

## The Look

*Elegant. Precious. Noble.*

The surfaces on Reference loudspeakers are as exquisite as the technology used inside each cabinet. First impressions are positive. Second impressions are awesome. Reference loudspeakers have high-end furniture qualities, highlighted by their color tones and wooden surfaces.

### For the eyes. And the ears.

The Reference Series is like a cave – best experienced live. The Barbarossa Cave in Rottleben / Kyffhäuser has a great deal more to offer than we can possibly picture here.

Take the opportunity to let yourself be overwhelmed by the breathtaking backdrop and fascinating acoustics created by the fractal anhydrite structures.

### Hear for yourself!

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Find out more about the Reference Series on our home page or use the QR code.



Member of:  
 HIGH END SOCIETY

[www.reference.canton.de](http://www.reference.canton.de)

**CANTON**  
German loudspeaker tradition

R E F E R E N C E



T I M E L E S S .

2 0 1 2 / 2 0 1 3

**CANTON**  
German loudspeaker tradition

R E F E R E N C E  
*Jubilée*



L I M I T E D   E D I T I O N

To celebrate the 40th anniversary of Canton  
100 numbered pairs of REFERENCE Jubilee edition speakers  
have been created.





In the beginning was the sound. Plus the idea of changing the world with loudspeakers. Today, 40 years on, Canton has accompanied many chapters of musical history with resounding success – and used innovative technology, visionary products and customer-oriented design to create a wide variety of new concepts, without which the world today would sound very different.

This includes our exclusive Reference “Jubilée”; a limited edition line created to celebrate our anniversary.

# REFERENCE Jubilée

- High-end loudspeaker
- Engineering principle — 3-way, bass reflex system
- Power handling (nom./music) — 350/600 watts
- Efficiency — 89 dB
- Frequency response — 18...40.000 Hz
- Dimensions W x H x D — 29.5 x 115 x 42 cm (11.6" x 45.3" x 16.5")
- Weight — 50 kg
- Special feature — Connection terminal with sound level adjustment
- Available in black lacquer or white piano finish

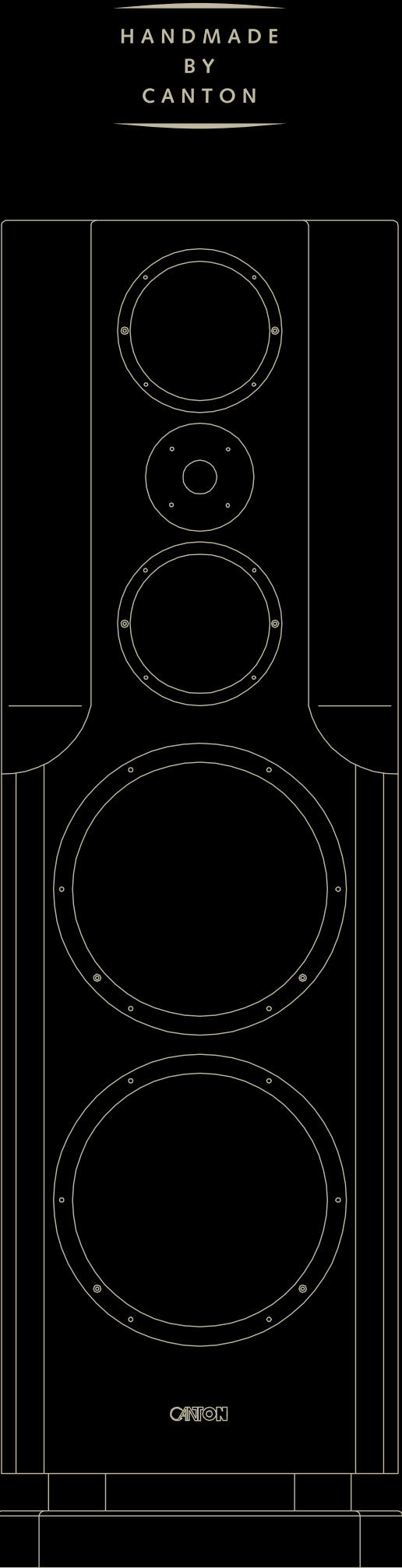


Frank Göbl,  
The designer of the Reference Series loudspeakers

“Nothing is more exciting than experiencing live the development of a new loudspeaker series tone by tone.”

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Everyone listens in a different way and every space has its own sound. Anyone who wants to create new sound worlds has to know where he comes from and where he is going. And he has to know what path he must take to achieve his goal.

## DISCOVER NEW SOUND SPACES

The journey to the Reference Series began with intensive scientific analyses and computer simulations as well as the meticulous testing of all technical processes. The next stage involved optimising top quality parts, processing them expertly by hand and fashioning them into breathtaking designs. In the course of countless listening sessions it eventually became clear, tone by tone, what it is that makes today's Reference Series so special: unlimited listening pleasure.



REFERENCE HiFi

## The Range

*Impressive. Powerful. Attractive.*



The Reference loudspeakers lead you into the realm of the senses, where breathtaking views and fascinating sound experiences await you. The loudspeakers, which combine high performance with subtlety, create their sheer and boundless power from a passionate love of music. To enjoy their sound is to discover your auditory canals anew – twist by twist.



# The Power

*Overwhelming. Subtle. Graceful.*



They are dominant and they are headstrong. Their enormous presence changes rooms; their boundless volume of sound creates new listening habits. One minute they prove utterly overwhelming with their dynamic accents, the next they appear to shine with playful reserve. As pioneers of technology they set new standards: for the Reference Series and far beyond.

## Reference 1.2 DC

	High-end loudspeaker
Engineering principle	— 3½-way, bass reflex system
Power handling (nom./music)	— 500/900 watts
Efficiency	— 89.5 dB
Frequency response	— 18...40,000 Hz
Dimensions W x H x D	— 42 x 143 x 58.5 cm (16.5" x 56.3" x 23")
Weight	— 96 kg
Special features	— Connector-terminal with level adjustment

## Reference 2.2 DC

	High-end loudspeaker
Engineering principle	— 3-way, bass reflex system
Power handling (nom./music)	— 400/700 watts
Efficiency	— 89 dB
Frequency response	— 18...40,000 Hz
Dimensions W x H x D	— 35 x 120 x 50.5 cm (13.8" x 47.2" x 19.9")
Weight	— 60.5 kg
Special features	— Connector-terminal with level adjustment



REFERENCE HiFi

# The Clarity

*Classic. Elegant. Confident.*



They are reserved, almost purist in appearance. The width of the baffle reflects their enormous confidence, bursting with power. The way their shape tapers off at the back underlines their determination to forge new paths in search of great musical artistry. At the same time they know the most intimate of hi-fi secrets, which they use to turn simple listeners into genuine music lovers.

## Reference 3.2 DC

	High-end loudspeaker
Engineering principle	— 3-way, bass reflex system
Power handling (nom./music)	— 350/600 watts
Efficiency	— 89 dB
Frequency response	— 18...40,000 Hz
Dimensions W x H x D	— 29.5 x 115 x 42 cm (11.6" x 45.3" x 16.5")
Weight	— 49 kg

## Reference 5.2 DC

	High-end loudspeaker
Engineering principle	— 3-way, bass reflex system
Power handling (nom./music)	— 280/440 watts
Efficiency	— 88.5 dB
Frequency response	— 20...40,000 Hz
Dimensions W x H x D	— 26.5 x 110 x 38 cm (10.4" x 43.3" x 15")
Weight	— 32 kg



# The Versatility

*Harmonious. Compact. Convincing.*



In order to break new ground you have to be prepared to leave the well-trodden path. Only by doing this can compact boxes be turned into high quality, high end loudspeakers and worthy members of the Reference family. With their huge performance capability and their finely tuned sound potential, these loudspeakers offer almost unlimited possibilities.

## Reference 7.2 DC

	High-end loudspeaker
Engineering principle	— 3-way, bass reflex system
Power handling (nom./music)	— 170/340 watts
Efficiency	— 88.5 dB
Frequency response	— 22...40,000 Hz
Dimensions W x H x D	— 23.5 x 105 x 34.5 cm (9.3" x 41.3" x 13.6")
Weight	— 29.6 kg

## Reference 9.2 DC

	High-end loudspeaker
Engineering principle	— 2-way, bass reflex system
Power handling (nom./music)	— 120/200 watts
Efficiency	— 87 dB
Frequency response	— 25...40,000 Hz
Dimensions W x H x D	— 23.5 x 40 x 34.5 cm (9.3" x 15.7" x 13.6")
Weight	— 11.3 kg
Available accessories	— LS 850.2



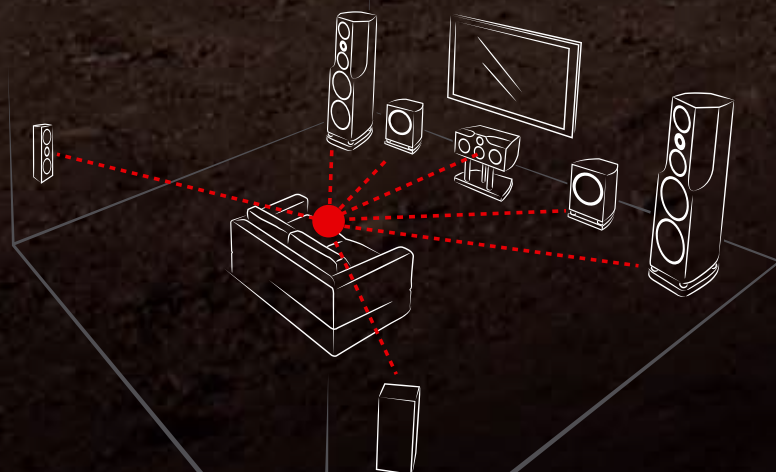
REFERENCE Home Cinema

## The Spectacle

*Weighty. Precise. Intensive.*



The Reference Home Cinema



The journey to the stage was a huge adventure. When the first Reference Home Cinema was brought to life it soon became clear that all the coordinates were right: palpably dense dialogue, extremely intensive effects and an exceptional presence even in the quiet passages all combined to make every performance unique. Since then the Reference Home Cinemas have conquered first our screens and then our hearts.



# The Leading Role

*Powerful. Sophisticated. Versatile.*



If you want to set the tone, you need the strength to go against the flow. Especially in the face of the powerful sound created by the loudspeakers of the Reference Series. Thanks to their mighty volume, their powerful presence and their absolute passion for detail, the Center loudspeakers always play their part with confidence and poise.

### Reference 55.2 Center

	High-end center speaker
Engineering principle	— 3-way, bass reflex system
Power handling (nom./music)	— 280/440 watts
Efficiency	— 88.5 dB
Frequency response	— 25...40,000 Hz
Dimensions W x H x D	— 80 x 74 x 35 cm (31.5" x 29.1" x 13.8")
Weight	— 44 kg
Special features	— Connector-terminal with level adjustment Loudspeaker base included

### Reference 50.2 Center

	High-end center speaker
Engineering principle	— 2½-way, bass reflex system
Power handling (nom./music)	— 130/220 watts
Efficiency	— 87 dB
Frequency response	— 26...40,000 Hz
Dimensions W x H x D	— 60 x 21.5 x 36.5 cm (23.6" x 8.5" x 14.4")
Weight	— 14.5 kg
Available accessories	— LS 850.2



# The Perfect Complement

*Enigmatic. Profound. Flexible.*



Sound satisfaction always depends on the requirements. These, in turn, depend on the actual use, the physical environment and personal taste. In order to ensure that even the most sophisticated requirements are fully satisfied you need to call on experienced specialists. For example, when it comes to the bass notes and wall installation.

### Reference 50.2 Rear

	High-end-OnWall loudspeaker
Engineering principle	— 2½-way, closed
Power handling (nom./music)	— 130/220 watts
Efficiency	— 87 dB
Frequency response	— 39...40,000 Hz
Dimensions W x H x D	— 25 x 70 x 13 cm (9.8" x 27.6" x 5.1")
Weight	— 12.2 kg
Special features	— Integrated wall mount

### SUB 850 R

	Audiophile active subwoofer
Engineering principle	— Bass reflex system with passive membrane
Output (nom./music)	— 500/750 watts
Frequency response	— 18...200 Hz
Transmission frequency	— 50...200 Hz (variable)
Dimensions W x H x D	— 38 x 52 x 51 cm (15" x 20.5" x 20.1")
Weight	— 32.5 kg
Special features	— Wireless remote control



# The Technology

## *Meticulous. Thorough. Perfect.*

Developing crossover is not just about distributing the audio signals but also about setting up sound-creating devices. The crossover is optimally designed, expands frequency response and improves dispersion. A few handpicked components with minimal tolerance specifications ensure balanced impedance and perfect impulse performance.



**Crossover**

Using displacement control (DC Technology), the crossover prevents the uncontrolled movement of the woofers and increases the bandwidth for the same cabinet size. Sub-sonic, non-audible vibrations are specifically suppressed and distortions are minimized. The result is extremely precise bass, even at very high sound pressure levels.



**Connector - Terminal**

To eliminate interference as much as possible, the crossovers in Reference loudspeakers are split into high/midrange and bass units and physically separated. The high-quality internal wiring with a gold-plated bi-wiring/bi-amping terminal ensures optimal signal transmission.



**Midrange and tweeter adjustment**

In addition, midrange and tweeter adjustment makes it possible for the Reference 1.2 DC and 2.2 DC loudspeaker to be perfectly attuned to the acoustic conditions in the room where it is positioned.





# The Development

## *Analytical. Innovative. Obsessive.*

The design of the drivers is based on experience and flair. Specially designed software is used to identify the best possible materials and the optimal design. The result is tested in listening sessions and further modifications are made until the drivers are ready for the Reference series.



**Tweeter system**

Analytically clear high frequencies are obtained using light and rigid aluminum oxide ceramic domes. Their special design combined with the new transmission front plate improves the dispersion, efficiency and omni-directional performance above 15,000 Hz.



**Midrange system**

The triple-curved aluminum cone (TCC technology) has an optimized shape. It stabilizes the cone at the transition point to the voice coil. This minimizes material resonance and distortion. The patented wave surround makes it possible to have a membrane hub which is up to 40 % larger. The drivers function over a wider bandwidth, and all relevant distortions are shifted to higher frequencies well outside the audible frequency range.



**Woofer system**

The woofers with patented wave surround allow up to 100 % more cone excursion with the same cone surface and the same weight of surround cone, and spider. This redefines the relationship between dynamics and cabinet size. Two Reference woofers systems have the same potential in terms of performance as four traditional woofers.





# The Craftsmanship

## *Experienced. Solid. Precise.*

Great care and effort goes into the manufacturing of Reference loudspeaker cabinets. A curved bow shape, lavish internal reinforcement and a strong multi-layer laminate – which is up to 50 mm thick – give the body extremely low vibration. Nothing is allowed to distort the purity of the sound.



**Bow shape**

The cabinets of the Reference loudspeakers are extremely rigid. Internal reinforcement and the heat- and pressure-treated multi-layer laminate help reduce the natural vibrations of the cabinets to a minimum. Without a tonal quality of their own, they neither add to, nor subtract from, the music.



**Down-Port and base plate**

The perfect isolation of the cabinet from its base and the downfiring design of the bass reflex port make the loudspeaker very versatile when it comes to room placement. Any directionality associated with the port is eliminated.



**Inner reinforcement**

Reference speakers have a computer-optimized multi-chamber structure which has a system of elaborate internal reinforcement used to suppress the natural resonance of the cabinet. Each driver is acoustically isolated in a precisely defined resonance chamber within which it is able to operate optimally.



### **The fabric cover**

The high-quality and acoustically neutral fabric covers are befittingly classy and elegant. They complete the perfect look.



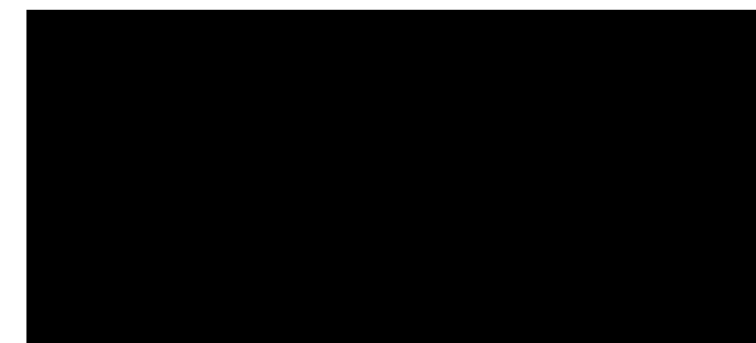
The unique piano finish on the surfaces is achieved in nine separate steps: varnished, sanded and polished by experienced craftsmen. It is only when they fully satisfy all aesthetic requirements that they become a true Reference.



Cherry veneer "piano finish"



White lacquer "piano finish"



Black lacquer "piano finish"