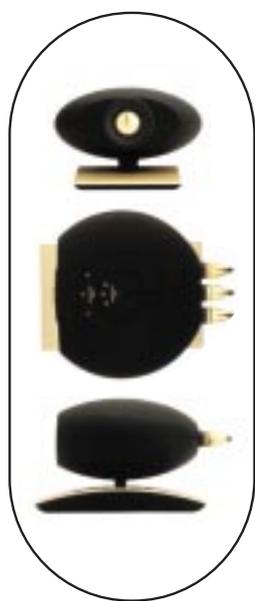


SuperTweeter ST50

**TANNOY**<sup>®</sup>



The Tannoy SuperTweeter provides an increased immediacy, airiness and impact making music more true to life

**TANNOY**<sup>®</sup>





## ST50 SUPERTWEETER

The ST50 SuperTweeter has been designed by Tannoy to provide extended high frequency response that will enhance the listening experience. Modern programme material and sources, such as SACD and DVDA, have driven the requirement for loudspeakers with extended frequency bandwidth performance. Always at the forefront of audio evolution, Tannoy has been developing just such wide bandwidth loudspeaker technology over many years. Almost universally applicable to any brand of loudspeaker, the new ST50 SuperTweeter excels with extensive range of Tannoy loudspeakers both past and present. Once installed, the listener will experience a far wider range of bandwidth information for instruments than is possible with conventional loudspeakers.

The new ST50 SuperTweeter completes the musical picture.

It not only has the ability to resolve fine detail of high frequency notes but also effectively enhances the listening experience even at lower frequencies. Music contains transient information and rich harmonics beyond the range of human hearing for pure tones. Even bass notes have leading edge transients reaching 30kHz with other instrumentation extending yet further. The leading edge of a note, for instance the initial stick contact with the skin of a drum, is where vital transients occur. Conventional speaker designs with a frequency response upper limit restricted to 20kHz are unable to reproduce this essential detail.

The Tannoy SuperTweeter however reproduces all these transients, operating between the roll off point of the existing loudspeakers and 54kHz; the SuperTweeter will accurately reproduce the leading edge of individual notes. This allows the listener to experience the entire bandwidth information of the recorded instruments, with the result that music information has restored to it the speed, impact and clarity.

In addition, by extending the frequency response by two octaves the ST50 corrects time and phase response within the normal bandwidth of human hearing. Taking these acoustical phase anomalies beyond the range of human hearing adds realism to the soundstage by improving imaging and placement of instruments.

This factor explains why there are such superb acoustic improvements in non-wideband audio systems, which are bandwidth limited to 20kHz by Red Book standard CD or amplifier design, when a Tannoy SuperTweeter is added. The fidelity of which creates a breathtakingly airy, open and involving soundstage, ensuring not just exceptional technical accuracy but a thrilling true to life musical experience.

### TECHNICAL SPECIFICATION

#### PERFORMANCE

Recommended amplifier power	Up to 200 Watts
Power rating to DIN IEC 268	110 Watts RMS 450 Watts Peak
Maximum sensitivity (2.83v @ 1m)	93dB
Nominal impedance	8 ohms
Frequency response (-6dB)	To 54kHz, usable output (-18dB) to 100kHz
Driver type	25mm 25 micron titanium dome, 24 Karat vapour deposited gold finish, with neodymium magnet
Crossover type	3rd order high pass
Crossover frequency	14, 16, or 18kHz adjustable
Level adjustment	85dB, 89dB, 93dB
Dimensions mm (inches)	150 (6) diameter
Weight kg (lbs)	0.75 (1.65) each
Finish	Black with gold anodised Performance Platform™

#### Design features of the Tannoy ST50 SuperTweeter:

High stiffness titanium dome minimises effects of dome break-up and extends frequency response • Neodymium magnet system also extends frequency response by minimising eddy current losses in voice coil • Copper clad aluminium voice coil on aluminium former for high power handling • Provision for driver magnet system earthing, to avoid interference and information masking caused by radio interference • Gold plated terminals for optimum signal transparency • Radio Frequency quality inductors in crossover for good high frequency characteristics • Non-Inductive resistors to avoid losses associated with normal wire wound types • High quality polypropylene film capacitors, selected for high frequency use • Unique Tannoy Performance Platform™ gives stable support and variable adjustment for the ideal listening position

# TANNOY®

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