

Professional Portable CD Recorder **CDR310**

Marantz is taking CD recording to the next level with the CDR310, the first truly portable, affordable CD-based field recorder. Whether for documentation, duplication, or archiving, audio CDs promote confidence through their permanence and universality. While digital recording and CD burning have been commonplace for several years, existing hardware has lacked the go-anywhere flexibility and ease of use that users have come to expect in the digital age. The CDR310 has changed all that.

The CDR310 frees the user from the constraints of system-based solutions, delivering the same great recording quality in portable field capture as it does in permanent installations. With an on-board hard drive, the compact, lightweight CDR310 records high quality 16-bit audio in CD-DA, WAV, AIFF or MP3 file formats, then can burn a CD instantly, on location. Best of all, the CDR310 has battery operation capability so you can take it anywhere

In addition to the ease of one-touch recording, users will quickly come to appreciate two powerful features of the CDR310 – Background Record



and Adjustable Pre-record modes. Together, these features help ensure that you won't miss a thing – even when a meeting or event starts without warning.

Designed to meet the needs of AV integrators, rental firms, corporate boardrooms, broadcasters, government agencies, and houses of worship, the CDR310 provides outstanding features that are easy to use. When your event is over, just hit the Stop button, and then press the Make CD button. The CDR310 will politely ask if you'd like to burn a CD. Just say yes. The CDR310 does the rest, and everyone goes home happy.

Key Features

- Digital hard disc recording in a variety of formats
- Instant CD burning
- Convenience and portability with one-touch record operation
- Flexible record modes – Pre-Record, Background Record, Silent Skip, Adjustable Auto Track
- Professional hardware from input to output

Digital Recording

On-board hard drive records in your choice of formats: CD-DA, uncompressed WAV and AIFF, or MP3. The system records high quality, 16-bit audio at a 44.1 kHz sample rate, and the hard drive holds up to 110 hours of material (MP3 mono). You simply select the file type before recording, and the CDR310 handles the rest.

Instant CD Burning

At the conclusion of your meeting or event, your audio file can be burned to CD instantly. At the conclusion of recording, simply press the Make CD button and the CDR310 will ask if you want to burn to a CD. Just follow the on-screen prompts, and your disc will be ready in minutes. For events over 80 minutes long in CD-DA format, the CDR310 offers CD Split burning, dividing the contents over multiple discs automatically.

Convenience and Portability

One-touch record operation and an easy-to-read LCD status screen ensure fault-free recording, even for non-technical operators. Its lightweight design and battery operation capability makes the CDR310

equally at home inside an office or out in the field. When there's no wall outlet around, the unit accepts AA alkaline batteries, or optional Ni-Cd and Ni-MH rechargeables. Using the optional RB1651 battery, the CDR310 delivers up to 4 hours of continuous operation.

Multi-mode Recording Features

The CDR310 incorporates Pre-Record mode along with Background Record to capture all the action. By simply powering up, the Pre-Record mode is engaged. This creates a rolling buffer of recorded audio, up to 10 seconds long (user selectable). So if your meeting or event starts unexpectedly, you're protected.

Once the event has begun, the Rec-Pause function activates Background Record mode. If there's a break in the action, just hit Pause. If anything vital happens, it's captured on the CDR310's hard drive. When the meeting officially resumes and you release the Pause control, the CDR310 gives you the option of deciding whether to keep the audio captured during Background Record.

Another easy-to-use option is Silent Skip recording. This function uses voice activation to save disc space by automatically pausing during quiet passages, creating a tighter, more client-friendly recording.

Professional Hardware

Analog line level and balanced high performance XLR microphone inputs are included, as well as S/PDIF-format digital I/O with high quality A-D converters. The CDR310 also provides +48V phantom power, and even has an integrated condenser microphone and playback speaker right on board. Remote control is also available by using the optional RC600PMD.

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Specifications

Digital Audio System

System	CD Recorder
Temporary Recording Media	1-inch HDD (4 GByte)
Writeable CD Disc Media	CD-R (CD-DA, ISO9660)
Channels	2 (Stereo), 1 (Mono)
Recording Audio Format	MPEG Audio Layer III compression
MP3 (.mp3)	16 Bit Linear PCM
WAVE (.wav)	16 Bit Linear PCM
AIFF (.aif)	16 Bit Linear PCM
CD-DA (.cda)	128 kbps / Stereo, 64 kbps / Mono
MP3 Recording Bit Rate	44.1 kHz
Sampling Frequency	MP3: 55 hrs (Stereo), 110 hrs (Mono)
Maximum Recording Time	PCM: 5 hrs (Stereo), 10 hrs (Mono)

Audio Performance

Frequency Response	40 ~ 20,000 Hz (-1dB)
Signal-to-noise Ratio (IEC-A, PCM)	LINE 92 dB, MIC 66 dB
Total Harmonic Distortion (0dB, 1kHz, PCM)	LINE 0.03%, MIC 0.08%
Dynamic Range (0dB, 1kHz, PCM)	88 dB

Inputs

MIC IN L/R	
Type	XLR (1:GND, 2:HOT, 3:COLD)
Input Sensitivity	1 mVrms / 6.5k ohms
Maximum Input Level	70 mVrms (20dB pad off)
Phantom Power	DC +48V, 5 mA
LINE IN L/R	
Type	RCA Jack
Input Sensitivity	500 mVrms / 20k ohms
DIGITAL IN	
Type	RCA Jack, Coaxial
Input Impedance	75 ohms
Standard Input Level	0.5 Vp-p
Sampling Frequency	44.1 kHz
Format	S/PDIF (IEC958 Type II)
REMOTE 1 (Contact Closure)	1/10" (2.5mm) T-R-S mini jack
REMOTE 2 (MIC Remote RC600PMD)	1/8" (3.5mm) T-R-R-S mini jack

Outputs

LINE OUT L/R	
Type	RCA Jack
Standard Output Level	2 Vrms max. / 2k ohms
DIGITAL OUT	
Type	RCA Jack, Coaxial
Output Impedance	75 ohms
Standard Output Level	0.5 Vp-p
Sampling Frequency	44.1 kHz
Format	S/PDIF (IEC958 Type II)
HEADPHONES	
Type	1/4" (6.5mm) Phone Jack
Output Power	8 mW / 32 ohms
SPEAKER	
Output Power	90 mW / 4 ohms

General

DC Power (DA670PMD Only)	DC 15V
Battery	8 x AA, Alkaline / Ni-Cd / Ni-MH
Power Consumption	5 W, DC (Recording / Playback) 0.3 W, DC (Standby)
Battery Life (Alkaline)	4 hours (Typical)
Dimensions	
Width	9.7" (247 mm)
Height	2.4" (60 mm)
Depth	7.2" (184 mm)
Weight (w/o Batteries)	2 lbs. 14 oz (1.3 kg)

Included Accessories

AC Adapter (DA670PMD)	1
8 x AA Battery Holder	1
User's Guide	1

Optional Accessories

Ni-Cd Battery Pack	RB1100
Ni-MH Battery Pack	RB1651
MIC Remote	RC600PMD
Carrying Case	PRC310
Attache Carrying Case	CA200

* Specifications are subject to change without notice.

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