



A100T
Integrated Tube Amplifier



SYNTHESIS®
ART IN MUSIC



SYNTHESIS is proud to introduce the new **ACTION** series.

Two models of stereo tube amplifiers with DAC's on board, guaranteeing exceptional sonic performance from any digital source. Made with the finest materials & advanced technology, this series is a sophisticated blend of research & experience. Designed without compromise for a rich sound & faithful music reproduction.

The **A100T** provides a minimum of 200 watts (100 Wpc), power output from 8, KT66's in Ultra-Linear (UL) - push/pull operation.

The **A100T** features a newly designed custom output transformer designed to achieve highly delicate & precise sound with extraordinary musicality from tubes, but with the authority of the best transistor amplifier.

Technical specifications:

Power stage (1 ch.): 4 X KT66
Driver (1 ch.): 12BH7
Input stage (1 ch.): ECC83/12AX7
Frequency response: 20Hz to 20KHz +- 0.5dB
Input impedance: 50Kohm
Input sensitivity: 200mV / 100W
Output impedance: 6 ohm
Power stage configuration: Ultralinear 43% tap
Power output: 100W RMS into 6 ohm
each channel AB1 Class
Signal/Noise ratio: >90dB, A weighted

Controls:

Front: Power switch,
Soft button switch
selector, volume knob
IR receiver.

Rear: RCA gold plated
connectors, power
connectors , power plug,
USB input, Binding post.

Inputs: CDP, DVD, RADIO, SAT, USB, DGT.
Outputs: Pre Out (Volume controlled)

Finish: Steel
Power consumption: 450W
Dimensions: (w,d,h) 420x450x260mm
Weight: 40.0 Kg

Technical specifications Digital stage

Compatible format: PCM Stereo 32-192KHz
Input: USB (PC-Mac), S/Pdif
Upsampling: 192KHz / 24Bit
D/A converter: Dual Mono 2 x Wolfson WM8740
Output stage: NJM2114L Op-Amp
Analogue Output: 1V RMS
Signal/Noise ratio: >90dB, A weighted





The **A50T** provides a minimum of 100 watts (50Wpc), power output from 4, KT88's in Ultra-Linear (UL) - push/pull operation.

The **A50T** like it's bigger brother also features a newly designed custom output transformer resulting in a rich sound stage but with an authority that belies its 50Wpc.

Technical specifications:

Power stage (1 ch.): 2 X KT88/6550
Driver (1 ch.): 12BH7
Input stage (1 ch.): ECC83/12AX7
Frequency response: 20Hz to 20KHz +1dB
Input impedance: 50Kohm
Input sensitivity: 200mV / 50W
Output impedance: 6 ohm
Power stage configuration: Ultralinear 43% tap
Power output: 50W RMS into 6 ohm
each channel AB1 Class
Signal/Noise ratio: >90dB, A weighted

Controls:

Front: Power switch,
Soft button switch
selector, volume knob
IR receiver.

Rear: RCA gold plated
connectors, power
connectors , power plug,
USB input, Binding post

Inputs: CDP, DVD, RADIO, SAT, USB, DGT.
Outputs: Pre Output (Volume controlled)

Finish: Steel
Power consumption: 350W
Dimensions: (w,d,h) 420x450x260mm
Weight: 35.0 Kg

Technical specifications Digital stage

Compatible format: PCM Stereo 32-192KHz
Input: USB (PC-Mac), S/Pdif
Upsampling: 192KHz / 24Bit
D/A converter: Dual Mono 2 x Wolfson WM8740
Output stage: NJM2114L Op-Amp
Analogue Output: 1V RMS
Signal/Noise ratio: >90dB, A weighted



ACTION series

Integrated Stereo Amplifier

FEATURES

- USB & S/PDif input

For the first time we include an onboard 24Bit 192KHz Wolfson DAC for a extraordinary listening experience.

- DC Powered tube heater

All tubes, except power tubes, have DC stabilised heater circuits to reduce hum noise to a near in-audible minimum.

- Output transformer

The Output transformer uses a Hi-Grade Iron-Silicon for superb frequency reproduction & width. With this newly designed custom output transformer unique to the A100T/A50T we are able to achieving a highly delicate & precise sound reproduction faithful to the original recording.

- Mechanical chassis construction

The power supply & output transformers are held by an extremely rigid "H" structure that keeps the unit free from unwanted vibrations which further helps reduce unwanted noise to the tubes.

- Remote control

Featuring a superb CNC machined case it has a soft button design, perfectly matching the aesthetics for the "ACTION" series.

- Feet

Four CNC machined aluminium feet with an insert of natural rubber. The depth & form of these rubber feet has been calculated to minimise vibrations of the amplifier in isolation from its surroundings.

- Binding posts

Gold plated professional binding posts for a continued oxidisation free connection further improve sound refinement.

- Components

Components for the A100T/A50T have been selected with great care throughout. Only the best available components are considered & all must undergo an exhaustive analysis of their sonic influence prior to final selection.

- Selected tubes

All tubes used are selected after 2 stage warm up. A fully computer monitored machine controls the process & at the end of this, selects the perfect tubes which are then matched for a perfect balance.

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Integrated Stereo Amplifier



ACTION

A100T & A50T Integrated Stereo Amplifiers

POWER



SYNTHESIS®

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