TEAC

Premium System Components





from Analog to Hi-Res Audio

A world of audio that brings timeless emotive sound.



Stereo Ampimer	
AX-501	Integrated Amplifier
Stereo Amplifier with	USB DAC
AI-301DA	Stereo Amplifier with USB DAC
AI-101DA	Stereo Amplifier with USB DAC
USB DAC	
UD-503	USB DAC/Headphone Amplifier
NT-503/DAB	USB DAC/Network Player
UD-501	USB DAC
UD-301	USB DAC 1
Network Player	
NT-503 DAB	USB DAC/Network Player

neauphone Amplinei		
UD-503	USB DAC/Headphone Amplifier	6
HA-501	Headphone Amplifier	1
HA-P90SD	Portable Headphone Amplifier/Player	1
HA-P5	Portable Headphone Amplifier with USB DAC	1
HA-P50SE	Portable Headphone Amplifier with USB DAC	1
HA-P50	Portable Headphone Amplifier with USB DAC	1
CD Receiver		
CR-H101/DAB	CD Receiver with USB DAC	1.
Micro Componnent S	ystem	
HR-S101	Micro Component System	1.



from Desktop to Mobile, on top of that.

wide range of premium audio components from TEAC.



CD	Player		
	PD-501HR	Hi-Res CD Player	
	PD-301/DAB	CD Player/FM Tuner	1
An	alog Tunrtable		
	TN-570	USB/Digital Turntable	
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Sp	eakers		
	S-300HR	Coaxia 2-way Speakers	
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	LS-101HR	2-way Speakers	1

Subwoofer SW-P300	Active Subwoofer	19
TEAC HR Audio	er Software/Application o Player (for Windows, for Macintosh) o Player (for iOS, for Android)	
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Once experienced, never go back before.

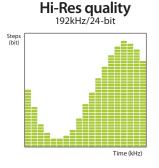
Hi-Res audio is ultra precise digital audio data close to the original analog waveform, or "Master tape quality" by digitizing the sound more frequently and more precisely.

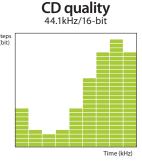
The CEA (Consumer Electronics Association) and the Japan Audio Society define products with capability of processing 24-bit/96kHz or higher on digital audio equipment, or reproducing 40kHz or higher frequency response on analog audio equipment such as amplifier and speakers, and grants to accompany the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



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

Hi-Res quality 384kHz/32-bit





* Vertical steps are shown in logarithmic scale

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, - 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 (www.onkyomusic.com) for example. Most online 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.





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	page 7



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-501	page 8
UD-301	page 11
AI-301DA	page 12

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.*

CR-H101	page	13
AI-101DA	page	13
HR-S101	page	13
* Applied for	the CR-I	-110°



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
HA-P50 page 18

in a Traditional Way

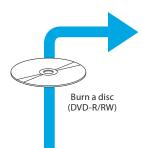
Managing music library disc by disc is still easy and comprehensive way to picking a music to be played, as we do for a century.

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.

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choose your listening style





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USB DAC/Headphone Amplifier

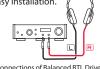




- DSD 11.2MHz, and PCM 320bit/384kHz Hi-Res digital audio streaming from Windows/Mac.
- ullet 700mW + 700mW of output power by full-balanced discrete headphone amplifier circuit
- Balanced BTL Drive and Active-ground Drive modes for excellent headphone listening.
- Dual TRS Headphone Jacks for either 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.







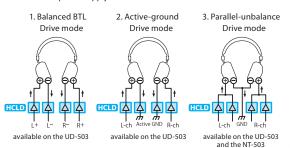
Connections of Balanced BTL Drive and Active-ground Drive modes

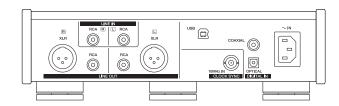
UD-503's Three Drive Modes for Headphones

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 quad "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.



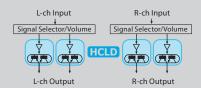


Common Features on the UD-503 and NT-503

Brushed-up Basics as Authentic Hi-Fi Products

- Dual-monaural Design throughout Power Units, D/A sections, and Analog Circuits.
- Dual Over-sized Toroidal-core Power Transformers for Independent Current Supply for both L and R Channels.
- 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.
- 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.





USB DAC/Network Player

Hi-Res

- DSD 11.2MHz, and PCM 384kHz/32-bit Hi-Res digital audio streaming from Windows/Mac.
- Versatile network functions, DLNA 1.5 and Home Media, suppoting Hi-Res audio playback.
- High-quality wireless audio playback from smartphone/tablet by aptX® Bluetooth®.
- Access to premium Internet music services such as tunein. *1
- DAB/DAB+ Version is Available in Some Countries. (NT-503DAB)
- 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.

(for iOS/Android)

DSD PCM Built-in USB Solution DAC AUDIO Bluetooth

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

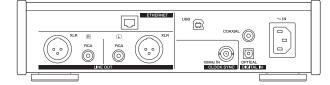
NT-503's Versatile Network Capabilities

- 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 files.



Digital Audio Technologies from Pro-Audio Development

- Dual High-end DAC Chips "VERITA AK4490" from Asahi-Kasei Electronics for L and R Channels.
- Up-conversion to 12.2MHz DSD / 384kHz 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





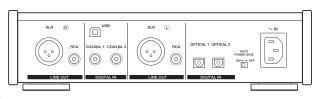








- DSD 5.6MHz, PCM 32-bit/384kHz, Hi-Res digital audio streaming via USB cable
- Throughout Dual-monaural circuit design eliminates interference between channels
- Dual over-sized Toroidal-core power transformers for left and right channels
- 4 types of DSD cut-off frequency settings, and 3 types of FIR Filter options for fine tuning
- Quad MUSES8920 Op-amps design, and dual Burr-Brown PCM 1795 D/A converters
- \bullet 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)
- \bullet A pair of XLR Balanced analog audio output and RCA Unbalanced analog output
- \bullet 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
- Auto power saving mode
- Free Hi-Res playback softwares for Windows/Mac



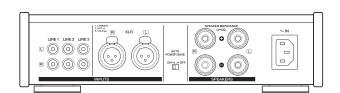








- 120 + 120 watts high-performance Class-D amplifier engineered by ABLETEC
- Qualified Hi-Res amplifier supporting 10 to 60,000Hz frequency response
- Full-balance analog circuit eliminates noise for better Signal-to-Noise ratio
- Dual analog level meters with dimmer control visualize pulse of the music
- CCLC headphone circuit for high-quality headphone listening
- $\bullet \ {\sf Over-sized} \ {\sf Toroidal-core} \ power \ transformer \ and \ {\sf Schottky} \ {\sf Barrier} \ diodes$
- 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



Reference 501

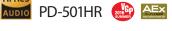




Hi-Res CD Player



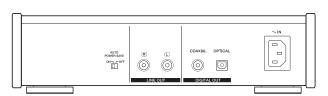








- TEAC's unique VACS mechanism eliminates vibration and reading errors
- Edge-hold slot-in mechanism for safer disc loading
- Center-mount CD drive for perfect weight distribution
- Cirrus Logic CS4398 D/A converter with Pure mode DSD/PCM processing
- Hi-Fi-graded Op-amps NJM5532 from JRC
- Individual 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)



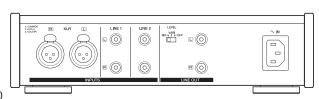








- \bullet Maximize headphone performance by choosing the right Damping Factor
- Discrete design Class-A amplifier with 1400m + 1400m watts output power
- \bullet Full-analog and dual-monaural circuit design for excellent headphone listening
- Active DC Servo Technology eliminates unwanted output signal caused by voltage difference inside the transistors
- Over-sized Toroidal-core power transformer to supply stable current
- \bullet 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 non-intentional 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	32 ohms	DF = 76
MID-HIGH	64 ohms	DF = 98
MID	120 ohms	DF = 97
MID-LOW	300 ohms	DF = 115
LOW	600 ohms	DF = 118

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

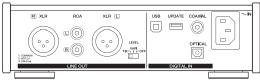








- DSD PCM Built-in DAC USB AUDIO
- DSD 5.6MHz, PCM 32-bit/192kHz, Hi-res digital audio streaming via USB cable
- Dual Burr-Brown PCM1795 D/A converters for Left and Right channels
- Asynchronous Transfer Mode, and Up-conversion option to 192kHz
- Dual-monaural circuit design eliminates interference between 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
- Variable headphone output level suits to use as a headphone amplifier
- 3 Digital Inputs (USB Audio, Coaxial digital, Optical digital)
- 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...

Supported models

- UD-501 • HA-P90SD
- UD-503 ● HA-P5
- NT-503 ● HA-P50SF
- UD-301 ● HA-P50
- AI-301DA ● CR-H101

(Discontinued models)

- UD-H01
- AI-501DA • A-H01
- NP-H750

• AI-101DA





- 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
- $\bullet \ Blue to oth^*, apt X^* \ codec \ high-quality \ wireless \ audio \ streaming$
- ullet 60 + 60 watts Class-D power amplifier engineered by ICEpower
- $\bullet \ \mathsf{CCLC} \ \mathsf{headphone} \ \mathsf{amplifier} \ \mathsf{for} \ \mathsf{high-quality} \ \mathsf{headphone} \ \mathsf{listening}$
- \bullet Auto power-on with incoming digital audio signal
- \bullet 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

CD Player/FM Tuner

PD-301 / PD-301DAB



- 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
- \bullet 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)
- \bullet Various playback modes on CD-DA (Program, Repeat, and Shuffle)
- \bullet Automatic playback when disc is loaded
- Coaxial and Optical digital outputs deliver CD, FM and USB sources
- Card-type Remote control
- Built-in DAB Tuner (PD-301DAB only)





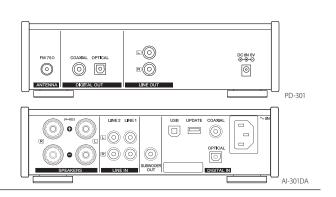








- Coaxial 2-way unit, 20mm soft dome tweeter and 100mm cone woofer
- Air Direct Center Pole System to drive massive sound power
- Carefully designed rear Bass-reflex port for rich bass sound
- A perfect loudspeaker partner for the Reference 301 series







CD Receiver CR-H101 / CR-H101DAB







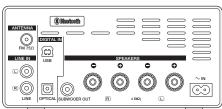








- PCM 24-bit/192kHz Hi-Res digital audio streaming via USB cable
- \bullet Burr-Brown PCM1795 D/A converter and dual on-board clocks for 44.1k and 48kHz
- Asynchronous Transfer mode and 2x Up-convert option to 192kHz
- Bluetooth*, aptX* codec high-quality wireless audio streaming
- 26 + 26 watts Class-D power amplifier
- 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
- Built-in DAB Tuner (CR-H101DAB only)









Speaker System LS-101HR



- 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



Stereo Integrated Amplifier with USB DAC





AI-101DA











- PCM 24-bit/192kHz Hi-Res digital audio streaming via USB cable
- Burr-Brown PCM1796 D/A converter
- Asynchronous Transfer mode
- $\bullet \ \mathsf{Bluetooth}^*, \mathsf{aptX}^* \ \mathsf{codec} \ \mathsf{high-quality} \ \mathsf{wireless} \ \mathsf{audio} \ \mathsf{streaming}$
- 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







Micro Component System



Combination product of Al-101DA (Amplifier) and LS-101 (Speakers).



- 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





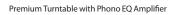


Premium Turntable with Phono EQ Amplifier and USB/Optical Digital Outputs

TN-570 (2016) (2



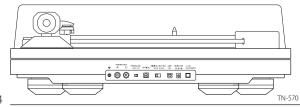
- Authentic 2-speed belt-drive turntable with USB/Optical digital outputs
- Dual-material compound by beautiful Marble and high-density MDF
- \bullet "PRS3" Platter Rotation Speed Sensing Servo System for precise rotation speed
- Crystal clear acrylic platter with perimeter belt-drive
- $\bullet \textbf{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

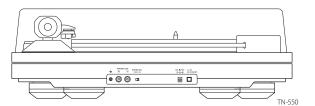


TN-550



- Authentic 2-speed belt-drive turntable
- Dual-material compound by beautiful Marble and high-density MDF
- $\bullet \ "PRS3" \ Platter \ Rotation \ Speed \ Sensing \ Servo \ System \ for \ precise \ rotation \ speed$
- 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
- \bullet Universal type head-shell with PC-Triple C puer copper wiring
- Built-in phono equalizer amplifier with OPA1602 SoundPLUS® Op-amps
- $\bullet \ \mathsf{MM-type} \ \mathsf{cartridge} \ \mathsf{installed} \ \mathsf{for} \ \mathsf{US} \ \mathsf{model} \ \mathsf{(audio-technica} \ \mathsf{AT95E} \ \mathsf{equivalent)}$
- Switchable phono/line output for versatile system configrations
- Corrosion resistant gold-plated terminals
- Height adjustable 3-point sustain feet







Premium Turntable with Phono EO Amplifier/USB Output

TN-300















- 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-TB, TN-300W)







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 onboard microcomputer controls DC motor speed after calcuration of losses caused by slips and stretches of the

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.

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"
- $\bullet \ \mathsf{Moderate}\text{-}\mathsf{weighted}\ \mathsf{Stone}\text{-}\mathsf{paper}\ \mathsf{for}\ \mathsf{anti-warpage}$
- Reversible design to match atmosphere of the room
- Hand crafted in Japan
- Matches with the TN-570 and TN-550

Head-shell

TA-HS3



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

Reference To-Go





Portable DSD Audio Player/Headphone

HA-P90SD











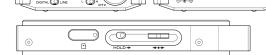












- ullet DSD 5.6MHz and PCM 24-bit/192kHz/24-bit native playback from PC, tablet, and microSD card
- Direct cable connection via Lightning or 30-pin cables (Apple Camera Connection Kit not required)
- $\bullet \ Free \ Hi-Res \ audio \ playback \ software/apps \ for \ Windows/Mac/iOS/Android \ supplied \ from \ TEAC$
- 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)
- \bullet 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

- 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 Free to download





Graphic Equalizer with Real-time Analyzer

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





Portable Headphone Amplifier with USB DAC













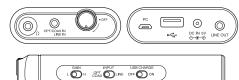












- Ergonomic, compact and light weight design for mobile use
- DSD 5.6MHz and PCM 24-bit/96kHz Hi-Res digital audio streaming from iOS/Android devices and Windows/Mac via USB Cable
- High-performance and low power consumption BF606 Blackfin® processor by Analog Devices
- Burr-Brown PCM1795 D/A converter 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
- $\bullet \ \ High-quality \ chip \ film \ capacitors \ designed \ for \ Hi-Fi \ equipment$
- 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





Portable Headphone Amplifier with USB DAC

AUDIO HA-P50SE



















- 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







Portable Headphone Amplifier with USB DAC

HA-P50













- 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





Make your air travel exciting

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 of movies during coast-to-coast flight.







Active Subwoofer







- Active subwoofer speciallly designed for 2.1ch or 2.2ch Hi-Fi system
- Robust high-density MDF cabinet for massive power handling
- 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
- $\bullet \ \mathsf{Non\text{-}step} \ \mathsf{high\text{-}cut} \ \mathsf{frequency} \ \mathsf{control} \ \mathsf{for} \ \mathsf{the} \ \mathsf{perfect} \ \mathsf{matching} \ \mathsf{with} \ \mathsf{speakers}$
- Convertible design for front faced or down faced
- \bullet 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





Covertible layout allows two types of setting depends on characters of Left and Rignt speakers or your preferences.

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

Coaxial 2-way Speaker System

S-300NEO



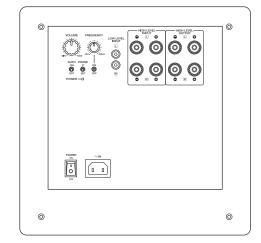




Black

• 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
- 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



Specifications

del Name ne of Produc r Features			NIT 200 (NIT 200 DAD		UD cos	
			NT-503 / NT-503DAB	UD-503	UD-501	UD-301
Features	T		USB DAC/ Network Player	USB DAC/ Headphone Amplifier	USB DAC	USB DAC
		LICD Characteristics	V	V	V	V
		USB Streaming S/PDIF Digital	Y Y (Coaxial, Optical)	Y Y (Coaxial, Optical)	Y Y (Coaxial, Optical)	Y Y (Coaxial, Optical)
Inputs		Analog	-	Y	-	-
		USB Flash Memory	Υ	-	-	-
		Bluetooth® Wireless	Y	-	-	-
		DLNA	Y	-	-	-
	Network	Home Media	Υ	-	-	-
	1	Internet Radio	Υ	<u>-</u>	-	-
	200	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)	Y (*1)
		384 kHz	Y (*4, 5, 6) Y (*1)	Y (*1, 6) 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		96 kHz	Y (*7)	Y (*16)	Y (*16)	Y (*16)
Audio		192 kHz	Y (*8)	-	Y (*1)	Y (*1)
	FLAC	176.4 kHz	Y (*8)	-	Y (*1)	Y (*1)
		96 kHz	Y (*8)	-	Y (*1)	Y (*1)
	AAC	96 kHz	Y (*8)	-	-	-
	ALAC	96 kHz	Y (*8)	-	-	-
	WMA Lossless	96 kHz	Y (*8)	-	- V (*16)	- V (*16)
	WAV (PCM) FLAC	88.2 kHz	Y (*9)	-	Y (*16)	Y (*16)
	AAC	88.2 kHz 88.2 kHz	Y (*10) Y (*9)	-	Y (*1) -	Y (*1) -
	ALAC	88.2 kHz	Y (*9)	-	-	- -
	WMA Lossless	88.2 kHz	Y (*8)	-	-	-
	WAV	44.1kHz / 48 kHz	Y (*9)	-	Y (*16)	Y (*16)
	PCM/LPCM	44.1kHz / 48 kHz	Y (*11)	Y (*16)	Y (*16)	Y (*16)
CD	FLAC	44.1kHz / 48 kHz	Y (*10)	-	Y (*1)	Y (*1)
quality	AAC	44.1 kHz / 48 kHz	Y (*9)	-	-	-
	ALAC	44.1 kHz / 48 kHz	Y (*9)	-	-	-
١	WMA Lossless	44.1 kHz / 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
District	lln-		Y Y Y Y	Y Y Y	Y (Switchable)	Y (Switchable)
Digital Section	Up-conversion Dual Internal Clock		Y	Y	- (Switchable)	- (Switchable)
	Clock	External Clock Sync	Y	Y	_	_
	Dual Mo	onaural Design	Y	Y	Y	-
Analog	Balanced	d Circuit Design	Υ	Υ	-	-
Section	TEAC-	HCLD Circuit	Y	Υ	-	-
	TEAC-	QVCC Circuit	Υ	Υ	-	-
Power	Toroidal-core	Power Transformer	Y	Y (Dual)	Y (Dual)	Y
cifications		Delegged DTI Drive		Υ		
		Balanced BTL Drive Active Ground Drive	_	Y	_	-
Drive mod	es	Parallel Unbalanced Drive	- Y	Y	_	
		Unbalanced Drive	_	·	_	_
CCLC (Cou	pling Capacitor Less Circu		-	-	-	Υ
	Output Power	Balanced	-	700 mW + 700 mW (*19)	-	-
(at 32 ohn		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		RCA Pin	-	1	-	-
	USB Streaming	USB Type A	1	1	-	-
5 : :	S/PDIF	USB Type B RCA Pin	- 1		1 2	1
Digita Input		TOS-link	1	1	2	1
		1/8" (3.5mm) Mini	1	1	-	·
	USB Memory	USB Type A	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	,	5Hz to 80kHz	5Hz to 80kHz	5Hz to 80kHz	5Hz to 55kHz
(Products w response as	ith capability of 40kHz or highe e regarded as "Hi-Res" products	r frequency s.)	(+1dB/-3dB)	(+1dB/-3dB)	(–3dB)	(–3dB)
	Noise Ratio		110dB (Balanced)	110dB (Balanced)	115dB	105dB
-			112dB (Unbalanced)	112dB (Unbalanced)		
Total Harmonic Distortions (JEITA) Power Consumption (or Battery Life))	0.0015% (1kHz, 20-20kHz) 18 watts	0.0015% (1kHz, 20-20kHz) 16 watts	0.0015% (1kHz) 13 watts	0.0015% (1kHz) 10 watts
		18 watts 11.4" x 3.2" x 9.8"	11.4" x 3.2" x 9.8"	13 watts 11.4" x 3.2" x 9.6"	8.5" x 2.4" x 9.4"	
Overall Dimensions (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	
Included Accessories		Power Cord, Remote Control (RC-1320), AAA Batteries x 2, Owner's Manual (inc. Warranty Card)	Power Cord, Remote Control (RC-1319), AAA Batteries x 2, RCA-Mini Cable, Foot Cushions x 3. Owner's Manual	Power Cord (w/ Plug Adapter), RCAAudio Cable, Owner's Manual, Warranty Card	Power Cord, Owner's Manual (inc. Warranty Card)	

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 dsf format playback from TEAC HR Audio Player via USB Input, USB Flash Memory, and LAN (DLNA, Home Media), *5 Supports DoP Inputs (Coaxial, Optical). *5 Supports DoP Inputs Memory, and LAN (DLNA, Home Media), and S/PDIF Inputs (Coaxial, Optical). *6 Supports DoP Inputs Memory, and LAN (DLNA, Home Media), *10 Supports Way Playback from USB Flash Memory, and LAN (DLNA, Home Media), *10 Supports Su