The enclosed CD is the invitation to the acoustic world of the DRE-S777. Once you enter it, you will soon get to know how natural, rich the reverberation is.

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In this section, each track has five index numbers that you can choose from.

### Section 3: Session

"Olive Tree (for Kosovo dedicated to Peace)" Composed and produced by Seigen Ono. Recorded and mixed at Saidera Mastering, Tokyo 1999

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Sony Electronics Inc.
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www.sony.com/proaudio
Revolutionize your audio productions with natural reverberation.

Reverberation has long been the most popular effect used in music, film and television soundtrack production. To date, digital reverb has relied on artificial synthesizer technology to create these effects.

The DRE-S777 is a digital reverb device that bridges the gap between “artificial” and “real” to provide a new set of creative tools based on natural-sounding reverberation.

The Sony DRE-S777 Sampling Digital Reverberator offers audio professionals a totally new approach to sound processing. The DRE-S777 is a technologically advanced digital effects processor that recreates the natural reverberation of concert halls, theaters and sound stages with unparalleled depth, presence and richness. Unlike conventional processors, the DRE-S777 achieves this breathtaking naturalism by using highly advanced processing that allows audio signals to be combined with sampled data taken from actual acoustic environments.

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The DRE-S777 is also capable of a ‘self-sampling’ function, enabling the device to capture any acoustic environment. This function requires an additional software module as well as a microphone and loudspeaker system.

The DRE-S777 accepts digital signals with standard and double sampling rates and can process full 24-bit signals. Analog signals can be interfaced with the addition of optional A/D and D/A converters. Its superb audio resolution is coupled with multi-channel surround sound capabilities, extending its applications to include a wide range of modern production tasks in music recording and project studios, and in film, television and video post-production facilities.

The enclosed demonstration CD provides a brief introduction to the astonishingly lifelike world that is made possible with the DRE-S777.

Standard Accessory Sampling Reverb Software

- Concert hall A/B
- Recording Studio
- Church A/B
- Plate A/B

This Software is supplied free with the DRE-S777.

Optional Self-Sampling Function Software

DASK-S701
“European Halls & Churches”
- Amsterdam Concertgebouw (large)
- Amsterdam Concertgebouw (small)
- Vienna Grosser Musikvereinssaal
- Konzerthaus, Berlin
- Westerkerk, Amsterdam
- Jesus-Chiristus-Kiche, Berlin
- St. Vincente de Cardona, Cardona

DASK-S702
“American Acoustic Spaces”
- Avatar Studio A, New York
- Ocean Way Recording Studio B, Los Angeles
- Enterprise E2 Studio, Los Angeles
- Giandomenico Studio, New Jersey
- Mechanics Hall, Massachusetts
- The Cathedral of St. John the Divine, New York
- Grand Canyon, Arizona

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- Sedic Audio Studio, Tokyo
- Yokohama Nohgaku-dou (Noh hall), Yokohama
- Bathhouse named “Tamano-yu”, Tokyo
- Ohya stone quarry, Tochigi
- Hotaka mountain range, Nagano

Optional Sampling Reverb Software Series

DASK-S704
This software adds a self-sampling function to the DRE-S777, enabling you to capture any acoustic environment.
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The enclosed demonstration CD provides a brief introduction to the astonishingly lifelike world that is made possible with the DRE-S777.
To achieve exceptionally natural sounding reverb, it has been necessary to capture the unique “sound” of many different environments; concert halls, churches, studios and so on. The gathering of this data was no mere mechanical process. Rather, it was a series of individual recording projects, each requiring a host of creative decisions familiar to audio professionals. Each project required loudspeakers to radiate the test signals and a microphone array to capture the reverb signature. For each of the locations, multiple samples were recorded using different combinations.
of loudspeaker and microphone positions. These samples were then combined in the DRE-S777 to provide an extensive range of stereo and surround reverb modes. Sony hardware engineers worked closely with experienced recording engineers to choose microphone types, their directivity and location. Each acoustic space was sampled across a wide range of conditions, and the data supplied on a CD-ROM for use with the DRE-S777.
Seven standard acoustic environments, plus optional reverb sampling data

The DRE-S777 is supplied with a standard sample CD-ROM, containing seven standard presets including data from two different types of concert hall, a recording studio and two churches, plus data from two types of plate reverberator. The DRE-S777 provides for adjustment of parameters such as reverb time, effect/dry balance, equalization and pre-delay. Optional sampling reverb software is available in the DASK Series of sample discs, containing a range of acoustic environments from Europe, America and Japan. The optional reverb software series is detailed on pages 11 and 12.

“Self-sampling” function to capture any acoustic environment

With the DRE-S777, it is possible to capture any acoustic environment. The DRE-S777 is provided with a “self-sampling” function when operated with the newly developed DASK-S704 Sampling Function Software. This allows you to create reverb programs sampled at sound environments using microphones of your choice.

The “self-sampling” process is simple and straightforward. First, the DRE-S777 generates the TSP (Time Stretched Pulse) signal, which is used to energize the acoustic space using a loudspeaker system connected to the DRE-S777. The reverberation characteristics are captured with microphones connected to the DRE-S777 via external microphone amplifiers. After A/D conversion, the captured signals are converted into the system’s internal data format and the sample data is stored in a Sony Memory Stick™. For example, a 64 MB Memory Stick stores the data for around 30 typical programs.

St. John the Divine, New York, the USA

“Self-sampling” Signal Flow
In addition to its stereo reverb modes, Sony has developed the D R E-S777 to support multi-channel reverberation. The emergence of formats such as D V D Video has significantly expanded the use of multi-channel sound. The D R E-S777 is therefore highly suitable for a wide range of multi-channel production tasks, including audio-for-video, and for television and film post-production applications.

With the optional D A B K-S703 E xpansion D S P Board installed, the D R E-S777 provides a mono input, four-channel output reverb mode. Larger surround sound arrays, for example, 5.1 channel surround, can be provided by using two or more D R E-S777 units. The optional D A S K Series software includes reverberation data actually sampled using a five-position microphone array, allowing five-channel surround sound effects to be created.
For years, the “holy grail” of Digital Signal Processing has been the development of a real-time convolution processor. Unfortunately, the required processing power simply has not been available, which is why most digital reverberation systems only simulate acoustic spaces - a process based on Artificial Impulse Response. That is until now.

In order to recreate reverberation faithfully, it is necessary to sample data from the beginning to the end of the reverberation. The DRE-S777 convolutes an amazing 256,000 sampling points by using a new Sony DSP (Digital Signal Processor) which provides 1,000 times the processing power of a typical digital reverb unit. The result is reverberation that accurately recreates all of the detail of the early reflections and the complexity of the reverberant tails.

The DRE-S777 is not simply a reverberation effect processor, but a real ambience emulator.
As the music and movie industries move from 48 kHz to higher sampling rates, the DRE-S777 will follow, with the optional DABK-S703 Expansion DSP Board upgrading the DRE-S777 for 96 kHz sampling. This makes the DRE-S777 compatible with DVD Video/Audio and other emerging audio formats.

**96 kHz sampling**

As well as delivering astonishingly life-like natural-sounding reverb effects, the DRE-S777 also provides whisper-quiet signal-to-noise performance. This has been achieved by taking multiple samples for each of the reverb programs. Post processing of the sample data involves an averaging technique that allows the signal to noise ratio to be dramatically improved; the net effect is a cleaner, more dynamic, subjective sound quality. This approach also provides special benefits when recording the reverberant signature of “noisy” devices such as analog plates. The DRE-S777 accurately captures the unique characteristic of these devices, with unwanted noise dramatically reduced to produce a reverb effect that is cleaner than the original plate.

**Whisper-quiet signal-to-noise ratio**

To extend the versatility of the DRE-S777, two optional analog converters are available, the DABK-S701 (A/D Converter Board) and the DABK-S702 (D/A Converter Board). These converter boards incorporate discrete-transistor amplifiers, critical in maintaining the integrity of analog signals. The result is uncompromising A/D and D/A performance to match the superlative reverberation quality.

**Superb quality A/D and D/A conversion**
Reverberation has long been the most popular effect used in music, film and television soundtrack production. To date, digital reverb has relied on artificial synthesizer technology to create these effects. The DRE-S777 is a digital reverb device that bridges the gap between "artificial" and "real" to provide a new set of creative tools based on natural-sounding reverberation.

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Sony engineers have painstakingly collected sample data from some of the world's most highly regarded concert halls, studios and other acoustic environments.

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**Real impulse response**
- Hall 2, recording studio 1, church 2, plate 2
- 0.3-5.5 (max.) seconds
- 0-0.5 seconds
- 44.1/48 kHz (standard)
- 88.2/96 kHz (optional)
- 24 bit
- AES/EBU, XLR-3-31 type (1)
- AES/EBU, XLR-3-32 type (2)
- XLR-3-31 type (2, optional)
- XLR-3-32 type (4, optional)
- Word sync (SDIF compatible, 75 ohms, BNC type)
- DI sync
- -12.5 to +8% variable
- 481.5 x 110 x 514.5 mm (19 x 4 3/8 x 20 3/8 inches)
- 33 lb 1 oz
- 15 kg (with full options)
- 60 W (with full options)
- 600 ohms or 10 k ohms switchable
- 0 or +4 dBu switchable
- +24 dBu
- More than 50 dB (1 kHz)
- 110 dB
- 110 dB
- 0.005% (-20 dBFs)
- 90 dB (8 kHz)
- 120 V (U.C.), 220-240 V (C.E.), 50/60 Hz
- Sampling reverb data CD-ROM (1)
- PC card adapter (1)
- Memory Stick™ (1)
- Operation manual (1)
- Rack Mount Adapter (2)
- Sampling function (with D A S K -5704)
- D owload of reverb programs* from the caches to a Memory Stick
- Programs created with the D A S K -5704 Sampling Function Software can be downloaded to the Memory Stick supplied with the D A S K -5704, or to a common Memory Stick.

---

**Features**
- Operational modes;
  - Reverb mode: M ono in Stereo out (standard)
  - Stereo in Stereo out (with D A B K -5703)
  - M ono in 4-channel out* (with D A B K -5703)
  - Two M ono split in 4-channel out* (with D A B K -5703)
  - M ono in Stereo out at 2Fs (with D A B K -5703)
- Direct/Rev:
  - Direct+Reverb/Reverb
- * In addition to the D A B K -5703 Expansion DSP Board, a 4-channel analog output requires two D A B K -5702 D/A Converter Boards.
- Variable reverberation time (0.3-5.5 s max.)
- Pre-delay (0-0.5 s)
- Mixer functions (peak hold, bypass, mixture of dry/wet, muting)
- Four-band parametric EQ
- MIDI control
- Factory presets provided in Memory Stick™
- Set-up data for 92 user-presets using Memory Stick
- Nine user caches for quick reverb-program recall
- Easy operation via jog dial and four function keys
- Self-diagnostic modes (CPU, DSP, DI/DO, A D /DA )
- Sampling function (with D A S K -5704)
- D owload of reverb programs* from the caches to a Memory Stick

---

**DABK-S701 A/D converter**
- Input impedance: 600 ohms or 10 k ohms switchable
- Standard level: 0 or +4 dBu switchable
- Maximum level: +24 dBu
- CMRR: More than 50 dB (1 kHz)
- Dynamic range: 110 dB
- Signal-to-noise ratio: 110 dB
- T.H.D.: 0.005% (-20 dB F s)
- Crosstalk: 90 dB (8 kHz)
- Frequency response: 20 Hz to 20 kHz +0.2 dB/-0.3 dB (Fs=44.1 kHz, 48 kHz)
- 20 Hz to 40 kHz +0.2 dB/-0.3 dB (Fs=88.2 kHz, 96 kHz)

---

**DABK-S702 D/A converter**
- Output impedance: Less than 50 ohms
- Standard level: 0 or +4 dBu (600 ohms) switchable
- Maximum level: +24 dBu (600 ohms)
- Dynamic range: 110 dB
- Signal-to-noise ratio: 110 dB
- T.H.D.: 0.015% (-20 dB F s)
- Crosstalk: 90 dB (8 kHz)
- Frequency response: 20 Hz to 20 kHz +0.2 dB/-0.3 dB (Fs=44.1 kHz, 48 kHz)
- 20 Hz to 40 kHz +0.5 dB/-0.6 dB (Fs=88.2 kHz, 96 kHz)

---

**Optional accessories**
- D A B K -5701 A/D Converter Board
- D A B K -5702 D/A Converter Board
- D A B K -5703 Expansion DSP Board
- D A S K -5701 Sampling Reverb Software "European Halls & Churches"
- D A S K -5702 Sampling Reverb Software "American Acoustic Spaces"
- D A S K -5703 Sampling Reverb Software "Japanese Acoustic Spaces"
- D A S K -5704 Sampling Function Software "Sampling your spaces"
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The DRE-S777 is also capable of a 'self sampling' function, enabling the device to capture any acoustic environment. This function requires an additional software module as well as a microphone and loudspeaker system.

The DRE-S777 accepts digital signals with standard and double sampling rates and can process full 24-bit signals. Analog signals can be interfaced with the addition of optional A/D and D/A converters. Its superb audio resolution is coupled with multi-channel surround sound capabilities, extending its applications to include a wide range of modern production tasks in music recording and project studios, and in film, television and video post-production facilities.

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Standard Accessory Sampling Reverb Software

- Concert hall A/B
- Recording Studio
- Church A/B
- Plate A/B

This software is supplied free with the DRE-S777.

Optional Self-Sampling Function Software

DASK-S704

This software adds a self-sampling function to the DRE-S777, enabling you to capture any acoustic environment.

Optional Sampling Reverb Software Series

DASK-S701

“European Halls & Churches”
- Amsterdam Concertgebouw (large)
- Amsterdam Concertgebouw (small)
- Vienna Grosser Musikvereinssaal
- Konzerthaus, Berlin
- Westerkerk, Amsterdam
- Jesus Christinuskirche, Berlin
- St. Vincente de Cardona, Cardona

DASK-S702

“American Acoustic Spaces”
- Avatar Studio A, New York
- Ocean Way Recording Studio B, Los Angeles
- Enterprise E2 Studio, Los Angeles
- Giandomenico Studio, New Jersey
- Mechanics Hall (Massachusetts)
- The Cathedral of St. John the Divine, New York
- Grand Canyon, Arizona

DASK-S703

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- Sedic Audio Studio, Tokyo
- Yokohama Nohgaku-dou (Noh hall), Yokohama
- Bathhouse named “Tamano-yu”, Tokyo
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**Section 2: Comparison Demonstration**

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</table>

In this section, each track has five index numbers that you can choose from.

**Section 3: Session**

"Olive Tree (for Kosovo dedicated to Peace)" Composed and produced by Seigen Ono. Recorded and mixed at Saidera Mastering, Tokyo 1999.

* The reverb is produced by the optional DASK-S701 software.
The enclosed CD is the invitation to the acoustic world of the DRE-S777. Once you enter it, you will soon get to know how natural, how rich the reverberation is.

### Sampling Digital Reverberator

**DRE-S777**

*Demonstration CD*

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### Section 1: By-instrument Demonstration

<table>
<thead>
<tr>
<th>Source Instrument</th>
<th>Algorithm</th>
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<th>Wp / Ph</th>
<th>Wp / Hf</th>
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<td>Tambourine</td>
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<td>14 dry -10 wet +6</td>
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<td>Kick</td>
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<td>Acoustic piano</td>
<td>Church (Jesus-Chiristus-Kirche)*</td>
<td>22</td>
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<td>Church (Westerkerk)*</td>
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<td>Hall (Musikvereinssaal)*</td>
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<td>Hall (Concertgebouw/large)*</td>
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<td>30 dry -15 wet +6</td>
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<td>Church (Westerkerk)*</td>
<td>31 without direct</td>
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### Section 2: Comparison Demonstration

#### Algorithm
- Digital Reverberator A Hall
- Digital Reverberator B Hall
- DRE-S777 M Hall B
- M Hall B (without direct)
- Hall (Concertgebouw/large)*
- Hall (Musikvereinssaal)*
- Digital Reverberator A Room
- Digital Reverberator B Room
- DRE-S777 Studio
- Digital Reverberator A Church
- Digital Reverberator B Church
- DRE-S777 Church (Westerkerk)*
- Church (St. Vincente)*
- Church (Jesus-Chiristus-Kirche)*
- Digital Reverberator A Plate A
- Digital Reverberator B Plate A
- DRE-S777 Plate A (1.5 s)
- Plate A (3.3 s)
- Plate A (5.0 s)

In this section, each track has five index numbers that you can choose from.

### Section 3: Session

**"Olive Tree (for Kosovo dedicated to Peace)"**

Composed and produced by Seigen Ono

Recorded and mixed at Saidera Mastering, Tokyo 1999

* The reverb is produced by the optional DASK-S701 software.

**Index 1**

- Drums

**Index 2**

- Chorus

**Index 3**

- Trumpet

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