

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



**Pioneering the sound frontier  
With state - of - the art technology  
And matured circuit design “know-how”.**  
DSD 5.6MHz / PCM 384kHz capable Dual Monaural D/A Converter

■ **Main Features**

- Supports DSD 2.8/5.6MHz file native playback by ASIO 2.1 or DoP methods.
- Supports up to 32bit/384kHz PCM audio playback
- Dual monaural design from the power supply unit (Troidal-core), DAC to operational amplifier.
- “High-standard” parts: BurrBrown PCM1795 and MUSES8920 for high-quality sound.
- Energy efficient “green-technology” design: Max power consumption, 13W and an auto power-saving mode.
- Full-metal jacket. Gorgeous aluminum panels for front, top and sides. Small footprint fits your desktop.



Brand	TEAC
Series	Reference 501
Model No.	UD-501-B (Black)
Launching Date	October 17, 2012
Delivery Date	Early-November, 2012
UPC Code	043774028528
EAN Code	4907034217892
Overall Dimensions / NW W x H x D	290 x 81.2 x 244 / 4.0 (mm/kg) 11.4 x 3.2 x 9.6 / 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.	UD-501-S (Silver)
Launching Date	October 17, 2012
Delivery Date	Early-November, 2012
UPC Code	043774028535
EAN Code	4907034217908
Overall Dimensions / NW W x H x D	290 x 81.2 x 244 / 4.0 (mm/kg) 11.4 x 3.2 x 9.6 / 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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### ■ Advanced Digital Circuits for the Finest Audio Formats

#### ● DSD 2.8/5.6MHz Native File Playback by ASIO 2.1 or DoP

Both 2.8/5.6MHz DSD files are processed in native mode to properly convert DSD into an analog signal, and skipping PCM conversion in between. ASIO2.1 and DoP (DSD over PCM) playback are also supported.  
(Mac supports DoP only, with standard driver)



#### ● Up to 32bit/384kHz PCM File Playback

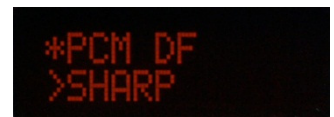
With PCM file format, up to 32bit/384kHz is supported.

#### ● Asynchronous Transfer Mode

By ignoring clock signal from a PC, transfer timing is controlled by more accurately, nearly eliminating clock-noise and allowing digital data to travel un-affected.

#### ● Variety of Settings to Match Your Preference

Three types of digital filters are provided for PCM playback, while 4 types of cut-off filters are provided for DSD playback. Also, shutting down unnecessary circuits – USB circuit when S/PDIF in/out is selected, or Line Out circuit when Headphone is connected – for purer audio processing.



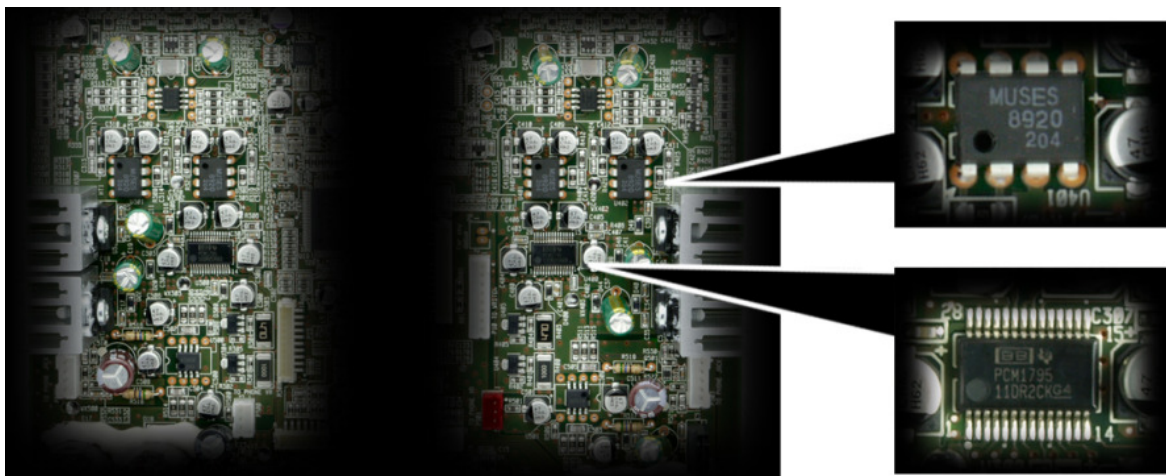
#### ● Reducing Jitter Noise by 192kHz Up-Converting

With a PCM file sampling at a frequency less than 192kHz, users are able to convert up to 192kHz in order to reduce jitter noise, or keep the original sampling rate to enjoy the original sound.

### ■ Pure Audio Circuits, Designed with a Classic Audio Theory

#### ● Dual Monaural Circuits to Eliminate Signal Interference and Maximize Performance.

Every single part, the digital, analog sections, the DAC and the operational amplifiers are designed in dual monaural design to eliminate interfering noise to other channels. This maximizes their potential, and achieves a purer audio processing signal.



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- **32bit Compatible BurrBrown PCM1795 on Each Channel**

Celebrated BurrBrown PCM1795 is employed on each channel. With the PCM1795 alone, it supports 32bit processingis supported with 123dB S/N Ratio.

- **Dual MUSES8920 Operational Amplifier on Each Channel.**

Two MUSES8920 operational amplifiers are employed on each channel. The MUSES8920 was developed for hi-fi components to delivers clear 3-dimensional sound.

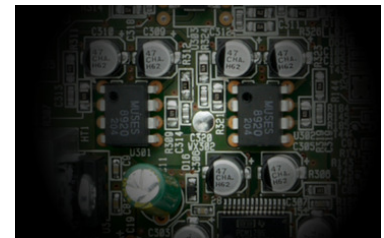


- **Individual Toroidal-core Power Transformer on Each Channel – Maintaining Total Dual Monaural Design**

The two toroidal-core power transformers are highly energy efficient and offer a stable current supply. Employing them on both the left and right channel ensures that current is delivered to each channel, exclusiverly.

- **RCA Output with Parallel Buffer for Better Drivability**

Two operational amplifiers are connected parallell with the lineout circuit section to improve drivability of lineout signal. This helps achieve more of a linear analog output signal, than any other known method.



### ■ High-Standard Hardware Designs for Any Listening Environment

- **A full-metal body, small footprint that can be placed on a desktop**

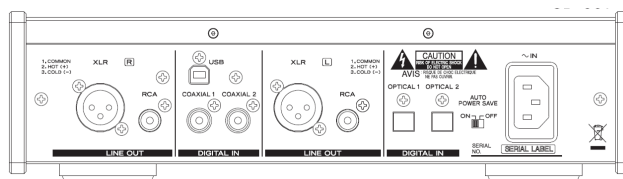
Not only the front panel, but both the side and top panels are constructed of aluminum and attached to a robust steel chassis. These heavy parts eliminate vibrations, and allow all internal circuits to always perform under stable conditions. An A4-size body allows the UD-501 to fit any small space. The Reference 501 series defines a new standard to fit all modern interior, with great space-saving design and a timeless presence.



- **Large Number of Inputs/Outputs for Full-Scale Hi-Fi System Integration**

The UD-501 provides two optical and coaxial digital inputs, one pair of XLR and one pair of RCA analog audio outputs. The RCA lineout jacks have an exclusive clearance zone, so a high grade pin cable with a large shell is able to be connected. The output terminal is selectable:

-RCA or XLR; the XLR connectors have switchable polarity, 2=HOT or 3=HOT. A detachable AC cable with 3-polar socket also allows user to upgrade to a high-grade AC cables.



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### ■ Features at-a-glance

- Supports DSD 2.8/5.6MHz playback (via USB)
- Supports PCM 32bit/384kHz playback (via USB)
- Supports PCM 24bit/192kHz playback (Coaxial)
- Supports up to 24bit/96kHz playback (Optical)
- Supports DSD native playback by ASIO2.1 and DoP method
- Exclusive driver software for Windows
- Standard driver software for Mac
- Asynchronous transfer mode
- 4 analog filters (playback USB, DSD)
- 3 digital filters (playback USB, PCM)
- Non-integral up-conversion to 192kHz, when input signal is less than 192kHz (On/Off selectable)
- **Throughout dual monaural design from power transformer to output section**
- Two toroidal-core power transformers
- Two BurrBrown PCM1795
- Four MUSES8920 operational amplifier
- Parallel buffer for RCA output
- Power supply to USB circuit is switchable
- Lineout circuit can be disabled when headphone is used.
- Low power consumption (MAX 13W)
- Auto power saving mode (On/Off switchable)
- Display mode switchable (Show Up-conversion mode and selected filter)
- Line out switchable (XLR or RCA)
- Polarity change on XLR (2=HOT or 3=Hot)
- Full metal body
- Organic EL Display with Dimmer
- 1 USB audio input
- 2 Optical Inputs
- 2 Coaxial Inputs
- 1 Stereo RCA/XLR
- 3-polar AC socket with a detachable AC cable

### ■ AWARD

In Japan, the UD-501 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 UD-501 received the gold award of the VGP.

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



特別賞 EXTRA PRIZE



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**Supplemental to New Product Information (SNPI)****■ Key Specifications****Supported Audio Formats**

USB Audio:	DSD, 2.8 / 5.6MHz
	PCM, 16 / 24 / 32bit, 44.1 / 48 / 88.2 / 96 / 176.4 / 192 / 352.8 / 384 kHz
Coaxial:	S/PDIF, 16 / 24bit, 44.1 / 48 / 88.2 / 96 / 176.4 / 192 kHz
Optical:	S/PDIF, 16 / 24bit, 44.1 / 48 / 88.2 / 96 kHz
D/A Converter:	BurrBrown PCM1795 x 2
Up-conversion:	192kHz (supports PCM less than 192kHz)

**Audio Inputs**

USB Audio (USB):	
Connector:	USB B-type
Version:	USB 2.0 (Asynchronous Transfer mode)
Coaxial (COAX 1 / 2)	
Connector:	RCA Pin Jack
Input Level:	0.5Vp-p
Inout Impedance:	75 ohms
Optical (OPTICAL 1 / 2)	
Connector:	TOS-link
Input Level:	-24.0 to -14.5 dBm peak

**Audio Outputs**

XLR Balanced	
Connector:	XLR 3-32
Output Impedance:	88 ohms
Max Output Level:	4.0Vrms
RCA Unbalanced	
Connector:	RCA Pin Jack
Output Impedance:	22 ohms
Max Output Level:	2.0Vrms
Headphone Out	
Connector:	1/4" (6.35mm) Stereo Jack
Max Output Level:	100mW + 100mW (32ohms loaded)

**Audio Performance**

Frequency Response:	5 – 80kHz
S/N Ratio:	115dB
THD:	0.0015%

**Supported OS**

Windows:	Windows XP (32bit), Windows Vista, Windows 7
Macintosh:	Mac OS X10.6.4 or later, 10,7,x 10.8.x

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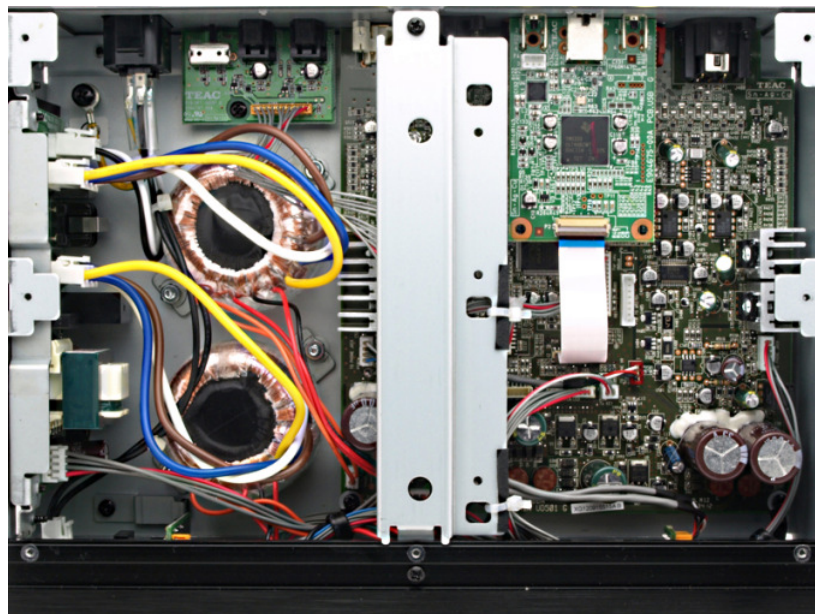
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### Settings

Up-conversion:	On / Off
PCM Digital Filter:	Slow / Sharp / Off
DSD Analog Filter:	FIR1 (185kHz*) / FIR2 (90kHz*) / FIR3 (85kHz*) / FIR4 (94kHz*) *Cut off frequency
Line Output Selector:	RCA / XLR2 (2=Hot) / XLR3 (3=Hot)
Line Output Mode:	On / Off (Line output will be disabled when headphone is used)
USB Input Circuit Off:	On / Auto (USB Input circuit will be enabled when USB is selected)
Setting Display:	On / Off (Up-conversion, Filter name will be turned off)
Display Dimmer:	DIM3 / DIM2 / DIM1 / DISP OFF

### General

Operation Power:	120V AC, 60Hz (US/Canada) 230V AC 50Hz (UK/Europe)
Power Consumption:	Max 13W (Auto power save standby mode: 0.1W)
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 244 (D) mm, 11.4" (W) x 3.2" (H) x 9.6" (D)
Net Weight:	4.0kg, 8.8 lbs.
Accessories:	AC Cable, AC Plug Adapter (3P-2P), Stereo RCA Cable Owner's Manual, Warranty Card



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