

Integrated Amplifier **A-S801**

## A Giant Step

With an internal design based on Yamaha's high sound quality ToP-ART circuitry, as well as a double-bottom chassis and strictly selected parts, The A-S801 provides outstanding musical expressiveness. Using the DSD5.6MHz and PCM384kHz/32\*bit compatible USB DAC and the latest 32bit ESS DAC, it fully supports the latest high resolution sound formats. Combining HiFi sound quality and a new HiFi style, the A-S801 represents a giant step forward in amplifier performance.

\* Windows support. Mac support is 24-bit.

*Powered by music*

With high sound quality ToP-ART circuitry and high stability construction, this integrated amplifier delivers superior musicality and powerful sound. And by incorporating advances like a USB DAC function, it fully supports the latest high resolution sound formats.



ToP-ART™

 CD Direct  
 Amplification


Black finish available in some areas.



## High Sound Quality

- High strength chassis contributes to high purity audio reproduction
  - Double-bottom chassis for excellent vibration damping
- ToP-ART (Total Purity Audio Reproduction Technology) and high quality parts
  - I/O (input to output) Direct Symmetrical Design
  - ART (Anti-Resolution and Tough) Base
  - Solid centre bar
  - Custom-made power transformer / 12,000uF block capacitors / Aluminium-extruded heat sinks
- 160W x 2 (max), 100W x 2 (RMS) high power output
- CD Direct Amplification and Pure Direct
- Continuous Variable Loudness Control
- Gold-plated speaker terminals and RCA terminals
- Terminal for detachable AC cable

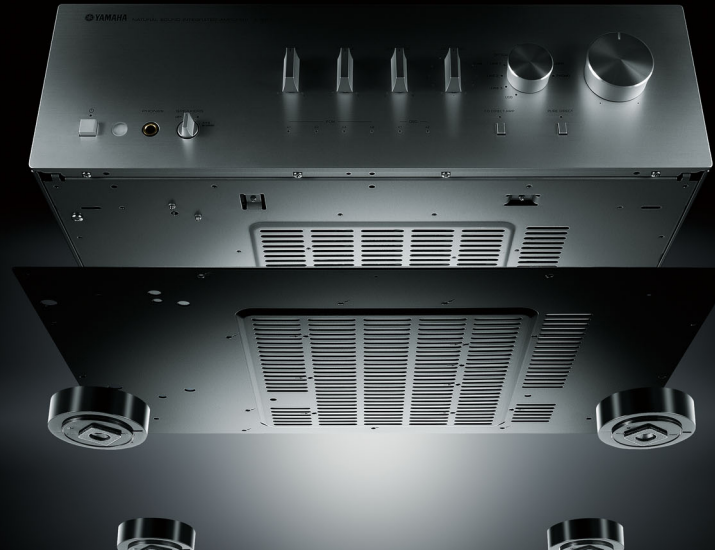
## USB DAC function and Extensive System Expandability

- USB DAC function supports 2.8MHz/5.6MHz DSD native resolution and PCM384kHz/32\*bit reproduction
  - \* Windows support. Mac support is 24-bit.
- High efficiency ESS 32bit DAC (ES9010 K2M)
- Digital signal indicator shows DSD and PCM playback formats and sampling frequencies
- Digital audio inputs for TV or Blu-ray Player
- Connection for YBA-11 Bluetooth® Wireless Adapter (except China model)
- Subwoofer terminal
- Speaker A, B or A+B selection and speaker terminals for two systems
- Phono MM terminal

## Elegant Appearance, Energy-saving Convenience

- Simple yet sophisticated design (aluminium front panel and knobs)
- Rotary encoder input selector with LEDs
- Remote control with clean, simple design
- Auto Power Off

High Quality Sound



**High sound quality circuit design based on the ToP-ART (Total Purity Audio Reproduction Technology) concept**

**ToP-ART™**


ToP-ART Design and ART Base Ensure Optimum Sound When processing and transmission of the audio signal is simple and direct there is less chance of it being affected by noise and distortion. Yamaha's amplifier design technology called ToP-ART features an I/O (input to output) Direct Symmetrical Design, with left and right channels organised in a straight, symmetrical layout for highest signal purity.

**High Strength Chassis Contributes to High Density Sound and High Purity Audio Reproduction**

In order to effectively dampen the vibrations that have adverse effects on sound quality, the A-S801 chassis has a double bottom with a 1mm iron plate. In addition, the power transformer and heat sinks in the power amp section are supported by an extremely strong and stable ART (Anti-Resonance and Tough) base. A solid centre bar further enhances high rigidity support and vibration damping. These Yamaha design innovations contribute to superior S/N ratio and natural, rich sound reproduction.

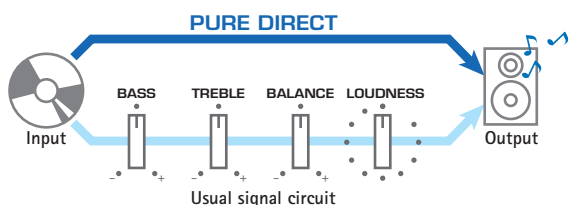
**High Quality Parts for Outstanding Audio Performance**

Custom-made power transformer, custom-made block capacitors, two direct signal path speaker relays, one-point grounding system, aluminium-extruded heat sinks and other top-quality parts effortlessly handle demanding audio signal conditions. The quality of each individual part, as well as how they work together, basically determines the sound quality of any component. Yamaha uses only very high quality parts, carefully selected and tested.



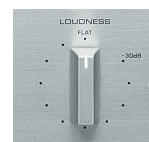
**CD Direct Amplification and Pure Direct Mode for Greater Sound Purity**

With a straight connection to the CD input, CD Direct Amplification maximises CD source S/N ratio. Additionally, engaging the Pure Direct mode causes the music signals to travel the shortest possible circuit route, bypassing the buffer amp and the tone, loudness and balance controls to virtually eliminate any signal degradation for the purest sound quality.



**Continuously Variable Loudness Control**

The A-S801 also features a new analogue loudness control on the front panel that uses electronic volume for higher sound quality, which lets you adjust the loudness effect as desired. Separate from the overall volume, this controls the balance of the low- and high-frequency sounds, providing full tonal range at any volume level, compensating for the natural loss in the human ear of high and low frequencies at soft levels.



**Gold-plated Terminals**

Gold-plated terminals ensure a high quality connection that prevents signal loss. The A-S801 has gold-plated speaker terminals and input terminals.





**USB DAC Function and Extensive System Expandability**

**USB DAC Function Supports 2.8MHz/5.6MHz DSD Native Resolution and PCM384kHz/32\*bit Reproduction**

A built-in USB DAC function allows direct connection to a PC and reproduction of today's popular high resolution sound sources. The Yamaha-developed USB device controller IC has its own master clock that eliminates PC jitter for high resolution signal transmission. The driver is a low loss, high throughput ASIO2.3 Yamaha Steinberg USB driver. Offering compatibility with 5.6MHz DSD native reproduction and PCM 384kHz/32\*-bit PCM reproduction, you can enjoy a wide range of high resolution sound sources for high quality sound. In addition, an indicator on the front panel displays easily understandable DSD and PCM playback formats and sampling frequencies.

\* Windows support. Mac support is 24-bit.



**Exceptionally High Performance 32-bit D/A Converter**

The D/A converter for the A-S801 is the ES9010 K2M from ESS Technology, Inc. We selected this after careful examination of all points—not only its high precision processing of 32-bit audio, but also the ability to handle large amounts of audio data with full PCM 384kHz, DSD 5.6MHz native reproduction, strength in the low register, and high quality definition in the high register. Since the built-in D/A converter generates its own master clock, an original Jitter Elimination function is also included, permitting D/A conversion with extremely low impact of clock jitter. Moreover, a 2-channel D/A converter is housed inside the chip, and applies double differential operation. The result is exceptionally high performance and high quality signal output with superior signal-to-noise ratio.



**Digital Audio Input for TV and/or Blu-ray Player**

The A-S801 is equipped for digital audio input with both optical and coaxial terminals. The optical is for receiving audio from a TV, and the coaxial for receiving audio from a Blu-ray player. The audio stays in the digital domain, giving you pure, pristine dynamic sound for all your entertainment sources, from sports and other programs to movies and concerts.

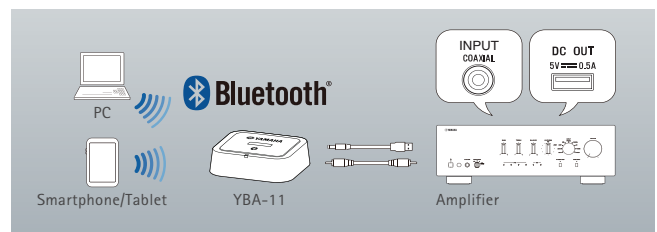


**Connection\* for YBA-11 Bluetooth Wireless Adapter**

With the YBA-11, you'll be able to stream music wirelessly from a Bluetooth capable mobile phone or a PC to the Network receiver. Thanks to the digital connection and aptX® audio coding algorithm, you'll enjoy wireless music streaming with optimum sound quality. You can also conveniently power the YBA-11 via the DC-out connection on the rear panel of the amplifier.

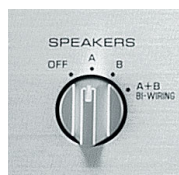


\* Except China model



**Speaker A, B or A+B Selection and Speaker Terminals for Two Systems**

You can connect two separate speaker systems in different rooms and switch between them, or have them both playing at the same time. There are four terminals, so by just pushing a button, you can switch speakers to match the sound source.



**Subwoofer Terminal**

A terminal for connecting a subwoofer is provided, allowing you to increase the bass output of your system for a more powerful sound with better overall sound quality.

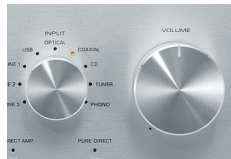
**Phono MM Terminal**

You can connect a turntable with an MM phono cartridge to play vinyl records. This lets you enjoy not only CDs, but also analog record sound from an amp with the latest digital/analog technology.

**Elegant Appearance, Energy-saving Convenience**

**Simple yet Sophisticated Design**

With a beautifully simple and unique design inherited directly from Yamaha's HiFi audio components, these amplifiers also boast an easy-to-operate button layout. The aluminium front panel has a richly textured silver hairline finish. The control knobs are also of the same luxurious construction as used on our top-end models.



**Remote Control with Clean, Simple Design**

The clean, simple design of the remote control provides easy-to-understand one-hand operation. The easy-to-use design makes it simple to adjust song volume and order. The unit has a sophisticated looking hairline finish that matches the design of the amplifiers. You can also use the remote to control a Yamaha CD player.



**Rotary Encoder Input Selector with LEDs**

The rotary encoder makes it quick and easy to select input sources. The luxury hairline finish material offers a nice tactile feeling. LEDs clearly show which source is selected, so you can easily switch sources even in a dark room.

**Auto Power Standby Function**

The amplifier has a power management function that detects when it hasn't been used for a long time (about 8 hours) even though the power is on, and automatically shifts it into standby mode. So even if you forget to turn it off, power consumption will be minimised.



**Main Specifications**

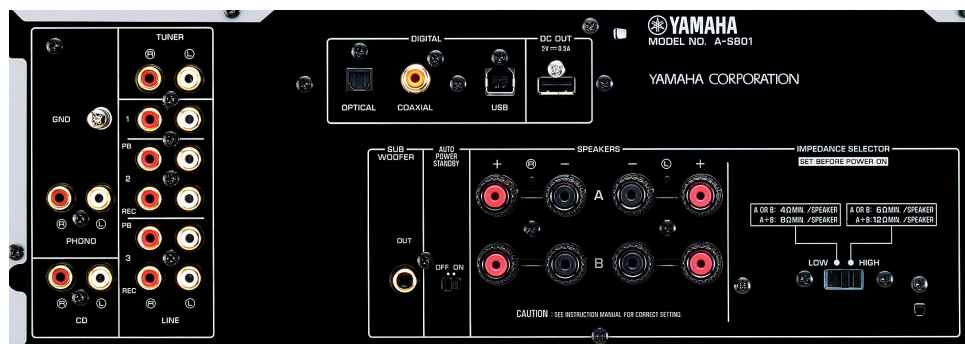
**AUDIO SECTION**

Maximum Power	(4 ohms, 1 kHz, 0.7% THD, for Europe)	160 W + 160 W
IEC Power	(8 ohms, 1 kHz, 0.019% THD, for Europe)	115 W + 115 W
Rated Output Power	(8 ohms, 20 Hz–20 kHz, 0.019% THD)	100 W + 100 W
	(6 ohms, 20 Hz–20 kHz, 0.038% THD)	120 W + 120 W
Maximum Power (JEITA)	(8 ohms, 1 kHz, 10% THD)	145 W + 145 W
	(6 ohms, 1 kHz, 10% THD)	170 W + 170 W
Dynamic Power/Channel	(8/6/4/2 ohms)	140 /170 /220 /290 W
Damping Factor	(8 ohms, 1 kHz)	240
Input Sensitivity/Impedance	CD	200 mV/47 k-ohms
	Phono MM	3.0 mV/47 k-ohms
Frequency Response	CD, etc. to Speaker Out	20 Hz–20 kHz: 0 ± 0.5 dB
	CD, etc. to Speaker Out, Pure Direct on	10 Hz–100 kHz: 0 ± 1.0 dB
RIAA Equalisation Deviation	Phono MM	±0.5 dB
Total Harmonic Distortion (20 Hz–20 kHz)	CD, etc. to Speaker Out	0.019% (50 W/8 ohms)
	CD, etc. to Speaker Out, Pure Direct on	0.03% (2.5 V)
Signal-to-Noise Ratio (IHF-A Network)	CD, etc. (200 mV, Input Shorted)	99 dB
	CD (CD DIRECT on)	104 dB
	Phono MM (5 mV, Input Shorted)	82 dB

Residual Noise	(IHF-A-Network)	40 µV
Channel Separation	CD, etc., Input 5.1 k-ohms (1 kHz/10 kHz)	65 dB/50 dB
	Bass Boost/Cut (at 20 Hz)	±10 dB
	Tone Control Characteristics	
Tone Control Characteristics	Bass Turnover Frequency	400 Hz
	Treble Boost/Cut (at 20 Hz)	±10 dB
	Treble Turnover Frequency	3.5 kHz
Support Audio Sample Rate	Digital in (Coaxial/Optical)	192/176.4/96/88.2/48/44.1/32 kHz
	USB (Type B)	384/352.8/192/176.4/96/88.2/48/44.1 kHz
PCM Word Depths		24/16 bit
DSD		2.8224/5.6448 MHz

**GENERAL SECTION**

Standby Power Consumption		0.5 W
Dimensions	(W x H x D)	435 x 152 x 387 mm
		17-1/8" x 6" x 15-1/4"
Weight		12.1 kg
		26.7 lbs.



<b>Terminals</b>	
<b>Input</b>	
Analogue Audio	
(CD, PHONO, Tuner, LINE 1, LINE 2, LINE 3)	6
Optical Digital	1
Coaxial Digital	1
USB (Type B)	1

<b>Output</b>	
Analogue Audio (LINE 2, LINE 3)	2
Speaker*1	2 (4 terminals)
Pre Out (for subwoofer)	1
Headphone Jack	1
DC Out*2 (for optional accessories)	1

\*1 Banana-plug compatible speaker terminals are available in some areas.  
\*2 Except China model

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