TEAC

Reference 101 Series

CR-H101DAB

CD/DAB Receiver

Hi-Res AUDIO

New Generation CD/DAB+ Receiver for Hi-Res Era.

■ Main functions

- CD Receiver employs PC Streaming, CD Playback, DAB/FM, and Bluetooth® Connection
- Supports up to 24-bit/192kHz Hi-Res Audio Streaming from PC/Mac via USB Cable
- Slot-in CD Player supports MP3 and WMA files
- 2x Up-convert up to 192kHz from CD and Bluetooth® Sources
- Built-in DAB/FM tuner supports RDS (RDS for UK/Europe model only)
- HR Loudness for Stunning Sound Performance
- Versatile Timer Functions including ON/OFF Timer

		
Brand	TEAC	
Series	Reference 101	
Model Name	CR-H101DAB-S	CR-H101DAB-B
Color	Silver	Black
Main Unit Dimensions Weight	182 x 93 x 221mm / 7.2” × 3.7" × 8.7” (W x H x D) 2.2kg / 4.9 lbs.	
Package Dimensions GW	323 x 172 x 237mm / 12.7” x 6.8” x 9.3”(W x H x D) 2.8kg /6.17 lbs.	

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■ Overview

The CR-H101DAB is a CD/DAB Receiver with a new concept, fusing CD receiver components with TEAC desktop audio technologies that we have advanced over years.

The receiver has a USB DAC function that supports Hi-Res Audio playback and can handle a variety of sources, including CDs, Bluetooth® and DAB/FM radio. The body of the unit is crafted elegantly with cut aluminum panels, which are about 3mm thick on the top and sides and 5mm thick on the front. This increases both strength and resistance to external noise. The cabinet, which is about 20cm square and small enough to be held on the palms of two hands, has a cooling grille and side bars like a high-end power amplifier.

The design makes people feel its dignity and precision when they see it. In addition, the volume and source selection knobs on the front are also made with cut aluminum, which creates the sense of coolness and precision unique to thick metal. They will provide feelings of satisfaction to the owner every time they are used. The DAC, which is a core component for digital audio equipment, uses a Burr Brown PCM1795 that boasts a high dynamic range with low distortion and has a record of use in high-end digital-analog converters. This enables playback from various sources without compromising the passion the artists put into their music.

The CR-H101DAB packs the same high-quality audio technologies used in audiophile equipment into a compact form that allows you to make daily music listening experiences even richer.

■ Supports a variety of sources

● Hi-Res Audio streaming from PC/Mac, up to 192kHz/24-bit

The back of the unit has a USB-B port. Hi-Res Audio source streaming up to 192kHz/24-bit is possible when connected to a computer, tablet, smartphone or similar device.

● Built-in Slot-in CD Player

A slot-in slim CD Player is used to help realize the compact format.
CD playback (including MP3 and WMA files on CD-R/RW discs) and automatic playback are supported.

● Built-in DAB/FM tuner

A built-in DAB/FM tuner supports 10 DAB and 20 FM station presets for quick access to your favorite station.

● High-quality Wireless Audio Streaming via Bluetooth® aptX® Codec

In addition to the popular SBC codec, aptX® and AAC codecs are supported for high-quality audio. Enjoy wireless streaming of high-quality audio playback from compatible smartphones and tablets.

■ Technologies for high-quality audio

● Compact, high-efficiency Class-D amplifier

The Class-D TPA3118 amplifier made by Texas Instruments enables both the compact size and the power to playback Hi-Res Audio sources without data loss. While compact, we have realized a high 26W+26W output and clear audio quality.

● High-precision digital-analog conversion chip

We incorporated a high-performance PCM1795 D/A Burr Brown converter chip made by Texas Instruments. This chip has previously been used in our high-end UD-501 and UD-301. Boasting a high S/N ratio and an excellent distortion rate allows it to faithfully process Hi-Res Audio sources, which have data quantities that greatly exceed those of CDs, and bring out the wonderful nuances of the music.

● Up-conversion of CD, and Bluetooth sources to Hi-Res equivalents

The built-in up-conversion function can oversample (2×) signals with sampling frequencies less than 96 kHz. This allows you to enjoy CD, and Bluetooth with higher-quality audio.

● USB interface that supports asynchronous transmission

The USB interface supports 192kHz/24-bit asynchronous transmission, which offers excellent suppression of jitter (time deviation the occurs when transmitting digital signals). This allows it to transmit enormous amounts of Hi-Res Audio source data accurately to the DAC.

● Dual clock realizes accurate D/A conversion

Separate dedicated crystal oscillators are used for 44.1kHz and 48kHz multiples of the clock, which is crucial to jitter reduction. When playing back Hi-Res Audio sources, the original sound is reproduced faithfully by suppressing the impact of jitter using this high-precision built in clock.

● HR Loudness circuit reproduces heavy low-frequency sounds with power

Using DSP processing, the HR Loudness circuit provides speaker output that is optimal for the LS-101HR speakers. You can enjoy powerful low frequencies and clear high frequencies even during playback at low and medium volume levels. This HR Loudness circuit is not limited just to digital sources, which it can handle with resolutions up to 192kHz/24-bit. This DSP processing can be applied to any input source so that its effect can be enjoyed. Radio and other external analog input signals are converted to 96kHz/24-bit digital signals once by the high-precision A/D converter and then processed by the HR circuit.

● TEAC HR Audio Player is an easy-to-use Hi-Res Audio playback application

TEAC HR AUDIO PLAYER is a free playback application available for Windows and Mac OS that allows you to enjoy the playback of Hi-Res Audio files with ease. With support for WAV, FLAC, MP3, AIFF and ALAC formats, it also has an Expand to RAM function that enables high-quality playback without burdening the CPU. This allows you to enjoy Hi-Res Audio sources with even higher audio quality.

■ Design

● Solid aluminum body and design that stands out

With a width of about 182 mm and a height of about 93 mm, the extremely compact body has a full-metal enclosure using aluminum that is about 3 mm on the top, front, left and right sides. The top panel has a grille reminiscent of those found on high-end power amplifiers, and the solid body has excellent vibration resistance, minimizing the impact of vibrations on audio quality.

● Machined aluminum knobs

Machined aluminum knobs that feature ridges like those found on professional audio equipment are used for the large volume and source selection knobs on the front. The cool feel characteristic of metal provides a sense of satisfaction every time they are touched.

● Clock functions

The remote control Clock button can be pressed to show the current time. In addition, the timer function can be used to turn the CD player or DAB/FM tuner ON/OFF at set times.

■ Features at-a-glance

- Hi-Res Audio Streaming from PC/Mac via USB Cable
- Slot-in CD Drive supports MP3 and WMA (CD-DA, CD-R/RW)
- Built-in DAB/FM Tuner supports RDS (RDS for UK/Europe model only)
- Bluetooth® Wireless Connection with aptX® High-quality Playback from Smartphone/Tablet
- 2x Up-convert up to 192kHz from CD and Bluetooth Sources
- HR Loudness Circuit for Stunning Bass Sound

TEAC

- 26 Watts + 26 Watts Output Power by Energy-efficient Class-D Amplifier
- Small Footprint and All-aluminum Enclosure
- Free Hi-Res Playback Software for Windows/Mac are Available

Specifications

USB section	
Connector	USB B-type x 1
Supported Sampling Frequency	44.1k / 48k / 88.2k / 96k / 176.4k / 192kHz
Supported Bit Length	16/24-bit
CD Player section	
Supported Playback Disc	CD-DA, CD-ROM/R/RW ISO9660 LEVEL 1/2/JOLIET, 8cm CD not supported
Supported File Format	PCM (CD-DA), MP3, WMA
PCM (CD-DA)	16-bit, 44.1kHz
MP3	32k to 320kbps and VBR, 16k / 220.5k / 24k / 32k / 44.1k / 48kHz, MPEG-1/2 Audio Layer-3
WMA	32k to 320kbps and VBR, 8k / 11.025k / 16k / 22.05k / 32k / 44.1k / 48kHz, WMA Ver.9 (DRM not supported)
Maximum number of files	250 (including folders)
Maximum number of folders	99
Bluetooth® section	
Version	3.0
Output Class	Class 2
Supported Profile	A2DP
Supported Codec	SBC, AAC, aptX®
Tuner section	
Band	DAB (Band 3), FM
Frequency Range	
DAB	174.0 to 240.0MHz
FM	76.0 to 108.0MHz
DAB Input	50 ohms, Unbalanced
DAB Max. Signal	0dBm
DAB Sensitivity	-97dBm typ
Adjacent Channel Rejection	35dB typ
Number of Presets	
DAB	10 Stations
FM	20 Stations
Amplifier section	
Output Power	
Maximum	26 Watts + 26 Watts (1kHz, 4 ohms, 10%, JEITA)
Rated	20 Watts + 20 Watts (1kHz, 4 ohms, 1%, JEITA)
Total Harmonic Distortion	0.02% (1kHz, 4 ohms, 1W)
Signal-to-Noise Ratio (LINE)	90dB (IHF-A/LPF 20kHz, 1kHz 2V Input)
Frequency Response	20 to 45,000 Hz (-5dB)
Inputs and Outputs	
Digital Inputs	
USB Audio	USB B-type x 1
Optical	TOS-link x 1
Bluetooth	x 1
Analog Input	
LINE	RCA Pin x 1 pair
Analog Outputs	
Speakers	Screw-type x 1 set

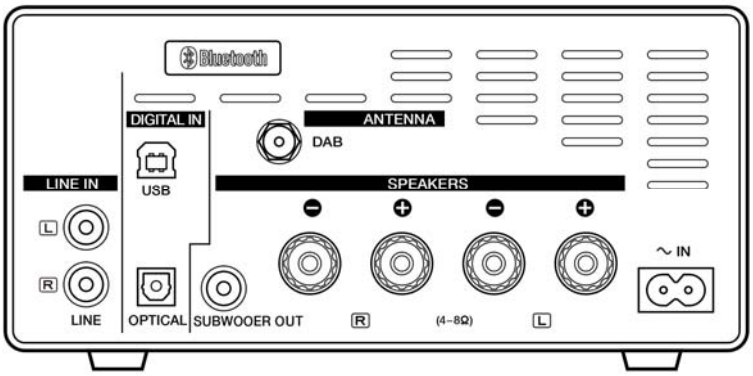
Subwoofer Pre-out	RCA Pin x 1
Headphones	1/8” (3.5mm) Stereo Mini x 1
	80m Watts + 80m Watts (32 ohms loaded, 1kHz), 0.08% T.H.D

General

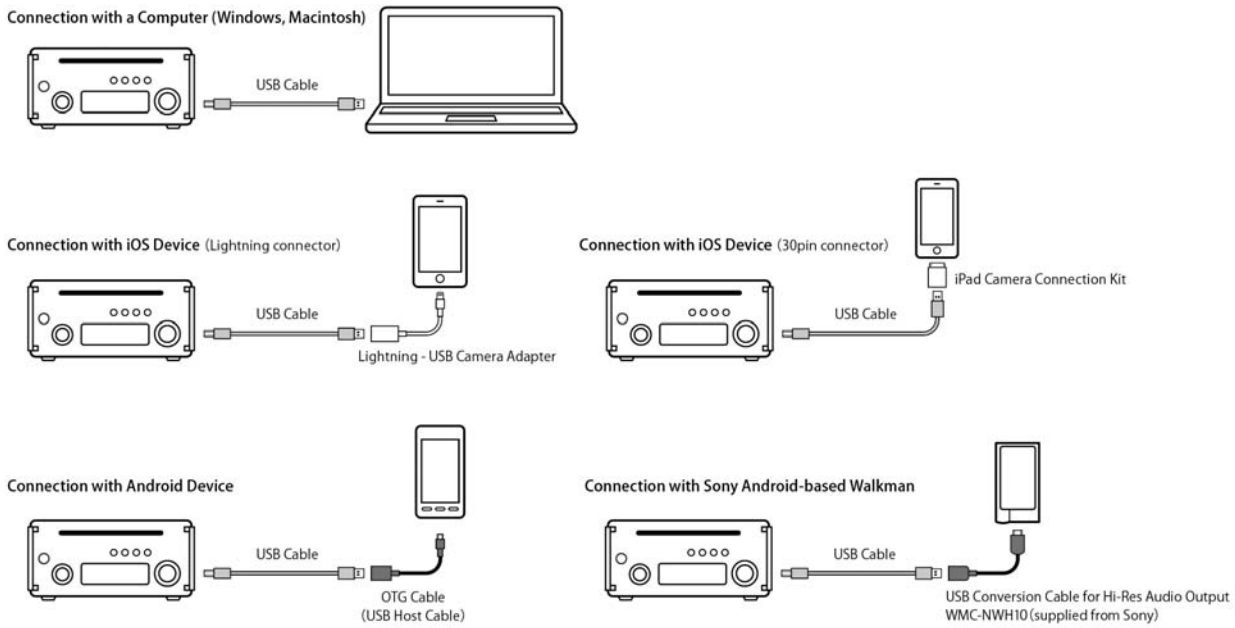
Operating Power	AC 220–240V, 50Hz
Power Consumption	21 W
Overall Dimensions (W x H x D)	7.2” x 3.7” x 8.7” / 182 x 93 x 221 mm (incl. protrusions)
Weight	4.9 lbs. / 2.2 kg
Operating temperature	+5° C to +35° C
Operating humidity	5% to 85% (no condensation)
Storage temperature	−20° C to +55° C
Included Accessories	Remote Control (RC-1324) x 1
	AAA Batteries x 2
	FM Antenna x 1
	Power Cord × 1
	Owner’s manual × 1 (incl. Warranty Card)

Specifications and appearance are subject to change without notice. Weight and dimensions are approximate.

■ Rear Panel



■ Appendix



Connections with a Computer/iOS Device/Android Device