

# USB DAC/Pretpojačalo/Pojačalo za slušalice



## **TEAC** **UD-507** **SPECIFIKACIJE**

### Spec description

Supported formats	
USB input	
PCM	16/24/32 bit 44.1k/48k/88.2k/96k/176.4k/192k/352.8k/384k Hz
DSD	2.8M/5.6M/11.2M/22.5M Hz
Coaxial digital input	
PCM	16/24 bit 32k/44.1k/48k/88.2k/96k/176.4k/192k Hz
DSD	2.8MHz (supported with 176.4kHz/24-bit DoP format)
Optical digital input	
PCM	16/24 bit 32k/44.1k/48k/88.2k/96k/176.4k/192k Hz
DSD	2.8MHz (supported with 176.4kHz/24-bit DoP format)
DAC section	
USB DAC	In-house designed Discrete DAC TRDD5

Up-conversion	up to 384kHz/32-bit PCM
Audio inputs	
USB	USB Type-C port × 1 USB Type-B port × 1
USB version	2.0
Transfer Mode	Asynchronous mode transfer, Bulk Pet
Compatible Software	TEAC HR Audio Player (Windows, Macintosh)
COAXIAL digital (rear)	RCA pin ×1 (gold-plated)
Input level	0.5Vp-p
Input impedance	75Ω
Optical digital (rear)	TOS-link ×1
Input level	-24.0 to -14.5dBm peak
Analog (Balanced)	XLR ×1 pair (gold-plated)
Input impedance	50kΩ
Input sensitivity	5Vrms
Analog (Unbalanced)	RCA pin ×1 pair (gold-plated)
Input impedance	24kΩ
Input sensitivity	2.5Vrms
Bluetooth®	
Bluetooth® version	4.2
Output class	Class2 (Range: approx. 33ft/10m)
Supported profiles	A2DP, AVRCP
Content protection	SCMS-T
Supported codec	LDAC™, LHDC, Qualcomm® aptX™ HD, aptX™, AAC, SBC
No. of paired device	maximum 8 devices

No. of multipoint connection device	maximum 2 devices
<b>Audio outputs</b>	
<b>XLR balanced</b>	XLR ×1 pair (gold-plated)
Maximum output level	1kHz, full scale, into 10kΩ
0dB setting	2.0Vrms
+6dB setting	4.0Vrms
Output impedance	40Ω
<b>RCA unbalanced</b>	RCA pin ×1 pair (gold-plated)
Maximum output level	1kHz, full scale, into 10kΩ
0dB setting	2.0Vrms
Output impedance	20Ω
<b>Headphone outputs</b>	
<b>Connector 1</b>	1/4" (6.3mm) TRS stereo jacks × 1 (gold-plated)
<b>Connector 2</b>	XLR 4pin jack ×1 (gold-plated)
<b>Connector 3</b>	4.4mm 5-pole Pentaconn jack ×1 (gold-plated)
<b>Maximum output</b>	
Balanced	1200mW + 1200mW (into 100Ω)
Active Ground	900mW + 900mW (into 32Ω)
Unbalanced	900mW + 900mW (into 32Ω)
<b>Supported impedances</b>	16 to 600Ω
<b>Clock section</b>	
<b>External clock input</b>	
Connector	BNC (gold-plated)
Input frequency	10MHz

Input impedance	50Ω
Input level	Rectangle wave: equivalent to TTL levels Sine wave: 0.5 to 1.0 Vrms
<b>External control</b>	
12V Trigger out	
Conenctor	3.5mm Monaural Mini jack × 1
Output level	12V
Max. current supply	100mA
<b>Audio performance</b>	192kHz/24bit PCM input, RCA output, DAC mode MULTIBIT
Frequency Response	5Hz to 70kHz (+1/-6 dB)
Total harmonic distortion	0.01% or less (1kHz, LPF: 20Hz to 20kHz)
S/N ratio	105dB or higher (A-weight, 1kHz)
<b>Power supply</b>	
US/Canada	AC 120V 60Hz
UK/Europe	AC 220 to 240V 50Hz
Power consumption	18W (0.4W in standby)
dimensions (including protrusions)	290(W)×85(H)×249 (D) mm / 11.4”(W)×3.3”(H)×9.8”(D)
Weight	4.9kg / 10.8lbs
Included accessories	Power cord, Remote control (RC-1334), AAA Batteries for remote control × 2, feet cushions × 3, Owner's Manual (with warranty)

## Up-conversion table

Input Frequency	Up-converted Frequency

Coax/Opt	USB	off	2Fs	4Fs	8Fs
32kHz	–	32kHz	64kHz	128kHz	256kHz
44.1kHz	44.1kHz	44.1kHz	88.2kHz	176.4kHz	352.8kHz
88.2kHz	88.2kHz	88.2kHz	88.2kHz	176.4kHz	352.8kHz
176.4kHz	176.4kHz	176.4kHz	176.4kHz	176.4kHz	352.8kHz
–	352.8kHz	352.8kHz	352.8kHz	352.8kHz	352.8kHz
48Hz	48Hz	48kHz	96kHz	192kHz	384kHz
96kHz	96kHz	96kHz	96kHz	192kHz	384kHz
192kHz	192kHz	192kHz	192kHz	192kHz	384kHz
–	384kHz	384kHz	384kHz	384kHz	384kHz

No conversion

\* Maximum up-conversion rate is 8Fs.

## Comparison with previous models

	UD-507	UD-505-X	UD-505	UD-503	UD-501
USB DAC	TRDD 5 ×1 (L/R)	ES9038 Q2M ×2 (L/R)	AK4497 ×2 (L/R)	AK4490 ×2 (L/R)	PCM 1795 ×2 (L/R)
Supported DSD formats	22.5MHz maximum	22.5MHz maximum	22.5MHz maximum	11.2MHz maximum	5.6MHz maximum
Supported PCM formats	384kHz/32-bit maximum	768kHz/32-bit maximum	768kHz/32-bit maximum	384kHz/32-bit maximum	384kHz/32-bit maximum
Up-conversion (Max)	PCM: 384kHz/32-bit (2Fs, 4Fs, 8Fs)	DSD: 24.5MHz (DSD 256, 512) PCM: 384kHz/32-bit (2Fs, 4Fs, 8Fs)	DSD: 24.5MHz (DSD 256, 512) PCM: 384kHz/32-bit (2Fs, 4Fs, 8Fs)	DSD: 12.2MHz (DSD 256) PCM: 384kHz/32-bit (2Fs, 4Fs, 8Fs)	PCM: 192kHz/24-bit (fixed)
Dual	Yes	Yes	Yes	Yes	Yes

monaural					
Current buffer circuit	TEAC-HCLD2	TEAC-HCLD2	TEAC-HCLD	TEAC-HCLD	-
TEAC QVCS circuit (High-precision volume)	Yes	Yes	Yes	Yes	-
Line/balanced outputs	Yes	Yes	Yes	Yes	Yes
Line parallel/unbalanced outputs	Yes	Yes	Yes	Yes	Yes
High-precision dual clock	Yes	Yes	Yes	Yes	Yes
External clock input	Yes	Yes	Yes	Yes	-
Preamplifier function	Yes	Yes	Yes	Yes	-
Bulk Pet transmission	Yes	Yes	Yes	-	-
Line output level switching	<ul style="list-style-type: none"> <li>• Fixed (0 dB)</li> <li>• Fixed (+6 dB)</li> <li>• Variable</li> <li>• Path Thru</li> <li>• Off</li> </ul>	<ul style="list-style-type: none"> <li>• Fixed (0 dB)</li> <li>• Fixed (+6 dB)</li> <li>• Variable</li> <li>• Off</li> </ul>	<ul style="list-style-type: none"> <li>• Fixed (0 dB)</li> <li>• Fixed (+6 dB)</li> <li>• Variable</li> <li>• Off</li> </ul>	<ul style="list-style-type: none"> <li>• Fixed (0 dB)</li> <li>• Fixed (+6 dB)</li> <li>• Variable</li> <li>• Off</li> </ul>	- (Line output on/off selection only when headphones connected)
Front digital input	Yes (USB Type-C)	Yes (Combined coaxial/optical mini jack)	Yes (Combined coaxial/optical mini jack)	Yes (Combined coaxial/optical mini jack)	-
Analog line inputs	2 pairs (XLR, RCA)	1 pair (RCA)	1 pair (RCA)	1 pair (RCA)	-
Bluetooth®	Yes	Yes	Yes	-	-

receiver					
Headphone amplifier circuit	Current-strengthening circuit	Current-strengthening circuit	Current-strengthening circuit	Current-strengthening circuit	Op-amp
Headphone output connectors/ drive modes	<p>XLR 4pin ×1</p> <ul style="list-style-type: none"> <li>Balanced</li> <li>Active ground</li> </ul> <p>4.4mm 5-pole ×1</p> <ul style="list-style-type: none"> <li>Balanced</li> <li>Active ground</li> </ul> <p>Standard 6.3mm × 1</p> <ul style="list-style-type: none"> <li>Unbalanced</li> </ul>	<p>4.4mm 5-pole ×1</p> <ul style="list-style-type: none"> <li>Balanced</li> <li>Active ground</li> </ul> <p>Standard 6.3mm ×2</p> <ul style="list-style-type: none"> <li>Balanced</li> <li>Active ground</li> <li>Unbalanced</li> </ul>	<p>4.4mm 5-pole ×1</p> <ul style="list-style-type: none"> <li>Balanced</li> <li>Active ground</li> </ul> <p>Standard 6.3mm ×2</p> <ul style="list-style-type: none"> <li>Balanced</li> <li>Active ground</li> <li>Unbalanced</li> </ul>	<p>Standard 6.3mm ×2</p> <ul style="list-style-type: none"> <li>Balanced</li> <li>Active ground</li> <li>Unbalanced</li> </ul>	<p>3.5mm stereo mini ×1</p> <ul style="list-style-type: none"> <li>Unbalanced</li> </ul>
Feet	Stressless Foot v2	Stressless Foot	Pin-point foot	Pin-point foot	Conventional insulated foot
Remote control	Yes	Yes	Yes	Yes	–