

## QUADRA High frequency Ribbon driver



**QUADRA** is the result of over 12 years of extensive research in tweeter technology. Its performance parameters are so high that a 6dB crossover network can be used. Four ribbons connected in parallel with a transformer to match, gives an active radiating area that allows for a seamless transition to a high quality woofer.

The resonance frequency is lower than anything currently available: 10Hz for the aluminum-alloy ribbon version. This makes the resonance totally transparent in relation to its operating area. The unit is designed in house.

**QUADRA is available in two versions:** Either with reinforced copper plated ribbons for heavy duty-service in Car Audio installations or with an aluminum-alloy ribbon for use in High End audio systems in the home.

### *The 4-ribbon concept*

The Dynamic Propulsion tweeter uses 4 ribbons, each served by its own magnet engine. The resulting force factor gives a tremendous increase in resolution and sensitivity. In addition, the following benefits are achieved:

- 100% larger radiating area
- Improved air coupling due to increased radiation resistance
- Enhanced overall performance and transparency

**Data:**

Total width, (including front-plate): 140mm  
Width (chassis only).....: 135mm

Total height, (including front-plate): 90mm  
Height (chassis only).....: 85mm

Total depth (including front-plate): 15mm  
Depth (chassis only).....: 10mm

Number of magnets.....: 5  
Number of membranes: 4

The chassis are made from resonance-absorbing Composite whilst the front panel is made from 5 mm thick machined and polished aluminum. The front plate and chassis are hold in place by 4 x M4 screws/bolts and washers, made from nonmagnetic stainless steel. The total weight is 300 gram. All units come with a 3 year warranty on parts and labor.

Sensitivity: 89dB  
Impedance: 4 Ohm with the included transformer.

Max input power: 75W (aluminum alloy membrane), 250W (copper plated membrane).  
Frequency response: 1kHz - 30kHz plus/minus 2dB  
Recommended crossover-frequency: 3kHz  
Phase shift: within the operating area: Less than 20 degrees  
Resonance frequency: 10Hz aluminum-alloy membrane, 50Hz copper-plated membrane



Seen on this picture is the aluminum-alloy membrane version for use in domestic High End installations.

The QUADRA units, including their matching transformers are designed by Bo Bengtsson and powered by the strongest NEO magnets on the market, developed and manufactured especially for these drivers.