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WHD stands for fascinating audio solutions.

WHD develops innovative audio products and, thanks to its high degree of vertical integration, produces tailor-made solutions for projects and industrial customers with a focus on excellent sound quality, high-class design and functional operation. Another focus for WHD is invisible sound systems and smart solutions for the home.







Projects

Hotels, ships, airports, stadiums, shops, halls, and medical practices: WHD has many years of experience in planning projects large and small and reliably implementing them worldwide.

Industry customers

WHD offers tailor-made audio solutions and takes charge of the complete product development. Thanks to our high degree of vertical integration, we are able to provide individually designed audio products for custom solutions.

For the home

High-quality audio products for the home – forward thinking, puristic and simple. In both multi-room and mobile Bluetooth products, great sound and high-quality design are a high priority for WHD.



Qube 2 Go

WLAN speaker

Thanks to well balanced sound characteristics, the Qube 2 Go produces clean and mellow middle tones. What's more, we designed and developed the Qube so that its characteristic powerful sound remains distortion-free, even at high volumes. For example, the robust and ultra-sealed housing means that there is no background noise. All these features result in long-term enjoyment. And to guarantee that this remains the case, we have installed an ultra-powerful, 4,400mAh lithium-ion battery that will give you over 8 hours of ultimate listening pleasure.

A design that fits both you and your environment. The Qube's design, which is soft to the touch with a slightly rough surface thanks to its special finish, guarantees feedback with every touch. Its minimalist look integrates perfectly into its surroundings with elegance, timelessness and class. The real highlight is that you can order the Qube in your favorite color, making it your own personal companion.

Instantly on the air

Thanks to our intelligent MemoRadio technology, you'll always find your favorite radio station wherever the Qube is, as soon as you turn it on.



Matt titanium gray, anodized



Matt gold, anodized



White

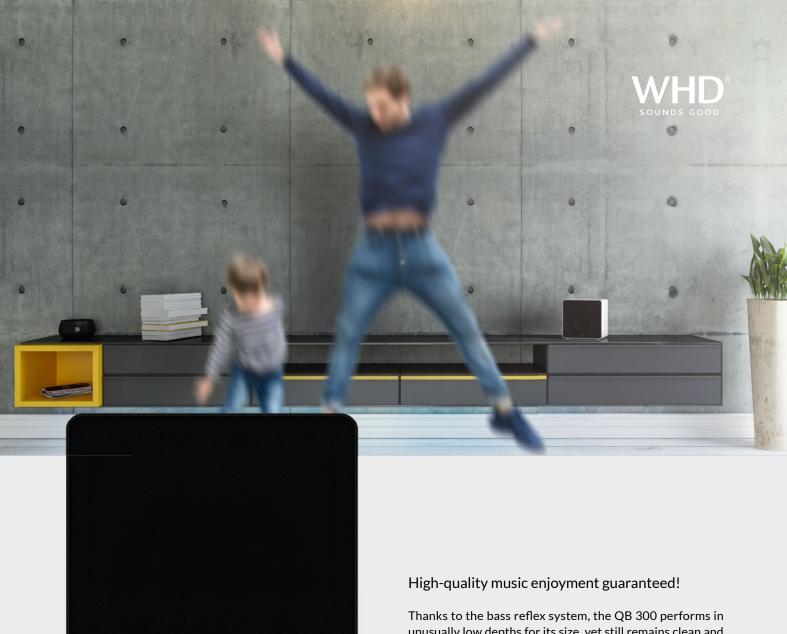


Black



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QB 300

Passive speaker

Well-rounded to the max

The QB 300 two-way passive speaker is a systematic enhancement to WHD's hi-fi product line.

WHD



The QB 300 is the ideal solution for any home theater, living room, bar, café or boutique.

Thanks to the bass reflex system, the QB 300 performs in unusually low depths for its size, yet still remains clean and clear. Its weight of almost 3 kg is an indicator of the selection of top-quality components and materials used. The robust aluminum housing is part of the reason the QB 300 has earned its high-end title. With an edge length of just 17 cm, it is a truly compact powerhouse and will fit easily into any setting. Thanks to its timeless design, it always performs unobtrusively in the background, yet really stands out when required. With the optional WH QB 300 wall bracket it can even be attached to the wall so that it can swivel and tilt.

Technical data:

Concept: 2-way loudspeaker Dimensions: $170 \times 170 \times 170 \text{ mm}$

Net volume: 2.8 liters

Operating principle: Bass reflex
Maximum sound pressure level: 98 dB
Rated / musical power: 30 W / 60 W
Frequency range (-3 dB): 90 Hz – 28 kHz
Frequency range (-10 dB): 75 Hz – 30 kHz

Crossover frequency: 2.6 kHz



Qube XL

Active speaker

Full-scale dynamics

While its little brother, the Qube 2 go, has already been awarded the IT Innovation Prize in the consumer electronics sector, the Qube XL raises the bar even higher when it comes to technology.

Packs a punch, whether loud or quiet

A special feature of this classic cube-shaped speaker is the integrated digital signal processor (DSP), which adapts the it also generates full volumes effortlessly. Like all the Qubes in this product line, the Qube XL delivers balanced sound and makes for a brilliant listening experience all the way from quiet to loud!

Active all-rounder

The Qube XL is equipped with a Bluetooth and Wi-Fi chip, and can also handle the standard formats Airplay, UpnP and DLNA. Thanks to its line input, music can also be played from other sources, such as a PC or laptop. An additional Qube XL can also be connected to create a balanced stereo environment. Several Qubes can be controlled at once using the WHD Multiplayer app, so that top-quality audio can be played individually in each room.

Control via WHD app and buttons

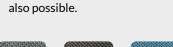
The Qube XL is integrated into the user's Wi-Fi network via the WHD Multiplayer app. Internet radio stations can also be saved and then accessed via the app or buttons. Other functions of the built-in buttons include play/pause, skip tracks in a playlist and volume.



Design & features:

- Optionally starts up with a favorite radio station after switching on
- Multi-room via WHD app
- High-quality aluminum housing
- Housing in black and white as standard, also optionally available in any RAL and NCS color
- Cover with white or black textile as standard; fabric patterns in various optional colors also possible















Gray

Dark gray

Powder blue

Duct

Maximum sound pressure level: 96 dB Rated power: 2 × 30 W

Operating principle: closed

Technical data:

Weight: 2,9 kg

(low- and high-frequency power amplifier)

Concept: 2-way active loudspeaker Dimensions: $170 \times 170 \times 170 \text{ mm}$

Frequency range (-3 dB): 40 Hz - 28 kHz (@1 W/81 dB)

Frequency range 31 Hz - 30 kHz (@1 W/81 dB) Emission angle, horizontal 1/2/4/8 kHz (-6 dB):

180°/120°/160°/160°

Connectivity: Wi-Fi (b/g/n), LAN (100 Mbit), Bluetooth 4.0 Operating voltage: 24 V (Supplied: 24 V/2.5 A power

adapter)



In the corner, on the wall or free-standing: Depending on the speaker's installation location, the bass response can be adapted optimally to the room acoustics via three different DSP settings.

WHD



QB 300 WL

On-wall and On-ceiling

The powerful Hifi-Qube from WHD is also available as an all-purpose wall speaker.

Sound from all angles

The QB 300 WL is the optimal solution for rich sound from the walls and ceilings. The half cube takes up just 80 mm of space on the wall and ceiling and, with the optional WH QB 300 ball joint mount, the Qube can even swivel and tilt. The clear design fits unobtrusively into the room, and the high-quality aluminum housing and the cover – available in black and white by default – can also be optionally color-matched to the surroundings. The QB 300 WL is ideal for living rooms, practices, stores and offices. As part of the QB product line, the QB 300 WL also offers extraordinary bass response thanks to its long-throw woofer. The broad sound emission characteristics ensure a homogeneous and balanced sound over a large area.





Technical data:

Concept: 2-way wall speaker Dimensions: $170 \times 170 \times 80 \text{ mm}$

Weight: 1.9 kg | 2.25 kg (without transducer | with transducer)

Operating principle: closed Nominal impedance: 8 Ohm

Maximum sound pressure level: 98 dB Rated / musical power: $30\,W$ / $60\,W$ Frequency range (-3 dB): 120 Hz - 28 kHz Frequency range (-10 dB): 75 Hz - 30 kHz

Design & features:

- High-quality aluminum housing
- Housing in black and white by default, also optionally available in any RAL and NCS color
- Cover with white or black textile as standard; fabric patterns in various optional colors also possible.











Dark gray

Powder blue

Rust

Easy to mount:

Screw the mounting plate to the wall or ceiling and connect the cable. Then simply push the QB 300 WL onto the mounting plate, snap it into place and secure it with a screw.





A 250

Active subwoofer

The high-performance A 250 subwoofer transforms even the largest spaces into a powerful yet balanced listening experience.

Yet the subwoofer does not disrupt this experience, as its restrained design and high-quality black or white finish fits perfectly into any living environment.

Your own ecosystem

Thanks to the integrated amplifier, the subwoofer can reach high volumes, whilst two perfectly matched Qube QB 200s add a multitude of fine details. The perfect team for the living room, home cinema, gaming room or party basement.

The great sound of the A 250 subwoofer

The compact A 250 active subwoofer has a very deep and dry sound for its compact size. But it doesn't take center stage, instead cleanly supporting the low notes. No rattling, just precise pressure and full-bodied sound – that's the key to the 6.5" long-throw subwoofer chassis.

Create your own sound

Too much or too little bass? More intensity, less pressure? You can adjust the ratio of bass to mid/high tones with ease using the two controllers on the rear of the A 250. Take control of how you want to hear, feel and experience the sound at all times. The sensitivity and cut-off frequency of the signal are infinitely variable, meaning it can be optimally configured for any playing partner and any room situation.



Create the perfect hi-fi experience with the Qube QB 200 satellite speaker and the AirBridge WLAN receiver.

E-mail: info@whd.de









A 500

Passive subwoofer

The A 500 passive subwoofer with impulse-compensating dual chassis is a real powerhouse. In combination with the S 350 or QB 300, it delivers the finest performance with remarkable depth and minimal distortion – a premium sound system for the highest demands!

The A 500 passive subwoofer is particularly suitable for combination with conventional stereo amplifiers, for example for the home, as well as for bars and pubs. The sensitivity, separation frequency and phasing of the signal are infinitely adjustable in the active version of the A 500 and can thus be optimally configured for any spatial conditions.

Design & features:

• Color: black or white

Technical data:

Concept: Passive subwoofer with integrated crossover network for connecting QB300 and S350

Dimensions: $350 \times 416 \times 385$ mm

Weight: 22 kg

Operating principle: Bass reflex

Nominal impedance: 8 Ohm

Maximum sound pressure level: 100 dB Rated / musical power: $2 \times 70 \text{ W} / 2 \times 100 \text{ W}$ Frequency range (-3 dB): 28 Hz - 120 Hz

Crossover frequency: 120 Hz



The A 500 is also available as an active version.



S 350

Passive design speaker

When it comes to high-end, the S 350 takes everything in its stride

The S 350 is a two-way high-end design speaker with a long-throw bass chassis and ribbon tweeter. The housing of the S 350 is made of die cast zinc, the cover of the ribbon tweeter and the rear housing is made of aluminum, and the tweeter cover and the ring around the woofer are made of high-quality acrylic glass.

Extraordinary design meets excellent workmanship

The sound brings out every single detail. Whether for gaming, home cinema or as a public address system for shops, offices or boutiques: The S 350 makes a maximum impression. With its weight of just 4 kg per speaker, it can be used effortlessly as a floor-standing or wall-mounted speaker, despite the first-rate workmanship and construction.

Technical data:

Rated / musical power: 30/60 W

Impedance: 8 Ohm

Sound pressure level 1 W/1 m: 81 dB Sound pressure level Pnominal/1 m: 96 dB Frequency range (-3 dB): 100-20000 Hz Frequency range (-10 dB): 60-23000 Hz Accessories: includes brackets or base





Maximum performance in combination with the A 500 active/passive subwoofer!

When combined with the A 500 subwoofer with impulse-compensating double chassis configuration, the S 350 can be expanded into a premium sound system for the highest demands!

E-mail: info@whd.de



We make it easy!

Save time by letting us plan your custom sound systems online!

Start project

Project information, including document upload

planner.whd.de

2. We plan

We plan your custom solution within 48 hours.



3. Done!

You receive finished planning documents including a wiring diagram, equipment set-up and, if required, a consultation.





WHD SL 25

Stone speaker

Weatherproof outdoor speaker

The WHD SL 25 stone speaker and the Bluetooth/WLAN receiver with external weatherproof housing form a high-quality sound system for outdoor use.

- Enjoy your favorite music from your smartphone, MP3 player or tablet, Internet radio or online music service in the garden or out on the patio
- Select your choice of music with ease via Bluetooth/ WLAN from the comfort of your deckchair

GL 100

Garden speaker

360° outdoor speaker

Bluetooth/WLAN speaker for all-round perfect sound

Incorporate the GL 100 and its hand-crafted concrete gray housing in your garden, connect the integrated Bluetooth or Wi-Fi receiver to an external plug socket and enjoy perfect 360° sound with deep bass.

In time for the 2019 garden season, now with Bluetooth and Wi-Fi receiver, as well as DSP technology for even better sound at any volume.

Stream music from your favorite platform!

It's simple to use your favorite streaming service, so you can enjoy music and audiobooks in the garden, too.















Hotel Liberty

The unique sound of freedom!

A former prison has been transformed into a luxury hotel. Hotel Liberty in Offenburg, Germany, offers a unique combination of historic masonry and state-of-the-art design. The sound concept from WHD handles the architectural features in a distinct and intense way, with the demands on technology and visual appearance during planning of the sound concept were very high. The visual appearance of the Liberty was of great importance, in order to preserve the character of its former function as much as possible. Invisible sound systems installed in the ceilings were therefore used in the WCs and in the hallways. The meeting rooms were fully automatically and acoustically separated via KNX, and special

custom-made products such as gimbal speakers were used in the different sound zones – these had to be fitted into existing light housings.

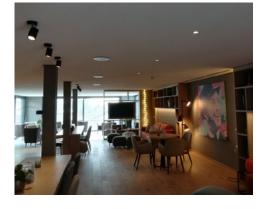
Hotel Liberty meets the highest design standards, without losing its historical roots. The architecture of the prison, built in 1840, was radically broken up in 2017 to create a five-star oasis of well-being out of the massive prison walls. In addition to 38 individually designed rooms and suites, large open space structures such as the atrium restaurant, lounge and library as well as the wine cellar and a suspended hall are ideal for celebrating, relaxing and spending time.

→ www.hotel-liberty.de



"Music helps guests feel good. When they feel good, they are more likely to come back and to tell friends and acquaintances about it".

Stefan Huber, WHD



Hotel Traube

Pleasurable relaxation with perfect sound

Waves and wellness: Hotel Traube is one of the leading hotels in Friedrichshafen on Lake Constance, Germany. WHD contributes to the relaxing atmosphere with harmonized audio solutions in the swimming pool and hotel area. In the indoor pool, for example, the weatherproof built-in "UP 14/2 Marine" loudspeakers were used, which are also used on the outer decks of large cruise ships.

Business travelers and private guests can enjoy the extensive offering of this four-star hotel to the full. In addition to the high-quality culinary offers, guests can indulge in the newly designed spa area with indoor pool, fitness and sauna area.

→ www.traubeamsee.de





The WHD difference

Our large degree of vertical integration makes us unique. From the idea, development, prototyping, project planning or measurement to series production with our own paint shop, we can implement many services in-house. We are thus able to tackle special designs for specific requirements with great experience and composure. By working effectively and passionately as a team, we can develop and produce high-quality solutions that were previously not feasible.

Wärtsilä FUNA / MEYER WERFT

Big sound on big ships

To ensure vacationers can enjoy high-quality sound outside on deck as well, WHD worked on behalf of Wärtsilä FUNA to equip cruise ships from MEYER WERFT with seaworthy loudspeakers. Wärtsilä FUNA, the system integrator specializing in shipping based in Emden, Germany, relied on the compact AL 10 sound column from WHD to do this. Equipped with two seawater-resistant loudspeaker chassis, the weather-resistant AL 10 has a cable gland optimized for ship cables as well as waterproof seals and ship-specific brackets.

Wärtsilä FUNA from Emden in East Frisia is part of the Finnish Wärtsilä Group, which operates globally in the Marine Solutions business, among others. As a system integrator for entertainment, communications and lighting solutions, Wärtsilä FUNA specializes in combining high-quality design and innovative technology in passenger shipbuilding.

The long-established company MEYER WERFT from Papenburg, Germany, relies on technical innovations, new design concepts and new production methods. Well-known cruise ships of leading cruise lines have been and continue to be built at this shipyard in the Emsland district and are then transported along the river Ems to the North Sea.

- → www.meyerwerft.de
- → www.wartsila.com/deu

Important signals for safe production

Big, strong and universally applicable: At Fendt in Ostallgäu, Germany, high-performance agricultural machinery and tractors roll off the assembly line. WHD's ASA 150 signal output module ensures increased safety and smooth functioning of the assembly line. Using the audio memory with integrated amplifier, both defined announcements and warning signals are possible.

The agricultural machinery company in the Bavarian town of Marktoberdorf has been producing efficient tractors and harvesters since 1930.

Quality, profitability and sustainability are very important at Fendt. Thanks to new technology and proven expertise, the machines help farmers around the world achieve their goals faster and reliably increase yields.



→ www.fendt.com

Hotel Simon's Plaza

Modern elegance, practical sound



Just across the border in the Duchy of Luxembourg: The Hotel Simon's Plaza offers a comfortable stay for travelers and conference guests. With the help of the WHD project planner, a team of planners and installers was able to fit the corridors, restaurant, lounge, conference rooms, bar and WCs with new sound technology. As part of the project, M/R 240 design speakers, which were awarded the Innovation Prize for Architecture and Technology, were installed in the ceiling.

The modern Hotel Simon's Plaza is conveniently located between the German city of Trier and Luxembourg, not far from the Moselle river. The four function rooms, the restaurant and the summer terrace provide plenty of space for banquets, family celebrations and office parties. The comfortable rooms, the summer terrace and a fitness area are simply perfect for some well-earned relaxation.

→ www.simons-plaza.com

Hotel Roomers

Only the best: bar, spa and sound

The Roomers Hotel in Baden-Baden, Germany stands out thanks to its exquisite design and top-class furnishings. WHD contributed to this by fitting the 130 rooms and suites as well as the bar and spa area with Bluetooth receivers. The integrated BTR55s in the special color "high-gloss black" fit perfectly into the design hotel's range of

switches. Guests can thus listen to their own streamed music while admiring the view of the Black Forest or enjoy the atmospheric sound at the bar and in the hammam.

Opened in 2016, the Roomers Design Hotel is situated in the heart of the sophisticated and traditional spatown of Baden-Baden in Germany. The

hotel, designed by Piero Lissoni, is full of award-winning catering and bar culture. The rooftop bar and infinity pool offer panoramic views over the world-famous Festival Hall and the Black Forest.

→ www.roomers-badenbaden.com



Planning a project?

Try out our online project planner and leave the planning to us. In addition to the time savings, it will also provide you with a custom plan for your sound solutions. Simple, straightforward, and non-binding!









Lionidas Design

The early bird catches the tune

Playlist, podcast, radio – bathroom mirrors from Lionidas Design always play exactly what you want. The invisible sound system from WHD turns the entire mirror into a resonator, allowing it to produce sound. The mirror can be controlled by up to eight devices, whether smartphones, tablets or MP3 players, via Bluetooth. Invisible sound systems are ideal for bathroom sound systems: Unlike in freestanding speakers, splash protection, hygiene and cleaning are no longer an issue.

The exclusive bathroom mirrors from Lionidas Design are made from high-quality crystal glass at the company's own production facility in Datteln in North Rhine-Westphalia. They can optionally be equipped with LED, neon, halogen and with an invisible sound system including a Bluetooth receiver fitted by WHD.

www.badspiegel.org



The excitement of invisible sound systems

WHD has already successfully brought over 100,000 industrial products to life with its invisible exciter technology. Our systems are also rapidly gaining ground in the public address sector.

→ Workshop: Develop a greatsounding product in just a few steps together with WHD:



http://bit.ly/whd-unsichtbar

Workshop!



Steora Bank

Innovative street furniture, urban sound

The intelligent Steora bench is more than a bench to sit down on: Thanks to WHD's invisible BTR 405 sound system. the multi-functional bench can also produce sounds, be it music via Bluetooth streaming or sound from the built-in monitors. The sound components that are invisibly installed are thus protected against dirt and vandalism and offer vivid and communicative moments for local residents and visitors, young and

The solar-powered benches from Steora are a sustainable and user-friendly seating option for public spaces. This innovative street furniture acts as a Wi-Fi hotspot and wireless charging station for smartphones and other devices and is also fitted with USB ports, night lighting and video displays, among other things.

- → www.enerwit.de
- www.steora.com





"Thanks to WHD, we were able to integrate a perfect sound in our products. As a result, we can now offer our customers an absolutely unique selling point when it comes to bathroom entertainment. We received excellent support from WHD in terms of development and even the feasibility of mass production."

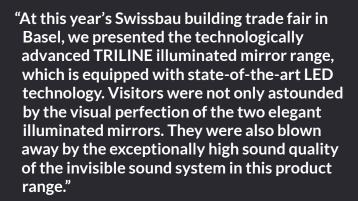
Gunther Stolz, Managing Director of repaBAD GmbH www.repabad.com

"WHD's excellent idea to integrate their sound system in our products has made a real impact, and the combination of decorative veneer lights with sound has inspired many customers. As a result, we've added an additional feature to our Smart Home products and are on the right track towards meeting future standards. The multi-functionality of the product with the Smart Home light and sound is fun and offers the customer not only the convenience of being able to control it via a smartphone, but also a pleasant light, design and great sound."

Christina Mohr, CMO/COO | WOODEN-Germany GmbH www.wooden-germany.de





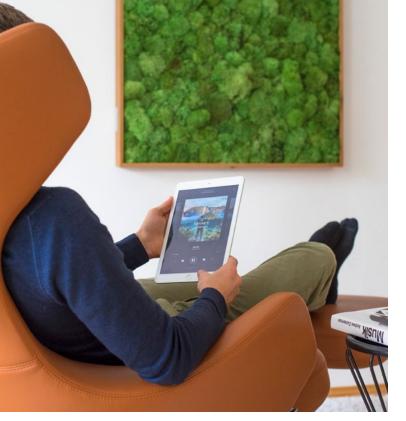


Martin Holenweg, W. Schneider+Co AG www.wschneider.com



Companies choose to add sound to their products if ...

- ... they are planning a **new product** or product line
- ... they want to use technology to make a non-technical product more innovative
- ... there is no room for conventional speakers
- ... they have a product that is directly exposed to the elements, such as a terrace roof or a screening wall
- ... they have a product which could be subjected to vandalism, such as on buses and trains or in parking ticket machines
- ... the **climatic conditions** simply do not allow for conventional speakers in the room, such as in saunas, steam caves, etc.
- ... they want to make music felt through vibrations, for example in relaxation loungers, bathtubs or in medical applications
- ... they have a product that needs to meet the strictest hygienic conditions and conventional speakers are therefore out of the question
- ... there is high competition
 in their market and they cannot come up with any other distinguishing features
- ... they want to make their product more **emotive** by giving it the ability to play music





MY-Electroboat

Lightweight boats, powerful sound

The boat manufacturer MY-Electroboat relies on innovative audio technology from WHD for its modern electric boats. The invisible sound system turns the whole boat into a sound body, as the sound is streamed directly through the body of the boat via the Bluetooth interface. The technology can be installed without mounting openings, thus preserving the design and making care and maintenance extremely easy.



MY-Electroboat from the Bavarian town of Raisting develops and manufactures custom-designed, smooth-running electric boats. Thanks to high-quality materials and state-of-the-art electronics and on-board systems, the boats glide reliably and efficiently across the water, making almost no sound at all.

→ www.my-electroboat.com

styleGREEN

The sound of nature

styleGREEN's sound pictures not only bring nature into our homes. Thanks to the invisible sound system from WHD, the vertical plant walls can also produce sounds depending on taste and mood: The soothing sounds of a flowing stream, chirping in the spring forest or any atmospheric music of choice can be sent to the plant picture with ease from a smartphone or tablet via Bluetooth streaming. The result is an enhanced sense of space thanks to a natural, pleasant atmosphere.

styleGREEN from Höhenkirchen near Munich has been producing vertical plant walls since 2012, both for private households and business spaces. The pictures are made up of real, naturally preserved plants and mosses, which last for many years and do not require any maintenance. The young company is committed to sustainability and high-quality manufactured products.

→ wwww.stylegreen.de



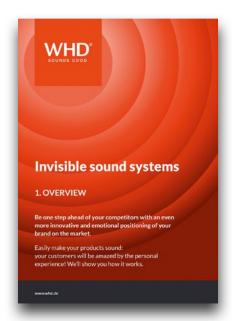
http://bit.ly/whd-stylegreen



Workshop: Invisible sound

Invisible sound systems

Developing a great-sounding product in a short space of time is now possible and simple – with the exclusive **WHD workshop** on **invisible sound systems**.



Invisible sound systems

2. PRODUCT DEVELOPMENT

Looking to equip your products with an invisible sound system and make it sound amazing? We're here to help!
We'll show you just how simple it is: from the initial suitability test to the delivery of a new and innovative product line

Invisible sound systems

3. MARKETING & SALES

Let the music play: Show customers that your product can do even more now.

We'll give you some tips and tricks to help you enhance your communication quickly and easily.

1.

Overview

Make your products play music and sounds: Your customers will be amazed by the personal experience! We'll show you how it works.

2.

Product development

We'll show you easy it is: From the initial suitability test to the delivery of a new, innovative product line.

3.

Marketing & Distribution

We'll give you some tips and tricks to help you enhance your communication quickly and easily.

It's a simple as this:









http://bit.ly/whd-unsichtbar

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Exciter set

Invisible Bluetooth/Wi-Fi sound system

Magically bringing sound to objects

We love music and wireless streaming. But it is not always possible to fit speakers into our room design – either due to space constraints or for aesthetic reasons. That's where invisible sound comes in: Smart Sound from WHD. With our technical master solution, the X32, your objects, furniture and surfaces can now make music. There's no need for any speakers or speaker towers getting in the way or the annoying clutter of cables that go with them. That's the beauty of invisible, exciting sound.

Invisible, minimalistic, and so many advantages

Ideal for use at home, in the office, in doctor's practices, receptions or hotels. Also particularly suitable for mobile use in caravans or on ships: There's nothing to disturb the ambiance – and yet, as if by magic, the room sounds astonishingly good. Pure music enjoyment that can be heard, but not seen.

Always on air and ready to play

Only with a Wi-Fi receiver: Thanks to our intelligent Memo-Radio technology, you'll always find your favorite radio station wherever the BTR 405 is, as soon as you turn it on.



This system is in a class of its own: it has it all

Simply install the X32 sound pressure transducer on the surface of your choice and connect it to the WR 205 Wi-Fi receiver or the BTR 405 Bluetooth receiver, connect to a 230 V socket and you're good to go. No need for any additional amplifiers or wiring. You can stream almost directly to your furniture, cabinet, door or mirror.



Why would a product need to make sounds and play music?

Music gets us moving, helps us relax and puts us in a good mood. Whether first thing in the morning, in the evening after work or while working, music helps improve concentration by conveying emotions that have a significant positive effect on our well-being. Music can give us those real goosebumps moments – or simply something to enjoy and put us in high spirits. Music brings people together and creates very personal moments.

Imagine if you could simply take a product from your range and, on top of all its fantastic features, it could make a sound! What if you could take an innovative product and make it even more emotive for your target audience? That's precisely what we do.

Based on our technology using surface transducers (exciters) with Bluetooth receivers, we make it possible for companies of all sizes to turn their existing products into a unique sound experience, enabling their target audience to really connect with their products on an innovative level.

You can use the WHD positioning tool to easily calculate the ideal position for mounting the exciters:

http://positioning.whd.de



Developing a great-sounding product in a short space of time is now simple – with the exclusive **WHD workshop** on **invisible sound systems**.



http://bit.ly/whd-unsichtbar

WORKSHOP: Invisible sound systems

WHD

Wilhelm Huber + Söhne GmbH + Co. KG Bismarckstraße 19 78652 Deisslingen, Germany Phone: ++49 (0) 74 20 / 8 89-0 Fax: ++49 (0) 74 20 / 8 89-51 E-mail: info@whd.de Internet: www.whd.de Facebook: fb.com/whdsounds Instagram: instagram.com/whd.de



Wavebreaker

Invisible speaker system

Completely invisible sound system for wall and ceiling

The Wavebreaker is screwed as a single unit – just like plasterboard – onto a standard construction. The surrounding edges are chamfered so that they can be optimally filled. What's more, this kind of filling ensures that hardly any structure-borne sound is transferred to the rest of the surface or the building.

Undefined structure-borne sound is virtually unknown for the Wavebreaker. Thanks to the surrounding joint within the excited plasterboard of the speaker, the structure-borne sound is almost completely eliminated in adjacent areas. The joint can be covered with a fleece and plastered. Hardly any structure-borne sound can then be transferred through this into other areas.

Fully thought-out, clever solution

The excited area is also hung using rubber dampers to allow vibration. The airborne sound emitted from the rear of the surface is absorbed by the housing of the Wavebreaker to avoid disturbing people in adjoining rooms.

To ensure reliable operation, we recommend using our precisely dimensioned amplifiers and Bluetooth and WLAN receivers

These can be connected via a Bluetooth/ WLAN receiver or via precisely dimensioned system amplifiers (see accessories).

100V transducer as an optional extra; Integrated protective function against damage

Technical data:

Dimensions: $625 \times 575 \times 60.5$ mm

Weight: 4,3 kg Materials:

Front: Plasterboard

(with waterproofing suitable for damp

locations

Rear housing: MDF

Accessories:

BTR/WR 250: Bluetooth/Wi-Fi Receiver 2 × 50 W with DSP (digital

signal processor)



Be amazed by the completely invisible Wavebreaker sound system and deliver a truly exciting listening experience!

The Wavebreaker is simple to install:



1. Wire up the Wavebreaker



Install and screw in place



3. Fill



4. Glue on fleece



5. Fill again



6. Completely plaster ceiling



The Wavebreaker is waterproofed by default and can therefore even be used in bathrooms and wet rooms.

Installation couldn't be easier







We make it easy!

Save time with the WHD project planner.



Start project

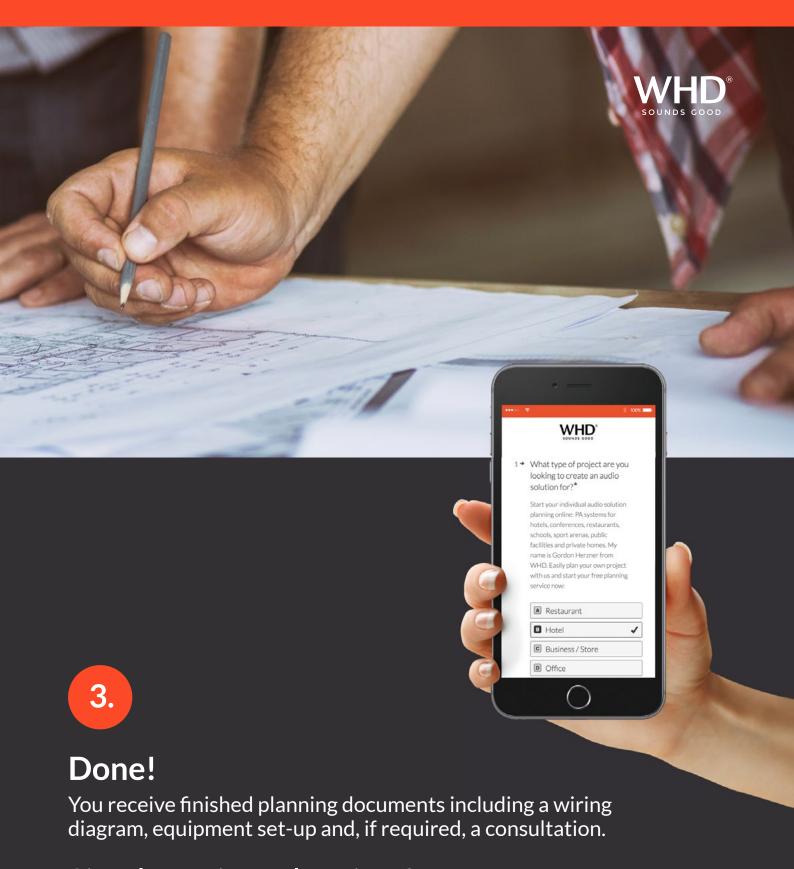
Project information, including document upload



2.

We plan

We plan your custom solution within 48 hours.



Simple project planning for restaurants, hotels, offices, doctor's practices and homes. Commercial and public buildings.



MP 55 L

Docking station

Cables wherever you look, coming out of every socket, getting tangled up, fraying and breaking. We all know the situation, and many a family has come to blows over who gets the last cable. This premium docking station puts an end to all that, as it is completely integrated and universal – it can be installed in any normal socket and has a minimalist design, allowing it to disappear in almost any room.

Universal charger in the wall

Whether at home or at work: this docking station's elegant design not only makes a good impression in the kitchen, bathroom or bedroom, but also cuts a fine figure in any visible counter, reception or office as well as in hotel rooms. And because the smartphone charges in the docking station, you'll always know where it is. We designed the docking

station to be as simple as possible from the outset on any Apple, Android or Windows phone.

The ultimate solution to cable clutter – in the blink of an eye

The standard size fits all common switch ranges from Jung, Gira, BuschJaeger and Berker, thanks to standard central plates measuring 55×55 mm. Charge your iPhone first, then simply turn the plug 180 degrees and charge other devices via the Micro-USB socket.

This docking station is all about change

From the very beginning, we were well aware that smartphones are constantly changing and that every manufacturer is bound to bring out a new charging connector at some point. Or maybe a completely new technology such as inductive charging will take over. But the elegant docking station is future-proof and adaptable thanks to its interchangeable shell.



MP 55 BTL set including WHD KEL 55 Music flush-mounted speaker

The MP 55 BTL set is a high-quality charging station with built-in Bluetooth receiver, stereo amplifier and 230V adapter for iPod/iPhone and any other smartphone in combination with the WHD KEL 55 Music flush-mounted speaker.



DAB+ / VHF radio reception in a switch box

Always on the ball

Listen to music while you cook. Your children can stream their favorite music on the DAB+ radio using the optional BTR 55/ WR 55 Bluetooth/WLAN receiver. Enjoy astonishing sound, even with the "KEL" speaker built into the socket – you'll get even better sound from external wall/ceiling-mounted speakers. A remote control is available either as an optional extra or as part of a set, so you can comfortably use the DAB +UP radio in the bathroom and control it straight from the tub.



Multi-functional and flexible

An additional source, such as a Bluetooth or WLAN receiver, can be connected in order to stream music on the radio.

Advantages

- ✓ Allows for DAB+ radio reception right from the switch
 how
- ✓ The DAB+ UP radio also receives VHF stations thanks to the built-in twin tuner
- ✓ Powerful stereo or mono sound with remote control
- ✓ Numerous convenient functions such as one-off/ weekday alarm, sleep, display brightness, ...
- ✓ Hotel mode (max. volume, scan yes/no) favorite station, DAB+ and VHF adjustable and accessible separately
- ✓ Sounds very good even with the "KEL" UP speaker can be connected to any speaker for even better sound
- ✓ Optimal reception, even with the supplied wire antenna for empty conduits – can be connected to the house antenna for best reception! - Fits in all standard switch ranges thanks to 55 × 55 mm central plate
- Simple operation using just two buttons and a rotary encoder





BTR 55 MK2

Bluetooth receiver

A smart combination

The current version of the BTR 55 MK2 offers even greater ease of use. For example, you can simply turn on the device and set it up for pairing at the press of a button. After successfully connecting to your mobile device, the blue LED will light up continuously. The WHD KEL 55 Music flush-mounted speaker can also be installed in the socket for background music. For full-fledged music playback, you can connect two WHD built-in speakers from the M/R 180 or M/R 240 series in stereo for example.

The maximum volume can be limited. This is useful primarily in hotel mode. What's more, you can also use the clever WHD naming service to individually create the device names to be displayed in the Bluetooth menu of the mobile device such as "Kitchen", "Bathroom" or "Hotel room number" or simply give them a brand name, and program in an access pin.



Ideal for hotels:

Allows hotel guests to stream and control music with ease in their hotel rooms.

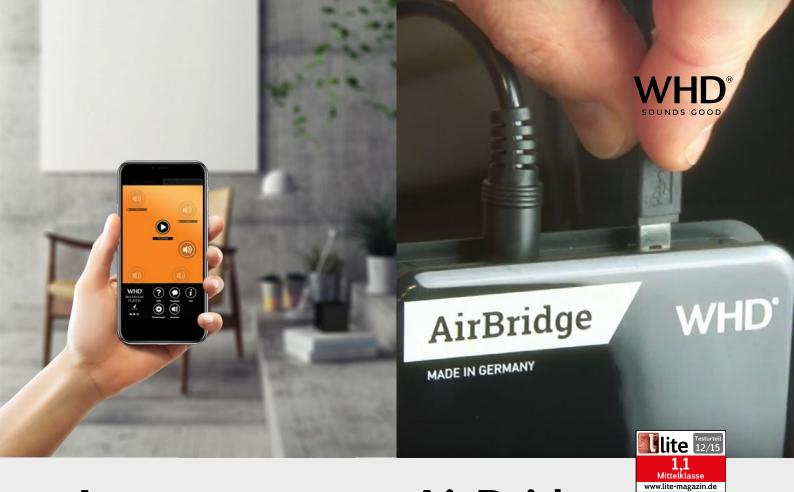
WR 55

WLAN receiver

Full reception ahead

The WR 55 is a WLAN receiver with stereo amplifier and 230V adapter for all common switch ranges with a 55×55 mm central plate.

Just like all our wireless speakers, it already has an Internet radio built in. This has the major advantage that even without a smartphone/tablet, you can listen to Internet radio through the WR 55. When it is not playing an internal Internet radio station, the WR 55 can receive music, for example from a smartphone or tablet, via the WHD Multiplayer app or any music app via AirPlay*, DLNA or UPnP, and play this back through the connected speakers.



App Multi-room

Good sound can be seen everywhere

Whether you are cooking in the kitchen, sitting on the sofa in the living room, having a barbecue on the patio or sunbathing in the garden, you should be able to hear your favorite tracks wherever you want to. How does it work?

It's really quite simple, and wireless too: with WHD's WLAN audio solutions and user-friendly operation via tablet or smartphone. You have a multitude of music sources, for example PCs and laptops, smartphones and tablets, media servers, streaming services and Internet radio. With the WHD WLAN audio solution, you can access these music sources and enjoy your music anywhere, either inside or out, using a single app.

Download the app here:









AirBridge

WLAN receiver

Connect the WHD AirBridge WLAN receiver to your hi-fi system via an analog AUX port or a digital optical audio cable and play your music of choice from a wireless network. It couldn't be easier.

Power supply: includes USB power adapter WLAN receiver: AirPlay, DLNA or UPnP

Outputs: Aux and optical digital Dimensions: 84 × 22 × 76mm

Color: black

Everything conveniently through an app.*

It's a simple as this:





* For long-term, flawless audio transmission you should always use a WLAN router using the 802.11n standard or above and the latest smartphones/tablets. iOS devices: iOS 7 or later is recommended (iPad 2 or newer, iPhone 4S or newer and iPod Touch 5 or newer). Android devices: Android 4.1 is a prerequisite. AirPlay is a registered trademark of Apple Inc.



KNX Link

KNX-controlled streaming solution





WLAN receiver

IP-ready KNX interface for controlling WHD (W)LAN components with the KNX Bus.

Strong receiver for excellent sound

The WR 250 (W)LAN receiver is the powerful enhancement of the WR 225 HS and is suitable for installation on a DIN rail in a distribution cabinet. In conjunction with WHD speakers, the WR 250 generates rich and powerful volume thanks to the built-in power amplifier with 2×50 W and DSP.

Control, streaming, multi-room

The WR 250 simply receives your music of choice via the built-in Bluetooth and Wi-Fi chips, amplifies it, processes it through the DSP and sends it to the speakers; the receiver can also handle the standard formats Airplay, UpnP and DLNA. Thanks to the line input, music can also be played back from other sources. An optional KNX gateway can be used to control the WR 250.

Design & features:

- DIN rail housing with 9 subunits
- Requires an external power supply and can be controlled by Wi-Fi and via a network cable
- Multi-room via WHD app
- Optionally starts up with a favorite radio station after switching on

The WR 250 is integrated into the user's Wi-Fi network via the WHD Multiplayer app. Internet radio stations can also be saved and accessed, and various streams can be played in multiple rooms or individually in different rooms.



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Wow your customers with real added value to go

In addition to the planning and hardware, WHD offers a range of extra services that will delight both customers and guests alike.

Everything under control with an app

Get more with the WHD configuration app

Once you've ordered the BTR 405 installation kit (with exciters), we'll provide you with a configuration app, which you can use to further optimize the already excellent sound results your system achieved in the first step using presets.

For anyone who wants to accompany their guests down to the last detail

What's more, you can assign your receiver its own name for customers to see, every time they connect to the system. You can use this space for a product name, brand name, room name or personal branding.

You can also assign the receiver a pin that hotel guests must enter before connecting to avoid unintentional confusion. Likewise, the maximum volume can be set to guarantee that no other guests are disturbed.



Ideal for manufacturers, facility managers, sales and marketing departments



The WHD naming service for older devices like the BTR 205 and BTR 55 is still available through WHD.



The most important links for you:	Space for your notes
Project planner: → planner.whd.de	
Complaints, returns: → whd.de/pages/service	
Downloads, catalogues & brochures: → whd.de/pages/downloads	

All about invisible sound systems

Develop your great-sounding product quickly and easily.



Developing a great-sounding product in a short space of time is now possible and simple - with the exclusive WHD workshop on invisible sound systems.





http://bit.ly/whd-unsichtbar

Subject to technical changes. 02/2019

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