustment of the complicated acoustic conditions in modern vehicles, the DEQ Max EX equalizer uses five fully parametric bands (adjustable mid frequency, quality and level) with an automatic self-adjusting function (in systems with the DEQ Max, the parametric 5-band equalizer requires manual adjustment). In addition, you can also choose individually from five pre-defined sound curves for different music styles.

Automatic equalizer adjustment with the DSA Max and DEQ Max EX:

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 MP74 and the Los Angeles MP74) 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-optimised 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 receiver to the Preamp Out. 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 analogue 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 programme information in the form of images and HTML pages. Even moving images are possible. With digital radio, many familiar programmes 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 programmes are transmitted over just one frequency. This means that, once you have tuned into a programme, 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 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 will be available in all European countries in the future as well.

Programme diversity

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

Disc-Naming

This function makes it possible to enter a name for any CD currently playing. This name will then appear in the display each time the CD is played as long as the corresponding display function has been activated.

Display-Out

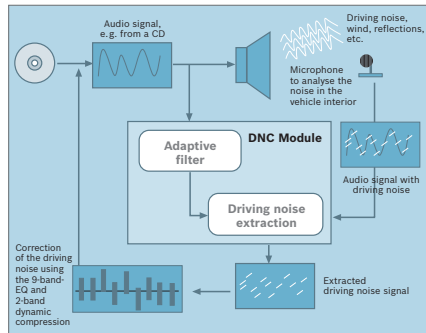
Connection option for existing external displays in the car via an optional interface.

DMB – Digital Multimedia Broadcasting

→ Digital-Radio

DMS – Disc Management System

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

DNC – Dynamic Noise Covering

→ DSA Max

DSA Max – Digital Sound Adjustment

→ DEQ Max / DEQmaxEx / DSA Max

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.

DualZone Audio

Devices equipped with dual zone audio have preamp outs on the back that lets you connect a second signal source (e.g. tuner from the front, CD playback from the back). A separate adapter is required for the connection of headphones and remote control for the second source.

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)

E**EON**

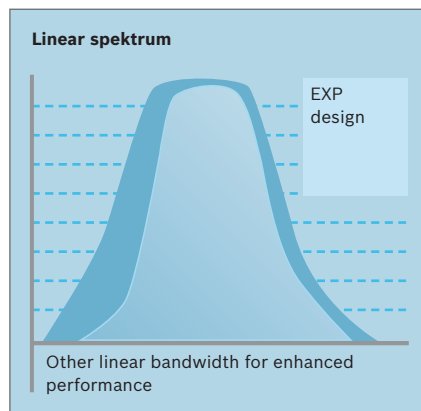
Enhanced Other Networks.
→ RDS

Equalizer

Sound control, which adapts the frequency response on several frequency bands to accommodate less-than-perfect acoustic conditions and personal preferences.
→ DEQ Max / DEQ Max EX / DSA Max

EXP technology

EXP stands for "Extended Pole Piece", i.e. the pole piece of the speaker magnets 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.

Fibreglass Cone

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

FM Modulator

Functions in the same way as a small radio transmitter. It converts the incoming signals of such equipment as CD changers into radio waves in a selected frequency, which are fed into the car radio tuner through an adapter connected between the antenna input and the antenna plug. This makes it possible to connect a CD changer to any type of car radio.

FNM (Front Neodymium Magnet) Technology

Neodymium magnets are known for their compact, lightweight design. Thanks to neodymium magnets, it is now possible to build far lighter, flatter speakers with the same performance capabilities. The ultra-flat design is achieved through the use of FNM technology. With the neodymium magnet, which is installed in the front deep in the voice coil, the installation depth of the speaker is reduced by more than 30% and the mounting height for coaxial system set to close to 0 mm. FNM technology is used in all coaxial (ODx) and component systems (ODc) in the OD series.

G**GALA**

→ AutomaticSound

GPS – Global Positioning System

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.

HDD – Hard Disk Drive**Head Unit**

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

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 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 programme 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 become 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.

K

KeyCard



A particularly convenient theft protection system developed by Blaupunkt. The car radio cannot be operated until the corresponding card has been inserted.

L

Loudness

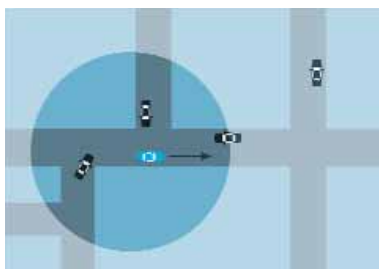
→ X-Bass

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

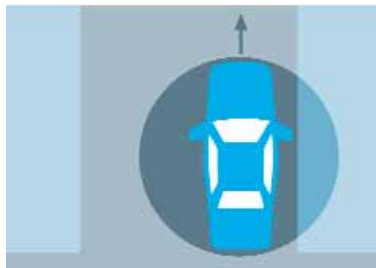
Map Matching



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



2. After just a few metres, the road the vehicle is travelling 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

The "menu" can be used to adjust the basic settings of the car radio to vehicle-specific conditions, individual preferences and perhaps to an existing car hi-fi system.

MMC – MultimediaCard/ SD – Secure Digital Card

Storage cards for multimedia data, such as MP3 music files.

MosFet transistors

Metal oxide semiconductor field effect transistors. Particularly effective in power consumption (less heat generation) and switch quickly, but not necessarily better than normal bipolar transistors as far as the sound is concerned. Ideal for use in the switch-mode power supplies of high-power amplifiers to guarantee a constantly stable and high power supply.

MP3

Compression standard for music data based on the MPEG1 standard.

MP3 browsing

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

MP3 music on a CD-R/RW

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

MP3 music on a Microdrive

The MP3 Compact Drive from Blaupunkt is a virtual CD changer. Simply compile a selection of your own favourite CDs by loading music from your PC onto the Microdrive.

MP3 music on a MultimediaCard/SD card

Up to eight hours of MP3 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.

MP3 music on a PC



You need the right software to play MP3 music on your PC. At www.blaupunkt.com you can simply download a WinAmp MP3 player – in the Blaupunkt look.

MP3 park

At www.blaupunkt.com you will find out everything worth knowing about the topic of MP3. In addition to basic technical principles and legal background information, there are also a lot of useful tips, tricks and links.

MultiColour display

Display in different colours for the different display segments to differentiate visually between the various functions displayed and to improve the appeal of the equipment design. The headline is usually highlighted to make it easier to read.

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 minimise or even eliminate multipath interference.

→ DDA

Music/Speech

→ RDS

N

Navigation (dynamic)

Blaupunkt was the first manufacturer to combine TMC and TIM® to create complete traffic management. The Traffic Message Channel – TMC is a free service provided by radio stations; its traffic information is used permanently in route calculation. TIM® is a Blaupunkt process for recording traffic messages. This combination of technologies allows proactive, dynamic traffic congestion avoidance on all motorways.

Navigation TravelPilot

Active route guidance system for motorists using spoken recommendations and directional arrows on a monitor/display. Route guidance is based on a navigation CD and computer, locating via satellite receiver (GPS), speedometer sensors, a gyroscope and data comparison with the digital map.

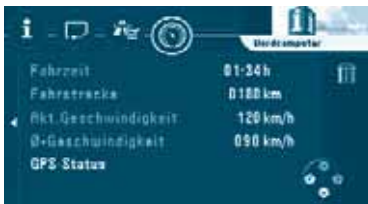
Navigation functions, screen format



Dynamic navigation systems from Blaupunkt automatically take traffic congestion into consideration in route calculation.



So you would like to avoid motorways, ferries or toll routes? No problem – simply select the corresponding route option.



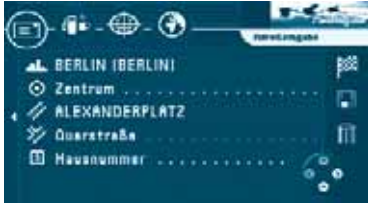
The on-board computer gives you such information as your driving time, the route or your average speed.



Mix mode allows you to display the directional arrows and the map at the same time. You can also simply choose between the two modes.



Practical information such as petrol stations, hotels and restaurants are indicated by symbols on the map.



The Operating Assistant makes your work easier by using colour coding to mark the input options.

Operating Assistant

Of course, a navigation system is packed full of highly complicated technology, but thanks to the operating assistant, every Blaupunkt stand-alone navigation system is still easy to use. Developed during the course of many practical tests, the operating assistant makes it easier for you to enter address information. The QuickInfo explains the different options in easy-to-understand language. And entering your destination is also incredibly easy – the intelligent speller offers you only the letters that could form a logical combination. And if you should happen to make a typing error, simply press the backspace key to delete the last letter and correct your entry.

Navigation, Off-board

A new kind of navigation system; the route is no longer calculated by the navigation unit in the vehicle, but rather by a stationary computer operated by a service provider. You no longer need a navigation CD. The destination address is entered into the in-vehicle unit as usual. After that, this address and your current vehicle position are transmitted to the service provider via GSM or GPRS. This is where the route is then calculated, taking all current traffic information into account. The data that describes the route to be driven are then transmitted back to the vehicle. The off-board navigation unit guides the driver to the selected destination just like a conventional radio navigation system would. In other words, every turn along the way is indicated by a spoken recommendation and an arrow symbol.

Spoken street names

The special thing about Blaupunkt off-board navigation is that you also hear the name of the street or road you are supposed to turn onto. And that is something that conventional navigation systems just can't do. In conventional systems, the spoken recommendations are recorded by a speaker in advance and all the spoken recordings for the many thousands of streets simply exceed the storage capacity of any navigation CD or DVD. In Blaupunkt off-board navigation, the street names are transmitted as text and read out aloud by a natural-sounding computer voice. Listen to CD music even while you are using route guidance. Because Blaupunkt off-board navigation does not require a navigation CD, the CD drive is always available to play back a music CD.

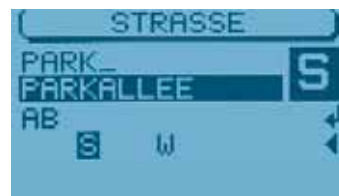
Navigation functions, radio-based



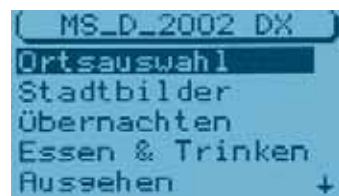
TMC and TIM® provide the TravelPilot DX-R70 with proactive, dynamic navigation. TMC makes it possible to detect traffic congestion on the route up ahead and uses this information in route calculation. TIM® stores all traffic messages, even when the unit is not switched on.



Spoken and visual driving recommendations show you the way. The distance bar in the display tells you how far it is to your next driving manoeuvre.



Entering your destination is easier and more convenient than ever before. The intelligent speller offers you only those combinations of letters that are logically possible.



The TravelPilot DX-R70's travel-guide function allows you to enter such destinations as hotels, restaurants, tourist attractions, etc. directly and to read information on these destinations in the display.



Like its big brother, the TravelPilot DX-R70, the TravelPilot DX-R52 also offers highly precise, proactive, dynamic route guidance.



Easy-to-understand arrow symbols and a friendly voice let you know which exit to take in the roundabout plenty of time in advance.



The TravelPilot DX-R52's precise locating makes sure you arrive safe and sound – like all Blaupunkt navigation systems, it is accurate right down to within three metres.



Entering your destination is incredibly quick and easy. The intelligent speller offers you only those letter combinations that make sense for your input.



And of course there are also a number of different route options available. You can select your options so that the system will calculate your route either with or without ferry connections, for example.

The TravelPilot navigation system is integrated into the car radio and controlled using the car radio keypad. The voice providing the spoken driving recommendations is emitted via the hi-fi speakers; symbols appear in the radio display. The navigation CD is inserted into the integrated CD/CD-ROM drive.

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.

NTSC (National Television System Committee)

US-American colour television system. The colour picture is optically divided into the three primary colours of red, green and blue in the TV camera and fed into three TV picture tubes.

→ PAL

O

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.

P

PDA – Personal Digital Assistant

Small, pocket-sized computer, usually equipped with a touch screen and the Windows CE or Palm OS operating system.

PP (Polypropylene) cone

The PP cone developed by Blaupunkt is a solid, reliable cone. Acoustically, it creates a perfect frequency response and an extremely pleasant sound in the upper mid-range. The PP cone is used in all the speakers in the In Car series as well as the ODsb 5000.

Preamp-Out

Preamp output to control external amplifiers, available in either 2-channel or 4-channel versions. A maximum of 3 volts output is standard. 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

PWF (Platinum Woven Fiber) cone

The PWF cone is made of a very durable, woven fibreglass material. Thanks to the cone fibre, which was specially developed by Blaupunkt, the PWF cone delivers an optimal frequency response with first-class resolution (particularly in the upper mid-range), controlled bass and excellent inner attenuation. The PWF cone is used for all coaxial (ODx) and component systems (ODc) in the OD series.

R

Radio-based navigation

→ Navigation functions, radio-based

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:

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 programme (e.g. title of the programme, name of the artist, etc.).

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 sewn 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.

S

Scan

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

Sender 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.

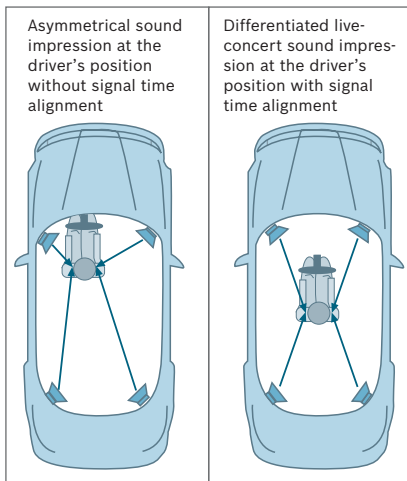
Sensitivity

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

SHARX®

Digital adaptive filter designed to optimise 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 MP74 can be adjusted right down to the last centimetre. 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, Equaliser 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)

The SPC, a development by Blaupunkt, is a very stable, reliable paper cone. Thanks to a unique polishing process and the mixture of 9 mineral materials, the mechanical SPC exhibits a high degree of stiffness. In terms of sound, it produces an extremely homogenous frequency response without any noticeable cone resonance. The SPC is used for the ODce 20, ODce 20A, ODsb 8000A, GTb 300, GTx300 and GTb 300 Dual.

Speedometer signal

Impulses from the electronic speedometer that are used to measure distances travelled and for GALA.

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 TS series and Velocity. A corresponding adjustable filter can be switched on in the Bremen MP74.

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.

Sub X-Over

Subwoofer crossover.

→ Low pass

→ High pass

T

TA – Traffic Announcement

→ RDS

Telematics

Functions that a service provider makes available via telecommunications, e.g. information services with position transmission, emergency call, breakdown call and off-board navigation.

Telephone line-in

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

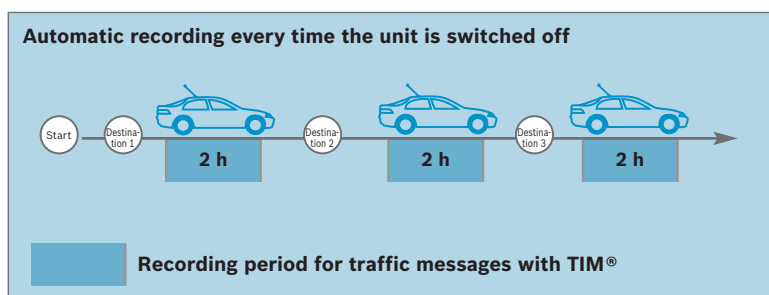
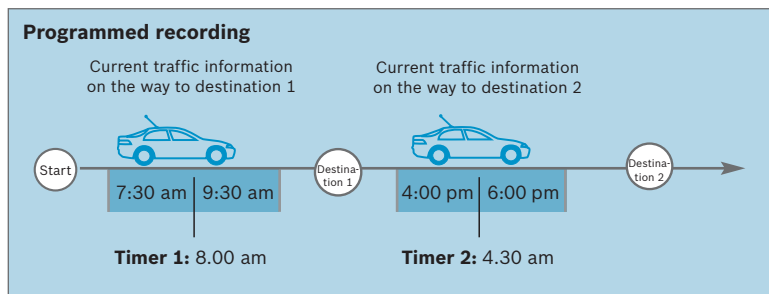
Telephone mute

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 shut-down 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.

Tint (for NTSC only)

Regulates the colour and affects only the NTSC mode, which is used in the USA. In Europe, PAL is the corresponding signal, in parts of France and Switzerland the SECAM signal is the standard used.

Titanium tweeter

The titanium tweeters developed by Blaupunkt are manufactured from an extremely stiff titanium. The rigidity of the titanium dome guarantees a seamless, lively reproduction of the trebles and superb sound definition. The titanium tweeter is used in all the coaxial systems (ODx) of the OD series.

TMC-Out FM

Car radios with this output are able to forward TMC data to any Blaupunkt navigation system connected (e.g. TravelPilot DX-V) for dynamic route guidance (separate connection cable required). Prerequisite: the radio must be set to 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 travelling 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.

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

Traffic telematics

→ Telematics

Travelstore

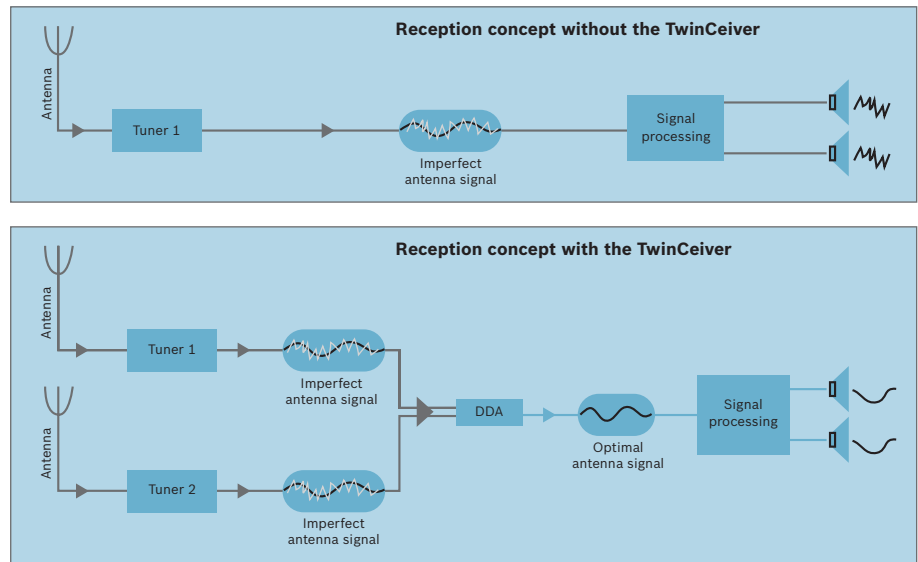
Search function that stores the six radio stations with the strongest reception signals sorted according to signal strength in a special memory bank at the touch of a button.

Triaxial speakers

Three-way speakers whereby the mid-range tweeter is positioned in the centre 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 multi-path 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 digitised 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.

V**Video input: Composite Video 1. OV 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






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 which 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.


Product					
	Bremen MP74	Seattle MP74	Los Angeles MP74	Acapulco MP54	Calgary MP35
Page	8	9	28	9	10
Radio					
FM/MW/LW/SW (band)	+/-/+/-	+/-/+/-	+/-/+/-	+/-/+/-	+/-/+/-
Codem concept	-	DigiCeiver	DigiCeiver	DigiCeiver	III+
2-tuner RDS	TwinCeiver	-	-	-	-
DDA (DigitalDirectionalAntenna)	+	-	-	-	-
RDS	RDS-EON-PTY	RDS-EON-PTY	RDS-EON-PTY	RDS-EON-PTY	RDS-EON-PTY
Radiotext	+	+	+	+	+
TIM® (Traffic Memo)	+	-	-	-	-
Traffic Announcement (TA)	+	+	+	+	+
Digital selectivity enhancement (SHARX®)	+	+	+	+	-
Station presets	42	36	36	30	30
Updated station list	+	-	-	-	-
FM frequency response (Hz) -3 dB	20-16,000	20-16,000	20-16,000	20-16,000	35-16,000
AM interference suppression	+	+	+	+	> 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)	-	-	-	-	-
Cassette					
Autoreverse	-	-	-	-	-
Frequency response (Hz)	-	-	-	-	-
Tape equalization	-	-	-	-	-
Signal/noise ratio	-	-	-	-	-
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
CD Mix/Disc Naming/CD List/CD-Text	+ / o / o / +	+ / o / o / +	+ / o / o / +	+ / + / +	+ / - / +
DMS (CD changer control)	+	+	+	+	+
MMC/SD					
Card reader for MMC/SD	-	-	-	-	-
Formatting	-	-	-	-	-
MP3 player					
MP3 playback on CD-R, CD-RW and DVD	CD-ROM/CD-RW	CD-ROM/CD-RW	CD-ROM/CD-RW	CD-ROM/CD-RW	CD-R, CD-RW
MP2 (Digital Radio) playback from Digital recorder for Digital Radio	-	-	-	-	-
Display of directories/file names	Up to 127/+	Up to 127/+	Up to 127/+	Up to 127/+	Up to 64/+
Display of ID3 tags	Up to 30 characters (V1)	Up to 30 characters (V1)	Up to 30 characters (V1)	Up to 30 characters (V1)	Up to 30 characters
Bit rate	8-320 Kbit	8-320 Kbit	8-320 Kbit	8-320 Kbit	32 kbit/sec to 320 kbit/sec
Support of variable bit rates	+	+	+	+	+
Amplifier					
DSA Max (DigitalSoundAdjustment)	+	-	-	-	-
DNC (Dynamic Noise Covering)	+	-	-	-	-
Digital parametric equalizer	-	DEQmaxEx	DEQmaxEx	DEQmaxEx	-
Self-adjusting equalizer	+	+	+	+	-
Number of bands	108	5	5	5	-
Variable EQ quality	-	+	+	+	-
Sound/echo effects	+	-	-	-	-
Signal delay compensation (adjustable)	+	-	-	-	-
AutomaticSound (GALA)	-	+	+	+	-
High pass filter	Separate front/rear	-	-	-	-
Source tone memory	+	+	+	+	+
Sound presets	+	+	+	+	+
X-Bass	+	+	+	+	+
Preamp-out	4-channel (5V), gold-plated	4-channel (4V), gold-plated	4-channel (4V), gold-plated	4-channel (4V)	4-channel, 2 V
Aux-in	2	2	2	2	1
Sub-out	Adjustable	+	+	+	-
Centre-out	Adjustable	-	-	-	-
Dual zone audio	+	-	-	-	-
RMS power (DIN 45324) at 14.4 V	4 x 26	4 x 26	4 x 26	4 x 26	4 x 18 W
Max. power	4 x 50	4 x 50	4 x 50	4 x 50	4 x 45 W
Miscellaneous					
Display technology	Full-graphic DOT	Full-graphic DOT	Full-graphic DOT	DOT matrix graphic-enabled	13 segments, 1-line
Flip release panel	+	+	+	-	-
Softkey operating concept	+	+	+	-	-
Display colour	VarioColour (4,096 colours)	White	VarioColour (4,096 colours)	VarioColour (4,096 colours)	White
Keypad illumination	VarioColour (16 colours)	Switch between red/orange/green	VarioColour (16 colours)	VarioColour (16 colours)	Red
Display brightness	+	+	+	+	-
Angle	+	+	+	+	-
Display out (via opt. interface)	+	+	+	-	-
Theft protection	Removable release panel	Removable release panel	Removable release panel	Removable release panel	Removable release panel
Clock	(RDS)	(RDS)	(RDS)	(RDS)	RDS
Connections: dimmer/telephone-mute	+/-	+/-	+/-	+/-	-/+
Calibration microphone included	+	-	+	-	-
IR remote control included	-	-	+	-	-
TMC out FM/DAB	+/-	+/-	+/-	+/-	-
Pre-equipped for telephone/navigation voice output	+	+	+	-	-
Window antenna included	+	-	-	-	-
Dimensions (W x H x D) mm	179/52/160	179/52/160	179/52/160	179/50/160	179/50/150

					Product
Barcelona MP35	London MP35	Kingston MP35	Madrid MP35	San Diego MP35	
10	11	11	12	12	Page
+/-/+/-	+/-/+/-	+/-/+/-	+/-/+/-	+/-/+/-	Radio
III+	III+	III+	III+	III+	FM/MW/LW/SW (band)
-	-	-	-	-	Codem concept
-	-	-	-	-	2-tuner RDS
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)
-	-	-	-	-	Digital selectivity enhancement (SHARX*)
30	30	30	30	30	Station presets
-	-	-	-	-	Updated station list
35 - 16,000	35 - 16,000	35 - 16,000	35 - 16,000	35 - 16,000	FM frequency response (Hz) -3 dB
> 30 dB	> 30 dB	> 30 dB	> 30 dB	> 30 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)
-	-	-	-	-	Cassette
-	-	-	-	-	Autoreverse
-	-	-	-	-	Frequency response (Hz)
-	-	-	-	-	Tape equalization
-	-	-	-	-	Signal/noise ratio
-	-	-	-	-	CD
+	+	+	+	+	CD-R/RW-compatible
20 Hz - 20 kHz	20 Hz - 20 kHz	20 Hz - 20 kHz	20 Hz - 20 kHz	20 Hz - 20 kHz	Frequency response (Hz) -1 dB
+/-/+/-	+/-/+/-	+/-/+/-	+/-/+/-	+/-/+/-	CD Mix/Disc Naming/CD List/CD-Text
+	+	+	+	+	DMS (CD changer control)
-	-	-	-	-	MMC/SD
-	-	-	-	-	Card reader for MMC/SD
-	-	-	-	-	Formatting
-	-	-	-	-	MP3 player
CD-R, CD-RW	CD-R, CD-RW	CD-R, CD-RW	CD-R, CD-RW	CD-R, CD-RW	MP3 playback on CD-R, CD-RW and DVD
-	-	-	-	-	MP2 (Digital Radio) playback from
-	-	-	-	-	Digital recorder for Digital Radio
Up to 64/+	Up to 64/+	Up to 64/+	Up to 64/+	Up to 64/+	Display of directories/file names
Up to 128 characters	Up to 128 characters	Up to 128 characters	Up to 128 characters	Up to 128 characters	Display of ID3 tags
32 kbit/sec to 320 kbit/sec	32 kbit/sec to 320 kbit/sec	32 kbit/sec to 320 kbit/sec	32 kbit/sec to 320 kbit/sec	32 kbit/sec to 320 kbit/sec	Bit rate
+	+	+	+	+	Support of variable bit rates
-	-	-	-	-	Amplifier
-	-	-	-	-	DSA Max (DigitalSoundAdjustment)
-	-	-	-	-	DNC (Dynamic Noise Covering)
-	-	-	-	-	Digital parametric equalizer
-	-	-	-	-	Self-adjusting equalizer
2	2	2	2	-	Number of bands
-	-	-	-	-	Variable EQ quality
-	-	-	-	-	Sound/echo effects
-	-	-	-	-	Signal delay compensation (adjustable)
-	-	-	-	-	AutomaticSound (GALA)
-	-	-	-	-	High pass filter
+	+	+	+	+	Source tone memory
+	+	+	+	+	Sound presets
+	+	+	+	+	X-Bass
4-channel, 2 V	4-channel, 2 V	4-channel, 2 V	4-channel, 2 V	4-channel, 2 V	Preamp-out
1	1	1	1	1	Aux-in
-	-	-	-	-	Sub-out
-	-	-	-	-	Centre-out
-	-	-	-	-	Dual zone audio
4 x 18 W	4 x 18 W	4 x 18 W	4 x 18 W	4 x 18 W	RMS power (DIN 45324) at 14.4 V
4 x 45 W	4 x 45 W	4 x 45 W	4 x 45 W	4 x 45 W	Max. power
-	-	-	-	-	Miscellaneous
DOT, 1-line	DOT, 1-line	DOT, 1-line	DOT, 1-line	13 segments, 1-line	Display technology
+	+	+	+	-	Flip release panel
-	-	-	-	-	Softkey operating concept
White, blue	VarioColour (4,096 colours)	VarioColour (4,096 colours)	White	Blue	Display colour
Red	Red	Red	Red	Red	Keypad illumination
+	+	+	+	-	Display brightness
-	-	-	-	-	Angle
-	-	-	-	-	Display out (via opt. interface)
Removable release panel	Removable release panel	Removable release panel	Removable release panel	Removable release panel	Theft protection
RDS	RDS	RDS	RDS	RDS	Clock
+/+	+/+	+/+	+/+	-/+	Connections: dimmer/telephone-mute
-	-	-	-	-	Calibration microphone included
-	-	-	-	+	IR remote control included
-	-	-	-	-	TMC out FM/DAB
+	+	+	+	-	Pre-equipped for telephone/navigation voice output
-	-	-	-	-	Window antenna included
179/50/150	179/50/150	179/50/150	179/50/150	179/50/150	Dimensions (W x H x D) mm

Product					
	Vancouver CD35	Bristol CD35	Essen MP35	Brighton MP35	Kiel CD35
Page	13	13	44	44	45
Radio					
FM/MW/LW/SW (band)	+/-+/-	+/-+/-	+/-/-	+/-+/-	+/-/-
Codem concept	III+	III+	III+	III+	III+
2-tuner RDS	-	-	-	-	-
DDA (Digital Directional Antenna)	-	-	-	-	-
RDS	RDS-EON-PTY	RDS-EON-PTY	RDS-EON-PTY	RDS-EON-PTY	RDS-EON-PTY
Radiotext	-	-	-	-	-
TIM® (Traffic Memo)	-	-	-	-	-
Traffic Announcement (TA)	+	+	+	+	+
Digital selectivity enhancement (SHARX®)	-	-	-	-	-
Station presets	30	30	18	30	18
Updated station list	-	-	-	-	-
FM frequency response (Hz) -3 dB	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
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)	-	-	-	-	-
Cassette					
Autoreverse	-	-	-	-	-
Frequency response (Hz)	-	-	-	-	-
Tape equalization	-	-	-	-	-
Signal/noise ratio	-	-	-	-	-
CD					
CD-R/RW-compatible	+	+	+	+	+
Frequency response (Hz) -1 dB	20 Hz - 20 kHz	20 Hz - 20 kHz	20 Hz - 20 kHz	20 Hz - 20 kHz	20 Hz - 20 kHz
CD Mix/Disc Naming/CD List/CD-Text	+/-/-	+/-/-	+/-/+	+/-/+	+/-/-
DMS (CD changer control)	+	+	+	+	+
MMC/SD					
Card reader for MMC/SD	-	-	-	-	-
Formatting	-	-	-	-	-
MP3 player					
MP3 playback on CD-R, CD-RW and DVD	-	-	CD-R, CD-RW	CD-R, CD-RW	-
MP2 (Digital Radio) playback from	-	-	-	-	-
Digital recorder for Digital Radio	-	-	-	-	-
Display of directories/file names	-	-	Up to 64/+	Up to 64/+	-
Display of ID3 tags	-	-	Up to 128 characters	Up to 128 characters	-
Bit rate	-	-	32 kbit/sec to 320 kbit/sec	32 kbit/sec to 320 kbit/sec	-
Support of variable bit rates	-	-	+	+	-
Amplifier					
DSA Max (Digital Sound Adjustment)	-	-	-	-	-
DNC (Dynamic Noise Covering)	-	-	-	-	-
Digital parametric equalizer	-	-	-	-	-
Self-adjusting equalizer	-	-	-	-	-
Number of bands	-	-	-	-	-
Variable EQ quality	-	-	-	-	-
Sound/echo effects	-	-	-	-	-
Signal delay compensation (adjustable)	-	-	-	-	-
Automatic Sound (GALA)	-	-	-	-	-
High pass filter	-	-	-	-	-
Source tone memory	+	+	+	+	+
Sound presets	+	+	+	+	+
X-Bass	+	+	+	+	+
Preamp-out	4-channel, 2 V	4-channel, 2 V	4-channel, 2 V	4-channel, 2 V	4-channel, 2 V
Aux-in	1	1	1	1	1
Sub-out	-	-	-	-	-
Centre-out	-	-	-	-	-
Dual zone audio	-	-	-	-	-
RMS power (DIN 45324) at 14.4 V	4 x 15 W	4 x 15 W	4 x 18 W	4 x 18 W	4 x 15 W
Max. power	4 x 40 W	4 x 40 W	4 x 45 W	4 x 45 W	4 x 40 W
Miscellaneous					
Display technology	13 segments, 1-line	13 segments, 1-line	13 segments, 1-line	13 segments, 1-line	13 segments, 1-line
Flip release panel	-	-	-	-	-
Softkey operating concept	-	-	-	-	-
Display colour	Negative white	Positive white	Negative white	Blue	Orange
Keypad illumination	Red	Red	Red	Red	Orange
Display brightness	-	-	-	-	-
Angle	-	-	-	-	-
Display out (via opt. interface)	-	-	-	-	-
Theft protection	Removable release panel	Removable release panel	-	-	-
Clock	RDS	RDS	RDS	RDS	RDS
Connections: dimmer/telephone-mute	-/+	-/+	-/+	-/+	-/+
Calibration microphone included	-	-	-	-	-
IR remote control included	-	-	-	-	-
TMC out FM/DAB	-	-	-	-	-
Pre-equipped for telephone/navigation voice output	-	-	-	-	-
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

					Product
45	45	20			Page
+/-/+/-	+/-/+/-	+/-/+/-			Radio
III+	III+	DigiCeiver			FM/MW/LW/SW (band)
-	-	-			Codem concept
-	-	-			2-tuner RDS
RDS-EON-PTY	RDS-EON-PTY	RDS-EON-PTY			DDA (DigitalDirectionalAntenna)
-	-	+			RDS
-	-	-			Radiotext
+	+	+			TIM* (Traffic Memo)
-	-	+			Traffic Announcement (TA)
30	30	30			Digital selectivity enhancement (SHARX*)
-	-	-			Station presets
35-16,000	35-16,000	20-16,000			Updated station list
> 30 dB	-	+			FM frequency response (Hz) -3 dB
-	-	-			AM interference suppression
-	-	-			Connection option for 2nd FM antenna
-	-	Band III, L band			Digital Radio
-	-	I, II, III, IV			Reception range
-	-	20-20,000			DAB modes
-	-	+			Frequency response (Hz) -1 dB
-/-	-	+/+			Dynamic label (Radiotext)
-	-	20			Ensemble/Service seek tuning
-	-	+			Station presets
-	-	+			Reception of primary and secondary services
-	-	Weather, news, traffic news			Program Type display (PTY)
-	-	+			Preselection options
-	-	+			Service Following (DAB/FM, Ensemble)
-	+	-			Cassette
-	30-18,000	-			Autoreverse
-	0,20%	-			Frequency response (Hz)
-	56	-			Tape equalization
-	-	-			Signal/noise ratio
+	-	+			CD
20 Hz - 20 kHz	-	20-20,000			CD-R/RW-compatible
+/-/-	o/-/-	+/-/+			Frequency response (Hz) -1 dB
+	+	+			CD Mix/Disc Naming/CD List/CD-Text
-	-	+			DMS (CD changer control)
-	-	FAT 16			MMC/SD
-	-	CD-ROM/CD-RWMMC/SD			Card reader for MMC/SD
-	-	CD-ROM/CD-RWMMC/SD			Formatting
-	-	+			MP3 player
-	-/-	Up to 127/+			MP3 playback on CD-R, CD-RW and DVD
-	-	Up to 30 characters (V1)			MP2 (Digital Radio) playback from
-	-	8-320 Kbit			Digital recorder for Digital Radio
-	-	+			Display of directories/file names
-	-	-			Display of ID3 tags
-	-	-			Bit rate
-	-	-			Support of variable bit rates
-	-	-			Amplifier
-	-	-			DSA Max (DigitalSoundAdjustment)
-	-	DEQmaxEx			DNC (Dynamic Noise Covering)
-	-	+			Digital parametric equalizer
-	-	5			Self-adjusting equalizer
-	-	+			Number of bands
-	-	+			Variable EQ quality
-	-	-			Sound/echo effects
-	-	-			Signal delay compensation (adjustable)
-	-	+			AutomaticSound (GALA)
-	-	-			High pass filter
+	-	+			Source tone memory
+	-	+			Sound presets
+	+	+			X-Bass
4-channel, 2 V	4-channel (3 V)	4-channel (4V)			Preamp-out
1	1	2			Aux-in
-	-	+			Sub-out
-	-	-			Centre-out
-	-	-			Dual zone audio
4 x 15 W	4 x 22	4 x 26			RMS power (DIN 45324) at 14.4 V
4 x 40 W	4 x 45	4 x 50			Max. power
13 segments, 1-line	13 segments	DOT matrix graphic-enabled			Miscellaneous
-	-	-			Display technology
-	-	-			Flip release panel
-	-	-			Softkey operating concept
Green	Yellow + orange	VarioColour (4,096 colours)			Display colour
Green	Red	VarioColour (16 colours)			Keypad illumination
-	-	+			Display brightness
-	-	+			Angle
-	-	-			Display out (via opt. interface)
-	Release Panel	KeyCard & Removable release panel			Theft protection
RDS	-	(RDS)			Clock
-/+	-/+	+/+			Connections: dimmer/telephone-mute
-	-	-			Calibration microphone included
-	-	-			IR remote control included
-	-	-/+			TMC out FM/DAB
-	-	+			Pre-equipped for telephone/navigation voice output
-	-	-			Window antenna included
179/50/150	179/50/150	179/50/150			Dimensions (W x H x D) mm

Product			
	TravelPilot E EXACT MP3	TravelPilot E EXACT	TravelPilot DX-V
Page	16	17	24
Navigation			
Optimal route configuration	+	+	-
Traffic congestion avoidance with dynamic, proactive navigation	+	+	+
New destination input in corridor with no CD change	+	+	-
Clear route guidance with natural speech and symbols	+	+	+
Postal code input	+	+	+
Listen to CD during dynamic, proactive navigation	+	+	-
Traffic congestion ahead function	+	+	+
Display of special destinations	+	+	+
Navigation CD included	+	+	+
Last 20 City history	+	+	+
House number exact route guidance	+	+	-
Dynamic navigation also in corridor mode	+	+	-
Display of traffic messages on map (symbols)	-	-	+
On-board computer functions	-	-	+
On-board navigation	+	+	+
Gyroscope	+	+	+
Speedometer signal	+	+	+
Automatic length calibration via GPS	+	+	+
Voice output	+	+	+
Spoken traffic messages	+	-	-
Display of street travelled	+	+	+
Display of next street	+	+	+
Remaining km	+	+	+
Arrival time	+	+	+
TMC module			
Additional information retrieved on display	+	+	+
Spoken message output in German abroad	+	+	+
CD			
Audio CD playback	+	+	-
Listen to favourite CDs with optimum route to destination	+	+	+
MP3			
MP3 playback from CD-R/RW	+	-	-
Display of directories	+	-	-
Display of file names	+	-	-
Convenient MP3 browsing without interruption	+	-	-
Display of ID3 tags (V1)	+	-	-
Bit rate	+	-	-
Mix	+	-	-
Scan	+	-	-
Amplifier			
4 x 26 W RMS	+	+	-
4 x 50 W max. power	+	+	-
Digital parametric 5-band equalizer	+	+	-
Automatic volume adjustment	+	+	+
Source-specific tone control	+	+	-
Loudness (adjustable)	+	+	-
4-channel preamp out (4V)	+	+	-
Radio			
FM, MW, LW	+	+	-
DigiCetiver for best reception	+	+	-
AM noise suppression	+	+	-
RDS EOM PTY	+	+	-
Optimized digital channel separation (SHARX)	+	+	-
30 station presets	+	+	-
Miscellaneous			
Flip-release panel	+	+	-
Clock display	-	-	+
Telephone mute	+	+	-
TCM out	-	-	-
Steering wheel remote control (extra)	+	+	+
High-end navigation system with infrared remote control	+	+	+
Large format: modern design in 16:9 format	-	-	+
Extensible: connections for different components (for dynamic route guidance, steering wheel remote control, video, etc.)	-	-	+
Memory: memory for last 12 destinations, storage in alphabetical order	-	-	+
Informative: on-board computer functions (display of arrival time and remaining km, current speed, km travelled, total driving time, average speed), 46 forms of additional information such as petrol stations, tourist attractions and covered parking can be added	-	-	+
Flexible: adjustable height, contrast and brightness	-	-	+
Theft protection: monitor is easy to remove	-	-	+
Traffic congestion avoidance: fully automatic route guidance via RDS/TMC (important: suitable TMC source required)	-	-	+
Optional speed signal hook-up	+	+	-

Product	
	DVD ME 4
Page	34
DVD video	single + double layer
Video CD	VCD/SVCD
Audio CD	CD, CD-R, CD-RW
MP3	CDs with MP3 files
Disc/display size	12/8 cm / VFD
Colour of the operating display (LED)	blue
Infrared receiver	built-in
On/off switch/eject	+/-
Loading mechanism	inload
Password function/angle function	+ / Multi
Picture format	16:9/4:3 adjustable
PAL/NTSC switch	auto
On-screen display (OSD)	+
TV screen	4:3/16:9 letterbox/wide
TV type	PAL/NTSC
Language selection	+
On-screen display on/off	+
DVD/AV switch	+
Operating voltage	10 - 23 V
Dimensions (W x H x D)	178 mm x 50 mm x 187 mm
Weight/installation	1700 g/horizontal + vertical
Region code	2





Chicago IVDN-7003	Aspen IVDN-7003	Chicago IVDM-7003	Aspen IVDM-7003	Product
25	25	32	33	Page
-	-	-	-	Navigation
+	+	+	+	Optimal route configuration
-	-	-	-	Traffic congestion avoidance with dynamic, proactive navigation
+	+	+	+	New destination input in corridor with no CD change
-	-	-	-	Clear route guidance with natural speech and symbols
+	+	+	+	Postal code input
-	-	-	-	Listen to CD during dynamic, proactive navigation
+	+	+	+	Traffic congestion ahead function
+	+	+	+	Display of special destinations
+	+	+	+	Navigation CD included
+	+	+	+	Last 20 City history
-	-	-	-	House number exact route guidance
-	-	-	-	Dynamic navigation also in corridor mode
+	+	+	+	Display of traffic messages on map (symbols)
+	+	+	+	On-board computer functions
+	+	+	+	On-board navigation
+	+	+	+	Gyroscope
+	+	+	+	Speedometer signal
+	+	+	+	Automatic length calibration via GPS
-	-	-	-	Voice output
+	+	+	+	Spoken traffic messages
+	+	+	+	Display of street travelled
+	+	+	+	Display of next street
+	+	+	+	Remaining km
+	+	+	+	Arrival time
				TMC module
+	+	+	+	Additional information retrieved on display
+	+	+	+	Spoken message output in German abroad
				Radio
+	+	+	+	FM,
+	+	+	+	MW
+	+	+	+	AM
+	+	+	+	RDS
+	+	+	+	Station naming
				CD
+	+	+	+	Audio CD playback
+	+	+	+	CD-ROM playback
+	+	+	+	CD-RW compatible
+	+	+	+	Disc up/down
+	+	+	+	Disc Scan
+	+	+	+	Track up/down
+	+	+	+	Track scan
+	+	+	+	Cue/review
				Audio features
				Digital output
				DVD/Compatibility
				DVD video
				DVD media
				Video CD
				Audio CD
				MP3
				DVD features
				Loading mechanism
				Password function
				Angle function
				Picture format
				PAL/NTSC switch
				Dolby Digital support
				DTS support
				On-screen display (OSD)
				Selection of menu, title, chapter
				Language selection
				Subtitles
				Setup features
				TV screen
				TV type
				Picture resolution
				Angle adjustment
				Remote control
				Power on/off
				Menu selection
				Brightness
				Language selection
				Subtitle selection
				Fast cue/review
				Search cue/review
				Play/stop/pause
				Next/previous chapter/title
				On-screen display on/off
				Angle selection
				Audio selection
				DVD/AV switch
				Monitor
				Monitor size
				Visible picture/diagonal
				Resolution (horizontal x vertical)
				Horizontal viewing angle
				Vertical viewing angle
				System
				Switch
				Connections
				Remote control input
				Telephone mute connection
				RGB input
				External IR receiver
				Integrated IR receiver
				Miscellaneous
				Flip panel
				Flip-release panel
				TMC out FM
				TMC out DAB
				Display colour, numbers
				Display brightness
				Angle
				Theft protection; flip-release panel
				Clock display
				Navigation control
				IR remote control included
				IR remote control as optional accessory
				Steering wheel remote control included
				Steering wheel remote control as optional accessory
				Dimensions (W x H x D) mm Operating panel
				Dimensions (W x H x D) mm Control box
				Black front panel
SPDIF (5.1)	-	SPDIF (5.1)	-	
single + double layer DVD-R, -RW, +R, +RW VCD/SVCD CD/CD-R/CD-RW CDs/DVDs with MP3 files	single + double layer DVD-R, -RW, +R, +RW VCD/SVCD CD/CD-R/CD-RW CDs/DVDs with MP3 files	single + double layer DVD-R, -RW, +R, +RW VCD/SVCD CD/CD-R/CD-RW CDs/DVDs with MP3 files	single + double layer DVD-R, -RW, +R, +RW VCD/SVCD CD/CD-R/CD-RW CDs/DVDs with MP3 files	
inload +	inload +	inload +	inload +	
Multi 16:9/4:3 adjustable automatic/manual	Multi 16:9/4:3 adjustable automatic/manual	Multi 16:9/4:3 adjustable automatic/manual	Multi 16:9/4:3 adjustable automatic/manual	
+	+	+	+	
+	+	+	+	
+	+	+	+	
+	+	+	+	
+	+	+	+	
4:3/4:3 letterbox/wide PAL / NTSC auto/high/flicker-free on/off	4:3/4:3 letterbox/wide PAL / NTSC auto/high/flicker-free on/off	4:3/4:3 letterbox/wide PAL / NTSC auto/high/flicker-free on/off	4:3/4:3 letterbox/wide PAL / NTSC auto/high/flicker-free on/off	
+	+	+	+	
+	+	+	+	
+	+	+	+	
+	+	+	+	
2x, 4x, 6x, 8x 2x, 4x, 6x, 8x +/-/+	2x, 4x, 6x, 8x 2x, 4x, 6x, 8x +/-/+	2x, 4x, 6x, 8x 2x, 4x, 6x, 8x +/-/+	2x, 4x, 6x, 8x 2x, 4x, 6x, 8x +/-/+	
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+	+	+	+	
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+	+	+	+	
7"	7"	7"	7"	
17,5 cm 1440 x 234 +/-60 degrees +60/-30 degrees PAL/NTSC automatic	17,5 cm 1440 x 234 +/-60 degrees +60/-30 degrees PAL/NTSC automatic	17,5 cm 1440 x 234 +/-60 degrees +60/-30 degrees PAL/NTSC automatic	17,5 cm 1440 x 234 +/-60 degrees +60/-30 degrees PAL/NTSC automatic	
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180 x 50 x 26,7 mm 175 x 50 x 235 mm	180 x 50 x 26,7 mm 175 x 50 x 235 mm	180 x 50 x 26,7 mm 175 x 50 x 235 mm	180 x 50 x 26,7 mm 175 x 50 x 235 mm	
+	+	+	+	

Product	IVTV-03
Seite	35
Tuner type	analogue
No. of A/V inputs	2 (cinch)
No. of A/V outputs	1 (cinch)
Antenna inputs (Diversity)	4
Signal system	PAL B/G, B/H, I, D/K, AUS, SECAM L/L, BG, DKK1
Dimensions	182 x 27,4 x 134 mm
Weight	640 g
Included	Passive, 4-fold diversity antenna IR remote control







Product	IVSC-5502	IVSC-3302	IVSC-1102
Page	35	35	35
Connectable A/V sources	4	3	1
A/V outputs	4 (composite video)	3 (composite video)	1 (RGB)
Switch-in for monitors	+	+	-
Integrated power supply for monitors	+	+	-
Connections	4 signal inputs (50 Hz/60 Hz composite video/audio) 1 navigation input (RGB) 4 signal outputs (50 Hz/60 Hz composite video/audio) 1 navigation output (RGB) Line out to radio or amp, switchable (0 dB, +10 dB) 12 V input	3 signal inputs (50 Hz/60 Hz composite video/audio) 3 signal outputs (50 Hz/60 Hz composite video/audio) Line out to radio or amp, switchable (0 dB, +10 dB) 12 V input	1 signal input (50 Hz/60 Hz composite video/audio) 1 signal output (50 Hz/60 Hz composite video/audio) 12 V input
Dimensions (W x D x H)	205 x 45 x 146 mm	205 x 45 x 146 mm	123 x 29 x 98 mm
Included	IR remote control Cable for 12 V/ground	IR remote control Cable for 12 V/ground	Cable for 12 V/ground

Product	IVMS-5802	IVMS-6502	IVMR-7002	IVMR-9002	IVMR-1042	IVMR-1542
Page	36	37	38	38	39	39
Visible picture/diagonal	14.4 cm	16.1 cm	17.6 cm	22.7 cm	26.4 cm	39.1 cm
Resolution (horizontal x vertical)	1200 x 234	1200 x 234	1200 x 234	1920 x 480	1920 x 480	1280 x 480
Horizontal viewing angle	+/-60°	+/-60°	+/-60°	+/-65°	+/-45°	+/-70°
Vertical viewing angle	+/-30°	+30°/60°	+/-50°	50/65	40/15	+/-60°
Brightness	400 cd/m ²	350 cd/m ²	320 cd/m ²	300 cd/m ²	290 cd/m ²	220 cd/m ²
System	PAL/NTSC	PAL/NTSC	PAL/NTSC	PAL/NTSC	PAL/NTSC	PAL/NTSC
Switch	automatisch	automatisch	automatisch	automatisch	automatisch	automatisch
Video input	1.0 Vpp, 75 Ohm	1.0 Vpp, 75 Ohm	0.7 Vpp-2.0 Vpp, 75 Ohm	0.7 Vpp-2.0 Vpp, 75 Ohm	0.7 Vpp-2.0 Vpp, 75 Ohm	0.7 Vpp-2.0 Vpp, 75 Ohm
Audio input	0-0.3 Vrms	0-0.3 Vrms	0-0.3 Vrms	0-0.3 Vrms	0-0.3 Vrms	0-0.3 Vrms
Audio frequency range	20 Hz-20 kHz	20 Hz-20 kHz	1 Watt, 280 Hz-20 kHz	1 Watt, 280 Hz-20 kHz	1 Watt, 280 Hz-20 kHz	1 Watt, 280 Hz-20 kHz
Operating elements						
Power on/off	•	•	•	•	•	•
On-screen display (OCD)	•	•	•	•	•	•
Cursor up	•	•	•	•	•	•
Cursor down	•	•	•	•	•	•
CH (source channel)	•	•	•	•	•	•
LED operating display (on/off)	-/blue	-/blue	blue LED on/off	blue LED on/off	blue LED on/off	blue LED on/off
Infrared remote control	•	•	•	•	•	•
Earphones	optional	optional	optional	optional	optional	optional
Infrared earphones	-	-	optional	optional	optional	optional
Additional illumination	-	-	•	•	•	•
Integrated speaker	1	1	1	built-in	built-in	•
OSD features						
Volume	•	•	•	•	•	•
Brightness	•	•	•	•	•	•
Contrast	•	•	•	•	•	•
Colour strength	•	•	full color	full color	full color	full color
Tint (for NTSC only)	•	•	•	•	•	•
Picture settings	3 options	3 options	3 options	3 options	3 options	3 options
Picture inversion (left-right/top-bottom)	•	•	•	•	•	•
Reset picture	•	•	•	•	•	•
Connections						
AV input	13-pin plug combined with power, ground and system control	13-pin plug combined with power, ground and system control	13-pin plug combined with power, ground and system control	13-pin plug combined with power, ground and system control	13-pin plug combined with power, ground and system control	13-pin plug combined with power, ground and system control
Voltage supply						
Operating voltage	12 volts	13 volts	10-16 volts	10-16 volts	10-16 volts	10-16 volts
Maximum consumption	< 600 mA	< 700 mA	n/a	n/a	n/a	n/a
Stand-by consumption	< 1 mA	< 1 mA	n/a	n/a	n/a	n/a
Miscellaneous						
Operating temperature range	0 to +60° C	0 to +60° C	0 to +60° C	0 to +60° C	0 to +60° C	0 to +50° C
Storage temperature range	-20 to +80° C	-20 to +80° C	-30 to +80° C	-30 to +80° C	-30 to +80° C	
Mechanical data						
Monitor dimensions (W x H x D in mm)	150 x 107 x 24	161 x 107 x 24	233 x 219 x 54 mm	165 x 122 x 26.7 mm	176 x 122 x 26.7 mm	344 x 222 x 6.5 mm
Installation bracket dimensions (W x H x D in mm)	165 x 122 x 27	176 x 121 x 27	n/a	n/a	n/a	n/a
Weight	400 g	400 g	1.100 g	n/a	n/a	n/a

							Product
VPA 11500	VPA 4120	VPA 2120	VA 1400	VA 2100	VA 4100	THA 1400	
50	50	50	51	51	51	52	Page
7607 792 072	7607 792 074	7607 792 073	7607 792 108	7607 792 109	7607 792 110	7607 792 104	Part number
4,500 Watts	1,400 Watts (4-channel mode)	700 Watts (2-channel mode)	1,800 Watts	800 Watts (2-channel mode)	1,400 Watts (2-channel mode)	1,300 Watts	Total output power (2 ohms)
1 x 1,500 Watts	4 x 120 Watts / 2 x 350 Watts	2 x 120 Watts / 1 x 350 Watts	1 x 450 Watts	2 x 100 Watts / 1 x 350 Watts	4 x 100 Watts / 2 x 300 Watts	1 x 400 Watts	RMS power (4 ohms)
1 x 3,000 Watts	4 x 250 / 2 x 750 Watts	2 x 250 / 1 x 750 Watts	1 x 1,200 Watts	2 x 250 / 1 x 900 Watts	4 x 250 / 2 x 700 Watts	1 x 1,000 Watts	Max power (4 ohms)
1	4/3/2	2/1	1	2/1	4/3/2	1	Number of channels
1	4	2	1	2	4	1	Speaker outputs
Cinch, chrome-plated	Cinch, chrome-plated	Cinch, chrome-plated	Cinch, gold-plated	Cinch, gold-plated	Cinch, gold-plated	Cinch, gold-plated	Preamp-in
10 – 500 Hz	10 – 50,000 Hz	10 – 50,000 Hz	15 – 250 Hz	15 – 50,000 Hz	15 – 50,000 Hz	10 – 30,000 Hz	Frequency range Hz
2 Ohms	2 Ohms	2 Ohms	2 Ohms	2 Ohms	2 Ohms	2 Ohms	Stability
> 100 dBa	> 100 dBa	> 100 dBa	> 100 dBa	> 100 dBa	> 100 dBa	> 100 dBa	Signal/noise ratio
0.2 – 5 Volts	0.3 – 8 Volts	0.2 – 5 Volts	0.3 – 8 Volts	0.3 – 8 Volts	0.3 – 8 Volts	0.3 – 8 Volts	Gain adjust
50 – 250 Hz	50 – 250 Hz	50 – 250 Hz	50 – 250 Hz	50 – 250 Hz	50 – 250 Hz	20 – 250 Hz	Low pass
–	50 – 250 Hz	50 – 250 Hz	–	50 – 250 Hz	50 – 250 Hz	–	High pass
Subsonic filter	Subsonic filter	Subsonic filter	Cable remote control	Cable remote control	Cable remote control	Cable remote control	Special features
Bass boost 0 – 12 dB	Bass boost 0 – 12 dB	Bass boost 0 – 12 dB	Variable Flanken-			Subsonic filter	
Phase switch	Phase switch	Phase switch	Variable slope, low pass				
Cable remote control	Cable remote control	Cable remote control					
700 x 90 x 280 mm	465 x 90 x 280 mm	345 x 90 x 280 mm	490 x 60 x 300	361 x 60 x 300 mm	491 x 60 x 300 mm	502 x 43 x 251	Dimensions W x H x D (mm)

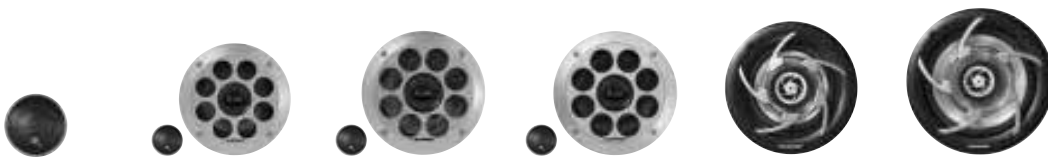
							Product
THA 280	THA 480	GTA 200 Flash	GTA 400 Flash	GTA 1300	GTA 270	GTA 470	
52	52	53	53	53	53	53	Page
7607 792 105	7607 792 106	7607 792 102	7607 792 103	7607 792 079	7607 792 075	7607 792 077	Part number
600 Watts (2-channel mode)	1,200 Watts (4-channel mode)	350 Watts (2-channel mode)	600 Watts (4-channel mode)	900 Watts	400 Watts (2-channel mode)	800 Watts (4-channel mode)	Total output power (2 ohms)
2 x 80 Watts / 1 x 240 Watts	4 x 80 Watts / 2 x 240 Watts	2 x 45 Watts / 1 x 140 Watts	4 x 45 Watts / 2 x 140 Watts	1 x 300 Watts	2 x 70 Watts / 1 x 200 Watts	4 x 70 Watts / 2 x 200 Watts	RMS power (4 ohms)
2 x 200 / 1 x 600 Watts	4 x 200 / 2 x 600 Watts	2 x 90 / 1 x 350 Watts	4 x 90 / 2 x 300 Watts	1 x 750 Watts	2 x 150 / 1 x 400 Watts	4 x 150 / 2 x 400 Watts	Max power (4 ohms)
2/1	4/3/2	2/1	4/3/2	1	2/1	4/3/2	Number of channels
2	4	2	4	1	2	4	Speaker outputs
Cinch, gold-plated	Cinch, gold-plated	Cinch, gold-plated	Cinch, gold-plated	Cinch, gold-plated	Cinch, gold-plated	Cinch, gold-plated	Preamp-in
10 – 30,000 Hz	10 – 30,000 Hz	10 – 55,000 Hz	10 – 55,000 Hz	10 – 300 Hz	10 – 26,000 Hz	10 – 26,000 Hz	Frequency range Hz
2 Ohms	2 Ohms	2 Ohms	2 Ohms	2 Ohms	2 Ohms	2 Ohms	Stability
> 100 dBa	> 100 dBa	> 85 dBa	> 85 dBa	> 90 dBa	> 90 dBa	> 90 dBa	Signal/noise ratio
0.3 – 8 Volts	0.3 – 8 Volts	0.1 – 8 Volts	0.1 – 8 Volts	0.3 – 8 Volts	0.3 – 8 Volts	0.3 – 8 Volts	Gain adjust
50 – 250 Hz	50 – 250 Hz	40 – 160 Hz	50 – 250 Hz	50 – 250 Hz	50 – 250 Hz	50 – 250 Hz	Low pass
50 – 250 Hz	50 – 250 Hz	100 Hz	50 – 250 Hz	50 – 250 Hz	50 – 250 Hz	50 – 250 Hz	High pass
Bass boost 0 – 12 dB	–	Bass boost 0/9 dB	Bass boost 0/9 dB	Bass boost 0 – 12 dB	Bass boost 0 – 12 dB	Bass boost 0 – 12 dB	Special features
Cable remote control				Subsonic filter			
352 x 43 x 251 mm	482 x 43 x 250 mm	218 x 60 x 246 mm	328 x 60 x 246 mm	340 x 49 x 254	200 x 49 x 254 mm	290 x 49 x 254 mm	Dimensions W x H x D (mm)

						Product
VPw 300	VPw 380	VPw 460	Vw 250	Vw 300	Vw 380	
58	58	58	58	58	58	Page
7 606 291 000	7 606 281 002	7 606 293 000	7 606 344 000	7 606 345 000	7 606 349 000	Part number
Subwoofer	Subwoofer	Subwoofer	Subwoofer	Subwoofer	Subwoofer	System
300	380	460	250	300	380	Diameter (mm)
1,200 Watts	1,500 Watts	1,800 Watts	500 Watts	750 Watts	1,000 Watts	Rated power
3,600 Watts	4,500 Watts	5,400 Watts	1,500 Watts	2,250 Watts	3,000 Watts	Peak-power handling
93 dB	93 dB	93 dB	92 dB	93 dB	94 dB	Sensitivity 2.83 V/m
35 – 2,500 Hz	35 – 2,500 Hz	35 – 2,500 Hz	35 – 1,000 Hz	30 – 1,000 Hz	25 – 1,000 Hz	Frequency range Hz
2 x 2 Ohms	2 x 2 Ohms	2 x 2 Ohms	2 x 2 Ohms	2 x 2 Ohms	2 x 2 Ohms	Impedance
Carbon/fibreglass	Carbon/fibreglass	Carbon/fibreglass	Fibreglass	Fibreglass	Fibreglass	Cone material
182 mm	206 mm	245 mm	121 mm	142 mm	179 mm	Installation depth (mm)

Product						
	ODsb 8000A	THb 250	THb 300	GTt 300	GTb 300	GTb 300 Dual
Page	59	60	60	61	61	61
Part number	7 606 318 000	7 606 338 000	7 606 339 000	7 606 439 000	7 606 450 000	7 606 451 000
System	active subwoofer box	Subwoofer box	Subwoofer box	Subwoofer tube	Subwoofer box	Subwoofer box
Diameter (mm)	200	250	300	300	300	2 x 300
Rated power	70 Watts	200 Watts	250 Watts	200 Watts	250 Watts	2 x 250 Watts
Peak-power handling	140 Watts	600 Watts	750 Watts	600 Watts	750 Watts	2 x 750 Watts
Sensitivity 2.83 V/m	active system	92 dB	93 dB	91 dB	91 dB	96 dB
Frequency range Hz	30 – 120 Hz	40 – 1,000 Hz	35 – 1,000 Hz	35 – 500 Hz	35 – 500 Hz	25 – 500 Hz
Impedance	–	4 Ohms	4 Ohms	4 Ohms	4 Ohms	2 x 4 Ohms
Cone material	Spun Paper	Injected PP	Injected PP	Spun Paper	Spun Paper	Spun Paper
Installation depth (mm)	288 x 274 x 238 mm	450 x 310 x 220 mm	500 x 365 x 240 mm	484 mm x 328 mm Ø	432 x 387 x 378 mm	864 x 378 x 387

Product							
	VPc 132	VPc 172	Vb 250	Vb 300	Vc 132	Vc 172	ODx 92
Page	64	64	59	59	65	65	67
Part number	7 606 274 003	7 606 273 003	7 606 346 000	7 606 347 000	7 606 342 000	7 606 343 000	7 606 320 001
System	2-way component	2-way component	Subwoofer box	Subwoofer box	2-way component	2-way component	2-way coaxial
Diameter (mm)	130	165	250	300	130	165	87
Rated power	100 Watts	120 Watts	200 Watts	400 Watts	80 Watts	100 Watts	30 Watts
Peak-power handling	300 Watts	360 Watts	600 Watts	1,200 Watts	240 Watts	300 Watts	90 Watts
Sensitivity 2.83 V/m	91 dB	92 dB	93 dB	94 dB	91 dB	92 dB	89 dB
Frequency range Hz	Open	Open	40 – 1,000 Hz	35 – 1,000 Hz	Open	Open	80 – 22,000 Hz
Impedance	4 Ohms	4 Ohms	2 x 2 Ohms	2 x 2 Ohms	4 Ohms	4 Ohms	4 Ohms
Cone material	CFG/Tetron	CFG/Tetron	Fibreglass	Fibreglass	Fibreglass/silk	Fibreglass/silk	Fibreglass/titanium
Installation depth (mm)	63.5	72	390 x 330 x 350 mm	435 x 390 x 400 mm	53	58.5	27

Product							
	ODx 102	ODx 462	ODx 132	ODx 162	ODx 172	ODx 573	ODx 693
Page	67	67	66	66	66	67	67
Part number	7 606 321 001	7 606 322 001	7 606 301 001	7 606 323 001	7 606 302 001	7 606 324 001	7 606 325 001
System	2-way coaxial	2-way coaxial	2-way coaxial	2-way coaxial	2-way coaxial	3-way triaxial	3-way triaxial
Diameter (mm)	100	4" x 6"	130	160	165	5" x 7"	6" x 9"
Rated power	40 Watts	40 Watts	60 Watts	70 Watts	70 Watts	90 Watts	100 Watts
Peak-power handling	120 Watts	120 Watts	180 Watts	210 Watts	210 Watts	270 Watts	300 Watts
Sensitivity 2.83 V/m	90 dB	90 dB	90 dB	91 dB	91 dB	92 dB	92 dB
Frequency range Hz	70 – 22,000 Hz	70 – 22,000 Hz	60 – 22,000 Hz	50 – 22,000 Hz	50 – 22,000 Hz	45 – 22,000 Hz	40 – 22,000 Hz
Impedance	4 Ohms	4 Ohms	4 Ohms	4 Ohms	4 Ohms	4 Ohms	4 Ohms
Cone material	Fibreglass/titanium	Fibreglass/titanium	Fibreglass/titanium	Fibreglass/titanium	Fibreglass/titanium	Fibreglass/titanium	Fibreglass/titanium
Installation depth (mm)	34.5	34	41.5	37.5	45.5	42.5	57

						Product
ODc 25	ODc 132	ODc 162	ODc 172	THx 102	THx 132	
67	66	66	66	68	68	Page
7 606 326 001	7 606 303 001	7 606 327 001	7 606 304 001	7 606 332 000	7 606 333 000	Part number
Tweeter	2-way component	2-way component	2-way component	2-way coaxial	2-way coaxial	System
25	130	160	160	100	130	Diameter (mm)
100 Watts	60 Watts	70 Watts	80 Watts	40 Watts	40 Watts	Rated power
300 Watts	180 Watts	210 Watts	240 Watts	120 Watts	120 Watts	Peak-power handling
91 dB	90 dB	91 dB	91 dB	91 dB	91 dB	Sensitivity 2.83 V/m
2,500 – 23,000 Hz	70 – 23,000 Hz	65 – 23,000 Hz	65 – 23,000 Hz	80 – 22,000 Hz	70 – 22,000 Hz	Frequency range Hz
4 Ohms	4 Ohms	4 Ohms	4 Ohms	4 Ohms	4 Ohms	Impedance
Silk	Fibreglass/silk	Fibreglass/silk	Fibreglass/silk	Injected PP/PEI	Injected PP/PEI	Cone material
18	43	37,5	45	33	40	Installation depth (mm)

						Product
THx 172	THx 693	THc 132	THc 172	GTx 102	GTx 462	
68	68	68	68	69	69	Page
7 606 334 000	7 606 335 000	7 606 336 000	7 606 337 000	7 606 431 001	7 606 434 001	Part number
2-way coaxial	3-way triaxial	2-way component	2-way component	2-way coaxial	2-way coaxial	System
165	6" x 9"	130	165	100	4" x 6"	Diameter (mm)
50 Watts	70 Watts	50 Watts	60 Watts	30 Watts	35 Watts	Rated power
150 Watts	210 Watts	150 Watts	180 Watts	90 Watts	110 Watts	Peak-power handling
92 dB	93 dB	92 dB	92 dB	90 dB	91 dB	Sensitivity 2.83 V/m
60 – 22,000 Hz	50 – 22,000 Hz	70 – 22,000 Hz	60 – 22,000 Hz	90 – 20,000 Hz	80 – 20,000 Hz	Frequency range Hz
4 Ohms	4 Ohms	4 Ohms	4 Ohms	4 Ohms	4 Ohms	Impedance
Injected PP/PEI	Injected PP/PEI	Injected PP/PEI	Injected PP/PEI	Injected PP/PEI	Injected PP/PEI	Cone material
43	54	40	43	39.4	45	Installation depth (mm)

						Product
GTx 132	GTx 172	GTx 173	GTx 693	GTx 203	GTc 172	
69	69	69	69	69	69	Page
7 606 430 001	7 606 428 001	7 606 425 001	7 606 427 001	7 606 426 001	7 606 429 001	Part number
2-way coaxial	2-way coaxial	3-way triaxial	3-way triaxial	3-way triaxial	2-way component	System
130	165	165	6" x 9"	200	165	Diameter (mm)
35 Watts	40 Watts	45 Watts	50 Watts	50 Watts	45 Watts	Rated power
110 Watts	120 Watts	140 Watts	150 Watts	150 Watts	140 Watts	Peak-power handling
91 dB	92 dB	93 dB	92 dB	92 dB	91 dB	Sensitivity 2.83 V/m
70 – 20,000 Hz	60 – 20,000 Hz	40 – 22,000 Hz	40 – 22,000 Hz	40 – 22,000 Hz	60 – 20,000 Hz	Frequency range Hz
4 Ohms	4 Ohms	4 Ohms	4 Ohms	4 Ohms	4 Ohms	Impedance
Injected PP/PEI	Injected PP/PEI	Injected PP/PEI	Injected PP/PEI	Injected PP/PEI	Injected PP/PEI	Cone material
48	56	56	72.4	76	56	Installation depth (mm)

**Service numbers/Numéros du service après-vente/
Números de servicio/Número de serviço**

Germany	(D)	Phone 0180-5000225	Fax 0 51 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 0800 400 1010	Fax 0800 400 1040
Norway	(N)	Phone 66-817 000	Fax 66-817 157
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 800-2662528	Fax 708-6817188
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