Premium System Components

Reference 501 series
Reference 301 series
Reference 01 series
Reference ‘To Go’
Speaker systems
Application software
Specifications:

**AI-301DA**

- **Type:** Coaxial 2-way 1-speaker, Rear Bass-reflex
- **Units:** 100mm Cone (Woofer), 20mm Soft Dome (Tweeter)
- **Rated Input Power:** 20W
- **Maximum Input Power:** 50W
- **Impedance:** 6 ohms
- **Sensitivity:** 85dB/W/m
- **Frequency Response:** 65Hz to 40kHz
- **Cross-over Frequency:** 3.8kHz
- **Cabinet Capacity:** 4.5 Liters, 275cu.in.
- **Dimensions (W x H x D):** 161 x 230 x 207 mm, 6.3” x 9.1” x 8.1”
- **Weight (per piece):** 2.7 kg, 5.9 lbs.
- **Included Accessories:** Speaker Cable (1.8m, 6ft) x 2, Cork Sheet Feet x 8, Owner's Manual (including Warranty Card)

**High-resolution audio and Bluetooth® playback in a single-box.**

Need to stream high-resolution digital audio from a computer, wirelessly send digital audio from a smartphone, or even digitally expand your TV sound system to a superior 2.1ch Home Theater System? The AI-301DA does it all. Enjoy a new approach to audio...

**Stereo Pre-main Amplifier with USB DAC**

**AI-301DA**

- **D/A Converters:** BurrBrown PCM1795
- **Supported Formats:** DSD 2.8M/5.6MHz, PCM 32k/44.1k/48k
- **Audio Inputs:** USB Audio x 1, Coaxial Digital Audio x 1, Optical Digital Audio x 1, Line (RCA) x 2
- **Audio Output:** Subwoofer Pre-out (RCA) x 1
- **Maximum Output Power:** 40W + 40W (4 ohms, 1kHz, 10% THD, JEEITA), 20 W + 20 W (8 ohms, 1kHz, 10% THD, JEEITA)
- **Rated Output Power:** 28W + 28W (8 ohms, 1kHz, 1% THD, JEITA), 15W x 2 (8 ohms, 1kHz, 1% THD, JEITA)
- **Total Harmonic Distortion:** 0.01% (8 ohms, 1kHz, 1% THD, JEITA)
- **Signal-to-Noise Ratio (LINE IN):** 95dB
- **Frequency Response:** 2Hz to 100kHz (–5dB)
- **Headphone Jack:** 1/4” (6.3mm) Stereo Jack
- **Headphone Output Power:** 100mW + 100mW
- **Dimensions (W x H x D):** 215 x 61 x 254 mm, 8.5” x 2.4” x 10.0”
- **Weight:** 2.1kg, 4.6 lbs.
- **Included Accessories:** Power Cord, Remote Control (RC-1313), AAA Batteries x 2, Owner’s Manual (including Warranty Card)

**Stereo Pre-main Amplifier with USB DAC**

**AI-301DA**

- **D/A Converters:** BurrBrown PCM1795
- **Supported Formats:** DSD 2.8M/5.6MHz, PCM 32k/44.1k/48k
- **Audio Inputs:** USB Audio x 1, Coaxial Digital Audio x 1, Optical Digital Audio x 1, Line (RCA) x 2
- **Audio Output:** Subwoofer Pre-out (RCA) x 1
- **Maximum Output Power:** 40W + 40W (4 ohms, 1kHz, 10% THD, JEEITA), 20 W + 20 W (8 ohms, 1kHz, 10% THD, JEEITA)
- **Rated Output Power:** 28W + 28W (8 ohms, 1kHz, 1% THD, JEITA), 15W x 2 (8 ohms, 1kHz, 1% THD, JEITA)
- **Total Harmonic Distortion:** 0.01% (8 ohms, 1kHz, 1% THD, JEITA)
- **Signal-to-Noise Ratio (LINE IN):** 95dB
- **Frequency Response:** 2Hz to 100kHz (–5dB)
- **Headphone Jack:** 1/4” (6.3mm) Stereo Jack
- **Headphone Output Power:** 100mW + 100mW
- **Dimensions (W x H x D):** 215 x 61 x 254 mm, 8.5” x 2.4” x 10.0”
- **Weight:** 2.1kg, 4.6 lbs.
- **Included Accessories:** Power Cord, Remote Control (RC-1313), AAA Batteries x 2, Owner’s Manual (including Warranty Card)
Leading-edge technologies contained in a small enclosure bring you a new way of enjoying master-tape quality music from a computer.

Used as standalone with headphones, or integrated with your existing hi-fi, the UD-301 upgrades your music experience.

Reference 301

Delivering high-performance audio from a desktop component.

USB DAC

UD-301

Specifcations:

D/A Converters: BurrBrown PCM1795 x 2

Supported Formats: DSD 2.8M/5.6MHz, PCM 32/44.1/48/88.2/96kHz

Audio Inputs: USB Audio x 1, Coaxial Digital Audio x 1, Optical Digital Audio x 1

Audio Outputs: Balance (XLR) x 1, Unbalance (RCA) x 1

Headphone Jack: 1/4” (6.3mm) Stereo Jack

Headphone Output Power: 100mW + 100mW (32 ohms Loaded, 0.1% THD)

Supported Headphone Impedance: 16 to 600 ohms

Frequency Response: 5Hz to 55kHz (–3dB)

Signal-to-Noise Ratio: 105dB

Total Harmonic Distortion: 0.0015% (1kHz)

Power Consumption: 10W (less than 0.5W at Auto-Power Saving Mode)

Overall Dimensions (W x H x D): 215 x 61 x 238 mm, 8.5” x 2.4” x 9.4”

Weight: 2.0 kg, 4.4 lbs.

Includes Accessories: Power Cord, Owner’s Manual (including Warranty Card)

From the very latest chart albums to songs that you remember from way back, Enjoy them all with Master-grade quality.

High-resolution audio data – DSD 2.8M/5.6MHz and PCM 192kHz/24-bit – are available from on-line music stores over the Internet.

You’ve heard the song on CD a million times but when you hear it in high-res you’ll hear levels of detail that you never knew were there...
Experience unparalleled sound quality. Modern state-of-the-art digital technology and proven audio know-how will take you to the next level of audio nirvana.

Providing a High-resolution Audio Experience for Everyone.

The TEAC HR Audio Player is a high-quality music playback application for Windows and Mac, with high-resolution audio data processing capabilities including DSD 5.6MHz and PCM 384kHz/32-bit. Used in conjunction with TEAC’s USB DAC, the TEAC HR Audio Player allows you to listen to high-resolution audio without the sort of complication typical of many other music playback applications. Simply select the connected device, and drag-and-drop music files onto the window of the application. Everything is optimized for high-resolution audio playback. The simplified screen of the TEAC HR Audio Player reduces the load on the CPU (which processes millions of calculations a second when playing back high-resolution audio data) while the RAM Buffer Playback mode pre-loads music audio data prior to playback, further reducing the load on the CPU.

It’s all about the sound...

Specifications:
- System Requirements*: Windows XP 32bit (UD-501 only), Windows Vista, Windows 7, Windows 8, Windows 8.1, OS X Lion (10.7), OS X Mountain Lion (10.8), OS X Mavericks (10.9)
- Supported Formats* (DSD): dsf, diff 2.8M/5.6MHz (UD-501, UD-301, AI-301DA only)
- Supported Formats* (PCM): PCM, WAV, FLAC 44.1k/48kHz/88.2k/96kHz/176.4kHz/192kHz/384kHz
- DSD Transfer Mode: DSD Native (Windows only), DoP

* Supported Formats and System Requirements depend on specifications of respective USB DAC.
Look... high-res audio without a PC!
Experiencing the high-resolution audio world, with a conventional way of audio listening.
A pure and rich sense of sound depth is delivered from DSD file on a single disc.
Reference 501

Maximize your headphone’s potential by choosing the right damping factor setting.

USB DAC

UD-501

Specifications:
- D/A Converter: BurrBrown PCM1795 x 2
- Supported Formats: DSD 2.8M/S 5.6kHz, PCM 4.4/148/88.2/768kHz 16/24/32bit (USB Input), PCM 32/44.1/48/88.2/96kHz 24/48/96kHz 16/24bit (Optical Input) Audio Inputs: USB Audio x 1, Digital Audio x 2
- Headphone Jack: 1/4” (6.3mm) Stereo Jack
- Headphone Output Power: 100mW + 100mW (32 ohms Loaded), 0.005% THD
- Frequency Response: 1Hz to 20kHz
- Signal-to-Noise Ratio: 100dB (INF-A, Input Short) Total Harmonic Distortion: 0.0005% (DSD), 0.0004% (PCM 192kHz/24bit), 0.0013% (CD-DA)
- Dynamic Range: 112dB (DSD), 110dB (PCM 192kHz/24bit), CD-DA Total Harmonic Distortion: 0.0005% (DSD), 0.0004% (PCM 192kHz/24bit), 0.0013% (CD-DA)
- Dynamic Range: 112dB (DSD), 110dB (PCM 192kHz/24bit), 103dB (CD-DA) Power: AC120V 60Hz (US/Canada), AC230V 50Hz (UK/Europe) Power Consumption: 3W (USB Input), 10W (AC Input)

Stereo Pre-main Amplifier with USB DAC

AI-501DA

Specifications:
- D/A Converter: BurrBrown CS4398
- Supported Formats: DSD 2.8M/S 5.6kHz, PCM 4.4/148/88.2/768kHz 16/24/32bit (USB Input), PCM 32/44.1/48/88.2/96kHz 24/48/96kHz 16/24bit (Optical Input) Audio Inputs: USB Audio x 1, Digital Audio x 1, Optical Digital Audio x 2, Line (RCA) x 2
- Maximum Output Power: 68W + 68W (4 ohms, 20 Hz to 20kHz, JITA), 34W + 34W (8 ohms, 20Hz to 20kHz, JITA) Rated Output Power: 50W + 50W (32 ohms Loaded), 0.005% THD
- Power: AC120V 60Hz (US/Canada), AC230V 50Hz (UK/Europe)
- Frequency Response: 10Hz to 100kHz (+3dB, –3dB)
- Signal-to-Noise Ratio: 100dB (INF-A, Input Short) Total Harmonic Distortion: 0.01% (4 ohms, 1kHz, 1W, JITA) Headphone Jack: 1/4” (6.3mm) Stereo Jack
- Headphone Output Power: 50mW + 50mW (32 ohms Loaded, 0.005% THD)
- Power: AC120V 60Hz (US/Canada), AC230V 50Hz (UK/Europe)

High-resolution CD Player

PD-501HR

Specifications:
- D/A Converter: Cirrus Logic CS4398
- Supported Formats: DSD 2.8M/S 5.6kHz, PCM 4.4/148/88.2/768kHz 16/24/32bit (USB Input), PCM 32/44.1/48/88.2/96kHz 24/48/96kHz 16/24bit (Optical Input) Audio Inputs: USB Audio x 1, Digital Audio x 1, Optical Digital Audio x 1, Line (RCA) x 1
- Frequency Response: 20Hz to 80kHz (DSD, PCM 192kHz/24bit), 20Hz to 20kHz (CD-DA) Signal-to-Noise Ratio: 116dB (DSD, PCM 192kHz/24bit, CD-DA Total Harmonic Distortion: 0.0005% (DSD), 0.0004% (PCM 192kHz/24bit), 0.0013% (CD-DA)
- Dynamic Range: 112dB (DSD), 110dB (PCM 192kHz/24bit), 103dB (CD-DA) Power: AC120V 60Hz (US/Canada), AC230V 50Hz (UK/Europe)

Headphone Amplifier

HA-501

Specifications:
- Audio Inputs: Balance (XLR) x 1, Unbalance (RCA) x 2
- Maximum Output Power: 88W + 88W (8 ohms, 1kHz, JITA), 55W + 55W (8 ohms, 1kHz, JITA)
- Rated Output Power: 70W + 70W (4 ohms, 1kHz, JITA), 55W + 55W (8 ohms, 1kHz, JITA)
- Supported Speaker Impedance: 4 to 8 ohms
- Frequency Response: 10Hz to 60kHz (+3dB, –3dB)
- Signal-to-Noise Ratio: 116dB (A-Weight, RCA Input, 2Vrms, 1kHz)
- Total Harmonic Distortion: 0.01% (INF-A, Input Short) Total Harmonic Distortion: 0.001% (USB Input, 1W, 32 ohms Loaded)

Coaxial 2-way Speaker System

S-300NEO

Specifications:
- Type: Coaxial 2-way 1 Speaker, Rear Bass-reflex (Magnetically Shielded) Units: 130mm Cone (Woofer), 25mm Soft Dome (Tweeter) Maximum Input Power: 100W Rated Input Power: 50W Impedance: 6 ohms Sensitivity: 86dB/W/m Frequency Response: 55Hz to 33kHz Cabinet Capacity: 5.7 Liters, 350 cu.in. Overall Dimensions (W x H x D): 184 x 240 x 229 mm, 7.2” x 9.4” x 9.0” Weight (per Unit): 4.3kg, 9.5 lbs Included Accessories: Speaker Cables (2m, 6.6ft), Screw Spikes x 6, Washers x 6, Spike Bases x 6, Cleaning Cloth, Owner’s Manual (including Warranty Card)
Sleek and easy to place CD hi-fi system turns your computer into the heart of a high-resolution audio system.

**A-H01**

**Specifications:**
- D/A Converter: BurrBrown PCM5102
- Supported Formats: PCM 32/44.1/48kHz/88.2/96kHz/176.4kHz
- Frequency Response: 45Hz to 140kHz
- Sensitivity: 85dB/W/m
- Frequency Response: 95Hz to 25kHz
- Impedance: 8 ohms
- Type: Bass-reflex

**Other Features:**
- HVT Unit for Extra Bass Sound and less vibration.
- Cabinet sealed with Rubber to Eliminate Air Leakage.
- Piano Black Satellite Speakers with Small Footprint.
- Auto Power Saving Mode.

**Dimensions (W x H x D):** 215 x 61 x 228 mm, 8.5" x 2.4" x 9.0"

**Weight:** 1.45kg, 3.2 lbs.

**Cabinet Capacity:** 1.1 Liter, 67 cu.in.

**Maximum Output Power:** 25W (4 ohms, 1kHz, JEITA)

**Power Consumption:** 5.3W

**Input Power:** 60W (JEITA)

**Audio Outputs:** Coaxial Digital Audio x 1, Optical Digital Audio x 1, Line ( RCA) x 1

**Sensitivity:** 78dB/W/m

**Frequency Response:** 95Hz to 25kHz

**Impedance:** 8 ohms

**Type:** Bass-reflex

**Dimensions (W x H x D):** 110 x 148 x 168 mm, 4.3" x 5.8" x 6.6"

**Weight (Per Unit):** 1.3 kg, 2.9 lbs.

**Included Accessories:** AC Adapter (PS-M620), Power Cord for AC Adapter, Remote Control (RC-1288), AAA Batteries x 2, RCA Cable, Owner's Manual, Warranty Card

**Ready, Set, and Go!**

A Totally New Home Audio solution.

**CD Player**

**PD-H01**

**Specifications:**
- D/A Converter: BurrBrown PCM5102
- Frequency Response: 10Hz to 20kHz
- Sensitivity: 78dB/W/m
- Frequency Response: 95Hz to 25kHz
- Impedance: 8 ohms
- Type: Full-range, Closed

**Other Features:**
- Auto Power Saving Mode.
- Edge-hold Slot-in Mechanism for Safer Disc Loading.

**Dimensions (W x H x D):** 110 x 150 x 168 mm, 4.3" x 5.9" x 6.6"

**Weight:** 1.3 kg, 2.9 lbs.

**Included Accessories:** AC Adapter (PS-M620), Power Cord for AC Adapter, RCA Audio Cable, Speaker Cables (1m, 3.3ft) x 2, Rubber Feet x 12, Owner's Manual (including Warranty Card)

**2-way Speaker System**

**LS-H70A**

**Specifications:**
- Frequency Response: 55Hz to 35kHz
- Sensitivity: 85dB/W/m
- Frequency Response: 1.3kHz to 22kHz
- Impedance: 8 ohms
- Type: Double-faced HVT

**Other Features:**
- Cooling Fan-less Design for Enhanced Refinement.

**Dimensions (W x H x D):** 215 x 61 x 228 mm, 8.5" x 2.4" x 9.0"

**Weight (Per Unit):** 3.2 kg, 5.1 lbs.

**Cabinet Capacity:** 5.7 Liter, 350 cu.in.

**Maximum Output Power:** 140W (4 ohms, 1kHz, JEITA)

**Power Consumption:** 140W

**Input Power:** 70W

**Audio Outputs:** Coaxial Digital Audio x 1, Optical Digital Audio x 1, Line ( RCA) x 1

**Sensitivity:** 85dB/W/m

**Frequency Response:** 55Hz to 35kHz

**Impedance:** 8 ohms

**Type:** Full-range, Closed

**Dimensions (W x H x D):** 150 x 250 x 229 mm, 5.9" x 9.8" x 9.0"

**Weight:** 1.6 kg, 3.5 lbs.

**Included Accessories:** Power Cord, Remote Control (RC-1268), AAA Batteries x 2, RCA Cable, Owner’s Manual, Warranty Card

**Stereo Pre-main Amplifier with USB DAC**

**A-H01**

**Specifications:**
- D/A Converter: BurrBrown PCM5102
- Supported Formats: PCM 32/44.1/48kHz/88.2/96kHz/176.4kHz
- Frequency Response: 10Hz to 20kHz
- Sensitivity: 78dB/W/m
- Frequency Response: 95Hz to 25kHz
- Impedance: 8 ohms
- Type: Bass-reflex

**Other Features:**
- Auto Power Saving Mode.
- Cooling Fan-less Design for Refined Quietness.

**Dimensions (W x H x D):** 215 x 61 x 258 mm, 8.5" x 2.4" x 10.1"

**Weight:** 3.8 kg, 8.4 lbs.

**Cabinet Capacity:** 12.8 Liter, 757 cu.in.

**Maximum Output Power:** 40W + 40W (4 ohms, 1kHz, JEITA), 20W + 20W (8 ohms, 4 ohms)

**Power Consumption:** 5W

**Input Power:** 5W (JEITA)

**Audio Outputs:** Coaxial Digital Audio x 1, Optical Digital Audio x 1, Line ( RCA) x 1

**Sensitivity:** 85dB/W/m

**Frequency Response:** 55Hz to 35kHz

**Impedance:** 8 ohms

**Type:** Bass-reflex

**Dimensions (W x H x D):** 215 x 75 x 228 mm, 8.5" x 3.0" x 9.0"

**Weight (Per Unit):** 1.3 kg, 2.9 lbs.

**Cabinet Capacity:** 1.1 Liter, 67 cu.in.

**Maximum Output Power:** 25W (4 ohms, 1kHz, JEITA)

**Power Consumption:** 5.3W

**Input Power:** 60W (JEITA)

**Audio Outputs:** Coaxial Digital Audio x 1, Optical Digital Audio x 1, Line ( RCA) x 1

**Sensitivity:** 85dB/W/m

**Frequency Response:** 55Hz to 35kHz

**Impedance:** 8 ohms

**Type:** Bass-reflex

**Dimensions (W x H x D):** 110 x 148 x 168 mm, 4.3" x 5.8" x 6.6"

**Weight (Per Unit):** 1.3 kg, 2.9 lbs.

**Included Accessories:** AC Adapter (PS-M620), Power Cord for AC Adapter, RCA Audio Cable, Speaker Cables (1m, 3.3ft) x 2, Rubber Feet x 12, Owner's Manual (including Warranty Card)

**2.1ch Speaker System**

**LS-WH01**

**Specifications:**
- Type: 2-way Speaker System
- 2-speakers, Rear Bass-reflex
- Unit: 120mm OMF Cone Woofer
- 25mm Soft Dome Tweeter
- Frequency Response: 45Hz to 1kHz

**Other Features:**
- Cooling Fan-less Design for enhanced refinement.

**Dimensions (W x H x D):** 215 x 61 x 228 mm, 8.5" x 2.4" x 9.0"

**Weight:** 1.6 kg, 3.5 lbs.

**Included Accessories:** Power Cord, Remote Control (RC-1268), AAA Batteries x 2, RCA Cable, Owner’s Manual, Warranty Card

**Reference System 2014**

Sleek 2.1ch Hi-Fi System for Desktop or Bookshelf.
Listening at a high volume for a long time may cause temporary or permanent hearing loss.

Specifications:
- D/A Converter: BurrBrown PCM5102
- Supported Formats: PCM 96kHz/24-bit (“TEAC HR Audio Player for iOS”-installed iOS device with Lightning connector, “TEAC HR Audio Player”-installed PC/Mac via USB Cable)
- Audio Inputs: USB x 2, Optical Digital Input (Optical 3.5mm) x 1, Analog Audio Outputs: 3.5mm Stereo Mini Jack x 1
- Headphone Output: 3.5mm Stereo Mini Jack x 1
- Compatible Headphone Impedance: 8 ohms to 600 ohms
- Frequency Response: 15Hz to 100kHz (AUDIO IN) Maximum Output Power: 160mW + 160mW (32ohms, 1kHz), 100mW + 100mW Output Power (32ohms, 1kHz, 10% THD, JEITA), 35mW + 35mW (600ohms, 1kHz, 10% THD, JEITA), 65mV + 65mV (300ohms, 1kHz, 10% THD, JEITA), 35mW + 35mW (600ohms, 1kHz, 10% THD, JEITA)
- Total Harmonic Distortion: 0.001% (32ohms, 1kHz, 100mW + 100mW Output Power, JEITA) Power: Built-in Li-ion Battery ● Battery Life: Approximately 8 hours (Digital Input) ● Dimensions (W x H x D): 64 x 21.7 x 112mm, 2.5” x 0.85” x 4.4” (Excluding protruding guards), 68 x 23 x 126mm, 2.7” x 0.9” x 5.0” (Including protruding guards) ● Weight: 2.0lb, 0.9kg. ● Included Accessories: DC Power Supply Cable, USB Cable, Rubber Band x 2, Owner’s Manual (with Warranty Card), Optional Accessory: USB/AC Adapter PS-P515U.

### HA-P50

- 96kHz/24-bit High-res Audio Digital Streaming from iOS Devices and PC/Mac via USB Cable.
- Digital Streaming from Android Devices via USB Cable.
- Discrete Push-pull Circuit Design Achieves 0.001% THD.
- 160mW + 160mW High-performance Amplifier Circuit.
- Built-in Li-ion Battery with USB Charging.
- 8-hour Battery Life for Long-haul Flight, ideal for watching movies on an iPad.

### Portable Headphone Amplifier with USB DAC

**HA-P50**

**Gold**

- **High-res Audio Playback App for iOS Devices**
  - TEAC HR Audio Player for iOS

  Free to download

  This iOS App turns your iPhone, iPad and iPod touch into a High-res Audio Player supporting up to 96kHz/24-bit, and delivers digital audio streaming to the HA-P50. Also supports playing back Music Library on your iPhone, iPad and iPod touch.

  **Specifications:**
  - Supported iOS: iOS 6, iOS 7
  - Supported iOS Devices: iPhone 5s, iPhone 5c, iPhone 5, iPad Air, iPad mini with Retina display, iPad (4th generation), iPad mini, iPod touch (5th generation)

**High-speed Download**

Full Reference to Go. Wherever you are – land, sea or air – you can enjoy the same high-resolution sound you get from a Reference Home Hi-Fi System.

### Reference for Icons

- DSD: Supports DSD 5.6MHz Digital Streaming.
- PCM: Supports PCM Digital Streaming. (Shown with Sampling Frequency and Bit length)
- Built-in D/A Converter:
  - Supports Digital-to-Analog Conversion by Built-in D/A Converter(s).
- USB DAC: Supports Digital Streaming via USB Port.
- Bluetooth aptX® Codec: Supports High-quality Wireless Audio Streaming by Bluetooth® aptX® Codec.

### TEAC CORPORATION

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Authorized Dealer