TASCAM®

CD-500 / CD-500B
Technical Information

PRODUCT OVERVIEW

INTRODUCTION

TASCAM's best-selling line of single-rackspace CD players has been updated with the **CD-500B**. The CD-500B is a slot-loading CD player with a new transport, featuring brushless motors and an edge-grabbing mechanism to prevent disc damage. A front-panel 10-key pad is available for instant access to CD tracks, and flash start is available for instant playback.

The CD-500B supports MP3 and WAV file playback from CD-ROM as well as traditional audio CDs. The TASCAM CD-500B includes 16% pitch control for CD playback speed. Other features include incremental play, fader start, call/return to last play point, fade in/out, power on play and more.

A variety of control and interface ports are found on the rear panel. Both RCA unbalanced and XLR balanced analog outputs are provided, as well as S/PDIF and AES/EBU digital outputs. The CD-500B can be controlled through RS-232C, parallel, wireless remote control or an optional RC-3F footswitch.

The reliable CD-500B is a perfect solution for installation, touring, house of worship and anywhere else rackspace is at a premium.

Available at a lower price point than the CD-500B, the **CD-500** does not include the XLR balanced outputs, AES/EBU digital I/O or parallel control.

FEATURES

- Slot-loading mechanism
- RCA unbalanced output
- XLR balanced output (CD-500B)
- Optical and Coaxial S/PDIF digital outputs
- XLR AES/EBU output
- All, single, random, A/B and 99-track program play
- Incremental play
- Track elapsed, track remain, disc remain time display
- Call function: return to last play start point
- Intro check
- Skip back play function resumes playback from 0.5 to 60 seconds earlier
- Fade in/out (0 to 10 sec., in 0.5 sec. steps)
- Power on play
- Frame-accurate search
- Relay play for multiple units (1/8" relay in/out jack)
- Index search (CD-DA) and directory search (MP3)
- Mono output
- Resume play
- Fader start / event start
- EOM (End of message)
- WAV file (up to 48kHz/16bit) and MP3 file (up to 320kbps VBR) playback
- Headphone output
- RS-232C and Parallel control
- Wireless remote controller included (defeatable)
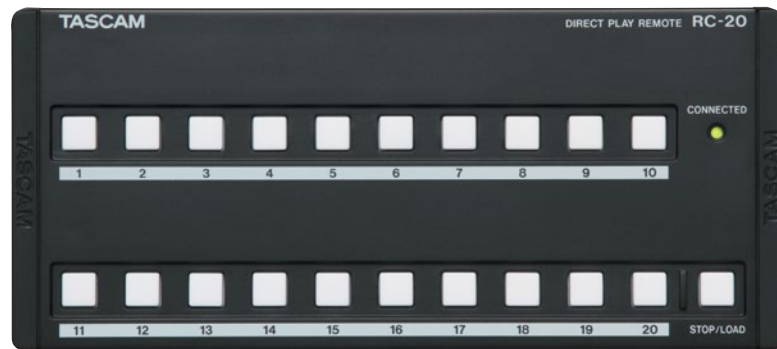- Footswitch input (for optional RC-3F or RC-20)

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All specifications subject to change without notice. Contact your local TASCAM representative for the latest information

PANELS AND REMOTE

CD-500 rear panel

CD-500B rear panel

RC-500
Included wireless
remote

RC-20
Optional direct play remote

CD-500B 15-PIN PARALLEL CONTROL PINOUT

1	STOP TALLY	9	PLAY TALLY
2	|<< IN	10	PAUSE TALLY
3	>>| IN	11	FADER START/STOP
4	NO DISC TALLY	12	STOP IN
5	EOM OUT	13	PLAY IN
6	<< IN	14	PAUSE IN
7	>> IN	15	+5V
8	GND		

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SPECIFICATIONS

Media and formats

Device type: CD player
Compatible discs: Compact discs (12-cm only)
Playable disc types: CD, CD-R, CD-RW
Playable disc and file formats: Audio CD (CD-DA), MP3, WAV
Number of channels: 2
Quantization rate: 16-bit
Sampling frequencies: 32 kHz, 44.1 kHz, 48 kHz

Analog audio output

Analog out connectors (unbalanced)
Connector: RCA pin jacks
Output impedance: 1 kΩ or less
Standard output level: −10 dBV (0.32 Vrms)
Maximum output level: +6 dBV (2.0 Vrms)

Analog out connectors (balanced, CD-500B only)
Connector: XLR-3-32 (1: GND, 2: HOT, 3: COLD)
Output impedance: 150 Ω
Standard Output level: +4 dBu (1.23 Vrms)
Maximum Output level: +20 dBu (7.75 Vrms)

PHONES connector
Connector: 6.3-mm (1/4") standard stereo jack
Phones Maximum output level: 45 mW + 45 mW or more (THD+N 0.1% or less, 32Ω load)

Digital audio output

Digital out connector (optical)
Connector: optical
Supported signal format: IEC-60958-3 standard for consumers (S/PDIF)

Digital out connector (coaxial)
Connector: RCA-pin jack
Supported signal format: IEC-60958-3 standard for consumers (S/PDIF)
Output impedance: 75Ω Output level: 0.5 Vp-p

Digital out connector (AES/EBU, CD-500B only)
Connector: XLR-3-32 (1: GND, 2: HOT, 3: COLD)
Supported signal format: IEC60958-4 (AES/EBU)
Output impedance: 110Ω

Control input and output

REMOTE connector
Connector: 2.5-mm TRS jack
CONTROL I/O START (RELAY IN) connector
Connector: 3.5-mm TS jack
CONTROL I/O DISC EOM (RELAY OUT) connector
Connector: 3.5-mm TS jack
RS-232C connector
Connector: D-sub 9-pin
PARALLEL connector (CD-500B only)
Connector: D-sub 15-pin

Audio performance

Frequency response: 20 Hz–20 kHz: ±0.5 dB (JEITA)
S/N ratio: 95 dB or more (JEITA)
Dynamic range: 95 dB or more (JEITA)
Distortion: 0.005% or less (JEITA)
Channel separation: 95 dB or more (1 kHz, JEITA)

Backup memory

The following settings are backed up even when the power is turned off:
- Playback mode
- Playback time display mode
- Auto-ready function on/off
- Auto-cue function on/off
- Repeat function on/off
- Various menu settings (original key, eject block, auto- cue level, program, fade in/out, relay playback, power on play, mono output, resume, EOM time, incremental playback, pitch step, RS232C baud rate, skip back, remote control receipt, interval time, frame display, foot switch, user data, parallel mode)

General / Power supply

AC: 100-240 V, 50-60 Hz
Power consumption: 10 W (CD-500), 11 W (CD-500B)
Dimensions (W x H x D): 19" x 1.76" x 11.8"(482.6 x 44.9 x 300.5 mm)
CD-500 Weight: 7.1 lbs. (3.5 kg)
CD-500B Weight: 8.2 lbs. (3.7 kg)
Operating temperature range: 41°-104° F (5°–40° C)
Installation tilt: Within 30°