CD-RW900SX

Professional Audio CD Recorder

Quality, Reliability and Functionality
For Daily Professional Use

The CD-RW900SX is a professional CD recorder and player that replaces the CD-RW900MKII. A slot-loading optical drive ensures years of reliable operation in the most demanding installations. This CD drive allows gapless recording when setting track marks, something not possible using off-the-shelf PC optical drives. A high-performance codec chip is used for A/D and D/A conversion for clean, clear sound quality with a frequency response of 20 Hz to 20 kHz ±0.8 dB. Various recording features like automatic track creation help the operator create polished recordings without constant supervision.

The CD-RW900SX has unbalanced analogue input/output jacks as well as optical and coaxial digital audio connectors. Both the left and right analogue inputs have their own gain controls on the front panel. In addition, the digital input can be controlled for optimal recording levels from a digital source. Functions including auto-cue, auto-ready, pitch control, power-on playback, and fade-in/fade-out playback are provided. It is also possible to control the transport via an optional computer keyboard.

Whether used for PA/rental or fixed installations, the CD-RW900SX is the right choice for reliable CD recording and playback.

Details

Slot-loading CD Drive With Gapless Continuous Recording

The new CD transport is not simply a repackaged computer drive. Instead, it is designed specifically for audio and uses sophisticated firmware that allows track marks to be written into the audio without audible gaps.

This is perfect for seamless, continuous live recording.

Multiple Ways To Create New Audio Tracks During Recording

The CD-RW900SX offers four options for creating new audio tracks during a recording session including three auto functions:

- **Digital Direct (DD)**
  When recording digitally from MC or CD, this function detects track boundaries and divides the recording at these points.
- **Based on input level**
  This function creates a track mark based on the input level and starts a new track when the input level drops below a certain value (from –24 dB to –72 dB).
- **Based on time**
  Time-based track division can be done every 1–10 minutes. This method is preferred for some applications, such as conference recordings, or when there are no gaps between segments, such as music recordings.

You can also start with a new track manually by pressing the **RECORD** button during audio recording.

Independent Input Level Controls for Left and Right

Professional users will appreciate that the left and right channels of the analogue input have their own input level controls on the front panel. This makes it easy to compensate for different sound levels at a venue already during recording.

In addition, the level on the digital input can be adjusted to achieve an optimal recording level even with a digital source.

Unbalanced analog and SPDIF coaxial and optical connections are provided for connection flexibility.

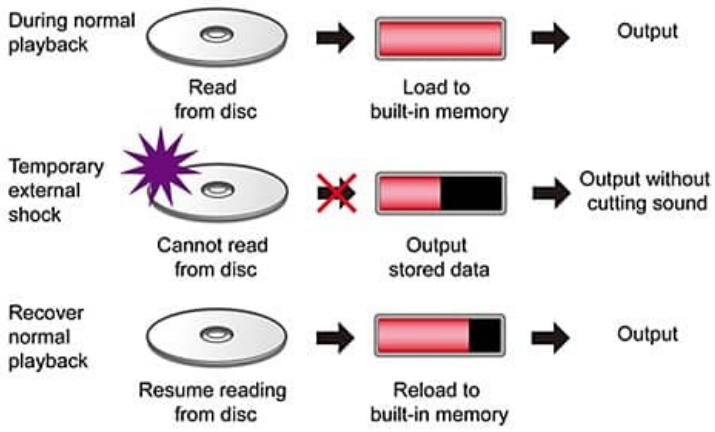
Convenient Control and Text Input via Computer Keyboard

The CD-RW900SX has a keyboard connector on the front panel that allows a standard computer keyboard to be used for transport control. Use the function buttons to start, pause and stop recording or playback, skip tracks, or switch pitch-control and other functions on and off. You can place the keyboard on a table and operate the CD-RW900SX comfortably, even if it is installed in a 19-inch rack.

Moreover, using an optional keyboard considerably simplifies the input of text, e.g. for track titles and artist names.

Note: A computer keyboard is not included. You can connect any standard PC keyboard with a PS/2 connector.

Numerous Playback Options for Professional Use



As a true professional CD recorder/player, the CD-RW900SX offers a host of playback features for virtually any situation. You can change the **playback speed and key** individually or together, which can be very useful in a gym or music school, for example. Features such as **Auto-Cue** and **Auto-Ready** are handy when you need to play tracks at precise times, such as in a theatre. There is also a **Power-on Playback** function, which can be used to automatically play background music when power is applied. Various **repeat functions** (single, program, random, A–B) complete the playback feature set.

Last not least, the CD-RW900SX has an **anti-shock memory** that ensures smooth playback, even if a shock or vibration lasts up to four seconds.

Features at a glance

Recording features

- Gapless continuous recording
- Independant L/R analogue input level controls
- Adjustable digital level
- Automatic (by level, by time, digital direct) or manual track division
- Fade in/out from 1 to 30 seconds in 1-second steps
- Rec mute function to record four seconds of silence
- Sync recording
- The number of tracks that can be recorded at once can be restricted

Playback features

- Pitch control (±16% in 0.1 to 1.0% steps), Key control (±6 semi-tones), Key original function (change tempo without changing key)
- Auto Cue, Auto Ready
- Power-on playback (play when power comes on)
- Continuous, single, random, or program (up to 99 songs) playback
- All, single, or A-B repeat playback

Other features

- Supported media: CD-R, CD-R-DA, CD-RW, CD-RW-DA

- Reliable slot-loading CD drive mechanism
- Erase/un-finalise CD-RWs
- Time display can be switched between elapsed and remaining time of a disc or track
- Plays MP3 files on data CDs (up to 8 folder levels)
- Shows MP3 tags on display
- Supports CD-Text
- Computer keyboard can be used for CD-Text input and as a remote control
- RCA unbalanced analogue I/O
- Coaxial and optical digital I/O (IEC 60958-3, SPDIF)
- Headphones output with level control (20 mW per channel)
- Sampling rate converter on coaxial and optical digital inputs
- Anti-shock memory (4 seconds)
- Wireless remote control included
- Infrared remote receiver can be deactivated
- 3-pole AC socket with detachable power cable
- 19-inch rack-mount chassis (2U)

Related products

SS-CDR250N: Networkable Solid-State/CD Audio Recorder

CD-A580 v2: CD Player / Cassette Deck / USB Recorder

Specifications

General

Recordable media	CD-R, CD-RW, CD-R-DA, CD-RW-DA (High speed CD-RW is supported)
Playback disc formats	CD-DA, CD-ROM (ISO 9660 Level 1/2 Joliet format, multisession discs and CD text)
Playback file formats	CD-DA: 44.1 kHz, 16-bit stereo MP3: 44.1 kHz, 64–320 kbps, VBR
Recording file formats	CD-DA: 44.1 kHz, 16-bit stereo
Quantisation	16-bit linear
Sampling frequency	44.1 kHz
Frequency response	20 Hz to 20 kHz, ±0.8 dB (Playback) 20 Hz to 20 kHz, ±1.0 dB (Recording)
Signal-to-noise ratio	95 dB (Playback) 90 dB (Recording)
Dynamic range	95 dB (Playback) 90 dB (Recording)
Total harmonic distortion	<0.006 % (Playback) <0.008 % (Recording)
Channel separation	>90 dB (Playback, at 1 kHz) >80 dB (Recording, at 1 kHz)
Wow and flutter	<0.001 % (unmeasurable)

Analogue inputs and outputs

Analogue input	Unbalanced RCA
Nominal input level	-10 dBV (-16 dBFS)
Nominal impedance	22k Ω ±10 %
Analogue output	Unbalanced RCA
Nominal output level	-10 dBV (-16 dBFS)
Maximum output level	+6 dBV ±2 dB
Nominal impedance	200 Ω ±10 %
Headphones output	6.3-mm stereo jack
Output power	20 mW + 20 mW (into 32 Ω)

Digital inputs and outputs

Digital inputs	
Supported input sampling frequencies	32–48 kHz
Coaxial	RCA, IEC60958 Type II (SPDIF)
Optical	TOS, IEC60958 Type II (SPDIF)
Digital outputs	
Coaxial	RCA, IEC60958 Type II (SPDIF)
Optical	TOS, IEC60958 Type II (SPDIF)

Other connectors

Keyboard connector	Mini DIN, 6-pin (PS/2)

Power supply and other specifications

Voltage requirements	USA/Canada: 120 V AC, 60 Hz Europe: 230 V AC, 50 Hz Australia: 240 V AC, 50 Hz
Power consumption	USA/Canada: 16 W Europe, Australia: 18 W
Dimensions (W x H x D)	483 mm x 94 mm x 309 mm
Weight	4.3 kg

Design and specifications subject to change without notice.
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