The Sony MDS-E10 is a rack-mountable MiniDisc Recorder that has the flexibility for use in a broad range of environments. It features Vari-speed playback, digital and analog I/O, and includes a Track Multi Access function.
Main Features

ATRAC Type “R” technology
The latest version of ATRAC encode/decode DSP provides excellent recording and playback quality.

Wide Bit Stream technology for 20-bit precision
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 recording quality, with a wider dynamic range.

Flexible input/output interfacing
Both coaxial and optical connectors are provided for the IEC 60958 type II digital inputs and outputs. Unbalanced phono connections are included for analog input and output signals.

Rec level adjustment
Record level adjustable on both digital and analog inputs.
- Analog: Knob on rear panel / Set-up menu in digital domain, adjustable L/R balance
- Digital: Set-up menu in digital domain

LP stereo recording mode
Incorporating the MDLP2/4* standard, the MDS-E10 can record and playback in stereo for up to 320 minutes on an 80-minute disc. This is a very useful feature for recording extended meetings or conference proceedings, and for playback in PA applications.

10-point Multi Access function (Hot Start)
The first few seconds of up to 10 tracks are held in memory to provide an instant, hot start, from any of these tracks.

Vari-speed function
Provides variable-speed playback over a range of ±12.5%, in 0.5% steps. When playing back an MDLP2/4 recording, the Vari-speed range is +0 to -12.5%, in 0.5% steps.

Other features
- Supplied Wired/IR Remote Controller
- 24-bit AD/DA Converter
- AUTO CUE/AUTO PAUSE/AC TIMER functions
- Mono Recording (not available in MDLP2/4)
- Time Machine Recording (max. 6 seconds)
- Music Sync Recording
- Next Track Play allows the next track for playback to be pre-selected
- Shuffle Play, Program Play, All Track Repeat Play, 1 Track Repeat Play, A-B Repeat Play
- Mark and Locate Play
- Fluorescent display for excellent legibility

Editing functions
COMBINE/MULTI** TRACK COMBINE/DIVIDE/UNDO
ERASE : ALL/TRACK/A-B/MULTI** TRACK
NAME : IN/ERASE/ALL ERASE/COPY/ALL COPY
**MULTI means effective on several tracks at the same time.

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Operation using a PC keyboard.
An optional PC-compatible keyboard with a PS/2® interface can be connected for track naming, and to provide the same functions as the wired/IR remote commander.

Auto Track Marking
When a single, long duration track is recorded, these features allow the track to be divided into segments of identical duration using Auto Track marking. Segment duration can be set to be between 1 and 10 minutes.

SF Edit
This feature enables recorded sound levels to be adjusted by rewriting tracks with a revised sound level. Fade In and Fade Out can also be added to recorded tracks. (SF Edit is not available in MDLP2/4 mode.)

RAM Edit
The TOC of a disc, even a protected master disc, can be copied to RAM and edited.

*MDLP2/4: MDLP provides two modes (MDLP2, MDLP4), 2x and 4x recording time. This recording format adopts ATRAC3 Technology.
The Sony MDS-E10 is a rack-mountable MiniDisc Recorder that has the flexibility for use in a broad range of environments. It features Vari-speed playback, digital and analog I/O, and includes a Track Multi Access function. In MDLP mode, using compression technology from the ATRAC3 format provides greatly extended recording times on a standard MiniDisc. Just 1U high, the MDS-E10 combines all these features with easy operation, a dual advantage that makes it the natural choice in many audio recording applications.

Front Panel

Supplied Remote Control Unit
RM-DR1E

The RM-DR1E dual mode remote controller connects to the 3.5 mm Control-S jack with a supplied 5 m cable, but also operates as a conventional IR remote when not connected to the Control-S jack.

Remote
Control S : 3.5 mm jack
## Specifications

**Inputs**

<table>
<thead>
<tr>
<th>Channel type</th>
<th>Reference level</th>
<th>Maximum level</th>
<th>Impedance</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANALOG LINE IN</td>
<td>Phono, -10 dBu</td>
<td>+12 dBu</td>
<td>47 Ω</td>
</tr>
<tr>
<td>DIGITAL COAXIAL IN</td>
<td>Phono, 0.5 Vp-p ±20%</td>
<td></td>
<td>75 Ω</td>
</tr>
<tr>
<td>DIGITAL OPTICAL IN</td>
<td>Square optical connector</td>
<td></td>
<td>Optical wave length: 660 nm</td>
</tr>
</tbody>
</table>

**Outputs**

<table>
<thead>
<tr>
<th>Channel type</th>
<th>Reference level</th>
<th>Maximum level</th>
<th>Load impedance</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANALOG LINE OUT</td>
<td>Phono, -10 dBu</td>
<td>+8 dBu</td>
<td>More than 10 kΩ</td>
</tr>
<tr>
<td>DIGITAL COAXIAL OUT</td>
<td>Phono, 0.5 Vp-p</td>
<td></td>
<td>75 Ω</td>
</tr>
<tr>
<td>DIGITAL OPTICAL OUT</td>
<td>Square optical connector</td>
<td>-18 dBm (optical power)</td>
<td>Optical wave length: 660 nm</td>
</tr>
</tbody>
</table>

**MDS-E10**

**MiniDisc Recorder**

**General**

- **System**: MiniDisc Digital Audio System
- **Number of Channels**: 2 Channels
- **Laser**: semiconductor GaAlAs laser (λ = 780nm)
- **Rotational speed**: 400 – 900 rpm
- **Sampling frequency**: 44.1 kHz
- **Coding**: Adaptive Transform Acoustic Coding
  - Type R/ATRAC-R/ATRAC3
- **Wow and flutter**: below measurable limits
- **Frequency response**: 5 – 20 kHz ±0.5 dB
- **Dynamic range**: digital, 100 dB / analog, 98 dB
- **S/N ratio**: digital, 100 dB / analog, 98 dB
- **Power requirement**: 120 V AC, 60 Hz
- **Power consumption**: 18 W
- **Operating temperature**: 0 °C – 40 °C
- **Storage temperature**: -5 °C – 60 °C
- **Weight**: 6.5 lbs (3.5 kg)
- **Dimensions**: 19"(W) x 1.75"(H) x 11.5"(D)
- **Supplied accessory**: Wired/IR Remote Commander RM-DR1E
- **CTRL-S connecting cable**

**Dimensions (Unit:mm)**

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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Sony Electronics Inc.
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