

**Supplemental to New Product Information (SNPI)**



**High-Quality Sound in a Modern Hi-Fi System – The Smarter Way  
Integrated Amplifier with 192kHz USB Audio Input and Low Power Consumption**

■ **Main Features**

- High-quality sound, high output power, and low power consumption with an efficient Class-D Amplifier by ABLETEC, Norway.
- USB cable connection for a fully digital path from any PC, allowing playback of better-than-CD quality sound.
- BurrBrown PCM5102 D/A Converter for various types of digital audio formats.
- Large number of Input/Output connectors allows users to integrate with full-scale hi-fi system.
- A Toroidal-Core Power Transformer for stable current supply.
- Full-metal jacket. Gorgeous aluminum panels for front, top and sides. Small footprint fits your desktop.



Brand	TEAC
Series	Reference 501
Model No.	AI-501DA-B (Black)
Launching Date	October 17, 2012
Delivery Date	Early-November, 2012
UPC Code	043774028580
EAN Code	4907034217915
Overall Dimensions / NW W x H x D	290 x 81.2 x 264 / 4.0 (mm/kg) 11.4 x 3.2 x 10.4 / 8.8 (inch/lbs)
Package Dimensions / GW W x H x D	440 x 190 x 340 / 5.4 (mm/kg) 17.3 x 7.5 x 13.4 / 12.0 (inch/lb)
Quantity per Master Carton	Not Ready

Brand	TEAC
Series	Reference 501
Model No.	AI-501DA-S (Silver)
Launching Date	October 17, 2012
Delivery Date	Early-November, 2012
UPC Code	043774028597
EAN Code	4907034217922
Overall Dimensions / NW W x H x D	290 x 81.2 x 264 / 4.0 (mm/kg) 11.4 x 3.2 x 10.4 / 8.8 (inch/lb)
Package Dimensions / GW W x H x D	440 x 190 x 340 / 5.4 (mm/kg) 17.3 x 7.5 x 13.4 / 12.0 (inch/lb)
Quantity per Master Carton	Not Ready

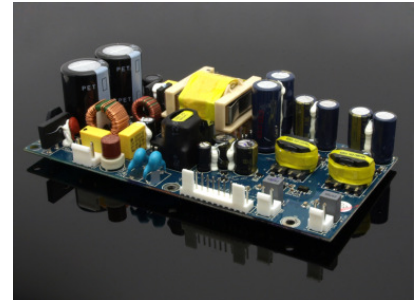
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### ■ Specifications that Achieve a Smart and High-Quality Hi-Fi System

- **Integrated Class-D Amplifier by ABLETEC, Norway: Achieves High-Quality Sound, High Output Power, and Low Power Consumption.**

After month of technical reseach for an amp with high-quality sound and high output power to drive a full-scale speaker system with low power consumption, the ALC0180 Digital Power Amplifier module, manufactured by ABLETEC, Norway, was decided on to compliment the AI-501DA. Delivering a maximum of 90W + 90W of output power at a maximum 55W of power consumption, users are able to enjoy powerful sound without hesitation. Furthermore this next generation integrated amplifier consumes only 10W in idling mode, and 0.2W at power-saving standby mode.



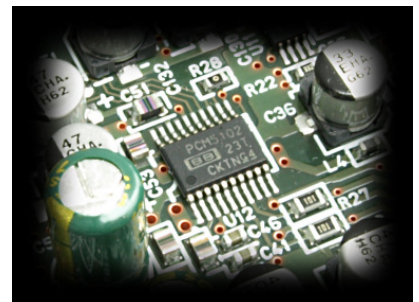
- **Fully Digital Path via USB Cable allows 192kHz High-Res Audio Playback**

Just connecting a USB cable between any Mac/Windows-PC and the AI-501DA, a variety of audio formats can be transferred in a fully digital manner. Once the driver software is installed, your playlist iTunes or Windows Media Player turn into part of your high-quality audio system. This allows 24bit/192kHz data transfer mode reduces jitter noise while the digital data travels along the USB cable.



- **BurrBrown PCM5102 D/A Converter for a Variety of Digital Sources**

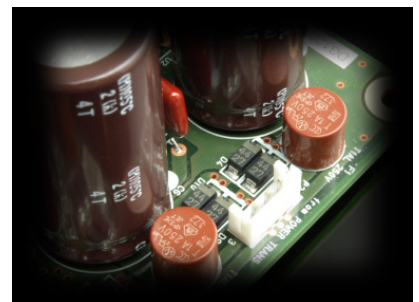
The AI-501DA employs the highly celebrated BurrBrown PCM5102, allowing 32bit processing across the USB audio input, Optical and Coaxial digital inputs. Parts were carefully selected for the analog circuits. The unit utilizes high-quality operational-amplifiers and electrolytic capacitors already proven on previous hig-end models.



- **Large Capacity Toroidal-Core Power Transformer**

An over-sized Troidal-core power transformer helps deliver high-quality sound without sacrificing energy-efficiency and the unit's compact dimentions.

Conventional diodes produce rectification noise that negatively affects the sound of other units. To combat this, TEAC installed Schottky Barrier Diodes to supply a cleaner internal current and reduce rectification noise.



- **High-Quality Headphone Output Processed by an Exclusive Operational Amplifier on Each Channel**

The AI-501DA is also designed for headphone listeing, as well as speaker listening. An exclusive operational amplifier is employed on each channel. Conventional hi-fi systems only use a single operational amplifier for both channels.

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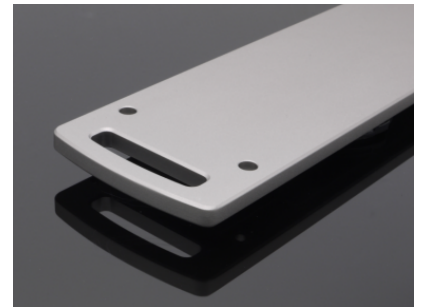
## ● No Cooling-Fan, for Quiet Operation

Effort to eliminate the signal to noise ratio and ensure high-quality audio playback mean nothing with a noisy cooling fan. To reach both goals to attain high performance and compact dimensions, TEAC carefully arranged the inner-workings to eliminate the need of a fan. There are two parameters that conflict with efficient heat dissipation, the circuit design and chassis design. After careful strategy, effective placement of potential heat-generating components allows this high-performance compact amplifier to operate without cooling fan.

## ■ Carefully Designed Hardware Accommodates any High-Standard Listening Environment

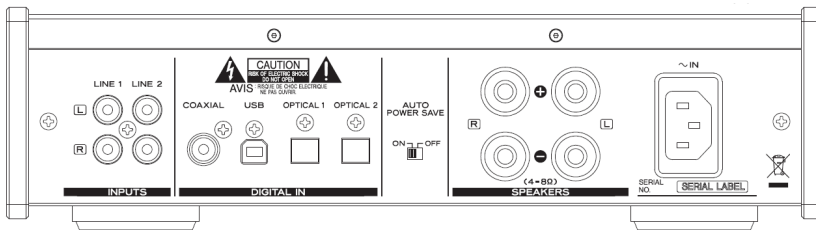
### ● A Full-Metal Construction and Small Footprint for Any Desktop Set-up

Not only the front panel, both side and top panels are made of aluminum panels and attached to a robust steel chassis. These heavy parts eliminate vibrations, and allow all internal circuits to always perform under stable conditions. An A4-size body allows users to place the unit small spaces. The AI-501DA defines a new standard that fits all modern interior with great space-saving design and a timeless presence.



### ● Large Number Input/Output Allow Users to Integrate Full-Scale Hi-Fi System

The AI-501DA provides sufficient number of audio inputs allowing users to integrate full-scale hi-fi systems with both existing and future expansions. The device is equipped with two optical inputs and one coaxial input, along with two analog (two stereo) audio inputs. A set of large binding-post speaker terminals accommodates high-grade speaker cables up to AWG8 grade. A detachable AC cable with a 3-polar socket also allows user to upgrade to a high-grade AC cable.



### ● Well-Designed User Interface

A firm-torqued volume with a machined aluminum knob, and toggle type main power switch give the user assured operation. The remote control with aluminum fascia gives the unit an elegant appearance and very precise volume control, paces of approximately 1.5dB. To help contribute to the musical atmosphere is the classiest characteristic of the AI-501DA, the dimmable backlight, and dual analog meters.



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### ■ Features at-a-glance

- ALC0180 Class-D Power Amplifier by ABLETEC, Norway
- 90W/ch of output power (at 4 ohms impedance)
- Supports up to 24bit/192kHz USB Audio input
- Supports up to 24bit/192kHz Coaxial S/PDIF digital audio input
- Supports up to 24bit/96kHz Optical S/PDIF digital audio input
- Internal 32bit processing on the BurrBrown PCM5102 D/A Converter
- Toroidal-core Power Transformer
- Schottky Barrier diodes for power supply circuits
- Full-metal body
- Dual analog level meters with dimmable backlight
- Headphone amplifier that employs two operational amplifiers
- 1 USB Audio input
- 2 Optical S/PIDF digital inputs
- 1 Coaxial S/PDIF digital input
- 2 RCA analog line inputs
- Screw-type speaker terminals (AWG8 compatible)
- Headphone out
- Aluminum-weighted volume knob
- Remote control
- 3-polar AC socket with a detachable AC cable

### ■ AWARD

In Japan, the AI-501DA have received some prizes of an audio equipment.

**The VGP(Visual Grand Prix)** is a prize of equipments of audio and visual that is most famous prize in the market of the AV equipments. The AI-501DA received the VGP award.

**The AEx(Audio Excellence Award)** is a prize of pure audio equipments. The AI-501DA received the AEx award and the AEx extra award.



特別賞 EXTRA PRIZE

### ■ Key Specifications

#### Supported Audio Formats

USB Audio	PCM,	16 / 24bit,	32 / 44.1 / 48 / 88.2 / 96 / 176.4 / 192 kHz
Coaxial:	S/PDIF,	16 / 24bit,	32 / 44.1 / 48 / 88.2 / 96 / 176.4 / 192 kHz
Optical:	S/PDIF,	16 / 24bit,	32 / 44.1 / 48 / 88.2 / 96 kHz

#### Audio Inputs

USB Audio (USB):	
Connector::	USB B-type

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Version: USB 2.0 (Asynchronous Transfer mode)

## Coaxial (COAX)

Connector: RCA Pin Jack

Input Level: 0.5Vp-p

Input Impedance: 75 ohms

## Optical (OPTICAL 1 / 2)

Connector: TOS-link

Input Level: -24.0 to -14.5 dBm peak

## Analog (LINE 1 / 2)

Connector: RCA Pin Jack

Nominal Input Level: -10dBV

Maximum Input Level: +6dBV

Input Impedance: 30k ohms

**Audio Outputs**

## Speaker

Connector: Binding-post (AWG 8 compatible)

Maximum Output Power: 90W + 90W (4 ohms, 20-20kHz) / 45W + 45W (8 ohms, 20-20kHz)

Rated Output Power: 60W + 60W (4 ohms, 20-20kHz) / 30W + 30W (8 ohms, 20-20kHz)

Supported Impedance: 4 – 8 ohms

## Headphone

Connectors: 1/4" (6.35mm) Stereo Jack

Output Power: 50mW + 50mW (at 32 ohms loaded, THD 0.1%)

**Audio Performance**

Frequency Response: 10 – 60kHz (-3dB/+0dB)

S/N Ratio: 100dB

THD: 0.05% (1kHz, 4 ohms, 45W)

## Supported OS

Windows: Windows XP (32bit), Windows Vista, Windows 7

Macintosh: Mac OS X10.6.4 or later, 10.7, 10.8

## General

Operation Power: 120V AC, 60Hz (US/Canada)

230V AC 50Hz (UK/Europe)

Power Consumption: 55W (Idling mode: 10W, Auto power save standby mode: 0.2W)

Operating Temperature: +5°C to +35°C

+41°F to +95°F

Operating Humidity: 5% to 85% (no condensation)

Storage Temperature: -20°C to +55°C

-4°F to +131°C

Overall Dimensions: 290 (W) x 81.2 (H) x 264 (D) mm, 11.4" (W) x 3.2" (H) x 10.4" (D)

Net Weight: 4.0kg, 8.8 lbs.

Accessories: AC Cable, AC Plug Adapter (3P-2P), Remote Control, AAA Batteries (x2),  
Owner's Manual, Warranty Card

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