

# AUDIO DEFINITION

'DUET'



*Uncompromising Form and Function*



# DUET

# COMMAND

## C O L L E C T I O N

The Audio Definition COMMAND COLLECTION **DUET** closely follows the technological development and enclosure sophistication of the Statist. Being triangular in shape with non-parallel internal walls, the COMMAND COLLECTION **DUET** achieves superior transient response and mid-band clarity when compared to conventional rectangular style speakers.

### DRIVERS

Two 165mm polypropylene cone bass/mid units, with inverted high-loss butyl rubber surrounds, injection moulded magnesium basket assemblies and 26mm copper and aluminium voice coils.

One 25mm vacuum formed soft-dome tweeter. The neodymium magnet allows a high quality driver in a very compact size. The construction of the magnet system gives very low magnetic stray fields being enclosed in a soft steel housing. The 26mm voice coil is immersed in magnetic fluid, allowing high power handling capacity and simplified crossover design.

The now established trade mark of Audio Definition Loudspeakers is the use of D'Appolito driver configurations. The **DUET** is no exception using a true symmetrically arranged three-driver, time-aligned, point-source radiation pattern. This configuration has long been an industry standard for esoteric loudspeaker systems.

### ENCLOSURES

Perhaps the most striking feature of this loudspeaker system is the enclosures. A triangular formation has been created for the elimination of internal parallel enclosure surfaces, thus negating internal standing wave effects. All drive units are mounted on the front baffle board which is 25mm thick.

The drive units are then flush mounted in their own time domain and surrounded by a synthetic acoustic compound, eliminating unwanted diffraction effects.

The enclosures are substantially braced with a derivative of the Audio Definition internal aluminium matrix system. The use of 'Y' shaped extrusion fastened at 90° to the walls of the structure and terminating in the centre of the enclosures.

A 10mm thick bituminous compound in conjunction with the polyester resin and mineral compound poured onto internal walls, further dampens enclosure wall resonances to almost inaudible levels. Before the resin and mineral compound achieves a solid state it settles in and around enclosure and brace joints greatly increasing strength and air tightness. Upon achieving a solid state the compound is firmly adhered to the enclosure walls. The enclosures are then acoustically dampened with long fibre natural wool.

A 32mm thick bass plinth made from the same resin and mineral compound further enhances bass definition and mid-band clarity. Finish is in piano gloss black.

### CROSSOVERS

The **DUET** uses a 6dB per octave crossover for bass, and 12dB per octave for the high frequency network, with all series components critically matched. They are built as matched pairs. Crossover components are the same quality as used in all other Audio Definition Loudspeakers and include large diameter air core inductors and high voltage polypropylene capacitors which are configured as direct connect, hard-wired circuits.

### SPECIFICATIONS

<b>power handling:</b>	150W rms
<b>nominal impedance:</b>	4 Ohm
<b>sensitivity:</b>	90dB Ref 1W - 1M
<b>frequency response:</b>	+/- 3dB 45-20000Hz
<b>enclosure tuning:</b>	45Hz bass reflex
<b>input terminals:</b>	bi-wired with gold-plated rear terminals, accepting bare wire, spades and 4mm banana plugs.
<b>dimensions:</b>	equilateral triangle 300mm (12"), H — 1235mm (48 1/2")
<b>weight:</b>	32kg each
<b>warranty:</b>	1 year transferable



152 Lake Road, PO Box 464, Port Macquarie NSW Australia 2444  
 Phone : (065) 81 0452 Facsimile : (065) 81 1980  
 Int. Phone : +61 65 81 0452 Int. Facsimile : +61 65 81 1980