

## Digital active speaker - SOLITAIRE A2D



For the first time the unit defined the true meaning of the term "digital speaker": not a digital device wired in front of a perfectly conventional loudspeaker, but a solidly digital signal processing system right up to the cross-over units. To achieve this feat of active power the A2D is equipped with four discrete power amplifiers, each rated at 150 Watts. The bass output is monitored opto-electronically. A total of nine high-performance signal processors control the data processing system. They calculate the optimum gradients for the cross-over unit filters up to a maximum of 300 dB per octave, they eliminate speaker phase errors, and they ensure a linear frequency response in the listening room from the most profound bass range right up to the supersonic regions. For all Solitaire speakers you can measure the frequency response in the living room with the T+A MEP-System.

### Specifications

#### Drive units

<i>Bass</i>	2 x 220 mm
<i>Mid-range</i>	2 x 130 mm
<i>High frequency</i>	1 x 26 mm

#### Output stage specification

<i>Nominal / peak output, bass</i>	2 x 150 / 240 Watts
<i>Mid-range</i>	150 / 240 Watts
<i>High-frequency</i>	150 / 240 Watts
<i>Power bandwidth</i>	2 Hz – 250 kHz
<i>Slew rate</i>	60 V/us
<i>Damping factor</i>	> 800
<i>Signal: noise ratio</i>	110 dBA
<i>Total harmonic distortion</i>	< 0,002 %
<i>Volume control</i>	0 dB to –90 dB, 64 steps

#### Digital section

<i>Signal processors</i>	9
<i>Linearisation</i>	
<i>Bass</i>	11 Hz
<i>Mid-range</i>	63 Hz
<i>High-frequency</i>	63 Hz
<i>Crossover frequency bass/mid</i>	250 Hz

*Crossover frequency, mid/high* 2500 Hz

### **D/A-converters**

*Number* 3

*Type, resolution* 1 x colinear DAC, 20-bit  
2 x Sigma/Delta, double differential, 20-bit

### **Tone controls**

*Bass* +/- 7,5 dB in 1,5 dB steps

*Mid-range* 0 dB, -1 dB

*Treble* +4,5 dB / -3 dB in 1,5 dB steps

*Frequency response of linearised speaker* 30 Hz – 20 kHz / +/- 0,5 dB

### **Inputs**

*Co-ax* SP/DIF, TA/DIF, 0,5 V / 75 Ohms

*AT&T optical* Optional

*Dimensions H x W x D* 150 x 26,5 x 40 cm

*Plinth H x W x D* 3 x 33 x 44 cm

*Weight* 60 kg

*Colours* Grey ash, black ash, white ash, natural  
beech, natural alder

*Remote control* Included

*We reserve the right to alter technical specifications*