

SONY®

MDS-E11 MiniDisc Recorder

The Sony MDS-E11, a compact and versatile professional MiniDisc stereo recorder. Its space-saving design features analog and digital I/O as well as comprehensive remote control connections. Wide Bit Stream technology provides superb audio quality.



Wide Bit Stream technology

Handling signals during digital processing at a resolution of 20 bits brings a dramatic improvement in the accuracy with which ultra-low level signals are processed. This brings the benefit of higher quality recordings with a wider dynamic range.

Flexible input/output interfacing

Both unbalanced (phono) and balanced (XLR) connectors are provided for the analog inputs and outputs, allowing the MDS-E11 to be directly interfaced to just about any system.

Coaxial connectors (phono) are provided for the IEC 958 type II digital inputs and outputs.

Precision sampling rate converter

The internal sampling rate converter automatically converts the sampling frequency of the input to 44.1 kHz, using 18-bit accurate processing. This resampling process minimizes jitter and enables any digital source to be directly transferred to MiniDisc.

Automatic pause function

When playback of a track is complete, the MDS-E11 automatically enters Pause mode at the start of the next track. This is a useful feature when playing back narrations or sound effects one by one. In conjunction with the Program or Repeat functions, this is also useful when practicing an instrument.

Long-duration sequential recording/playback

By connecting the Relay Play inputs and outputs of several MDS-E11 units, uninterrupted sequential recording or play back using multiple discs becomes available. This allow the MDS-E11 to be used for recording long duration live performances and meetings, or for playing back continuous background music.

Wired/wireless remote control option

As well as the infra-red wireless remote control unit supplied with the MDS-E11, the optional RM-D5ME Remote Control Unit is also available to provide enhanced control flexibility. This optional unit can be used in either IR wireless mode or connected to the recorder's CONTROL S port via its 5 m cable. Wired remote control is particularly suitable for use in installations with multiple recorders.

Comprehensive remote control

In addition to an RS-232C control, the MDS-E11 features a parallel remote control port. This can be user-assigned to control and monitor several functions of the machine.

Fader start function with an audio mixer is available through the parallel remote.



Other features

- *Up to 148 minutes of mono recording/playback time
- *CD synchro recording capability with Sony CD players
The Music Synchro Recording function is also supported for use with other manufacturers' CD players
- *Fully-featured TOC EDIT functions, including UNDO / DIVIDE / COMBINE
- *Timer playback and recording, using an external timer
- *SCMS is available in

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Although only 1U high, the MDS-E11 incorporates many professional features - from 20-bit technology to comprehensive functions that include Fader Start and a wired remote control capability. Digital and balanced analog I/O combined with ease of operation make the MDS-E11 an ideal choice for a broad range of applications, from producing demo discs to theater and recording studio use.

Front Panel



Option

Remote Control Unit RM-D5ME

The RM-D5ME has the same control functions as RM-D7M supplied remote commander.

This unit is connected to the CTRL-S terminal on the MDS-E11, and supplied with the cable of 5 m length.

Please note while a plug of RM-D5ME is connected to the CTRL-S terminal of MDS-E11, a infrared sensor on front panel of the E11 is not available.



Remotes

- Control S : 3.5 mm jack
- Parallel remote : input-TTL, 10 V max, programmable output-open collector, max current 100 mA connector-9-pin D-sub
- RS-232C: 9-pin D-sub
- Relay Record/Play : Output / Record In / Play In 3.5 mm jack x 3

Pin assignment of parallel remote port

PRESET Pin No.	PRESET is set at ex-factory	
	Normal	Named at SET UP MENU
1 INPUT	PLAY/PAUSE	PIN1
2 INPUT	REC	PIN2
3 INPUT	STOP	PIN3
4 INPUT	AMS+	PIN4
5 INPUT	AMS-	PIN5
6	GND	
7 OUTPUT	REC	POUT1
8 OUTPUT	PLAY	POUT2
9 OUTPUT	PAUSE	POUT3

*Below functions can be assigned by using "SET UP MENU"

Pin No.1-5(INPUT)

POWER ON	PLAY	AMS+	EJECT
POWER OFF	PAUSE	AMS-	M.SYNC
POWER ON/OFF	STOP	FF	T.REC
PLAY/PAUSE	REC	REW	OFF

Pin No.7-9(OUTPUT)

POWER	PLAY	NO DISC
REC	PAUSE	OFF

Rear Panel



Specifications

Inputs

	Connector type	Input impedance	Rated input	Maximum input
ANALOG LINE IN	Phono	47 k Ω	-4 dBu	+12 dBu
	XLR-3-31	More than 10 k Ω	+4 dBu	+24 dBu
DIGITAL COAXIAL IN	Phono	75 Ω	0.5 Vp-p $\pm 20\%$	

Outputs

	Connector type	Rated output	Load impedance
PHONES	Stereo phone	0-10 mW The level varies.	32 Ω
ANALOG LINE OUT	Phono	Maximum +8 dBu	More than 10 k Ω
	XLR-3-32	+10/+24 dBu (switchable)	More than 600 Ω
DIGITAL COAXIAL OUT	Phono	0.5 Vp-p (at 75 Ω)	75 Ω

General

System :	MiniDisc Digital Audio System
Laser :	semiconductor GaAlAs laser ($\lambda = 780\text{nm}$)
Laser output :	less than 44.6 μW
Rotational speed :	400 to 900 rpm
Sampling frequency :	44.1 kHz
Coding :	Adaptive Transform Acoustic Coding (ATRAC)
Wow and flutter :	below measurable limits
Frequency response :	5 - 20,000 Hz ± 0.5 dB
Dynamic range :	digital, 97 dB / analog, 92 dB
S/N ratio :	digital, 96 dB / analog, 92 dB
Power requirements :	120/230 V AC, 50/60 Hz
Power consumption :	15 W (AC 230 V), 14 W (AC 120 V)
Mass :	5.3 kg
Dimensions :	482 (W) x 44 (H) x 376 (D) mm
Supplied accessory :	IR Remote Commander RM-D7M(1)
Optional accessory :	Wired/IR Remote Commander RM-D5ME

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OdBu=0.775Vrms

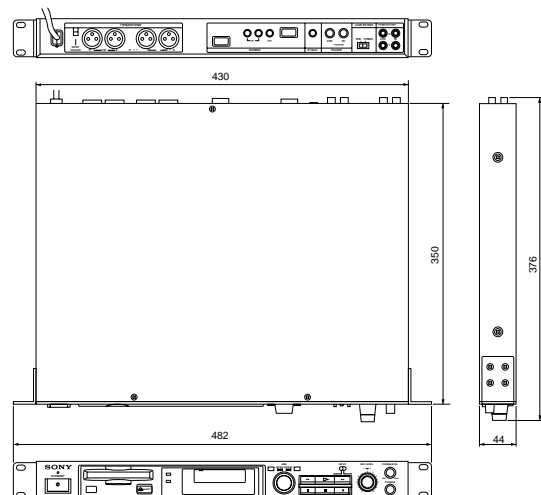
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Mounting the unit

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.

Dimensions (Unit:mm)



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