

SONY®

CDR-W66

CD RECORDER



The CDR-W66 has been designed specifically for professional production applications. In addition to its advanced DSP pre-mastering capabilities, the CDR-W66 features a unique 32kHz-96kHz range sample rate converter. This makes the CDR-W66 suitable for recording from higher sample rate sources, which are becoming increasingly common with the advent of higher-resolution music recording formats.



Main Features

Super Bit Mapping (SBM) Technology

SBM has been a feature of Sony DAT recorders for many years, and is also adopted in the CDR-W66 to provide high sound quality equivalent to a 20-bit digital recording from an analog input source and AES/EBU.

24-bit A/D and D/A conversion

The A/D and D/A converters of the CDR-W66 operate at a resolution of 24 bits, maximizing the advantages of the SBM process.

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Digital Limiter and Equalizer

A digital limiter and equalizer are available for use when the input signal is from an analog source.

- Digital Limiter

The algorithm of the digital limiter increases the average signal level and smoothly

limits signal peaks. The limiting ratio is adjustable up to 100%, at which setting the gain is increased by 6 dB.

- Digital Equalizer

A 3-band (Bass/Mid/Treble) parametric equalizer provides up to ± 6 dB of correction (in 1 dB steps)

Flexible digital I/O

AES/EBU, coaxial and optical digital I/Os are provided.

CD Text entry

A CD Text function allows disc and track titles to be entered using an optional PC keyboard, the supplied remote control unit or the buttons and rotary encoder on the front panel. This text can be read on any CD Text capable player.

Other features

2x finalizing

Fade In/Out Recording, Record Mute

Music Sync Record, Auto Track Marking functions

Shuffle Play, Repeat Play, Auto Pause and Music Scan functions

32/44.1/48 kHz input signals accepted via built-in sample rate converter

44.1 kHz signals accepted without rate conversion

Supplied Wired/IR Remote Control Unit

Parallel Remote Connector

Word sync Input

Recommended applicable media, CD-R for Digital Audio and CD-RW for Digital Audio

Play 12cm CD, and 8cm CD without an adapter

PC keyboard control function

As well as enabling CD Text to be entered, an optional PS/2 keyboard also provides remote control of Play, Pause, Stop, FF, Rew and AMS+/AMS- functions.

Rec level adjustment

Record level adjustment is available on both digital and analog inputs. The analog input level can be adjusted using a knob located on the front panel. Alternatively, the analog level and the L/R balance can be set through the use of the set-up menu accessed via the remote control. Digital input levels are adjustable via the set-up menu.

2x speed duplication

Two CDR-W66 units can be interconnected via their Duplicate I/O connector for disc copying at twice normal speed.

Rear Panel



The CDR-W66 is designed for mid to high-end recording studios and broadcast production like television and radio. This recorder incorporate several unique features, selectable DSP functions like Parametric EQ, Limiter & SBM (Super Bit Mapping), and high quality 24-bit AD/DA conversion. Two machines can be connected for high-speed dubbing, allowing even greater productivity. With balanced XLR analog inputs, an AES/EBU interface, and Word Clock input for full digital synchronization, the CDR-W66 provides a fully featured system that fulfills the needs of the most demanding professionals.

Front Panel



Supplied Wired/IR Remote Control Unit RM-CW1

The supplied RM-CW1 dual mode Remote Control Unit connects to the 3.5mm Control-S jack with a supplied 5 m cable, but also operates as a conventional IR remote when not connected to this jack.



Remotes

- Control S :** 3.5 mm jack
- Parallel remote :** 9-pin D-sub, female (milli standard)
input-TTL, 10V max
output-open collector 100 mA max
- RS-232C :** 9-pin D-sub, male (inch standard)

Pin assignment of PARALLEL REMOTE port

Functions are assigned as follows.
The alternative functions are assigned via the SETUP menu.

Pin		Preset Function	Alternative Functions
1	INPUT	PLAY	PLAY, PAUSE, REC, REC MUTE,
2	INPUT	PAUSE	MUSIC SYNC, STOP, AMS+,
3	INPUT	STOP	AMS-, FF, REW, OPEN/CLOSE
4	INPUT	AMS+	TRACK PLAY(1Tr-25Tr),
5	INPUT	AMS-	FADER PLAY, OFF
6	GND		
7	OUTPUT	PLAY	PLAY, PAUSE, REC
8	OUTPUT	PAUSE	REC PAUSE, REC MUTE,
9	OUTPUT	NO DISC	NO DISC, OFF

Specifications

Inputs

	Connector type	Reference level	Maximum level	Impedance
Analog Line In	XLR-3-31 Phono	+4 dBu -4 dBu	+24 dBu +12 dBu	30 k Ω 47 k Ω
Digital ABS/EBU In	XLR-3-31			110 k Ω
Digital Coaxial In	Phono	0.5 Vp-p \pm 20% Format: consumer IEC 60958		75 Ω
Digital Optical In	Square optical connector Format: consumer IEC 60958			Optical wave length:660 nm

Outputs

	Connector type	Reference level	Maximum level	Load impedance
Analog Line Out	XLR-3-32 Phono		+24 dBu +8 dBu	More than 600 Ω More than 10 k Ω
Digital ABS/EBU Out	XLR-3-32			110 k Ω
Digital Coaxial Out	Phono	0.5 Vp-p Format: consumer IEC 60958		75 Ω
Digital Optical Out	Square optical connector Format: consumer IEC 60958	-18 dBm (optical power)		Optical wave length:660 nm
Phones	Stereo jack	0-10 mW adjustable		32 Ω

General

System	: CD Recorder
Number of channel	: 2
Sampling frequency	: 44.1 kHz
Sampling rate converter	: COAXIAL/OPTICAL 32/ 44.1/ 48 kHz AES/EBU 32 k to 96 kHz
Recording formalities	: Track At Once (TAO)
Power requirements	: 120/230 V AC, 50/60 Hz
Power consumption	: 26 W
Operating temperature	: + 5 - + 35 $^{\circ}$ C
Storage temperature	: - 5 - + 60 $^{\circ}$ C
Mass	: 5.2 kg (11 lbs 8 oz)
Dimensions	: 482(W) x 88(H) x 290(D) mm (19 x 3 1/2 x 11 3/8 in.)
Supplied accessory	: Wired/IR Remote Control Unit RM-CW1 CTRL-S Connecting Cable
Audio performance	
Frequency response	: 20Hz - 20kHz +0/-1.0 dB
Dynamic range	: 98 dB (Playback), 92 dB(Recording and Playback)
S/N ratio	: 98 dB(Playback), 92 dB(Recording and Playback)(A-weighted)
Wow and flutter	: below measurable limits
Remote connectors	
Control-S	: 3.5 mm mini jack
Parallel remote	: 9-pin D-sub, female
RS-232C	: 9-pin D-sub, male

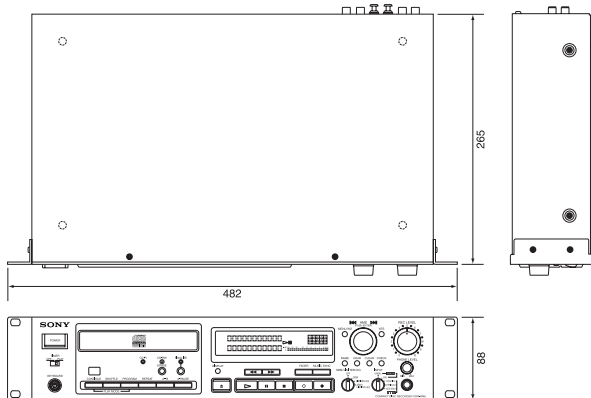
Other connectors

Duplicate I/O	: 8-pin DIN, female
Word sync In	: BNC
Keyboard In	: 6-pin mini DIN, female

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Dimensions(Unit:mm)



Mounting the unit

This unit can be attached to a standard 19 inch rack (type EIA). After detaching the four feet on the bottom of the unit, mount the unit on the rack.

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