

FIRST WE LISTEN

HHB CD RECORDERS AND CD-R/ CD-RW MEDIA

ADVANCED HARDWARE
Dependable media

Nobody knows more about professional audio CD recording than HHB. Not only are our HHB CDR850 and CDR850 PLUS the most comprehensively equipped and best-sounding CD Recorders in their respective classes, but our range of HHB CD-R and CD-RW recording media sets the standards for performance, compatibility and long-term archival security. Only HHB discs are designed specifically for professional audio applications, manufactured to exacting tolerances using advanced recording dyes and substrates to ensure consistently low block error rates and secure archival lives of up to 100 years or more. Furthermore, HHB CD-R and CD-RW discs are extensively tested on every popular professional audio recorder to ensure the highest levels of compatibility. Remember, most manufacturers optimise their discs for use in computer CD writers for data storage applications. At HHB, it's audio that comes first. HHB CD-R and CD-RW recording media. Don't trust your valuable recordings to anything less.



CDR74 GOLD

World's first audio-optimised CD-R disc, with gold reflective layer • Specially formulated Phthalocyanine stable organic dye recording material for exceptional recording accuracy • Secure archival life greater than 100 years



CDR74 SILVER

Audio-optimised disc with silver reflective layer • Increased reflectivity results in widespread recorder / player compatibility • Phthalocyanine recording layer • Archival life greater than 100 years



CDR74 SILVER P

Printable version of CDR74 Silver • Improved printing surface suitable for use with all inkjet printers including Affex, Copytrax, Fargo and IMT

HHB's audio-optimised discs set the standards for performance, compatibility and long-term archival security.

CDR80 SILVER BULK



Unbranded version of new CDR80 Silver (see below) • Supplied in convenient, 50 disc Cake Packs • Master carton contains 5 Cake Packs (250 discs total) • Ideal for users who wish to add their own graphics or labelling • Fully Orange Book compatible



CDR80 SILVER

Fully Orange Book compatible 79 mins 59 secs disc • 1x to 12x speed • Compatible with a wide range of recorders and players • Second generation Phthalocyanine dye for high recording accuracy • Secure archival life of 200 years



CDRW74

Advanced rewritable disc • Specially formulated Silver-Indium-Antimony-Tellurium phase-change recording material allows more than 1000 erase / rewrite cycles • Secure archival life of 100 years



CDRW80

Exceptional direct over write performance • 79 minutes 59 seconds recording time • Advanced phase-change recording layer for compatibility with a wide range of recorders and players • Secure archival life of 100 years

HHB CDR850. The most

COMPACT DISC RECORDER CDR850

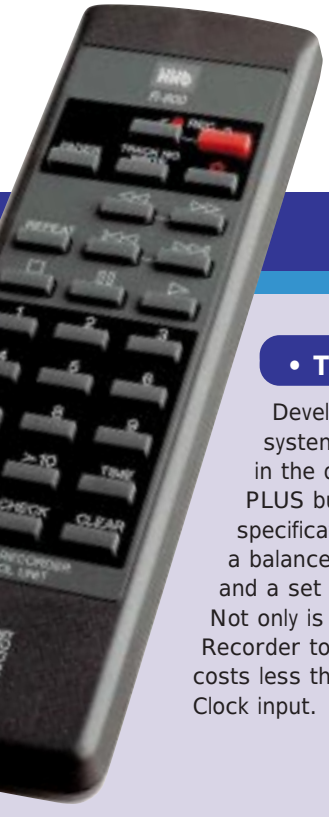
• DESIGNED AND BUILT FOR PROFESSIONAL USE

Low media costs, excellent sound quality and a CD player in almost every home, office and car has made CD-R an industry standard format for audio professionals. One professional CD Recorder has established an international reputation for sound quality, reliability and performance: The HHB CDR850. Designed and engineered without compromise to withstand the punishment of serious, professional use, the CDR850 is one of the most comprehensively equipped CD Recorders in the business, and almost certainly the easiest to operate.



• THE CDR850 MAKES CD RECORDING SIMPLE

Capable of recording on both CD-R and CD-RW discs, the CDR850's flexible feature set and intuitive user interface have been developed in close consultation with leading audio professionals working in a variety of applications. All of the main functions are immediately accessible via the front panel menu and a series of one-touch buttons. Four digital recording modes, a built-in sample rate converter and complete control over copy protection status make it ideal for use in music recording, broadcast and live applications. Both analogue and digital interfacing is provided at the rear of the recorder, with front panel switchable input and output levels to provide complete audio integration. The large LCD screen, combined with the tri-coloured LED, ensures the user is always kept informed of the CDR850's status, displaying track numbers, timing information and level margins in 1dB increments.



Infra red remote control is supplied as standard.

• FOUR DIGITAL RECORDING MODES

In addition to analogue recording, there are four digital recording modes on the CDR850, easily accessible using the DIGITAL SYNCHRO button on the front panel. Modes 1 and 2 allow automatic digital synchro recordings using either the optical or coaxial SPDIF inputs, ideal for compiling a CD from another CD, DAT, MD, DCC or DVD. All track ID information is transferred to the recorded disc, whether recording track by track (Mode 1) or the entire disc at once (Mode 2). Mode 3 will automatically record and finalize entire CDs; even when left unattended. The manual digital recording mode (Mode 4) is designed for recording digital signals from any other source via the AES/ EBU or SPDIF inputs. In this mode, the

NEW HHB CDR850 PLUS: AN ADVANCED VERSI

• THE BEST GETS BETTER

Developed specifically for use in digital systems in which the audio remains entirely in the digital domain, the new HHB CDR850 PLUS builds on the already impressive specification of the standard CDR850, adding a balanced digital output, a Word Clock input and a set of clock source selector switches. Not only is the CDR850 PLUS the first CD Recorder to feature a Word Clock input, it also costs less than any other CD player with a Word Clock input.

• WORD CLOCK INPUT

The CDR850 PLUS's 44.1kHz Word Clock input enables the recorder's master clock to be sourced from one of a number of digital clock signals, ensuring the digital output will always be synchronised with glitch-free playback. This is essential in digital installations, where any number of recorders and other equipment may need to be synchronised to a house clock, for example, when using the Yamaha 02R digital mixer. There are four dip switches on the rear panel of the CDR850 PLUS, enabling selection of the recorder's master clock source via the Word Clock input, AES/ EBU input, SPDIF coaxial and optical inputs, or the recorder's internal clock.

comprehensively equipped CD recor

The CDR850 makes CD recording simple, with



CDR850 behaves like a conventional cassette recorder, with standard transport controls on the front panel and the infra red remote control, while featuring the additional advantage of auto track increment on level (with rehearse mode). When using rewritable discs the CDR850 has four different erase modes; last track or all tracks to be erased, disc to be unfinalized or whole disc erased.



Full analogue and digital connectivity is just one of the reasons why the CDR850 leads the field.

• COMPLETE SIGNAL INTERFACING

Take a look at the back panel of any similarly priced CD Recorder and you'll soon see why the HHB CDR850 leads the field. The CDR850 is the only CD Recorder in its class to feature both balanced XLR and unbalanced RCA phono analogue inputs and outputs, along with coaxial and optical SPDIF digital inputs and outputs. The large front panel rotary control selects the required signal input, with separate variable control over the L/ R analogue recording levels. A balanced AES/ EBU digital input is also provided via an XLR connector, ensuring complete audio interfacing. The analogue XLR output level is switchable directly from the front panel menu from -8dBu to +4dBu, enabling the

ON OF THE CDR850 DEVELOPED SPECIFICALLY FOR 'ALL DIGI

The CDR850 PLUS adds a Word Clock input and balanced digital output to the CDR850's already impressive connectivity.



der in its class.

all major functions easily accessible from the front panel.



CDR850 to be correctly interfaced with both consumer and professional equipment.

• SAMPLE RATE CONVERSION

The CDR850's built-in sample rate converter has the ability to convert any digital sample rate, from 32kHz to 48kHz, into 44.1kHz needed for the CD format. Even digital signals from varispeed CD players will be perfectly converted. The SRC can be switched out of the signal path when the input sample rate is 44.1kHz, allowing an absolute 1:1 copy of the input to be made.

TAL' APPLICATIONS

• BALANCED DIGITAL OUTPUT

The CDR850 PLUS features a balanced digital output on an XLR connector, allowing the greater cable lengths necessary in larger installations without the inherent signal interference. This digital output adds to the already extensive signal interfacing of the CDR850, incorporating balanced XLR and unbalanced RCA phono analogue inputs and outputs, optical and coaxial SPDIF digital inputs and outputs and a balanced AES/ EBU digital input. The balanced digital output will also transmit track ID information.

MENU FUNCTIONS

EASY ACCESS MENU FUNCTIONS

The menu button provides instant access to a full complement of professional features, making the HHB CDR850 one of the most comprehensively equipped professional CD Recorders available.



COPY PROHIBIT

The CDR850's Serial Copy Management System provides total control over copy protection status. As it is a professional recorder, the copy protection status at the digital input is ignored, but the copy status written to disc can be no copy, one copy or multiple copies.



THREE MODES AUTO STOP DELAY

This time saving feature, used in the Digital Synchro recording mode, will stop the CDR850 recording when it detects silence for an adjustable length of time. When auto stop delay is switched off, recording will continue, however long the input signal is silent.



FADE IN / OUT

The digital linear fade in or out for each track on the disc can be adjusted during recording, with fade times ranging from 6 to 18 seconds. The fade in / out function is accessed via the fade button on the remote control.



AUTO THRESHOLD TRACK INCREMENT

Comparable to the Auto ID setting on a DAT recorder, the HHB CDR850 may be set to automatically trigger a new track number when the audio input reaches a certain level threshold, variable from -66dBFS to -36dBFS. Track starts may also be written manually with a single button press.



AUTO PAUSE

The HHB CDR850 is one of the few top end CD Recorders to feature this playback function, where the CD-R can be set to pause after playing a track. This provides an accurate way of ensuring that only the required track is played and not the beginning of the following track.



OUTPUT LEVEL CONTROL

The overall output level from the CDR850 is +4dBu/ -8dBu switchable from the menu, providing total flexibility when connecting the recorder to other audio equipment, both professional and consumer.



INFRA RED REMOTE CONTROL

Production and mastering houses often contain several CD Recorders and, although it may be useful to control them all with one remote, it may be preferable to control one recorder separately. The HHB CDR850 provides the flexibility to switch the infra red remote control on or off.



SAMPLE RATE CONVERTER

The CDR850's built-in switchable sample rate converter accepts any sample rate from 32kHz up to 48kHz, including varispeed. With a digital input at 44.1kHz, the sample rate converter can be switched off to allow the signal to be recorded as an exact copy of the input signal.



DIGITAL OUTPUT ON / OFF

The CDR850 allows the digital outputs to be switched off from the front panel menu rather than by disconnecting them at the rear of the recorder, preventing digital clock 'howlround' when linking audio equipment in a loop via a digital interface.

TECHNICAL DATA

CDR850 / CDR850 PLUS



HHB CDR850 / 850 PLUS

GENERAL

Format. . . . . Compact disc recordable
Compatible discs . . . . . CD (playback), CD-R and CD-RW
Channels . . . . . 2 (stereo)
Power supply European model AC230V, 50/ 60Hz
U.S. / Canadian model AC120V, 60Hz
Power consumption 24W
Operating temperature . . . . . +5°C to +35°C (+41°F to +95°F)
Weight (without packaging). 7.0kg (15.4lbs)
Weight (with packaging). 9.0kg (19.8lbs)
Maximum dimensions (WxDxH) 482 x 393 x 89 (105 with feet) mm
19.0 x 15.5 x 3.5 (4.1 with feet) inches
Remote control connector . . . . . 8 pin DIN
Accessories. . Power cord, remote control unit, 2 x AAA/ R03 dry cell batteries, 2 x audio cables, operating instructions, HHB CDR74 Silver disc, HHB recording media guide, HHB registration card.

AUDIO

Frequency response . . . . . 2Hz to 20kHz ±1dB
XLR output level (0dBFS, >10kΩ load) . . . . . 20dBu ±1dB
RCA output level (0dBFS, >10kΩ load) . . . . . 8dBu ±1dB
Wow & flutter . . . . . Unmeasurable

Playback

Signal to noise ratio 109dB
Dynamic range 98dB
Total harmonic distortion 0.0022%

Recording (analogue input)

Signal to noise ratio 92dB
Dynamic range 93dB
Total harmonic distortion 0.006%

Recording (digital SPDIF input)

Signal to noise ratio 108dB
Dynamic range 97dB
Total harmonic distortion 0.0022%
All measurements are to EIAJ standards.

I/ O CONNECTIONS

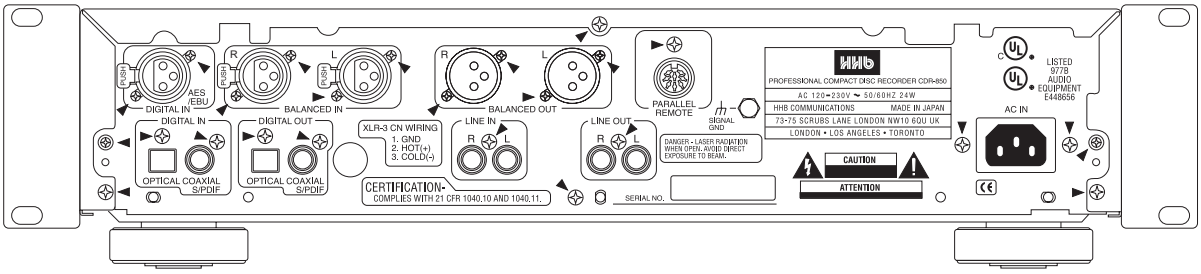
Analogue connectors

Balanced line input . . . . . XLR-3 (input impedance 10kΩ) nominal level +4/ -8dBu switchable
Balanced line output . . . . XLR-3, nominal level +4/ -8dBu (menu selectable)
Unbalanced line input . . . . . RCA phono (input impedance 10kΩ)
Unbalanced line output . . . . . RCA phono
Headphone output. . . . . 1/ 4" stereo jack

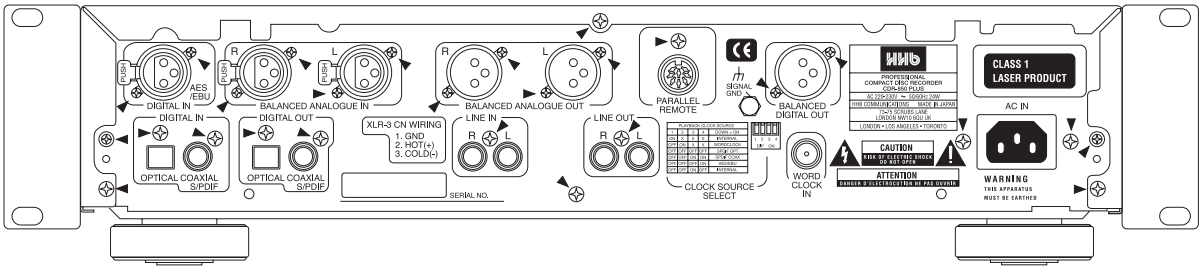
Digital connectors

Optical digital input (SPDIF) . . Optical wavelength 660nm ±30nm
Optical digital output (SPDIF) . Optical wavelength 660nm ±30nm
Coaxial digital input (SPDIF) . . . . RCA phono, 75Ω IEC958 type II
Coaxial digital output (SPDIF) . . . RCA phono, 75Ω IEC958 type II
Balanced digital input (AES/ EBU) XLR-3, 110Ω AES3-1992
Balanced digital output (CDR850 PLUS only) XLR-3, 110Ω IEC958 type II
Word Clock input (CDR850 PLUS only). . . . BNC, 75Ω, 44.1kHz

HHB CDR850



HHB CDR850 PLUS



HHB CDR850 REVIEWS

'A well made, good sounding CD Recorder with straightforward intuitive operation.' **EQ, May 1999**

'It is solid, reliable, predictable and dependable - everything a professional demands.' **Sound On Sound, May 1999**

'The unit delivers a wide range of features at a great price.' **Audio Media, May 1999**

'An excellent CD Recorder. Very well specified for the price.' **The Mix, June 1999**

'You have to consider it if you are after the best. Recommended.' **Studio Sound, April 1999**

'The CDR850 from HHB, with its practical and user friendly features that go beyond the basic functions, is a winner.' **Recording, July 1999**

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