TEAC

Premium System Components





from Analog to Hi-Res Audio

A world of audio that brings timeless emotive sound.





from Desktop to Mobile, on top of that.

wide range of premium audio components from TEAC.



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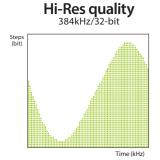
Once experienced, never go back before.

Hi-Res audio is ultra precise digital audio data close to the original analog waveform, or "Master tape quality" by digitizing the sound more frequently and more precisely.

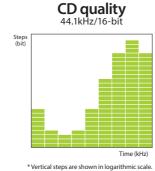
The CEA (Consumer Electronics Association) and the Japan Audio Society define products with capability of processing 24-bit/96kHz or higher on digital audio equipment, or reproducing 40kHz or higher frequency response on analog audio equipment such as amplifier and speakers, and grants to accompany the "Hi-Res" logo with the product.



The "Hi-Res" logo defined by CEA and Japan Audio Society.







With the PCM (Pulse Code Modulation) format which is a major method of digitizing analog audio signal, sequential analog sound is sampled a million times in few seconds, and each sample is quantized to more than 4.3 billion steps.

Therefore, as number of samples and steps increase, the digital sound becomes closer to the original analog sound.

FLAC and WAV are encapsulated formats of PCM. FLAC is a compressed format by maintaing sound quality, while WAV is not compressed.

DSD
Direct Stream Digital

DSD, – or 1-bit audio – is another approach of digitizing analog audio originally developed for SACD format. By sampling the original analog waveform 2.8, 5.6 or even 11.2 million times in a second, as PCM does 0.384 or 0.192 million times,

each sample is formed in 1-bit format which has advantages of simplifying Digital-to-Analog process, and reducing quatize-noise. As a result, the reproduced sound is closer to the original waveform than PCM.

Getting Hi-Res music

Hi-Res music is available at on-line music stores on the Internet. HD Tracks (www.hdtracks.com) for example, most on-line stores provide huge selection of Hi-Res music, from a master piece of classic rock to the latest hit tune on the chart. Each downloaded Hi-Res music file is stored on your computer, which means you've got studio master-tape on it.



* HD Tracks is available in the US only.

then, Playback

Downloaded Hi-Res music can be played back on both computer and smartphone/tablet, and delivered to audio system via USB cable, maintaining Hi-Res quality in digital format.

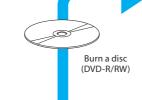
TEAC provides easy-to use Hi-Res playback software/app "TEAC HR Audio Player" for each platform, Windows, Macintosh, iOS and Android.











any styles and sizes, it's your choice.

Towards the Pinnacle of Hi-Fi

Supporting the next-generation Hi-Res audio formats – DSD 11.2MHz and PCM 384kHz –, these flagship components with L/R independent dual-monaural and balanced circuit design for purer audio processing pursuit Hi-End components.

UD-503	page 6
NT-503	nage 7

Tasting the Quality

|. : □ : □ 0

Filled with Hi-Res audio technologies learned from decades of Professional Audio development, these premium components parallel to full-size components. Handsome full-metal body is not only for built, but also entertains your mind of owning an authentic hi-fi system, while satisfying your ears with Hi-Res audio.

UD-301	page 8
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Enjoy at ease

Stylish micro components with amazingly small footprint provide a totally new aspect of music listening at Hi-Res standard. Employing Bluetooth® connection for wireless audio playback from smartphone and tablets, as keeping your CD library active.*

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AI-101DA	page 13
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*	Applied for the CR-H10

nage 13

CR-H101

On the street, or in the Air

Basking in the Hi-Res world with your favorite headphones wherever you are – on the street, or in the long hawl flight –, TEAC's portable headphone amplifiers provides versatile ways of audio listening with iPhone/iPad, Android phone, or tablets. A stand-alone portable Hi-Res audio player with microSD card reader also available.

HA-P90SD page 16
HA-P5 page 17
HA-P50SE page 18
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in a Traditional Way

Managing music library disc by disc is still easy and comprehensive way to picking a music to be played, as we do for a century.

PD-501HR..... page 9

even, Vinyl Records in Hi-Res Quality

Analog audio on vinyl records are also your Hi-Res library. Analog Tunrtable with an analog-to-digital converter delivers digital audio signal that equivalent to Hi-Res quality to your favorite DAC.

TN-570..... page 1







- DSD 11.2MHz, and PCM 320bit/384kHz Hi-Res digital audio streaming from Windows/Mac.
- 700mW + 700mW of output power by full-balanced discrete headphone amplifier circuit
- Balanced BTL Drive and Active-ground Drive modes for excellent headphone listening.
- Dual TRS Headphone Jacks for either Balanced BTL Drive mode, Active-ground Drive mode, or Parallel-unbalanced Drive mode for two.
- RCA analog unbalanced input for versatile system configurations.
- TEAC's patent-registerd Pin-point Feet for the perfect balance and easy installation.



for both L and R Channels.



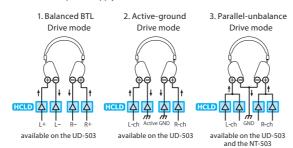


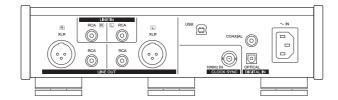
UD-503's Three Drive Modes for Headphones

The UD-503 also behaves as an excellent Headphone Amplifier, with a discrete AB-class amplifier design that expands its A-class operating range. The A-class range - or known as a prime range - is used for most cases of headphone listening.

In addition, a guad "TEAC-HCLD" circuits that employ Enhanced Current Buffer Amplifiers applied not only for line output, but also headphone output, provide Balanced BTL Drive, Active-ground Drive, and Parallel-unbalanced Drive modes.

Active-ground Drive mode: By maintaining both COLDs (GND) to stable 0V indovidually, based on the elements of Balanced connection, the Active-ground Drive mode achieves enhanced silence by suppressing hum from the power supply.











- High-quality wireless audio playback from smartphone/tablet by aptX® Bluetooth®.
- Access to premium Internet music services such as tunein. *1
- 5.6MHz DSD and 192kHz/24-bit PCM Hi-Res audio playback from front USB port.
- Gap-less playback on DLNA, Home Media and USB flash memory playback.*2
- 500mW + 500mW of headphone output power supporting Parallel-unbalanced Drive.
- Free Remote Apps provided for iOS and Android devices.

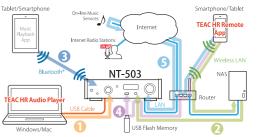
Remote App

TEAC HR Remote (for iOS/Android)

A smart way of controlling the NT-503 from distant place in your room wirelessly via Wi-Fi. Available for iOS and Android. (Free download from AppStore/Google Play)

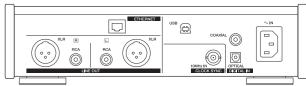
NT-503's Versatile Network Capabilities

- Hi-Res playback from PC/Mac via a single USB cable (max. DSD 11.2MHz, PCM 384kHz)
- Hi-Res playback from music server via LAN cable (max. DSD 5.6MHz, PCM 192kHz)
- High-quality wireless audio playback from smartphone (Bluetooth® connection with aptX®, AAC and SBC codec)
- Hi-Res playback from USB flash memory via smarphone (max. DSD 5.6MHz, PCM 192kHz)
- Access to premium Internet music services (Internet Radio access available from iOS device only)



To playback from USB Flash Memory, a smartphone or tablet installing TEAC HR Remote (for iOS) or TEAC AVR Remote (for Android) is required to connect to the same Wi-Fi network. of the NT-503.

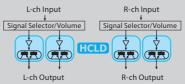
*1: Not every service is available in every country. Subscription fee may required on some sevices.
*2: Applicable on the same sampling frequency of WAV, FLAC, AAC ALAC, WMA, OGG and MP3 file



Common Features on the UD-503 and NT-503

Brushed-up Basics as Authentic Hi-Fi Products

- Dual-monaural Design throughout Power Units, D/A sections, and Analog Circuits. $\bullet \ \mathsf{Dual} \ \mathsf{Over}\text{-}\mathsf{sized} \ \mathsf{Toroidal}\text{-}\mathsf{core} \ \mathsf{Power} \ \mathsf{Transformers} \ \mathsf{for} \ \mathsf{Independent} \ \mathsf{Current} \ \mathsf{Supply}$
- Isolated Circuit Design for Digital and Analog sections.
- Quad "TEAC HCLD" Buffer Amplifiers in Line Amp Section for Enhanced Current Output.
- "TEAC QVCC" High-precision Volume Control Circuit for 256 Steps in 0.5dB Step.
- 6 Full Metal Body for Vibration Elimination and Elegant Style, with A4-sized Foot-print.
- Quad TEAC-HCLD (High Current Line Driver) Circuits



The "TEAC-HCLD" employs dual buffer amplifier circuits for each channel, providing differential processing on balanced output mode, and parallel processing on unbalanced output mode. By enhancing it's current output, wider dynamic range maximizes potential of Hi-Res audio source.

Digital Audio Technologies from Pro-Audio Development

- Dual High-end DAC Chips "VERITA AK4490" from Asahi-Kasei Electronics for L and R Channels.
- $\bullet \ \text{Up-conversion to 12.2MHz DSD} \ / \ 384 \text{kHz PCM, by Fluency-function Programable IC Architecture}.$
- Two types of DSD Filters and Four types of PCM Digital Filters for Fine Sound Tuning.
- 10MHz External Clock Input Supported.
- Dual High-precision Internal Clocks for 44.1kHz and 48kHz Systems.
- Free Software Provided for High-Res Audio Playback. (Windows, Macintosh)

Versatile Inputs/Outputs Connectors

- XLR Balanced Analog Output with Switchable HOT Pin Assignment.
- RCA Unbalanced Analog Output with Wide Pitch for Large-shell Cable.
- •USB Audio, Coaxial Digital, and Optical Digital Inputs on Back Panel.
- Convenient Front Digital Input Jack for Coaxial/Optical. (Convertible)
- Low Power Consumption, and Auto Power Saving.

Reference 501









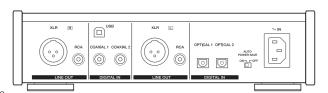








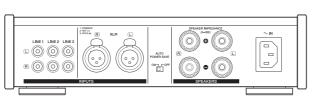
- DSD 5.6MHz, PCM 32-bit/384kHz, Hi-Res digital audio streaming via USB cable
- Throughout Dual-monaural circuit design eliminates interference between channels
- Dual over-sized Toroidal-core power transformers for left and right channels
- 4 types of DSD cut-off frequency settings, and 3 types of FIR Filter options for fine tuning
- Quad MUSES8920 Op-amps design, and dual Burr-Brown PCM 1795 D/A converters
- Non-integral up-conversion to 192kHz, and Asynchronous Transfer mode
- Total 5 digital inputs (USB Audio x 1, Coaxial digital x 2, Optical digital x 2)
- A pair of XLR Balanced analog audio output and RCA Unbalanced analog output
- Auto Power Saving mode, and high-contrast and dimmable organic EL display
- Line Out circuit cancellation for finer processing on headphone listening
- Parallel Buffer circuit design for RCA analog output
- Free Hi-Res playback softwares for Windows/Mac







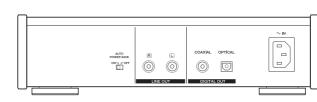
- ullet 120 + 120 watts high-performance Class-D amplifier engineered by ABLETEC
- Qualified Hi-Res amplifier supporting 10 to 60,000Hz frequency response
- Full-balance analog circuit eliminates noise for better Signal-to-Noise ratio
- Dual analog level meters with dimmer control visualize pulse of the music
- CCLC headphone circuit for high-quality headphone listening • Over-sized Toroidal-core power transformer and Schottky Barrier diodes
- Cooling fan-less design for silence
- Aluminum-weighted volume control
- Total 4 analog audio inputs (XLR Balanced x 1, RCA Unbalanced x 3)
- AWG8-graded screw-type speaker terminals compatible with Banana plug
- Auto power saving mode
- Remote control







- DSD 5.6MHz, PCM 24-bit/192kHz Hi-Res digital audio playback from disc
- TEAC's unique VACS mechanism eliminates vibration and reading errors
- Edge-hold slot-in mechanism for safer disc loading
- Center-mount CD drive for perfect weight distribution
- Cirrus Logic CS4398 D/A converter with Pure mode DSD/PCM processing
- Hi-Fi-graded Op-amps NJM5532 from JRC
- Individual power transformers for digital and analog sections
- Schottky Barrier diodes for power supply circuits
- 6-layered glass epoxy circuit boards for simplified signal paths
- Various playback modes including 99-track program, repeat and shuffle
- Dimmable organic EL display
- Auto power saving mode
- Remote control







- Qualified Hi-Res speakers supporting 50 to 50,000Hz frequency response
- Coaxial 2-way unit for brilliant acoustic focus and natural sound image
- New 25mm titanium dome tweeter and 130mm cone woofer
- Superb energy balance over entire audible frequency range
- Air Direct Center Pole System to drive massive sound power
- Carefully designed rear Bass-reflex port for rich bass sound
- Gold-plated screw type speaker termianls allow Bi-wiring connection • Detachable 3-point sustain pin-point spikes (including base plates)
- Luxurious gloss finish cabinet, available in red cherry and piano black
- Cleaing cloth included



• Elevating the coaxial speakers to the ideal height for the perfect position

- Luxurious gloss finish matching the S-300HR and S-300NEO
- Screw holes for third-party insulators and spikes (not included) on the bottom
- Cork sheet cushions for speaker mounting (including mounting srews)
- Rubber sheed cushions for the bottom
- Ready-to-assemble (including screws, and screw driver)

TEAC Premium System Components 2016

Reference 501 Reference 301







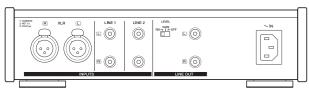








- Maximize headphone performance by choosing the right Damping Factor
- Discrete design Class-A amplifier with 1400m + 1400m watts output power
- Full-analog and dual-monaural circuit design for excellent headphone listening
- Active DC Servo Technology eliminates unwanted output signal caused by voltage difference inside the transistors
- Over-sized Toroidal-core power transformer to supply stable current
- Dual MUSES8920 Op-amp for left and right channel
- ±15V high-voltage operation current for better Signal-to-Noise ratio
- Auto Muting when headphone plug is disconnected
- Switchable output line level (Fixed, Variable, Off)
- XLR Balanced audio input to connect with High-end or Pro-audio equipment
- 2 RCA unbalanced analog audio inputs on rear
- 1 stereo mini input on front panel for easy access
- Wide-pitch RCA connector layout allows to accommodate large-shell pin plug



Damping Factor for Optimizing Performance

Each pair of headphones has its Damping Factor, a resisting force against nonintentional movement of the diaphragm moving air forwards and backwards as sound. The value of the Damping Factor varies model by model, as diaphragms are made by different materials, in different shapes or different construction designs. Since headphones' diaphragms are activated by a very small current compared to conventional speakers, the damping factor increases, the sound is lean and crisp, and has a close relationship with headphones' impedance.

You'll experience potential of your headphones by choosing the right Damping Factor, or even enjoy different aspects of your headphones by off-setting the right Damping Factor.

Position	Headphone Impedance	Damping Factor
HIGH	HIGH 32 ohms	
MID-HIGH 64 ohms		DF= 98
MID 120 ohms		DF = 97
MID-LOW	300 ohms	DF = 115
LOW	600 ohms	DF = 118

 $Comprehensive \ Damping \ Factor \ of \ headphones \ is \ calculated \ by \ total \ impedance \ of \ the \ entire \ headphones \ unit including \ diaphragm, \ calble, \ internal \ leads \ and \ plug.$

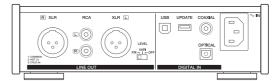








- DSD 5.6MHz, PCM 32-bit/192kHz, Hi-res digital audio streaming via USB cable
- Dual Burr-Brown PCM1795 D/A converters for Left and Right channels
- Asynchronous Transfer Mode, and Up-conversion option to 192kHz
- Dual-monaural circuit design eliminates interference between both channels
- Dual-monaural CCLC headphone amplifier for fine headphone listening
- Dual Hi-Fi-grade Op-amps MUSES8920 for Left and Right channels • Toroidal-core power transformer for stableinternal current supply
- \bullet Variable headphone output level suits to use as a headphone amplifier
- 3 Digital Inputs (USB Audio, Coaxial digital, Optical digital)
- \bullet XLR Balanced analog audio output for connection with Pro-audio • RCA Unbalanced analog audio output
- Switchable output level for versatile system configrations (Fixed, Variable, Off)
- 1/4" Stereo headphone jack
- Full metal body with machined aluminum volume knob
- Auto power saving mode
- Small footprint ideal for desktop or side-by-side layout with laptop computer





The TEAC HR Audio Player is a high-quality music playback application for Windows and Mac, with Hi-Res audio data processing capabilities including DSD 5.6MHz and PCM 32bit/384kHz.

Used in conjunction with TEAC's USB DAC, the TEAC HR Audio Player allows you to listen to Hi-Res 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 automatically optimized for Hi-Res audio playback. The simplified user-interface of the TEAC HR Audio Player reduces the load on the CPU (which processes millions of calculations a second when playing back Hi-Res 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..

(Discontinued models) Supported models ● HA-P90SD ● UD-501

● UD-503 NT-503 ● UD-301

● HA-P5 ● HA-P50SE

● HA-P50

● UD-H01 • AI-501DA

AI-301DA • AI-101DA

A-H01 ● NP-H750

● CR-H101















- DSD 5.6MHz, PCM 32-bit/192kHz Hi-Res digital audio streaming via USB cable
- Burr-Brown PCM1795 D/A converter and Asynchronous Transfer mode
- Bluetooth*, aptX* codec high-quality wireless audio streaming • 60 + 60 watts Class-D power amplifier engineered by ICEpower
- CCLC headphone amplifier for high-quality headphone listening
- Auto power-on with incoming digital audio signal
- Subwoofer Pre-out for easy expansion to 2.1ch Home Theatre system
- Ideal for upgrading TV sound from TV, Sonos Connect or Apple TV
- Free Hi-Res audio playback software for Windows/Mac











- Coaxial 2-way unit, 20mm soft dome tweeter and 100mm cone woofer
- Air Direct Center Pole System to drive massive sound power
- Carefully designed rear Bass-reflex port for rich bass sound
- A perfect loudspeaker partner for the Reference 301 series

CD Player/FM Tuner

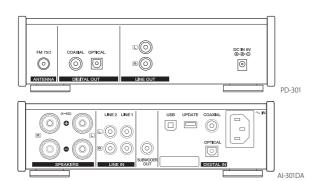
PD-301







- Quick-loading Slot-in CD drive supporting MP3 and WMA playback
- Burr-Brown PCM5142 D/A converter
- Built-in FM tuner with 20 preset station memory
- Front USB port for WAV, AAC, MP3 and WMA playback from USB Flash Memory
- Displays song title, artist name in the backlite LC-display (ID3 tag info required)
- Various playback modes on CD-DA (Program, Repeat, and Shuffle)
- Automatic playback when disc is loaded
- Coaxial and Optical digital outputs deliver CD, FM and USB sources
- Card-type Remote control



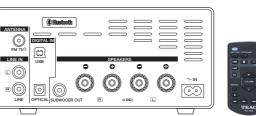








- \bullet PCM 24-bit/192kHz Hi-Res digital audio streaming via USB cable
- Burr-Brown PCM1795 D/A converter and dual on-board clocks for 44.1k and 48kHz
- Asynchronous Transfer mode and 2x Up-convert option to 192kHz
- Bluetooth*, aptX* codec high-quality wireless audio streaming
- 26 + 26 watts Class-D power amplifier
- \bullet DSP-based HR Loudness processing for stunning bass sound
- Slot-in CD drive supporting MP3 and WMA files
- Screw-type speaker terminals
- Subwoofer Pre-out for easy expansion to 2.1ch system
- Free Hi-Res audio playback software for Windows/Mac













- Wide frequency response up to 40kHz • 20mm PEI balanced dome tweeter
- 70mm cone woofer
- Rear Bass-reflex port for rich bass sound
- Luxurious gloss finish in red cherry
- A perfect partner for the CR-H101









- Burr-Brown PCM1796 D/A converter
- Asynchronous Transfer mode
- Bluetooth*, aptX* codec high-quality wireless audio streaming
- 26 + 26 watts Class-D power amplifier
- $\bullet \, \mathsf{DSP}\text{-}\mathsf{based} \, \mathsf{HR} \, \mathsf{Loudness} \, \mathsf{processing} \, \mathsf{for} \, \mathsf{stunning} \, \mathsf{bass} \, \mathsf{sound}$
- Screw-type speaker terminals
- Subwoofer Pre-out for easy expansion to 2.1ch system
- Horizontal or vertical layout
- Free Hi-Res audio playback software for Windows/Mac





Reference 101



Micro Component System

• AI-101DA for amplifier (see above)

• Free Hi-Res audio playback software for Windows/Mac

Bundled speakers are: • 20mm soft dome tweeter

- 70mm cone woofer
- Rear Bass-reflex port
- Combination available in
- Black x Black and Silver x Cherry





Premium Turntable with Phono EQ Amplifier and USB/Optical Digital Outputs TN-570 2016 GP



- Authentic 2-speed belt-drive turntable with USB/Optical digital outputs
- Dual-material compound by beautiful Marble and high-density MDF
- "PRS3" Platter Rotation Speed Sensing Servo System for precise rotation speed
- Crystal clear acrylic platter with perimeter belt-drive
- Static-balanced straight tone-arm with height adjuster and anti-skating system
- High-precision spindle with anti-static carbon-coated base
- Universal type head-shell with PC-Triple C pure copper wiring
- Built-in A/D converter by Cirrus Logic for digital outputs
- Hi-Res qualified PCM 24-bit/192kHz optical digital output
- 16-bit/48kHz USB digital audio output to Windows/Mac
- Built-in phono equalizer amplifier with OPA1602 SoundPLUS® Op-amps • MM-type cartridge installed for US model (audio-technica AT95E equivalent)
- Switchable phono/line output for versatile system configrations
- Corrosion resistant gold-plated terminals
- Height adjustable 3-point sustain feet

What is "PRS3"?

"PRS3" or Platter Rotation Sensing Servo System is a high precision speed control system that detects insensible changes of the paltter rotation speed by a contactless optical sensor settled at the spindle base. And the on-board microcomputer controls DC motor speed after calcuration of losses caused by slips and stretches of the belt. It maintains precise speed of the paltter where vinyl record rotates, while a conventional servo system of belt-drive unit monitors/controls rotation speed of the motor, not platter.

Premium Turntable with Phono EO Amplifier

TN-550



- Authentic 2-speed belt-drive turntable
- Dual-material compound by beautiful Marble and high-density MDF
- "PRS3" Platter Rotation Speed Sensing Servo System for precise rotation speed
- Crystal clear acrylic platter with perimeter belt-drive
- Static-balanced straight tone-arm with height adjuster and anti-skating system
- High-precision spindle with anti-static carbon-coated base
- Universal type head-shell with PC-Triple C puer copper wiring
- Built-in phono equalizer amplifier with OPA1602 SoundPLUS® Op-amps
- MM-type cartridge installed for US model (audio-technica AT95E equivalent)
- Switchable phono/line output for versatile system configrations
- Corrosion resistant gold-plated terminals
- Height adjustable 3-point sustain feet

Turntable Sheet

TA-TS30UN



Reversible design (white/grey)

- Aiti-static WASHI paper for easy dust removal
- Unique watermark pattern of fiber on "Un-Ryu shi"
- Moderate-weighted Stone-paper for anti-warpage
- Reversible design to match atmosphere of the room
- Hand crafted in Japan
- Matches with the TN-570 and TN-550

Premium Turntable with Phono EQ Amplifier/USB Output











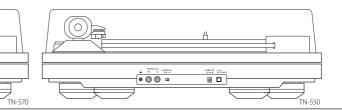


- Authentic 2-speed belt-drive turntable with DC servo motor
- Static-balanced straight tone arm with manual arm lifter
- Anti-skating system prevents tracking errors
- Built-in A/D converter for PCM 16-bit/48kHz digital output
- USB digital audio output for transferring music from vinyl to Windows/Mac
- Built-in phono equalizer amplifier for MM-type cartridge
- MM-type cartridge installed (audio-technica AT95E equivalent)
- Switchable phono/line output for versatile system configrations
- Corrosion resistant gold-plated terminals
- Multi-coated veneer and beautiful wood-grain cabinet (TN-300-CH, TN-300-NA)
- Glossy piano finish cabinet (TN-300-B, TN-300-R, TN-300-W)











TA-HS3

- A spare head-shell for quick replacement to alternative cartridges
- Shell lead installed

14 TEAC Premium System Components 2016

Reference To-Go







Portable DSD Audio Player/Headphone Amplifie













- DSD 5.6MHz and PCM 24-bit/192kHz/24-bit native playback from PC, tablet, and microSD card
- Direct cable connection via Lightning or 30-pin cables (Apple Camera Connection Kit not required)
- Free Hi-Res audio playback software/apps for Windows/Mac/iOS/Android supplied from TEAC
- USB audio input with asynchronous transfer mode from Windows and Macintosh.
- Supports up to 128GB microSDXC card
- Automatic multi-format tag sorting (track name, album name, artist name, playlist, favorite)
- Repeat, shuffle, and gapless playback from microSD card
- Discreet amplifier with Burr-Brown OPA1602 SoundPLUS® audio Op-amp and Push-pull circuitry
- 170m + 170m watts of high power output at 32-ohms load
- BF606 Blackfin® Processor by Analog Devices and Burr-Brown PCM1795 D/A converter
- Dual high-precision crystal master clock generators for 44.1kHz and 48kHz systems

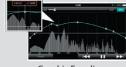


☐ iPod ☐ iPhone ☐ iPad

- 8 output level settings with High/Low gain switch and 4-step attenuator settings
- Digital coaxial output of DSD 2.8MHz via DoP format
- Slim and robust all-aluminum case, and organic EL-display with brightness control
- Built-in Li-ion battery for 7-hours operation with USB quick-charge and auto power-off

Hi-Res Audio Playback App for iOS/Android Devices TEAC HR Audio Player for iOS TEAC HR Audio Player for Android





Graphic Equalizer with Real-time Analyze

This iOS/Android App turns your iPhone, iPad, iPod touch and Android devices into a Hi-Res Audio Player, and delivers digital audio streaming to the HA-P90SD, the HA-P50SE and the HA-P50. Also supports playing back Music Library on your iPhone, iPad and iPod touch.

A touch-screen based graphic equalizer with Real-Time Analyzer allows you to change equalizing curve by tapping and dragging. An exact frequency and increaseing/decreasing value (dB) are shown for accurate equalizing.

- Hi-Res audio playback on your iOS and Android devices
- Playback tracks on the standard iOS music library
- Up-sampling function
- Touch-screen-based graphic equalizer with Real-time Analyzer with save/load function
- Seamless operation in iOS environment, such as operation from iOS Control Center
- Repeat and shuffle modes
- On-line help and FAQs
- SNS integration to share track information with your friends via e-mail, Facebook and Twitter
- Compatible with HA-P90SD, HA-P5, HA-P50, HA-P50SE



MADE IN Japan



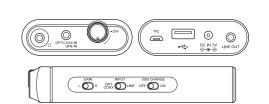








- Ergonomic, compact and light weight design for mobile use
- DSD 5.6MHz and PCM 24-bit/96kHz Hi-Res digital audio streaming from iOS/ Android devices and Windows/Mac via USB Cable
- High-performance and low power consumption BF606 Blackfin® processor by Analog Devices
- Burr-Brown PCM1795 D/A converter for precise digital-to-analog conversion
- Dual on-board clocks for 44.1kHz and 48kHz systems
- Ground-separate drive mode by individual Left and Right grounds
- 160m + 160m watts high-performance power amplifier circuit
- High/Low gain selector
- Combination coaxial digital/optical digital/analog inputs for portable player, supporting PCM 24-bit/192kHz digital audio input
- Analog line output for powered speakers or the existing Hi-Fi system
- High-quality chip film capacitors designed for Hi-Fi equipment
- AB-class operating amplifier circuit for better Signal-to-Noise ratio
- Separated layout for digital and analog sections
- USB and microUSB ports for digital input at Asynchronous transfer mode
- Connection with iOS devices requires a Lightning–USB cable only
- Connection with Android devices requires a USB cable and USB Host cable
- High-quality print circuit board with smooth thru-holes for better soldering
- High-quality soldering reduces electrical losses at soldering points
- Sampling-rate indicators and battery level indicator with low battery alart
- Built-in Li-ion battery with convenient USB charging
- 5-hour battery life
- Made in Japan
- Free Hi-Res playback apps for iOS and Android



Made for

 □iPod
 □iPhone
 □iPad

Reference To-Go



Hand-crafted accessories to enjoy life with the HA-P5





This beautiful valet tray made of solid walnut is ideal for your desk to organize your stuff including the HA-P5. Hand-carved by matured furniture craftmen in Japan.



Leather Wraps by Van Nuys TA-LW50

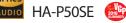
These colorful sleeve cases made of genuine leather is must-have items for mobile. Soft and durable leather gives better grasp, as brilliant color stands out in your bag.







Portable Headphone Amplifier with USB DAC





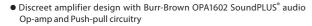












- 24-bit/96kHz Hi-Res digital audio streaming from iOS/Android devices and Windows/Mac via USB Cable
- Burr-Brown PCM5102 D/A converter
- 160m + 160m watts high-performance power amplifier circuit
- High/Low gain selector
- Combination optical digital/analog inputs for portable player
- Built-in Li-ion battery with convenient USB charging
- 8-hour battery life for long-haul flight, ideal for watching movies on iPad
- Free Hi-Res playback apps for iOS and Android





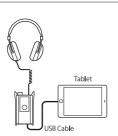
Ideal for Air-travel

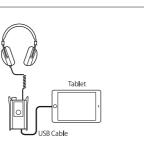
with iPad

Make your air travel exciting

of movies during coast-to-coast flight.

A portable headphone amplifier with USB DAC is a perfect partner for iPad or Android tablet in the air. USB digital input allows high-quality audio transfer from your tablet digitally, and high-performance D/A converter and power amplifier section exclusively deisgned for headphones process high-quality and massive sound which you cannot get with earphone jack on your tablet. In addition, long battery life allows you to enjoy a couple







Portable Headphone Amplifier with USB DAC stock only















• Discreet amplifier design with OP1652 Op-amp and Push-pull circuitry

- 24-bit/96kHz Hi-Res digital audio streaming from iOS/Android devices and Windows/Mac via USB Cable
- Burr-Brown PCM5102 D/A converter
- 160m + 160m watts high-performance power amplifier circuit
- High/Low gain selector
- Combination optical digital/analog inputs for portable player
- Built-in Li-ion battery with convenient USB charging
- 8-hour battery life for long-haul flight, ideal for watching movies on iPad
- Free Hi-Res playback apps for iOS and Android







SW-P300 👺 🔤





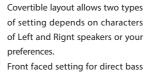






- Robust high-density MDF cabinet for massive power handling \bullet Luxurious gloss finish in red cherry, completely matches with the S-300HR
- Extra large 200mm cone woofer
- 91 watts of output power from BTL power amplifier circuit engineered by ICEpower
- Non-step high-cut frequency control for the perfect matching with speakers
- Convertible design for front faced or down faced
- 2 types of input, RCA line (Low level) and speaker signal (High level) for any configrations
- Through-out for speaker signal for an amplifer without line/subwoofer out
- Detachable front grille and aluminum feet
- Auto power on/off with incoming audio signal





sound radiation, and down faced setting for omnidirectional bass sound radiation.

Coaxial 2-way Speaker System S-300NEO ...

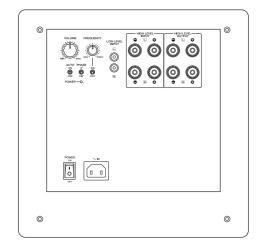








- Coaxial 2-way unit for brilliant acoustic focus and natural sound image • 25mm soft dome tweeter and
- 130mm cone woofer
- Superb energy balance over entire audible frequency range
- drive massive sound power Carefully designed rear Bass-reflex
- port for rich bass sound
- Gold-plated screw type speaker termianls allow Bi-wiring connection
- Detachable 3-point sustain pin-point spikes (including base plates)
- Luxurious gloss finish cabinet, available in red cherry and piano black
- Cleaing cloth included



roduct Catego	ry		Network Player		D/A Converter	
lodel Name			NT-503	UD-503	UD-501	UD-301
ype of Product			USB DAC/ Network Player	USB DAC/ Headphone Amplifier	USB DAC	USB DAC
ey Features						
	USB Streaming		Y	Υ	Υ	Y
	Inputs	S/PDIF Digital Analog	Y (Coaxial, Optical)	Y (Coaxial, Optical) Y	Y (Coaxial, Optical)	Y (Coaxial, Optical)
3	iliputs	USB Flash Memory	<u>-</u> Y	-	-	<u>-</u>
		Bluetooth® Wireless	Υ	_	_	_
		DLNA	Υ	-	-	-
	Network	Home Media	Υ	-	-	-
		Internet Radio	Υ	-	-	-
		11.2896 MHz	Y (*1, 2)	Y (*1, 2)	-	-
	DSD	5.6448 MHz 2.8224 MHz	Y (*3, 4)	Y (*1)	Y (*1)	Y (*1)
		384 kHz	Y (*4, 5, 6) Y (*1)	Y (*1, 6) Y (*1)	Y (*1) Y (*1)	Y (*1)
		352.8 kHz	Y (*1)	Y (*1)	Y (*1)	-
	PCM	192 kHz	Y (*7)	Y (*16)	Y (*15)	Y (*15)
	(WAV)	176.4 kHz	Y (*7)	Y (*16)	Y (*15)	Y (*15)
Hi-Res Audio		96 kHz	Y (*7)	Y (*16)	Y (*16)	Y (*16)
Addio		192 kHz	Y (*8)	-	Y (*1)	Y (*1)
	FLAC	176.4 kHz	Y (*8)	-	Y (*1)	Y (*1)
	AAC	96 kHz 96 kHz	Y (*8) Y (*8)	-	Y (*1)	Y (*1)
	ALAC	96 kHz	Y (*8)	-	-	<u> </u>
	WMA Lossless	96 kHz	Y (*8)	-	-	-
	WAV (PCM)	88.2 kHz	Y (*9)	-	Y (*16)	Y (*16)
	FLAC	88.2 kHz	Y (*10)	-	Y (*1)	Y (*1)
	AAC	88.2 kHz	Y (*9)	-	-	-
	ALAC	88.2 kHz	Y (*9)	-	-	-
	WMA Lossless WAV	88.2 kHz	Y (*8)	-	- V (#16)	- V (*16)
	PCM/LPCM	44.1kHz / 48 kHz 44.1kHz / 48 kHz	Y (*9) Y (*11)	– Y (*16)	Y (*16) Y (*16)	Y (*16) Y (*16)
CD	FLAC	44.1kHz / 48 kHz	Y (*10)	-	Y (*1)	Y (*1)
quality	AAC	44.1kHz / 48 kHz	Y (*9)	_	-	-
	ALAC	44.1 kHz / 48 kHz	Y (*9)	-	-	-
	WMA Lossless	44.1kHz / 48 kHz	Y (*8)	-	-	-
	MP3	MPEG-1/2 Layer-III	Y (*12)	-	Y (*1)	Y (*1)
Others	WMA	WMA 2, 7, 8, 9, 10	Y (*13)	-	-	-
	OGG Vorbis	DAC	Y (*14) VERITA AK4490 x 2	VERITA AK4490 x 2	Burr-Brown PCM 1795 x 2	Burr-Brown PCM1795 x 2
Digital	Up-	conversion	Y EIIIIA AI(4430 X 2	γ ΥΕΝΙΙΑ ΑΝΨΙ30 Χ 2	Y (Switchable)	Y (Switchable)
Section	on	Dual Internal Clock	Y	Υ	-	-
	Clock	External Clock Sync	Υ	Υ	-	-
Section Analog Section		onaural Design	Υ	Υ	Υ	-
Analog			Y	Υ	-	-
Section		OVCC Circuit	Y Y	Y Y	-	-
		Power Transformer	Y	Y (Dual)	Y (Dual)	Y
ecifications	Torondar con	Tower mansionner		i (Budi)	. (588)	·
Τ		Balanced BTL Drive	-	Υ	-	-
Drive mode	oc .	Active Ground Drive	-	Y	-	-
2vc mode	-	Parallel Unbalanced Drive	Υ	Υ	-	-
661.6.15		Unbalanced Drive	-	-	-	
	oling Capacitor Less Circui Output Power	t) Balanced	-	- 700 mW + 700 mW (*19)	-	Y -
(at 32 ohms		Unbalanced	500 mW + 500 mW	500 mW + 500 mW (*19)	100 mW + 100 mW	- 100 mW + 100 mW
Connector			1/4" (6.3mm) Stereo Jack	1/4" (6.3mm) Stereo Jack x 2	1/4" (6.3mm) Stereo Jack	1/4" (6.3mm) Stereo Jack
Analog In	puts Line	RCA Pin	<u>-</u>	1	-	
	USB Streaming	USB Type A	1	1	-	-
		USB Type B	-	-	1	1
Digita Input		RCA Pin	1	1	2	1
input	•	TOS-link	1	1	2	1
	USB Memory	1/8" (3.5mm) Mini USB Type A	1	- 1	-	<u>-</u>
Analo		RCA Pin	1 (*17)	1 (*17)	1	1 (*17)
Outpu		XLR 3-32	1 (*17, 18)	1 (*17, 18)	1 (*18)	1 (*17, 20)
Frequency Response (Products with capability of 40kHz or higher frequency response are regarded as "Hi-Res" products.)		frequency	5Hz to 80kHz (+1dB/-3dB)	5Hz to 80kHz (+1dB/-3dB)	5Hz to 80kHz (–3dB)	5Hz to 55kHz (-3dB)
Signal-to-N			110dB (Balanced)	110dB (Balanced)	115dB	105dB
_			112dB (Unbalanced)	112dB (Unbalanced)		
	onic Distortions (JEITA)		0.0015% (1kHz, 20-20kHz) 18 watts	0.0015% (1kHz, 20-20kHz) 16 watts	0.0015% (1kHz) 13 watts	0.0015% (1kHz) 10 watts
	sumption (or Battery Life)		18 watts 11.4" x 3.2" x 9.8"	16 watts 11.4" x 3.2" x 9.8"	13 watts 11.4" x 3.2" x 9.6"	10 watts 8.5" x 2.4" x 9.4"
Overall Dim	nensions (W x H x D)		290 x 81.2 x 248.7 mm	290 x 81.2 x 248.7 mm	290 x 81.2 x 244 mm	215 x 61 x 238 mm
Weight			8.6 lbs. / 3.9 kg	9.3 lbs. / 4.2 kg	8.8 lbs. / 4.0 kg	4.4 lbs. / 2.0 kg
weight uded Accessories		Power Cord, Remote Control (RC-1320), AAA Batteries x 2,	Power Cord, Remote Control (RC-1319), AAA Batteries x 2, RCA-Mini Cable,	Power Cord (w/ Plug Adapter), RCAAudio Cable, Owner's Manual,	Power Cord, Owner's Manual	

^{*1} Supports playback from TEAC HR Audio Player via USB Input. *2 Supports dsf and dsdiff formats. *3 Supports playback from TEAC HR Audio Player via USB Input, USB Flash Memory, and LAN (DLNA, Home Media). *4 Supports Supports Supports Supports Supports Supports Supports May Deptack from USB Flash Memory, and LAN (DLNA, Home Media). *5 Supports WAV Deptack From USB Flash Memory, and LAN (DLNA, Home Media). *4 Supports Wav Deptack Supports Supports Supports Wav Deptack Supports Support

Specifications

Key Fe	of Product atures	nputs	USB Streaming	AX-501 Integrated Amplifier	AI-301DA Integrated Amplifier with USB DAC	CR-H101 CD Receiver with USB DAC	AI-101DA (HR-S101 Amplifier) Integrated Amplifier
Key Fe	atures	nputs	USB Streaming	Integrated Amplifier	Integrated Amplifier with USB DAC		Integrated Amplifier
Source	ı	nputs	USB Streaming			WILLIOSD DAC	with USB DAC
Source	ı	nputs	USB Streaming				
		nputs	_		Y	Y	Υ
		nputs	S/PDIF Digital	-	Y (Coaxial, Optical)	Y (Optical)	Y (Optical)
	Built-in		Analog	Υ	Υ	Υ	Υ
	Built-in		Balanced Analog	Υ	_	-	_
	Built-in		Bluetooth® Wireless	_	Y	Y	Υ
	Built-in		Audio CD (CD-DA)	_	_	Y	-
		Disc Drive	Data CD (MP3/WMA)	_	_	Y	_
	Devices –	Tuner	FM	_	_	Y	_
		Turier		-		'	
		DSD	5.6448 MHz	-	Y (*1)	-	-
	H		2.8224 MHz	-	Y (*1)	-	-
		PCM	192 kHz	-	Y (*2)	Y (*2)	Y (*2)
S.	Hi-Res	(WAV)	176.4 kHz	-	Y (*2)	Y (*2)	Y (*2)
b	Audio		96 kHz	-	Y (*3)	Y (*3)	Y (*3)
rte			192 kHz	-	Y (*1)	Y (*1)	Y (*1)
Δ		FLAC	176.4 kHz	-	Y (*1)	Y (*1)	Y (*1)
di C			96 kHz	-	Y (*1)	Y (*1)	Y (*1)
Supported Audio Formats		WAV (PCM)	88.2 kHz	_	Y (*3)	Y (*3)	Y (*3)
ğ		FLAC	88.2 kHz	-	Y (*1)	Y (*1)	Y (*1)
ğ	CD	WAV (PCM)	44.1kHz / 48 kHz	_	Y (*3)	Y (*3)	Y (*3)
- -	Quality	FLAC	44.1kHz / 48 kHz	-	Y (*1)	Y (*1)	Y (*1)
		MP3		_	Y (*1)	Y (*1)	Y (*1)
	Others	WMA		_			
+		*******	DAC	_	Burr-Brown PCM1795	Burr-Brown PCM1795	Burr-Brown PCM1796
₫ l	Digital		p-conversion	_	Bull-Blowill CW1793	Y (Switchable)	Y (Switchable)
호 5	Section			-	_		i (Switchable)
High-quality Sound			al Internal Clock	-	-	Y	-
VS !	Circuit Balanced Circuit Design Design HR Loudness		Υ	-			
Ĭ,	_		HR Loudness	-	_	Y	Y
	Power	Toroidal-c	ore Power Transformer	Y	-	-	-
Specifi	ications						
	Type of Amplifier		Class-D Amplifier (ABLETEC ALC0240)	Class-D Amplifier (ICEpower)	Class-D Amplifier (ICEpower)	Class-D Amplifier	
Speaker Output	aximum		4 ohms (JEITA)	120 W + 120 W (1kHz)	60 W + 60 W (1kHz)	26 W + 26 W (1kHz)	26 W + 26 W (1kHz)
F Ou			8 ohms (JEITA)	70 W + 70 W 1kHz)	30 W + 30 W (1kHz)	-	-
O Ra	ted		4 ohms (JEITA)	100 W + 100 W (1kHz)	43 W + 43 W (1kHz)	20 W + 20 W (1kHz)	20 W + 20 W (1kHz)
를 이	itput Powe	r	8 ohms (JEITA)	65 W + 65 W (1kHz)	22 W + 22 W (1kHz)	_	_
≒ Su	pported Sp	eaker Impedance		4 to 8 ohms	4 to 8 ohms	4 to 8 ohms	4 to 8 ohms
	eaker Term			Screw-type	Screw-type	Screw-type	Screw-type
		ng Capacitor Less C	Circuit)	Y	Y	-	-
Ŧ		tput Power (at 32 o		50 mW + 50 mW	100 mW + 100 mW	100 mW + 100 mW	100 mW + 100 mW
<		tput i owei (at 32 (Jiiii Juauj		1/4" (6.3mm) Stereo Jack		
-	Connector		1/4" (6.3mm) Stereo Jack		1/8" (3.5mm) Stereo Jack	1/8" (3.5mm) Stereo Jack	
Αl,	Analog Inc.	Line	RCA Pin	3	2	1	-
<u></u>	Analog Inpu		1/8" (3.5mm) Stereo Mini	- 77.0	-	-	1
<u>ا</u> ۾		Balanced	XLR 3-31	1 (*4)	_	-	-
zt.		USB Audio	USB Type B	-	1	1	1
일 [Digital Inpu	ts S/PDIF	RCA Pin	-	1	-	-
Audio Inputs/Outputs			TOS-link	-	1	1	2
^	nalog Outp		RCA Pin	-	1	1	1
(Pr	Frequency Response (Products with capability of 40kHz or higher frequency response are regarded as "Hi-Res" products.)		10Hz to 60kHz (+1dB/-5dB)	2Hz to 100kHz (–5dB)	20Hz to 45kHz (–5dB)	20Hz to 45kHz (-5dB)	
Sig	gnal-to-Noi	se Ratio		100dB (IHF-A/Input Short)	95dB (IHF-A/LPF, 20kHz)	90dB (IHF-A/LPF, 20kHz)	90dB (IHF-A/LPF, 20kHz)
General Po	otal Harmonic Distortions (JEITA)			0.005% (8 ohms, 1kHz, 1W)	0.01% (8 ohms, 1kHz, 1W)	0.02% (4 ohms, 1kHz, 1W)	0.02% (4 ohms, 1kHz, 1W)
a Po	Power Consumption (or Battery Life)		68 watts	38 watts	21 watts	28 watts	
	Overall Dimensions (W x H x D)			11.4" x 3.2" x 10.4"	8.5" x 2.4" x 10.0"	7.2" x 3.7" x 8.7" 182 x 93 x 221 mm	7.2" x 2.1" x 7.5"
We	eight			290 x 81.2 x 264 mm 8.8 lbs. / 4.0 kg	215 x 61 x 254 mm 4.6 lbs. / 2.1 kg	4.9 lbs. / 2.2 kg	182 x 53 x 191 mm 2.6 lbs. / 1.2 kg
	ed Accesso		Plasser via I ISR Input *2 Supports of which	Power Cord (w/ Plug Adapter), Remote Control (RC-1309), AAA Batteries x 2, Owner's Manual, Warranty Card,	Power Cord, Remote Control (RC-1313), AAA Batteries x 2, Owner's Manual (inc. Warranty Card) and Coaxial Digital Input. *3 Supports playback f	Power Cord, Remote Control (RC-1324), AAA Batteries x 2, FFM Antenna, Owner's Manual (inc. Warranty Card)	Power Cord, Remote Control (RC-1318), AAA Batteries x 2, Rubber Feet x 4, Owner's Manual (inc. Warranty Card)

Product Category		Stereo Speakers					
Model Name		S-300HR	S-300NEO	LS-301	LS-101HR	HR-S101 Speaker section	
Type of Product		Coaxial 2-way Speakers	Coaxial 2-way Speakers	Coaxial 2-way Speakers	2-way Speakers	2-way Speakers	
Specifications							
	Type of Speaker	Coaxial 2-way/1-speaker Rear Bass-reflex (Magnetic shielded)	Coaxial 2-way/1-speaker Rear Bass-reflex (Magnetic shielded)	Coaxial 2-way/1-speaker Rear Bass-reflex	2-way/2-speakers Rear Bass-reflex	2-way/2-speakers Rear Bass-reflex	
l s	Tweeter	1" (25 mm) Titanium Dome	1" (25 mm) Soft Dome	3/4" (20 mm) Soft Dome	3/4" (20 mm) PEI Balanced Dome	3/4" (20 mm) Soft Dome	
speak	Woofer	5" (130 mm) Cone	5" (130 mm) Cone	4" (100 mm) Cone	3" (70 mm) Cone	3" (70 mm) Cone	
er s	Maximum Input Power	100 watts	100 watts	50 watts	35 watts	35 watts	
ection	Rated Input Power	50 watts	50 watts	20 watts	25 watts	25 watts	
g	Impedance	6 ohms	6 ohms	6 ohms	4 ohms	4 ohms	
	Frequency Response	55 Hz to 50 kHz	55 Hz to 33 kHz	65Hz to 40kHz	65Hz to 40kHz	75Hz to 25kHz	
	Sensitivity	86 dB/W/m	86 dB/W/m	85 dB/W/m	87dB/W/m	87dB/W/m	
Gene		7.2" x 10.2" x 9.0" 184 x 260 x 229 mm (*1)	7.2" x 9.4" x 9.0" 184 x 240 x 229 mm (*1)	6.3" x 9.1" x 8.1" 161 x 230 x 207 mm (*1)	4.6" x 7.2" x 6.6" 116 x 182 x 167 mm	4.6" x 7.2" x 6.6" 116 x 182 x 167 mm	
ra	Weight	9.7 lbs. / 4.4 kg (per piece)	9.5 lbs. / 4.3 kg (per piece)	6 lbs. / 2.7 kg (per piece)	6.4 lbs. / 2.9 kg (per piece)	3.8 lbs. / 1.7 kg (per piece)	
Included Accessories		Speaker Cables (6.6ft./2m) x 2, Spike Screws x 6, Washers x 6, Foot Bases x 6, Cleaning Cloth, Owner's Manual (inc. Warranty Card)	Speaker Cables (6.6ft./2m) x 2, Spike Screws x 6, Washers x 6, Foot Bases x 6, Cleaning Cloth, Owner's Manual (inc. Warranty Card)	Speaker Cables (6ft./1.8m) x2, Cork Sheet Feet x 8, Owner's Manual (inc. Warranty Card)	Speaker Cables (6ft./1.8m) x2, Silicon Feet x 8, Owner's Manual (inc. Warranty Card)	Speaker Cables (6ft./1.8m) x2, Cork Sheet Feet x 8, Owner's Manual (inc. Warranty Card)	

Product Category				CD Player		
Model Name				PD-501HR	PD-301	
Тур	e of Product			Hi-Res CD Player	CD Player/FM Tuner	
Key Features						
	Audio CD (CD-DA) Data CD (MP3/WMA)		Audio CD (CD-DA)	Υ	Y	
Source			Data CD (MP3/WMA)	Υ	Y	
	Built-III DIS	C DIIVE	Data DVD (WAV)	Υ	-	
			Data DVD (DSD)	Υ	-	
	Duile in D		USB Memory	=	Υ	
	Built-in Devices		Tuner	-	FM	
		DCD	5.6448 MHz	Y (*1)	-	
		DSD	2.8224 MHz	Y (*1)	-	
Sup	Hi-Res Audio	200	192 kHz	Y (*1)	-	
Supported Audio Formats	Audio	PCM	176.4 kHz	Y (*1)	-	
ted		(WAV)	96 kHz	Y (*1)	-	
P		WAV	88.2 kHz	Y (*1)	Y (*3)	
gi		WAV	44.1kHz / 48 kHz	Y (*1)	Y (*3)	
Fon	CD Quality	PCM/LPCM	44.1kHz / 48 kHz	Y (*2)	Y (*4)	
nat		AAC	44.1kHz / 48 kHz	-	Y (*3)	
٥,	0.1	WMA	WMA 2, 7, 8, 9, 10	-	Y (*5)	
	Others	MP3	MPEG-1/2 Layer-III	-	Y (*5)	
Ī			DAC	Cirrus Logic CS4398	Burr-Brown PCM5142	
Hi-quality	_	Digital/Analo	og Separate Power Supply	Y	-	
Jii y	Power I		ottky Barrier Diode	Υ	-	
Spe	ecifications					
P	Digital Inputs	USB Memory	USB Type A	-	1	
dio	Analog Outputs	Line	RCA Pin	1	1	
Audio In/Out		S/PDIF	RCA Pin	1	1	
ut Out	Digital Outputs		TOS-link	1	1	
	Frequency Response (Products with capability of 40kHz or higher frequency response are regarded as "Hi-Res" products.)		frequency	20Hz to 80kHz	20Hz to 20kHz (–3dB)	
ရ	Signal-to-Noise Ratio			116dB	113dB	
General	Total Harmonic Distortions (JEITA)			0.0005% (DSD), 0.0004% (PCM)	0.005% (1kHz)	
<u>a</u>	Power Consumption (or Battery Life)			11 watts	8 watts	
	Overall Dimensions (W x H x D)			11.4" x 3.2" x 9.6" / 290 x 81.2 x 244 mm	8.5" x 2.4" x 9.1" / 215 x 61 x 232 mm	
	Weight			9.3 lbs. / 4.2 kg	4.6 lbs. / 2.1 kg	
Inc	Included Accessories			Power Cord (w/ Plug Adapter), Remote Control (RC-1306), AC Adapter (GPE152-120125W), RCA AAA Batteries x 2, RCAAudio Cable, Manual, Warranty Card Remote Control (RC-1323), AAA Batteries x 2, M		

Model Name			TN-570	TN-550	TN-300	
Type of Product				Analog Turntable with Optical/USB Digital Outputs	Analog Turntable	Analog Turntable with USB Digital Output
Spe	cifications					
	Type of Turntable Motor / Speed Management System		agement System	Perimeter Belt Drive DC Motor / PRS3 (Platter Rotation Sensing Servo System)	Perimeter Belt Drive DC Motor / PRS3 (Platter Rotation Sensing Servo System)	Belt Drive DC Servo Motor
	Rotation Speed		-9	33 ¹ /3 rpm, 45 rpm	33 1/3 rpm, 45 rpm	33 ¹/3 rpm, 45 rpm
≓	Variation of Speed			±0.05%	±0.05%	±2%
~	Wow and Flutter			0.1%	0.1%	0.2%
able	Signal-to-	Noise Rat	tio	67dBor higher (A-weighted, 20kHz LPF)	67dBor higher (A-weighted, 20kHz LPF)	67 dBor higher (A-weighted, 20kHz LPF)
	1		Material	Crystal Acrylic	Crystal Acrylic	Aluminum
			Diameter	300 mm	300 mm	300 mm
			Weight	3.1 lbs. / 1.4 kg	3.1 lbs. / 1.4 kg	1.3 lbs. / 570g
	Type of Tone Arm		, ,	Static-balanced, S-shaped	Static-balanced, S-shaped	Static-balanced, Straight
	Effective A		th	8.8" / 223 mm	8.8" / 223 mm	8.8" / 223 mm
7	Needle Pro	essure Ra	nge	0 to 5 grams	0 to 5 grams	0 to 5 grams
Tone-arm	Supported	d Cartrido	je Weight	24.5 to 29.5 grams	24.5 to 29.5 grams	3.5 to 8.0 grams
arm	Anti-skatir		_	Υ	Y	Y
	Height Ad			Υ	Y	-
	Head Shel	l Weight		10 grams (*1)	10 grams (*1)	10 grams (*1)
	Type of Ca	rtridge		MM type	MM type	MM type
	Frequency Response		se	20 Hz to 20 kHz	20 Hz to 20 kHz	20 Hz to 20 kHz
art	Output Level			4.5 mV ±3dB	4.5 mV ±3 dB	4.5 mV ±3 dB
Cartridge	Needle Pressure			1.4 g ±0.4 grams	1.4 g ±0.4 grams	1.4 g ±0.4 grams
e	Cartridge Weight			6.5 g ±0.2 grams	6.5 g ±0.2 grams	6.5 g ±0.2 grams
	Replacement Stylus		s	audio-technica ATN95E	audio-technica ATN95E	audio-technica ATN95E
	Connector		Connector	RCA Pin (Gold-plated)	RCA Pin (Gold-plated)	RCA Pin (Gold-plated)
	Analog Ou	utput	Phono Output Level	4.5mV ±3dB	4.5mV ±3dB	4.5mV ±3dB
⊳			Line Output Level	230 mV (-13dBV)	230 mV (-13dBV)	230 mV (-13 dBV)
Audio Outputs		0	Connector	TOS-link	-	-
٥		Optical Digital	Output Audio Format	PCM 24-bit, 48k / 96k / 192k	-	=
ıtβ	Digital		Output Level	−21.0 dB to −15.0 dB	-	-
ts	Outputs	USB Audio	Connector	USB Type B (*2)	-	USB Type B (*2)
			Output Audio Format	PCM 16-bit , 48 kHz	-	PCM 48 kHz/16-bit
			Supported OS	Windows, Macintosh (*3)	-	Windows, Macintosh (*3)
9	Power Consumption		n	1.5 watts (less than 0.5 watts at standby)	1.5 watts (less than 0.5 watts at standby)	1.5 watts (less than 0.5 watts at standby)
General	Dimensions (W x H x D)		x D)	16.9"x 5.2"x 14" / 430 x 131.5 x 355mm	16.9"x 5.2"x 14" / 430 x 131.5 x 355mm	16.5" x 4.6" x 14"/420 x 117 x 356 mm
<u>a</u>	Weight			19.9 lbs. / 9.0 kg	19.9 lbs. / 9.0 kg	10.8 lbs. / 4.9 kg
Included Accessories				Cartridge (MM type, audio-technica AT100E equivalent), Felt Turntable sheet, Acrylic Platter, Pully Cover, Flat Belt, EP Record Adapter, Counter Weight, Head-shell, Dust Cover, Hinges x 2, Rubber Feet for Dust Cover x 2, RCA Audio Cable with GND Terminal, AC Adapter (GPE053A-V120050-2), Owner's Manual (inc. Warranty Card)	Cartridge (MM type, audio-technica AT100E equivalent), Felt Turntable sheet, Acrylic Platter, Pully Cover, Flat Belt, EP Record Adapter, Counter Weight, Head-shell, Dust Cover, Hinges x 2, Rubber Feet for Dust Cover x 2, RCA Audio Cable with GND Terminal, AC Adapter (GPE053A-V120050-Z), Owner's Manual (inc. Warranty Card)	Cartridge (MM type, audio-technica AT95E equivale Rubber Mat, Aluminum Platter, Flat Belt, EP Record Adapter, Counter Weight, Head-shell, Dust Cover, Hinges x 2, Rubber Feet for Dust Cover x 2, RCA Audio Cable, AC Adapter (GPE053A-120050), Owner's Manual (inc. Warranty Card)

Pro	Product Category			Headphone Amplifier				
Model Name				HA-501	HA-P90SD 🔠	HA-P5 🛟	HA-P50/HA-P50SE 🛟	
Type of Product				Headphone Amplifier	Portable Headphone Amplifier/Player	Portable Headphone Amplifier	Portable Headphone Amplifier	
Key	Key Features							
l			USB Streaming	-	Y	Y	Y	
Source		Inputs	S/PDIF Digital	-	Y (Coaxial, Optical)	Y (Coaxial, Optical)	Y (Optical)	
rce		IIIputo	Analog	Υ	Y	Υ	Y	
			Balanced Analog	Υ	-	-	-	
	Hi-Res Audio	DSD	5.6448 MHz	-	Y (*1)	Y (*1)	-	
			2.8224 MHz	-	Y (*1)	Y (*1)	-	
Su			192 kHz	-	Υ	Υ	-	
Supported Audio Formats		WAV	176.4 kHz	-	Y	Υ	-	
rtec			96 kHz	-	Y	Y	Y (*2)	
ξ		WAV	88.2 kHz	-	Y	Y	Y (*2)	
8		FLAC	88.2 kHz	-	Υ	Y	-	
F	CD	WAV	44.1kHz / 48 kHz	-	Y	Y	Y (*2)	
nat	Quality	PCM/LPCM	44.1kHz / 48 kHz	-	Y	Y	Y (*2)	
0,		FLAC	44.1kHz / 48 kHz	-	Y	Y	-	
	Others	MP3	WMA 2, 7, 8, 9, 10 MPEG-1/2 Layer-III	-	Y Y	- Y	- Y	
l-		MP3	DAC DAC	-	Burr-Brown PCM1795	Burr-Brown PCM1795	Burr-Brown PCM5102	
Į,Ę.	Digital Section	Dur	al Internal Clock	-	Burr-Brown PCW1793	Y	Burr-brown PCW3102	
붓			Monaural Design	<u>-</u> Ү	-	-	_	
High-quality	Analog Section		Ground Circuit Design	-	-	Y	_	
₹	Power		ore Power Transformer	Y	-	-	_	
Sne	ecifications	TOTOIGGE C	ore rower mansionner	· · · · · · · · · · · · · · · · · · ·				
Jp.	Lemedations		32 ohms load	1400mW + 1400mW	170mW + 170mW	160mW + 160mW	160mW + 160mW	
_	Maximum		300 ohms load	_*	80mW + 80mW	60mW + 60mW	60mW + 60mW	
ead	Output Pow	er	600 ohms load	135mW + 135mW	40mW + 40mW	30mW + 30mW	30mW + 30mW	
Headphone Output			Unbalanced Drive	Υ	Y	Y	Y	
ne	Drive Modes Ground-separate Drive		-	-	Y	-		
돌	Damping Factor Select		Υ	-	-	-		
1	Active DC Se	ervo Technology		Υ	-	-	-	
	Connector			1/4" (6.3mm) Stereo Jack	1/8" (3.5mm) Stereo Jack	4-polar 1/8" (3.5mm) Stereo Jack	1/8" (3.5mm) Stereo Jack	
		Line	RCA Pin	2	-	-	-	
l _≥	Analog Inputs	Line	1/8" (3.5mm) Stereo Mini	1	1 (*5)	1	1 (*8)	
ldio		Balanced	XLR 3-31	1 (*3)	-	-	-	
l p	Dietro	USB	USB Type A	-	1	1	1	
uts	Digital Inputs	Streaming	Micro USB Type B		1	1	1	
Audio Inputs/Outputs		S/PDIF	1/8" (3.5mm) Mini	-	1 (*5)	1	1 (*8)	
tput	Analog		RCA Pin	1 (*4)	-	-	-	
155	Outputs	5	1/8" (3.5mm) Mini	-	-	1	-	
L		put S/PDIF, DoP	1/8" (3.5mm) Mini Coaxial		1 (*5)	_	-	
	Frequency Response (Products with capability of 40kHz or higher frequency response are regarded as "Hi-Res" products.)			2Hz to 100kHz (+0dB/-3dB)	10Hz to 80kHz (LINE IN)	10Hz to 100kHz (AUDIO IN)	10Hz to 100kHz (AUDIO IN)	
	Signal-to-Noise Ratio			110dB	105dB or Higher	110dB	(*7)	
Genera	Total Harmo	nic Distortions (JEI	TA)	0.002% (32 ohms load)	0.004% (32 ohms load)	(*7)	0.001% (32 ohms load)	
ira	Power Cons	umption (or Batter	y Life)	22 watts	Max. 7 hours	Max. 5 hours	Max. 8 hours	
	Overall Dimensions (W x H x D)			11.4" x 3.2" x 9.6" 290 x 81.2 x 244 mm	2.7" x 4.8" x 0.8" 69.6 x 123 x 21.5 mm(*6)	2.6" x 4.8" x 0.9" 65.4 x 121.4 x 21.6 mm (*6)	2.5" x 4.4" x 0.9" 64 x 112 x 21.7 mm (*6)	
L	Weight			9.1 lbs. / 4.1 kg	9.9 oz. / 280 g	6.4 oz. / 182 g	7.4 oz. / 210 g	
Inc	Included Accessories			Power Cord (w/ Plug Adapter), Manual, Owner's Warranty Card	USB Cable for PC, DC Charging Cable, RCA Conversion Cable, Rubber Bands x 2, Owner's Manual (inc. Warranty Card)	USB Cable for PC, DC Charging Cable, RCA Conversion cable, Owner's Manual (inc. Warranty Card)	USB Cable for PC, DC Charging Cable, Rubber Bands x 2, Owner's Manual (inc. Warranty Card)	
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^{*1} Supports playback from TEAC HR Audio Player via USB Input, and microSD card. *2 Supports playback from TEAC HR Audio Player via USB Input, and Optical Digital Input. *3 HOT on Pin 2. *4 Variable, Fixed or Cancel Output Level (User selectable). *5 Convertible connector (Line Input/Coaxial Digital Input/Optical Digital Input) (Optical Digi

Pro	oduct Category		Subwoofer		
Mc	odel Name		SW-P300		
Тур	pe of Product		Active Subwoofer		
Sp	ecifications				
	Type of Subwoofer		Closed (Front faced/Down faced compatible)		
	Unit		200mm Cone		
	Phase Change		Υ		
Subwoofer section	High-cut Filter	Adjustment	Y (non-step, Off)		
ŏ	Output Power	Maximum Output Power	91 W (8 ohms, JEITA)		
ofer		Rated Output Power	72 W (8 ohms, JEITA)		
Sec	Audio Input	Low Level	RCA Pin		
ē		High Level	Scre-type Speaker Terminals		
٦	Impedance		8 ohms		
	Maximum Input Power		150 W (8 ohms, JEITA)		
	Frequency Response		40 Hz to 200 Hz		
_	Power Consumption		18 watts		
Gen	Dimensions	Front faced	10.6" x 11.8" x 11.8" / 270 x 300 x 300 mm		
General		Down faced	10.6" x 12.6" x 11.4" / 270 x 320 x 291 mm		
_	Weight		21.2 lbs. / 9.6 kg		
Inc	:luded Accessori	es	Power Cord, Front Grill, Aluminum Feet x 4, Nylon Washers x 4, RCA Audio Cable (10ft./3m), Speaker Cables (10ft./3m) x 2, Cleaning Cloth, Owner's Manual (inc. Warranty Card)		

Reference for Icons					
DSD DSD Supports DSD Digital Streaming. (Shown with Sampling Frequency)					
PCM 192kHz 192kHz Supports PCM Digital Streaming. (Shown with Sampling Frequency)					
Built-in DAC	Supports Digital-to-Analog Conversion by Built-in D/A Converters for Left and Right channels individually.				
Supports Digital-to-Analog Conversion by Built Converter.					
USB	Supports Digital Streaming via USB Port.				
Bluetooth®	Supports High-quality Wireless Audio Streaming by Bluetooth*, aptX* Codec.				
4	Ideal for air travel with iPad/ANdroid tablet.				

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TEAC CORPORATION
1-47, Ochiai, Tama-shi, Tokyo 206-8530, Japan
Phone: 042-356-9156 teac.jp

TEAC AMERICA INC. 1834 Gage Road, Montebello, CA 90640, U.S.A. Phone: 323-726-0303 audio.teac.com

TEAC AUDIO EUROPE

Gutenberg Str. 3, 82178 Puchheim, Germany Phone: +49-8142-4208-141 www.teac.eu

WARNING	Listening headphones at a high volume for a long time may cause temporary or permanent hearing loss.
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