

ACTION

# A100T

100W Integrated Stereo Amplifier



**USB & S/PDIF**  
inputs on board



SYNTHESIS is proud to introduce a 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 (100W per channel), power output from 8, KT66's in Ultra-Linear (UL) - push/pull operation.

The **A100T** features a newly designed custom output transformer resulting in a rich sound stage but with an authority that belies its 100Wpc.

## **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 KT66, 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 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.

### **- Sockets**

Gold plated ceramic sockets for a continued oxidisation free connection further improve sound refinement.

### **- Components**

Components for the A100T 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.

# ACTION A100T

100W Integrated Stereo Amplifier

## 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

**USB & S/PDIF  
inputs on board**

## 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:	
<i>Front:</i>	Power switch, Soft button switch selector, volume knob IR receiver.
<i>Rear:</i>	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

