

# Product information

## AD-850

Cassette deck/CD player



**This combined cassette deck and CD player, which can also record to USB flash drives, includes a microphone jack with an echo function that can be used for karaoke**

### ■ Main features

- Combined cassette deck and CD player
- USB flash drive recording and playback supported
- Mic input jack with echo function
- Karaoke function (mic input can be mixed with CD, TAPE or USB playback)
- Pitch control playback function
- Mic signal can be mixed with playback signal and recorded to USB flash drive or cassette tape (recording media and playback source must be different)
- Two-head single one-way cassette deck
- CD player supports CD-R/RW discs and MP3 file playback
- USB flash drive recording and playback functions
- Convenient timer function (requires use of a commercially-available timer)

Brand	TEAC
Model	AD-850
Color	Black (B)
Main unit size/weight (W × H × D)	435 × 145 × 288 mm/ Europe/Korea: 5.0 kg (11 1/8 lb) USA/Canada : 4.8 kg (10 5/8 lb)
Unit packaging size/weight (W × H × D)	564 × 244 × 377 mm/ Europe/Korea: 6.8 kg (15 lb) USA/Canada : 6.5 kg (14 3/8 lb)

## Product information

### ■ Overview

A cassette deck and CD player in a single unit. This combined model also supports recording and playback with USB flash drives for a total of three types of media. The built-in mic input jack also allows you to enjoy karaoke using backing music playing from a CD, cassette or USB flash drive. You can also mix in the mic input sound and record it to a cassette tape or USB flash drive.<sup>\*1</sup> A variety of recording combinations are supported, including recording from a cassette tape, CD, external input or mic input to a USB flash drive (as an MP3 file) as well as recording from a CD, USB flash drive (MP3 file), mic input or external input to a cassette tape<sup>\*1</sup>. Extensive timer<sup>\*2</sup> functions include cassette recording and playback as well as CD and USB flash drive playback. Various playback modes include programmed, repeat and shuffle playback from CDs and USB flash drives. This cassette mechanism is a two-head single one-way type and supports cassette tapes in normal, chrome and metal (playback only) positions. This model offers key functions including pitch control playback ( $\pm 10\%$  adjustment range).

<sup>\*1</sup>*The mic sound cannot be recorded when recording from a CD to a USB flash drive.*

<sup>\*2</sup>*A commercially-available timer must be purchased separately.*

### ■ USB flash drive recording and playback supported

In addition to recording from CDs, cassette tapes and external input devices to USB flash drives (as MP3 files), CDs, MP3 files on USB flash drives and external input devices can also be recorded to cassette tapes. Recorded files will be saved to automatically generated folders according to the source (CD, LINE or TAPE) on USB flash drives, enabling easy digital to analog conversion without a computer.

### ■ Microphone input built in

A mic input jack is built into the front of the unit. You can record a mic connected to this unit by itself, of course. You can also mix in the mic signal when playing back and recording CDs, cassettes and USB flash drives.

*\*The mic sound cannot be recorded when recording from a CD to a USB flash drive.*

### ■ Echo effect

Echo can be added to the sound from the mic connected to this unit. The front panel switch can be used to set the effect to two levels or turn it off. With the AD-850 and a mic, you can easily enjoy karaoke. (You will also need a separate amplifier and speakers for karaoke.)

#### Echo explanation

This adds reverberations to the original sound. The original sound is repeated with various amounts of delay and damping over time to produce an almost natural reverberation sound, similar to that heard in a hall or studio.

## Product information

### ■ Cassette deck has all the key functionality

The cassette deck uses a two-head one-way design for recording and playback. It supports cassette tape that use normal, chrome and metal (playback only) formulations/positions. This model provides all key functionality, including pitch control with a  $\pm 10\%$  adjustment range and timer recording and playback.

### ■ CD player supports CD-R/RW discs and MP3 file playback

In addition to audio CDs, the CD player can play CD-R/RW discs containing MP3 files. During MP3 playback, information including ID3 tags and file names\* is shown. Various playback modes include program, shuffle and repeat (one track, all tracks or program).

\*File name display supports half-width English letters and numbers (single-byte characters). Names that use full-width characters (double-byte characters), including Japanese, cannot be shown correctly.

### ■ Extensive USB flash drive recording and playback functions

The repeat playback function can be used together with various other playback modes, including continuous, shuffle and program. The synchronised start function, which automatically starts playback of the sound source (CD or TAPE), makes recording to USB flash drives much more straightforward.

### ■ Convenient timer function

A timer\* can be used to start cassette recording and playback as well as CD and USB flash drive playback.

\*A commercially-available timer must be purchased separately.

### ■ List of functions

- Recording from CDs, cassette tapes, mic input and external input devices to USB flash drives (as MP3 files) possible
- Recording from CDs, USB flash drives, mic input and external input devices to cassette tapes is supported
- Built-in mic input jack
- Mic input can be mixed with CD, USB flash drive, cassette or external input
- Audio with the mic signal mixed in can be recorded to cassette or USB flash drive (The mic sound cannot be recorded when recording from a CD to a USB flash drive.)
- Echo effect for mic input
- MP3 file playback (USB flash drives and CD-R/RW discs)
- MP3 file ID3 tags and file names can be shown (USB flash drives and CD-R/RW discs)
- Timer playback function (CDs, tapes and USB flash drives)
- Timer recording function (tapes only)
- Recording level can be adjusted when dubbing (not possible from CD to USB flash drive)

## Product information

- Various playback modes include continuous, shuffle and program (CDs and USB flash drives)
- Elapsed time and remaining time of playing track as well as total elapsed time and remaining time of disc shown (CDs)
- Cassette tape counter function
- Cassette tape pitch control ( $\pm 10\%$ ) function (playback only)
- Peak level meters function during recording and playback
- Dedicated remote control
- Compliant with RoHS

# Product information

## Specifications

### CD player

Pickup	3-beam, semiconductor laser
Digital filter	8-times oversampling
Frequency response	20 Hz – 20 kHz ±2 dB
Total harmonic distortion	0.02% or less (1 kHz)
S/N ratio	87 dB or more (IHF-A)
Analog output	2.0 V (RCA)

### Cassette tape

Track system	4-track, 2-channel stereo
Head construction	Record/playback head × 1 Erase head × 1
Tape type	C-46/60 cassette
Tape speed	4.76 cm/sec
Motor	DC servo motor × 1
Pitch control	±10% (playback only)
Wow and flutter	0.25% (W.RMS)
Frequency response (overall)	Chrome: 50 Hz– 12 kHz ±3 dB Normal : 50 Hz– 12 kHz ±3 dB
S/N ratio (overall)	59 dB (3% THD level WTD)
Rewinding time	Approx. 120 sec. (C-60 tape)
Line input (RCA)	462 mV (50 kΩ or more input impedance)
Line output (RCA)	462 mV (50 kΩ or more load impedance)

### USB

Interface	USB 1.1 FULL SPEED (12 Mbps)
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### Playback

Frequency response	20 Hz – 20 kHz (±2 dB)
S/N ratio	85 dB or more
Playback bit rate	8 – 320 kbps

### Recording

Frequency response	
CD → USB	20 Hz – 15 kHz (±3 dB)
LINE → USB	100 Hz – 15 kHz (±3 dB)
S/N ratio	85 dB or more
Recording bit rate	128 kbps

### Microphone input

Mic input connector	6.3mm mono (standard jack)
Nominal input level	0.78 mV (–60 dBm)
Input impedance	47 kΩ or more
Power supply function	None

### Other

Power requirement	
Model for Europe	AC 230 V, 50 Hz
Model for USA/Canada	AC 120 V, 60 Hz
Model for Korea	AC 220 V, 60 Hz
Power consumption	14 W
Dimensions (W × H × D)	435 × 145 × 288 mm (17 1/4" × 5 3/4" × 11 3/8") (including protrusions)

### Weight (Net)

Model for Europe/Korea	5.0 kg (11 1/8 lb)
Model for USA/Canada	4.8 kg (10 5/8 lb)
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-1329) × 1
Batteries (AAA) for remote control × 2
RCA audio cables × 2
Owner's manual × 1
Quick start guide for recording × 1