

**USHER**

**TD-10 & TD-20**



Introducing The USHER Diamond DMD Technology

USHER



Often considered to have the best midrange in the world, the critically acclaimed TD-10 is now equipped with the incredible USHER Diamond DMD tweeter. Whilst capable of retrieving the last bit of music information in the recording and reproducing a stunning sound stage and palpable imaging, the TD-10 Diamond DMD captures the thrills of the performance and presents the music with such purity and sweetness like no other could.



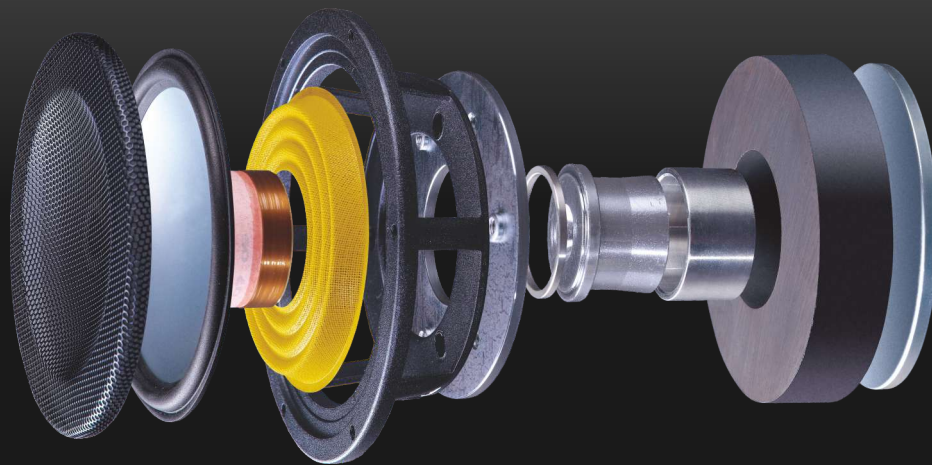
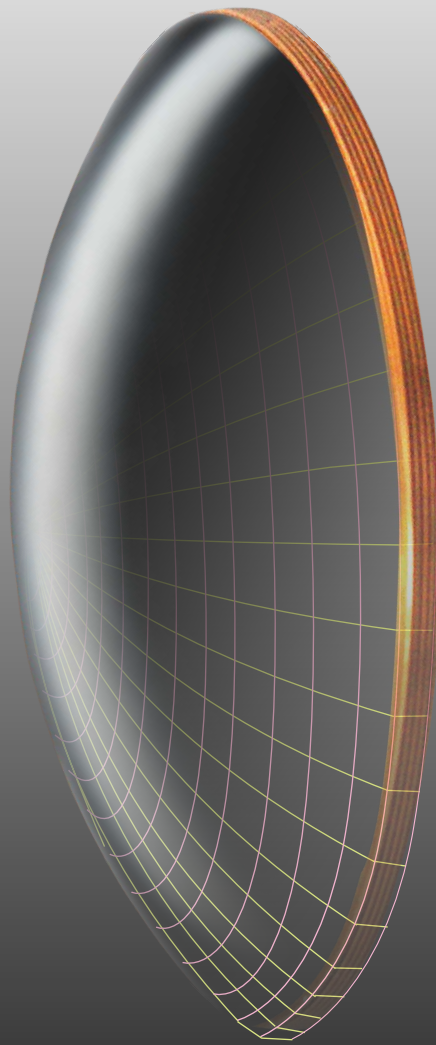


## A True Speaker Manufacture

In the Swiss watch industry, the term manufacture is used to refer to a watchmaker/brand who designs and manufactures its watches almost completely, as distinct from an atelier de terminage, which is concerned only with assembling, timing, fitting the hands and casing an externally-sourced movement. Some famous examples of manufacture are Patek Phillipe, Rolex and Jaeger LeCoultre.

In the loudspeaker industry, the ability to design and manufacture the heart of the whole speaker system—namely the speaker drivers—also separates the real technically capable from the rest. In this sense, Usher is one of the very few true manufactures in the high end speaker world.

The launch of the BE10 and BE20, Usher's then flagship speaker systems, and a few years later, their successors the Be10 Diamond/BE20 Diamond with the groundbreaking DMD tweeter, have show-cased Usher's prowess in driver design, manufacturing and quality control. With the new DMD (Diamond-Metal-Diamond) midrange driver—that's on the TD-10 and TD-20—Usher has again pushed speaker driver technology to a new height.



## The DMD Midrange Driver

Diamond is almost a perfect material as driver diaphragm except for its high density (thus high mass) and brittleness. The few "Diamond" drivers that have been on the market all suffer badly from these two issues. Usher was the first, and still the only, to have solved these problems by inventing the DMD diaphragm, in which a super light metal base is sandwiched by amorphous diamond layers, resulting in a durable, light, fast, high-resolving and thus hugely musical tweeter: the Usher DMD tweeter.

Now, after years of rigorous research and experiments, Usher has finally successfully implemented the DMD technology on the 5" midrange driver. This allows the music to be reproduced, from 385Hz up, completely by the amazing DMD drivers on both the TD-10 and TD-20. The result has to be heard to believe.



## The Woofer

Due to the superlative performance of the DMD drivers, the 11" German Eton woofer, with its super light yet super stiff honeycomb sandwich cone, was chosen to cover 385Hz and below for speed, resolving power and explosive dynamics.

## The Crossover

When developing the new DMD midrange driver, Usher has paid special attention to making sure that it would have a frequency response and impedance behavior that's effectively the same as those of the midrange it is replacing. This has made the new DMD midrange a drop-in upgrade for the current BE10 and BE20 owners. The crossover in the BE10/BE20 Diamond was already optimized through countless hours of computer-aided design, measuring and actual listening for a seamless integration with both the DMD tweeter and the Eton woofer. With the efforts and attention in this regard put in whilst developing the DMD midrange, all that's needed to be done was to repeat the measuring and listening tests carefully to confirm the results remain optimal, which was exactly the case.



## USHER TD-10

3-way system

1.25" DMD dome tweeter

5" DMD dome midrange

11" Eton woofer

Sensitivity: 89 dB @ 1 watt / 1m

Nominal impedance: 4 ohms

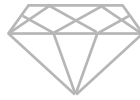
Frequency response (-3 dB): 24 Hz ~ 40 kHz

Power handling: 180 watts

Crossover frequencies: 385 Hz, 3.5 kHz

Weight: 92 kgs/203 lbs. (including base) per piece

Dimensions (w x d x h): 36.5 cm x 71.5 cm x 121.5 cm  
; 14.4" x 28.2" x 47.8"



## USHER TD-20

3-way system

1.25" DMD dome tweeter

5" DMD dome midrange

Two 11" Eton woofers

Sensitivity: 90 dB @ 1 watt / 1m

Nominal impedance: 4 ohms

Frequency response (-3 dB): 23 Hz ~ 40 kHz

Power handling: 200 watts

Crossover frequencies: 385 Hz, 3.5 kHz

Weight: 123 kgs/271 lbs. (including base) per piece

Dimensions (w x d x h): 36.5 cm x 89.5 cm x 140 cm  
; 14.4" x 35.2" x 55.1"

## TD-10 vs. TD-20

The cabinets of the TD-10 and TD-20 are, per the Usher tradition, part of the whole system's integrated computer-aided and tested design, and are realized in an ultra-rigid, double reinforced, high inner-loss structure that's both low diffraction and low internal reflection. And again per the Usher tradition, the cabinets are finished in real wood/real veneer and piano lacquer to the highest standards.

The TD-10 hosts one woofer per channel whilst the TD-20 employs two for even higher power-handling and larger listening spaces.



Glossy Ebony



Glossy Walnut



Maple



Walnut



# USHER

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We'll be expecting you all.

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