

Ayon S-3

The S-3 is a ground-breaking design and this ultimate combination of modern new design and time proven concepts, will deliver music and superb sound performance that you would expect from an Ayon product with maximum home audio flexibility. The S-3 includes a network player, analog preamplifier and a world class D/A-converter that gives the highest obtainable performance.

Features & Design

Full-featured Network Music Player/DAC/Preamp
Class-A triode vacuum-tube output stage for single-ended & balanced operation

Signal Path

We believe that the simplest circuits work best together with the shortest signal path. That is why our pre-amplifiers to date have used single-ended pure class-A circuitry. The shorter the signal path is, the less possibility of sonic degradation from various sources, including the wire itself. Even on the circuit boards, the copper traces are kept to a very minimum length. The completely redesigned circuit board provides a more straightforward and direct approach to the signal paths.

Network Player

Functionality

- User interface on QVGA 3.5" TFT display
- Internet radio (vTuner)
- UPnP streaming from PC via 100base-T Ethernet
- Streaming audio from USB HS (mass storage device)
 - WAV (Ipcm) - up to 192kHz/24bit
 - FLAC - up to 192kHz/24bit
 - AAC, HE-AAC (up to 24bit 96 kHz)
 - LPCM (up to 24bit 192 kHz on wired LAN and up to 24bit 96 kHz on wireless LAN)
- Logical sequenced soft-start power up for extended tube life
- Warm up function
- 0dB negative feedback (of any kind)
- Ultra short signal path
- Simplest direct circuit path for purest musical sound and high reliability
- Low output impedance for driving long runs interconnect to an amplifier, and any tube or solid state power amp
- No solid state devices in the analog tube output (signal path)
- Minimal discrete wiring for optimum signal propagation
- No followers or buffers in the signal path
- No DC servo that degrades the signal
- High quality parts throughout
- Separate analog output stage for left and right channel
- Burr Brown D/A converter
- Upsampling 24bit/192kHz and on/off switchable
- Ethernet (RJ45)
- Memory stick or USB drive
- WIFI
- Digital input - S/PDIF (RCA), I2S , AES/EBU, BNC & TosLink
- USB inputs
- Digital output - S/PDIF (RCA)
- Electrical-Analog Volume control system
- 2 pair analog input (RCA)
- 1 pair Tape out (RCA)
- Separate Display for Network-Player and Volume/ Inputs

Power Supply

The power supplies have been further refined with new components and enhanced AC line noise filtration. Separate power transformer windings and filters provide total isolation between the input and output stage which makes this a pure power source and it is a critical attribute for a 6H30 output stage. We also use electrolytic capacitors with much larger storage capacity to make up for the loss in filtering when using resistors in lieu of inductors.

- Dual R-Core / Low noise – insulated power transformers for digital & analog separated
- Innovative power supply provides a high speed energy delivery on transients
- Separate and isolated power supplies over each stage of amplification
- AC power line filter to avoid noise and hash from entering into the unit.
- Dual tube rectification for 6H30 analog output stage
- Choke with Film caps
- 10 separate voltage regulators

Components

The type of parts used therefore must have a synergistic relationship to the circuit they are placed in. It is this relationship of which type of part to use where, that ranks our products apart from the mass.

- Selected, premium quality passive components used in all applications
- High speed & high quality audiophile grade coupling capacitors
- High quality Teflon tube sockets with gold pins
- Capacitors (MKP 2%)
- High quality – RCA & XLR jack
- Gold-plated industrial grade PCB

Mechanical Construction

The high grade aluminum chassis impart a richer, more lustrous tonality with a cleaner back-ground and less hash and grain. All brushed anodized anti-vibration-resonance and non-magnetic chassis's are fully hand assembled to insure the highest level of craftsmanship.

- AC phase polarity control indicator
- The aluminium feet are resonance absorbing types
- Metal remote commander
- Chassis finish: black / chrome

Specifications

Network-Player	Ayon S-3
Conversion rate	192kHz / 24 bit
Tube complement	6H30
Dynamic range	> 118dB
Channel separation	>105dB 20 Hz to 20 kHz
Output level @1 kHz / 0,775V -0dB /RCA	2V fixed or 0 – 2V rms variable
Output impedance Single-Ended-RCA	~ 700 Ω
Digital output	75 Ω S/PDIF (RCA)
Digital inputs	75 Ω S/PDIF (RCA & up to 24/192kHz), TosLink (up to 24/192kHz) 110 Ω AES/EBU (up to 24/192kHz) 75 Ω BNC (up to 24/192kHz) I2S (up to 24/192kHz) Front mounted USB type 'A' socket for USB "pen"/hard disk drive Rear mounted USB type 'A' socket for USB "pen"/hard disk drive
Network inputs	RP-SMA plug Wifi Aerial input ("wireless" network connection) 802.11b/g UTP RJ45 10/100Mbps socket ("wired" network connection)
S/N ratio	> 110 dB
Frequency response	10Hz – 50kHz +/- 0.3dB
Total harmonic distortion @ 1kHz	< 0.002%
Remote control	Yes
Analog – Line Inputs & output	2 pair RCA and 1 pair RCA out
Analog – Main outputs	1 pair / RCA & 1 pair / XLR
Dimension (Wide x Deep – incl. terminals x High – incl. feet) cm	48 x 39 x 12 cm
Weight, unit only	12 kg

Specifications subject to change without notice