



CD-R/RW + HDD Digital Audio Recorder

CDR-HD1300

The ultimate tool for music lovers. High storage capacity, top-quality sound, versatile editing and CD recording all in one!



RECORDER CDR-HD1300

001 14 3 000 * REC

ALL SYNC ANLG L dB -30 -10 -6 -2 0 GROUP CDRW

HDD CDR

CDR COPY

AMGR



REC

FINALIZE

CD Recorder with Hard Disk Drive lets you do more, and do it more easily: ripping, editing, playback and burning new CDs.

Huge Storage Capacity and High-Speed Ripping

Hard disk holds 120 hours of music
Rip 120 hours of music onto the hard disk at 10x normal speed. Highest digital quality because signal is not compressed.

Record other sources, too
Record LPs, tapes, radio and other sources — then burn them onto CD-Rs for long-term storage.

Do your own editing
A wide range of editing functions makes it easy to create CDs exactly the way you want them.

High-Speed Recording

Making your own CDs is easy and fast
When your perfectly edited music is ready to be recorded from the hard disk, transfer it at 8x normal speed to a CD-R or at 4x to a CD-RW.

Long-Play Convenience

Instant access to your music
Create up to 999 "albums," each with as many as 99 songs, on the HD. The Jog dial makes accessing tracks ultra-fast and easy.

Input and edit titles via PC
Connect a PC to view, create and edit your own disc, album and track titles.*

If listening to music is important to you, the CDR-HD1300 is going to make your life a lot more enjoyable. You can rip 120 hours of music onto the hard disk, then group the songs together in as many as 999 ways for playback and recording. Creating your own personal CD collection is easy and fun.

You'll also appreciate the CDR-HD1300's superb audio quality, high speed operation, versatile functions and fast music access. In fact, the more you use it, the more you'll realize that this is a machine designed by music enthusiasts, for music enthusiasts. Make the most of it!



Extremely High Quality Recording and Playback

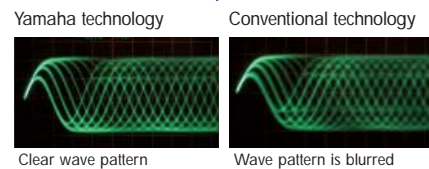
The CDR-HD1300 uses a Linear PCM recording system, which means the music signal is recorded without being compressed, so no quality is lost. In addition, recording from CD to hard disk and back to CD maintains full digital quality throughout the process. A high performance 24-bit D/A converter ensures optimum audio reproduction, and a 24-bit A/D converter is used for best quality analog source recording. And finally, unlike PCs with a hard disk and CD recorder, the CDR-HD1300 is designed exclusively for audio use — all memory and technology is dedicated to maximizing audio quality.



Connect to a TV for an on-screen display that makes inputting titles via the Jog dial easier.

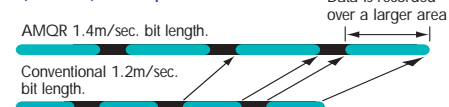
Audio Master Quality Recording

Sound waveform comparison



A clearer wave pattern displays higher sound quality and lack of background jitter.

Audio Master Quality Recording (AMQR) Principle



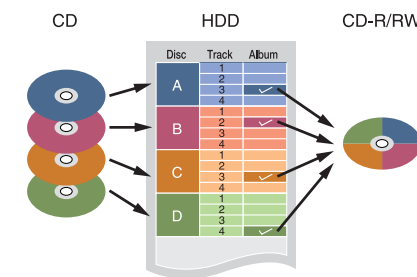
AMQR creates a larger recording area on the disc by using longer bit lengths (1.4m/sec. during playback) than ordinary recording technique. This reduces jitter (timing inaccuracies) by 30% for a clearly audible difference.

This is an exclusive new Yamaha recording process that provides even higher quality when creating CD-R discs. It creates bigger pits and lands (the space between pits), enabling higher recording accuracy. In fact, it raises recording quality to the level of professionally prepared music CDs. The greater capacity demanded by this type of recording requires a hard disk drive, so it is only possible with the CDR-HD1300.

Note: Works in Full Auto Synchro mode and 4x copy speed only. Shortens recording time (74 min. CDR to 63 mins., 79 min. CDR to 68 mins.).

Flexible Editing Functions

The hard disk drive makes it possible to edit the stored music before creating a new CD, unlike ordinary CD recorders which don't let you edit once the music is recorded. The CDR-HD1300 takes full advantage of this



The album functions are a unique advantage of the CDR-HD1300. You bookmark any songs you want on the hard disk, then transfer the bookmarks to a stored playlist called an album. The hard disk can hold up to 999 albums, each with up to 99 songs. Then you can use these albums for playback or for burning new CDs.

ability, offering a large choice of editing features. Individual tracks can be combined, split, faded in/out, moved, erased and more, all with no loss of quality. You can even edit during playback — just press the Menu key and the CDR-HD1300 enters the editing mode. In addition, you can create and edit your own disc, album and track titles via the Jog dial or a PC.*

* For editing with a PC, download the Title Editor software from the Yamaha website.

Handy Album Function

The unique Album function is another CDR-HD1300 advantage. First, you select songs on the hard disk and mark them with bookmarks, even while they are playing. You then transfer the bookmarks to a stored playlist called an Album. The hard disk can hold up to 999 Albums, each with up to 99 songs, made up of any combination of

songs on the hard disk. These personal Albums can then be used for playback or for burning new CDs.

More Editing Convenience

The Bookmark function can also be used when you're playing a single CD loaded into the machine. This lets you copy selected tracks off the CD, instead of the whole disc. There are also a number of Album editing functions available. You can adjust the volume level for each track on an album and the length of the intervals between tracks, shuffle tracks by reassigning track numbers within an album, and more.

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CDR-HD1300



Large Storage Capacity and External Source Recording

Whether you use the CDR-HD1300 for playback or recording (probably for both!) you'll be delighted at how much music it holds. You can record 120 CDs worth of music onto the 80-gigabyte hard disk. And unlike most HDD music servers, the CDR-HD1300 also lets you record other sources, such as long radio broadcasts, tapes or records. In fact, this is a great way to archive your old music sources — record them onto high quality, non-degradable CD-R/RW discs.

Fast Recording, Quick Access to Music

Recording this much music is a great advantage, but won't it take a long time? Actually, no it won't, because the CDR-HD1300 copies the music data onto the hard disk at 10 times normal speed. So a CD only takes five or six minutes to input. Making new CDs is fast, too: eight times normal speed onto CD-Rs and four times faster onto CD-RWs. But your favorite feature of all may well be the Jog dial. Just a flick of the wrist lets you select any disc, album or song for instant play — it's even faster and easier than ordinary CD players.

More Recording Convenience

The CDR-HD1300 offers timer recording compatibility so the power can be turned on and off automatically when using an external audio timer. This lets you record radio programs when you're away or just be sure you don't miss them. There's also a Synchronized Recording mode with adjustable parameters for detecting track intervals.

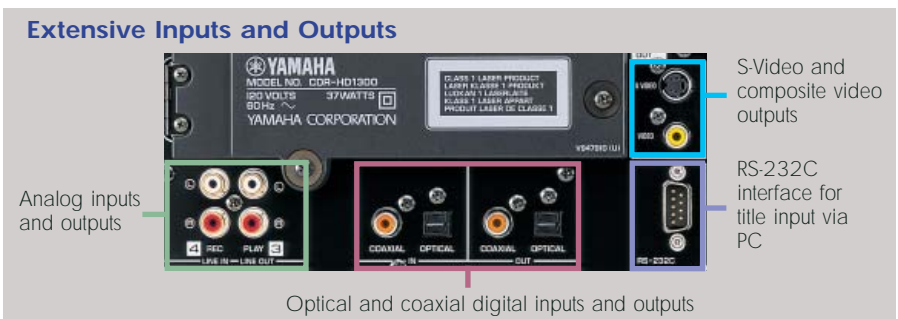
Other Notable Features

- On-screen display (on TV) lets you view disc, album and track titles (also shown on panel display).
- Title input with PC (via RS-232C terminal)*.

- Time search — useful for searching long recordings, such as those recorded from the radio.
- Digital and analog recording level control.
- Automatic synchronized sampling rate conversion: 96kHz, 48kHz, 44.1kHz, 32kHz.
- Copyright protection
 - SCMS (Serial Copy Management System).
 - Digital Move — transfers copy-protected data from the hard disk to a blank disc, then erases it from the hard disk.
 - Analog copy — copy onto a blank disc, data remains on hard disk.



*For editing with a PC, download the Title Editor software from the Yamaha website (www.yamaha.co.jp/).



CDR-HD1300 Advantages

Advantages over dual-tray CD recorders:

- CD recorder has no storage capacity
- Editing capability
- Approx. 120 hours recording time for playback and later editing

Advantages over disc changers:

- Changer requires much mechanical movement

- Hard disk offers nearly instant access to music
- More editing features

Advantages over PCs with CD recorders:

- No compression means higher sound quality
- Very low error rate during audio copying

- Exclusively audio so there is no interruption or conflict with other functions
- Highest quality interface (24-bit D/A and A/D converters)
- Full HD memory is used for audio storage and editing
- Designed to be part of an audio system
- Quick setup and easy operation

CDR-HD1300 Specifications

- Frequency Response: 5 – 20,000 Hz \pm 0.5 dB
- Playback S/N Ratio: 105 dB • Playback Dynamic Range: 99 dB
- Playback THD + Noise: 0.004% • Recording S/N Ratio: 92 dB
- Recording Dynamic Range: 92 dB • Recording THD + Noise: 0.006%
- Dimensions (W x H x D): 435 x 116 x 415 mm;
17-1/8" x 4-9/16" x 16-5/16" • Weight: 7.8 kg; 17.2 lbs.



- Product designs and specifications are subject to change without notice.

For details please contact:

Visit us at our website:
<http://www.yamaha.co.jp/>



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YAMAHA CORPORATION
P.O. Box 1, Hamamatsu, Japan

A1173UEN

10207 T Printed in Japan