

# TEAC

## Hi-Fi Audio Components





USB DAC/Network Player  
**UD-701N**

An advanced all-around unit that fascinates every audiophile. Combining newly-developed TEAC ΔΣ (Delta Sigma) discrete DACs, network function, pre-amplifier, and headphone amplifier at higher dimension, this new full-size USB DAC behaves as a core of your audio system, allowing you audio streaming from a PC/NAS or music subscription services on Internet, analog balance input and excellent headphone listening.

- THD: 0.005% ●S/N Ratio: 110dB ●Frequency Response: 5Hz to 80kHz ●Digital Inputs: USB Audio, LAN, Coaxial Digital x2, Optical Digital x2, Bluetooth® ●USB Flash Memory ●Analog Inputs: XLR Balanced, RCA Unbalanced ●Clock Input: 10MHz ●Analog Outputs: XLR Balanced, RCA Unbalanced ●Power Consumption: 40W ●Overall Dimensions (W x H x D): 444 x 111 x 334mm ●Weight: 11.8kg



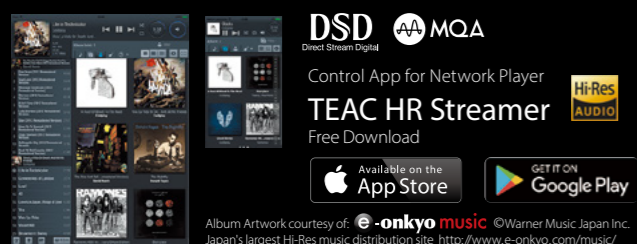
Stereo Power Amplifier  
**AP-701**

Dual mono power amplifier with two custom-design Ncore modules. Independent left/right high-capacity toroidal core power supply transformers, discrete buffer amplifiers and two Ncore modules provide a complete dual mono structure from input to output, while the fully-balanced input stage and bi-amp mode allows you system expansion that only separate components can achieve. A DC12V trigger lets the AP-701 to turn on/off from the matching UD-701N.

- Max Output Power: 260W+260W (4ohms 1kHz), 170W+170W (8ohms 1kHz) ●Rated Output Power: 230W+230W (4ohms 1kHz), 125W+125W (8ohms 1kHz) ●THD: 0.003% ●S/N Ratio: 110dB ●Frequency Response: 10Hz to 50kHz ●Analog Inputs: XLR Balanced, RCA Unbalanced ●Power Consumption: 210W ●Overall Dimensions (W x H x D): 444 x 111.3 x 348.2mm ●Weight: 9.9kg



Network App



Everything you need to play Hi-Res music is in your hand

The TEAC HR Streamer is an all-new music playback app exclusively designed for next generation network player, the NR-7CD and the NT-505. A list of album artwork helps you to choose a music at-a-glance, wherever the music file is stored in your iPad or on NAS music server.

- Supported Devices: iPhone, iPad, iPod touch ●Supported OS: (please check with App Store and Google Play) ●Supported Product: NR-7CD, NT-505 ●System Requirements: Wireless LAN

Album Artwork courtesy of: **e-onkyo music** ©Warner Music Japan Inc. Japan's largest Hi-Res music distribution site: <http://www.e-onkyo.com/music/>

Audio Streaming App



Hi-Res Playback Software/App  
**TEAC HR Audio Player**  
Free Download (Exclusive for TEAC USB DAC products)



Providing a Hi-Res audio experience for everyone

The TEAC HR Audio Player is an easy-to-use music player software for Windows, and Macintosh computers with Hi-Res audio data processing capabilities and auto configuration that allows secure connection with TEAC's USB DAC products.

iOS and Android versions are also available for TEAC's portable headphone amplifier/DACs.

- Supported products and compatible OS are available on our web site.



Reference 500 series 290mm



**DSD**  
Direct Stream Digital  
**MQA**

USB DAC/Headphone Amplifier **Hi-Res AUDIO**  
**UD-505-X**

**Experiencing the ultimate Hi-Res digital sound**  
The UD-505-X is a dual-monaural USB DAC with built-in fully-balanced headphone amplifier delivering balanced and active GND drive modes, as well as single-end drive. A new 4.4mm 5-polar headphone jack is also employed.  
●THD: 0.0015% ●S/N Ratio (Balanced): 110dB ●Frequency Response: 5Hz to 80kHz ●Inputs: USB Audio, Coaxial Digital x2, Optical Digital x2, Line, External Clock ●Outputs: XLR Balanced, RCA Unbalanced ●Power Consumption: 16W ●Overall Dimensions (W x H x D): 290 x 84.5 x 248.7mm ●Weight: 4.1kg



**DSD**  
Direct Stream Digital  
**MQA**

USB DAC/Network Player **Hi-Res AUDIO**  
**NT-505-X**

**Driving a digital highway that leads to future of audio**  
The NT-505-X is a versatile network player with state-of-the-art dual monaural digital-to-analog conversion technologies allowing Hi-Res inputs via USB cable, network and USB memory. Also supports TEAC's active GND headphone output.  
●THD: 0.0015% ●S/N Ratio (Balanced): 110dB ●Frequency Response: 5Hz to 80kHz ●Inputs: USB Audio, LAN, Coaxial Digital x2, Optical Digital x2, Bluetooth®, USB Memory ●Outputs: XLR Balanced, RCA Unbalanced ●Power Consumption: 18W ●Overall Dimensions (W x H x D): 290 x 84.5 x 248.7mm ●Weight: 4.1 kg



**ncore**  
audio power by hypex

Stereo Integrated Amplifier **Hi-Res AUDIO** **VGP 2019** **VGP 2018** Gold Prize  
**AX-505**

**Delivering all the dynamics of your music**  
The AX-505 delivers 130W + 130W of max output power from Hypex Ncore power module, while the MUSES op-amp achieved low-distortion and high S/N ratio for detailed sound. A GND-separated headphones output is also supported.  
●Max Output Power: 130W+130W (4ohms 1kHz JEITA) ●THD: 0.002% ●S/N Ratio (XLR): 110dB ●Frequency Response: 10Hz to 50kHz ●Inputs: XLR x 1 pair, RCA x 3 pairs ●Speaker Output: x 1 set ●Power Consumption: 110W ●Dimensions (W x H x D): 290 x 81.2 x 264 mm ●Weight: 4.2kg



Fully Balanced Phono Amplifier  
**PE-505**

**Dual monaural and fully-balanced input/output circuit design**  
The PE-505 employs high precision RIAA correction circuit, as well as both DECCA and COLUMBIA curves are supported. In addition, selectable load resistance for MC cartridges and load capacity for MM cartridges.  
●THD: 0.0002% ●Residual noise volt: 10µV\*1 85µV\*\* ●S/N ratio: 106dB\*1 86dB\*\* ●RIAA deviation: ±0.05dB ●Channel separation: -90dB or higher ●Inputs: XLR x 1 pair, RCA x 1 pair ●Outputs: XLR x 1 pair, RCA x 1 pair ●Power Consumption: 14W ●Dimensions (W x H x D): 290 x 84.5 x 252.2mm ●Weight: 4.5kg  
\*1: MM Input (RCA), \*\*1: MC Input (XLR)



**ncore**  
audio power by hypex

Stereo Power Amplifier **Hi-Res AUDIO** **VGP 2019** **VGP 2018** Special Prize  
**AP-505**

**A compact Power Amplifier supporting Bi-amp and BTL modes**  
High-efficient and high performance power module, Ncore from Hypex and balanced design throughout the circuits drive speakers in Bi-amp and BTL modes, allowing you to an appropriate configuration that only full-size components could achieved.  
●Max Output Power: 130W + 130W (4ohms, Stereo/Bi-amp modes), 250W (8ohms, BTL mode) ●THD: 0.0015% ●S/N Ratio: 113dB ●Frequency Response: 10Hz to 50kHz ●Inputs: XLR x 1 pair, RCA x 1 pair ●Speaker Output: x 1 set ●Power Consumption: 106W ●Overall Dimensions (W x H x D): 290 x 84.5 x 271mm ●Weight: 4.4kg

The Bi-amp and BTL connections require a pair of AP-505 units.



Master Clock Generator **VGP 2019** **VGP 2018** Gold Prize  
**CG-10M-A**

**Precision pulses breathe a life into Digital Audio**  
Accommodating an Oven Controlled Crystal Oscillator to perform the clock precisely by maintaining stable conditions, the CG-10M delivers accurate 10MHz clock signal.  
●Output Frequency: 10MHz ●Output Impedance: 50 ohms ●Output Level: 0.5Vrms (Sine wave) ●Frequency Temperature Characteristics: within ±3ppb ●Frequency Precision: ±0.1ppm (ppm=10<sup>-6</sup>, ppb=10<sup>-9</sup>) ●Outputs: BNC x 4 ●Power Consumption: 15.8W (Warm-up), 10.8W (Stabilized) ●Overall Dimensions (W x H x D): 290 x 84.5 x 248.7mm ●Weight: 3.6kg



Reference 300 series 215 mm



USB DAC/Stereo Integrated Amplifier  
**AI-301DA-X** Hi-Res AUDIO VGP 2017 Summer VGP 2017 Winter AEX Stereophile 2017 Stereophile 2017

Bringing a new era of Hi-Res audio and Bluetooth® wireless audio  
 The AI-301DA-X is a single-box product that allows streaming playback from PC/Mac via USB cable and Smartphone/Tablets via Bluetooth®, with small footprint.  
 ●Max Output Power: 40W+40W (4ohms 1kHz 10% JEITA) ●THD: 0.01% ●S/N Ratio (Line): 95dB ●Frequency Response: 2Hz to 100kHz ●Inputs: USB Audio, Coaxial Digital, Optical Digital, Bluetooth® ●Line x2 ●Output: Speaker ●Power Consumption: 38W ●Overall Dimensions (W x H x D): 215 x 61 x 254mm ●Weight: 2.1kg

DSD 5.6M PCM 192k USB AUDIO Built-in DAC Bluetooth Qualcomm aptX ice power



CD Player/DAB/FM Tuner  
**PD-301DAB-X** VGP 2017 Summer VGP 2017 Winter

Bringing more music sources to 301 system  
 The PD-301DAB-X is a very unique CD player acquiring DAB/FM tuner and USB port for MP3 playback. Each source even aerial broadcasting will be delivered in digital format to DAC Amplifier like AI-301DA-X for clearer sound.  
 ●Source: CD, DAB/FM Tuner, USB Memory ●Supported Disc: CD-DA, CD-R, CD-RW ●THD: 0.005% ●S/N Ratio: 113dB ●Frequency Response: 20Hz to 20kHz ●Outputs: Coaxial Digital, Optical Digital, Line ●Power Consumption: 8W ●Overall Dimensions (W x H x D): 215 x 61.1 x 232mm ●Weight: 2.1kg

DAB+/FM TUNER COMPACT DISC DIGITAL AUDIO

Full-size Components FULL SIZE



Cassette Deck/CD Player  
**AD-850** VGP 2017 Summer

A good combination of Digital and Analog  
 The AD-850 is a combined unit of CD player and Cassette tape deck with pitch control that allows perfect MP3 recording to USB flash memory from tape source.  
 ●THD: 0.05% (Rec/Play) ●S/N Ratio: 90dB (Play, Digital Rec), 80dB (Analog Rec) ●Frequency Response: 20Hz to 20kHz ●Inputs: Optical Digital, Line ●Output: Line ●Power Consumption: 16W ●Overall Dimensions (W x H x D): 435 x 104 x 295mm ●Weight: 4.5kg

COMPACT DISC DIGITAL AUDIO



Double Cassette Deck  
**W-1200** AEX AEX VGP 2017 Summer

A new standard double cassette deck for the next-generation  
 The W-1200 allows you to record simultaneously on both decks, and MIC mixing for Karaoke, while delivering PCM 16-bit/48kHz digital audio for PC recording via USB.  
 ●S/N Ratio: 59dB ●Frequency Response: 30Hz to 15kHz (Chrome tape), 30Hz to 13kHz (Normal tape) ●Wow-and-Flutter: 0.25% ●Inputs: Line, Mic ●Outputs: Line, USB, Headphones ●Power Consumption: 14W ●Overall Dimensions (W x H x D): 435 x 145 x 285.8mm ●Weight: 4.6kg

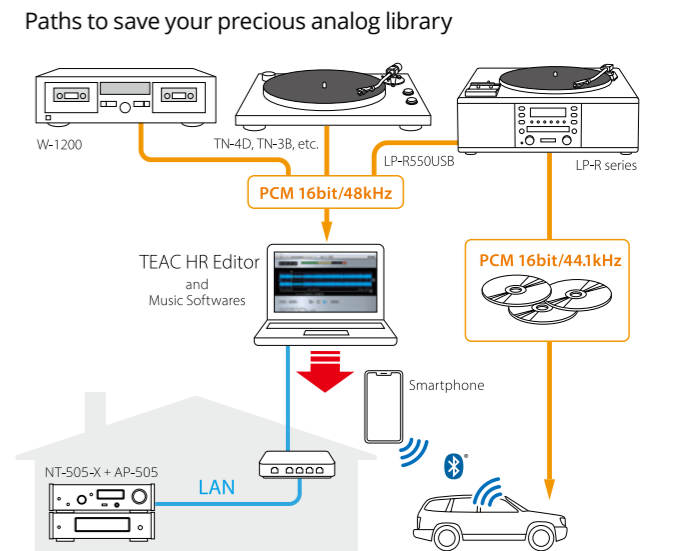
USB OUTPUT

Waveform Editing Application



Hi-Res Waveform Editor (for Windows / Macintosh)  
**TEAC Hi-Res Editor** VGP 2017 Summer VGP 2017 Winter

Digital archiving from precious analog source you own  
 The TEAC Hi-Res Editor is an ideal software that allows digital waveform edit and file format conversion for digital archiving. Look-and-Feel interface navigates you easy operation. Once you have digitize your analog sources like vinyl records and cassette tapes on a computer, divide the recorded file throughout side-A or B into each track and name it, and change file format or sampling frequency if necessary. You will get versatile digital audio files for mobile listening with iPhone or home listening with Network Audio Player like NT-505-X, and enjoy long-forgotten songs wherever you are. Save your precious analog library by digitizing them with TEAC Hi-Fi products and free software before they are gone!  
 ●Supported device and OS are available on our web site.





## Analog Turntable



Black Marble (B)

Belt-drive Analog Turntable with Balance Output  
**TN-5BB**



**An Authentic Belt Drive Analog Turntable with XLR Balanced Output**  
 The TN-5BB employs MC balanced output accommodated in a hybrid chassis that combines synthetic marble, washi paper and MDF materials along with a 9-inch S-shaped universal arm that utilizes a knife-edge bearing co-developed by SAEC.  
 ●Type: Belt Drive ●Speed: 33-1/3rpm, 45rpm, 78rpm ●Wow-and-Flutters: 0.1% or less ●Cartridge: MM (Ortofon 2M RED) ●Outputs: Phono (XLR, RCA) ●Power Consumption: 2W ●Overall Dimensions (W x H x D): 450 x 148 x 351mm ●Weight: 10.5kg approx.



Piano Black (B)

Direct-drive Analog Turntable with Digital Output  
**TN-4D**



**An ultra low-profile direct-drive turntable with knife-edge tone-arm**  
 The TN-4D employs a knife-edge tone-arm bearings co-developed with SAEC, for smoother vertical movement of the tone-arm, while a factory-installed Oyster cartridge from SUMIKO delivers crisp and dynamic sound on any music genre.  
 ●Type: Direct Drive ●Speed: 33-1/3rpm, 45rpm ●Wow-and-Flutters: 0.1% or less ●S/N Ratio: 67dB or more ●Cartridge: MM (SUMIKO Oyster) ●Outputs: Line/Phono (switchable), USB Audio ●Power Consumption: 2W ●Overall Dimensions (W x H x D): 420 x 117 x 356mm ●Weight: 6.1kg approx.



Walnut (WA)



Cherry (CH)

Belt-drive Analog Turntable with Digital Output  
**TN-3B**

**A new standard belt-drive turntable with external drive mechanism**  
 The TN-3B employs a knife-edge tone-arm bearings co-developed with SAEC, for smoother vertical movement of the tone-arm for dynamic and fine resolution sound. PHONE/LINE and USB digital audio outputs are supported.  
 ●Type: Belt Drive ●Speed: 33-1/3rpm, 45rpm ●Wow-and-Flutters: 0.2% ●S/N Ratio: 67dB ●Cartridge: VM (equivalent to MM, AT-VM95E for TEAC) ●Outputs: Line/Phono (switchable), USB Audio ●Power Consumption: 2W ●Overall Dimensions (W x H x D): 420 x 117 x 356mm ●Weight: 5.0kg approx.



Piano Black (B)



Gloss White (W)



Black (B)

Full-automatic Belt-drive Analog Turntable  
**TN-175**

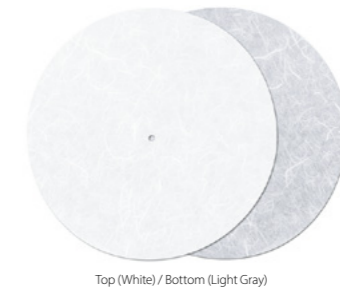
**2-speed Turntable with Full-Automatic operation**  
 The TN-175 accommodates 2-speed full-automatic mechanism including auto-start for LP/EP and auto-return functions and built-in MM-type phono EQ amplifier circuit in a robust MDF cabinet with sleek profile. A VM-type cartridge pre-installed.  
 ●Type: Belt Drive ●Speed: 33-1/3rpm, 45rpm ●Wow-and-Flutters: 0.2% ●S/N Ratio: 67dB ●Cartridge: VM (equivalent to MM, AT3600L by audio-technica) ●Outputs: Line/Phono (switchable) ●Power Consumption: 6W ●Overall Dimensions (W x H x D): 420 x 105 x 355mm ●Weight: 3.5kg approx.



White (B)



## Turntable Accessories



Top (White) / Bottom (Light Gray)



Package

Turntable Sheet

### TA-TS30UN-BW



Protect and enhance your vinyl collection with "Washi" paper

The TA-TS30UN-BW is a turntable sheet made of WASHI paper for surface and stone paper for core to reduce static that gathers dust. Its beautiful watermark enhances precious moment of playing back vinyl records. Proudly made in Japan.

●Diameter: approx. 300mm ●Thickness: approx. 1mm ●Weight: approx. 44g ●Quantity: 1 sheet

Head-shell

### TA-HS2



Must-have for record collector

The TA-HS2 is a spare head-shell for quick replacement. Finished in black.

●Type: Universal type (Chrome-plated Contacts) ●Overall Dimensions: approx. 45 x 14 x 61.2 mm ●Weight: approx. 9.0 g (excluding Wires), 10.0 g (including Wires)

Stylus for TN-180BT-A3

### STL-122 (a set of 2 pieces)



High-quality stylus

A diamond tip stylus for TN-180BT-A3.

●Compatible products: TN-180BT-A3, TN-180, TN-110  
●Quantity: 2 pieces per box

## Bluetooth® Turntable



Walnut (WA)



Walnut (WA)



Cherry (CH)

Belt-drive Turntable with Built-in Bluetooth® Transmitter

### TN-400BT



3-speed Turntable for LP, EP and even SP records

Combining high style with high fidelity, the TN-400BT is the vinyl word in modern turntables, featuring three-speed operation including 78rpm and digital output for Bluetooth® speakers or PC recording thanks to its built-in Analog-to-Digital converter.

●Type: Belt Drive ●Speed: 33-1/3rpm, 45rpm, 78rpm ●Rotation Speed Variation: ±2% (33-1/3rpm) ●Wow-and-Flutters: 0.2% ●S/N Ratio: 67dB ●Cartridge: VM (equivalent to MM, audio-technica AT-95E) ●Outputs: Line/Phono (switchable), USB Audio ●Power Consumption: 1.5W ●Overall Dimensions (W x H x D): 420 x 117 x 356mm ●Weight: 4.9kg approx.



Belt-drive Turntable with Built-in Bluetooth® Transmitter

### TN-280BT-A3

A standard turntable with clean design – inside and out

The TN-280BT-A3 is a great-sounding turntable for music enthusiasts who want to enjoy the full range of vinyl classics and reissues, while delivering sound directly to BT speakers/headphones wirelessly.

●Type: Belt Drive ●Speed: 33-1/3rpm, 45rpm ●Rotation Speed Variation: ±2% ●Wow-and-Flutters: 0.2% ●Signal-to-Noise Ratio: 67dB ●Cartridge: MM ●Outputs: Line/Phono (switchable) ●Power Consumption: 1.5W ●Overall Dimensions (W x H x D): 420 x 117 x 356mm ●Weight: 4.9kg approx.



Black (B)

Belt-drive Turntable with Built-in Bluetooth® Transmitter

### TN-180BT-A3

A quick-starter as your first record player

The TN-180BT-A3 is a basic turntable anyone can afford without full-scale hi-fi components. Designed for all music fans, the TN-180BT-A3 allows you to enjoy vinyl records as soon as you connect to your Bluetooth® wireless speakers/headphones.

●Type: Belt Drive ●Speed: 33-1/3rpm, 45rpm, 78rpm ●Rotation Speed Variation: ±2% ●Wow-and-Flutters: 0.25% ●S/N Ratio: 67dB ●Cartridge: MM ●Outputs: Line/Phono (switchable) ●Power Consumption: 1.5W ●Overall Dimensions (W x H x D): 420 x 117 x 356mm ●Weight: 3.5kg approx.



Black (B)



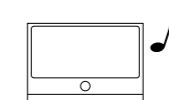
White (W)

## Benefits of Bluetooth® Turntables

If you don't have (or don't like to install) a full-scale hi-fi system in your room, even our Bluetooth® turntables allow you to enjoy record playing with your Bluetooth® wireless speakers/headphones, making your system simple and easy.

No complicated wiring nor extra hi-fi units are necessary. Simply, press the "PARING" button to connect TEAC's Bluetooth® turntable with your Bluetooth® speakers/headphones which you might already have for your iPod/iPhone or Android phone.

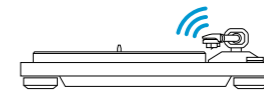
Another beauty of Bluetooth® turntables is, as long as the speakers/headphones are located in its range, you can install the turntable anywhere in the room. Once you find a space for the turntable which requires pretty large footprint particularly in its depth, you don't have to worry about length of cable or ungraceful cable arrangements.



Bluetooth® Speakers



Bluetooth® Headphones



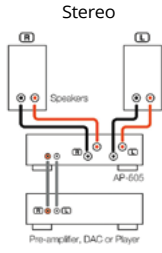
TN-400BT / TN-280BT-A3 / TN-180BT-A3



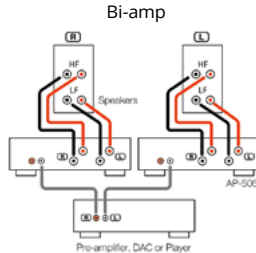
TN-400BT / TN-280BT-A3 / TN-180BT-A3

## Driving your speakers better

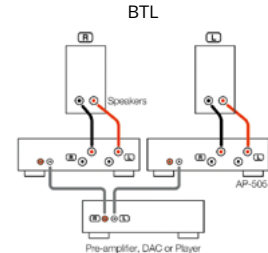
The AP-505 is a capable power amplifier unit that supports both Bi-amp and BTL (bridge) modes, on top of conventional Stereo mode.



A conventional way of connecting speakers using one amplifier and a pair of speakers. Each speaker terminal on the amplifier is connected to a corresponding terminal on the speaker.



Deploying two AP-505 units, each AP-505 processes either Left or Right channel. The L-ch section on each amplifier processes lower frequency, as the R-ch does higher one. As a result, each tweeter and woofer unit is driven independently avoiding affect others.



Also known as "Bridge" connection. Deploying two AP-505 units, each AP-505 processes either Left or Right channel as a monaural power amplifier. As a result, entire output power of the amplifier is delivered to a single speaker, making your hi-fi system the most powerful among these configurations.

## Reference of icons



Supporting DSD format (shown with supporting sampling frequency, 22.5MHz, 11.2MHz or 5.6MHz)



Supporting PCM format (shown with supporting sampling frequency, 384kHz or 192kHz)



Equipping two Digital-to-Analog converters for left and right channels to process individually.



Equipping a single Digital-to-Analog converter, and processes left and right channels internally.



Allowing digital streaming playback including Hi-Res audio from PC/Mac via a single USB cable. Hi-Res playback software "TEAC HR Audio Player" works with this product.



Delivering digital audio data via USB port for digital recording on Windows/Macintosh computers.



Speeds of Turntable. 2 SPEEDS supports 33-1/3 and 45RPM, while 3 SPEEDS supports 33-1/3, 45 and 78 RPM.



Type of built-in tuner, DAB/FM or AM/FM.



Showing product's overall width in millimeters. Full-size indicates 435mm or wider.



Supporting high-density digital audio formats that exceed 96kHz or greater sampling frequency and 24-bits or greater bit-depth for digital audio equipment, or supporting 40kHz or higher frequency response for analog equipment.



Specially tuned by European and Japanese engineers in collaboration with European reviewers.



Supporting Bluetooth® wireless streaming playback from smartphone/tablet or transmitting audio signal to wireless speakers/headphones. (Varies on type of product)



Supporting LDAC™ codec Hi-Res wireless streaming via Bluetooth®. Developed by Sony Corporation.



Supporting aptX HD, 24-bit/96kHz Hi-Res wireless streaming via Bluetooth®. Developed by Qualcomm.



Supporting aptX™ codec high-quality wireless streaming via Bluetooth®. Developed by Qualcomm.



Sending audio signal and control the product from your iOS devices and Macintosh computers via Wi-Fi.



An Internet service that provide related information such as albums and artists on now playing music.



An innovative streaming technology for fast-speed and professional-quality sound over Internet.



Supporting a comprehensive music subscribing service provided by Google.



A high-performance, energy-effective, low distortion and high S/N ratio power amplifier module developed by Hypex in Netherlands.



Employing high energy-efficient and low heat exhaust class-D amplifier developed by ICEpower in Denmark, achieving low power consumption and eliminating cooling fan for silent operation.

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

Authorized Dealer

# TEAC

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