

**The entirely new Reference AM series of eleven high-quality car audio components and speakers was released at Pebble Beach Automotive Week 2017.**

**Featuring an entirely newly developed AM diaphragm, Bewith aims to further push the envelope of high fidelity sound reproduction. Introducing a next-generation speaker series designed for ease-of-installation to the latest sports cars and luxury automobiles.**

Bewith, Ltd. New Product Announcement August 21, 2017

Bewith, Ltd. (Headquarters: Tosa, Saga Prefecture; President: Toshiharu Nakashima) is proud to announce the world-premiere of the Reference AM Series speaker system — Bewith's next-generation standard model speaker. The Reference AM series is an entirely new, high-quality sound component car speaker series which adopts the newly developed AM (Aluminum/Magnesium) diaphragm. A total of eleven systems including dedicated networks will be released. The series will be shown for the first time at the Pebble Beach Automotive Week 2017 event, held in California, U.S.A., from August 15.



Reference AM Series

## Reference AM Series Speaker System

Scheduled release date: August 21, 2017

### Reference AM Trio / 16.5 cm separate 3-way system

(2.5 cm dome tweeter, 8.8 cm mid-range, 16.5 cm woofer; 2 each, dedicated network included)

### Reference AM Duo 165 / 16.5 cm separate 2-way system

(2.5 cm dome tweeter, 16.5 cm woofer; 2 each, dedicated network included)

### Reference AM Duo 88 / 8.8 cm separate 2-way system

(2.5 cm dome tweeter, 8.8 cm mid-range; 2 each, dedicated network included)



Reference AM Trio



Reference AM Duo 165



Reference AM Duo 88

## Reference AM Series Speaker Units

Scheduled release date: August 21, 2017

### L-25R / 2.5 cm dome tweeter

### L-88R / 8.8 cm mid-range

### L-165R / 16.5 cm woofer



L-25R



L-88R



L-165R

## Reference AM Series Dedicated Network Units

Scheduled release date: August 21, 2017

### X-TR / Dedicated network for L-25R

### X-MR / Dedicated network for L-88R

### X-MC / Dedicated network for L-88R Center Speaker

### X-WR3 / Dedicated 3-way network for L-165R

### X-WR2 / Dedicated 2-way network for L-165R



X-TR



X-MR



X-MC



X-WR3



X-WR2



## Reference AM Series - New Product Overview

The recently released Reference AM series further enhances reproduction of high-quality audio sources thanks to the newly developed **AM** (Aluminum/Magnesium) diaphragm and other new features, and is particularly designed for ease-of-installation to the latest sports cars and luxury automobiles.

With the introduction of a new caliber system, this is a component car speaker with a completely new design philosophy. The lineup consists of three types of speaker units: the L-25R 2.5cm dome tweeter, the L-88R 8.8cm midrange, and the L-165R 16.5cm woofer. They are packaged together with dedicated networks in three configurations: the Reference AM Trio 16.5cm 3-way system, the Reference AM Duo 165 16.5cm 2-way system, and the Reference AM Duo 88 8.8cm 2-way system. Five separate dedicated network units are also available to complete the eleven new models of the Reference AM range. The series offers a wide range of mounting options, from a full-scale custom installation to easy replacement of original factory-installed speakers. We utilize an **AM** (Aluminum/Magnesium) diaphragm made out of a new material that demonstrates ideal physical properties and strong weather resistance for in-vehicle use yet prioritizing high-fidelity sound reproduction - a commitment since our inception.

This is the series completion of Bewith's next-generation models, featuring timbre uniformity across all frequency bands, directivity control, and exceptional smooth and flat frequency response.

\* The products to be released this time are not car-specific models. Depending on the particular car models, direct mounting may not be possible, and additional custom installation work may be necessary.

## Reference AM Series - Main Features

### 1. Newly developed AM (Aluminum/Magnesium) diaphragm featured in all units

The **AM** (Aluminum/Magnesium) diaphragm is made from a unique Aluminum-Magnesium alloy, which combines the advantages of lightness and internal loss peculiar to magnesium with the sound quality tuning freedom and excellent weather resistance of aluminum. Moreover, we've adopted this material for all the Reference AM speaker units, the tweeter, mid-range, and woofer. The timbre is unified, as is the response in all bands, and the series realizes in greater degree the full high-fidelity reproduction for which Bewith is famous for.

### 2. A new caliber system that adapts to factory installed speakers from the latest car models

We have introduced a new caliber system (2.5cm dome tweeter, 8.8cm mid-range, 16.5cm woofer) that meets a wide range of applications; from full-scale custom installations to replacement of factory installed speakers. In particular, the 8.8cm mid-range can easily replace the 7-9cm class of mid speakers\*, often installed in the latest luxury class automobiles. The 2.5 cm dome tweeter also comes with a removable angle attachment suitable for various mounting conditions and can be easily installed in the original factory tweeter position\* (such as the back of the door mirror by removing the outer ring of the tweeter body). We are planning to actively develop and produce special sound systems for super sports cars based on this core group of the Reference AM series from now on.

\* The products to be released this time are not car-specific models. Depending on the particular car models, direct mounting may not be possible, and additional custom installation work may be necessary.

### 3. Advanced design influenced by the development of our advanced models (L-88R, L-165R)

Drawing on the advanced performance of our top-class models including the flagship Confidence series, the Reference AM series employs a similar all aluminum die-cast frame with integrally casted magnet housing and a strong magnetic circuit with a high-density neodymium magnet. This reflects the advanced and sophisticated design that realizes the Bewith standards of high sound quality and reliability.



#### 4. Dome tweeter specifically matched in sound quality with mid-range and woofer (L-25R)

The L-25R dome type tweeter, a new and completely original design by Bewith, adopts the **AM** diaphragm, common to the other units—the L-88R mid-range and the L-165R woofer—to ensure smooth sound and optimum sonic continuity across the sound spectrum. A powerful magnetic circuit with a high-density neodymium magnet produces rich sound pressure energy and flat response without coloration. The L-25R is utilized in either 3-way or 2-way configurations in combination with the L-88 R and/or L-165 R. Even as part of a system, it achieves the highest degree of completion.

#### 5. Compact network with audio-specific condensers

For simple systems without active crossovers from Digital Sound Processors or amplifiers, we designed and manufactured four dedicated network units for the Reference AM series.

The X-TR, dedicated for the L-25R, has a high-pass configuration; the X-MR, dedicated for the L-88R (and can be used alone), has a high-pass/low-pass configuration; the X-MC has a high-pass configuration (for a center speaker); the X-WR3, dedicated for the 165R, has a low-pass configuration specifically for a 3-way system; and the X-WR2, also dedicated for the 165R, has a low-pass configuration specifically for a 2-way system. The crossovers are crafted to fully enhance and maximize the performance of each speaker model and have been fitted with film condensers designed exclusively for audio use.

#### For more information contact:

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