

Verance Audio Watermark Embedder

SDMI/DVD-Audio Specification

for Windows®



Verance copy protection technology selected as global standard

What's the best way to protect digital music from unauthorized duplication? The leading digital audio standards bodies including the SDMI (Secure Digital Music Initiative) and the 4C Entity have chosen Verance's robust watermarking technology as the most effective protection for copyrighted digital music. Verance's patented watermarking technology embeds a unique identifier code within the digital audio waveform and travels with it wherever it goes in either physical or online environments.

Verance, the inventor of the SDMI screening technology, provides content owners with a solution to effectively manage, track and control digital audio content.

Key Benefits

- **Transparent** The Verance watermark has no discernible effect on audio quality.
- **Robust** It survives typical distortions introduced by broadcast and re-broadcast, audio compression, home recording and studio manipulations.
- **Secure** It is resistant to forgery, unauthorized alteration, decoding and erasure.
- **Efficient** It can be transmitted and decoded in segments of audio as short as a few seconds.
- **Expandable data rate** Verance technology allows multiple layers of information to be embedded for different purposes such as: usage controls, rights management and broadcast and streaming monitoring.

Verance's solutions fit any size embedding need

Verance's comprehensive line of Embedding Packages can meet the copy protection and rights management needs of large companies who embed millions of digital audio tracks per year as well as those independent musicians and embedding service providers who embed just a few tracks per year. Each Verance Embedding Package includes a mutual licensing agreement as well as the software and instructions necessary for you to begin protecting your content.



Verance Audio Watermark Embedder

Description

The Verance Audio Watermark Embedder *for Windows*[®] is a stand-alone software application designed to embed inaudible watermarks inside digital audio waveform. The application embeds according to specifications developed by the Secure Digital Music Initiative's (SDMI) Portable Device Specification, Part 1 as well as specifications developed by the 4C Entity and the DVD Audio Working Group for the DVD-Audio (DVD-A) format. It is available for Microsoft WAV, Raw PCM, DVD-Audio and DDP file formats.

Features

- **User Selectable Dither:**
White TPDF, Highpass TPDF, None
- **Batch Processing Capabilities:**
Write simple DOS scripts around the embedding function call
- **Installation Registration Flow:**
User is prompted with registration steps at first run attempt
- **Watermark State Selection:**
CCI
- **Output Word Length Selection:**
16, 24, 32 bits output sample resolution selection in WAV and Raw PCM formats

System Requirements

Hardware:	Pentium PC
Operating System:	Windows 95/98/NT/2000
Hard Disk:	3 MB available
Application RAM:	25 MB available

File Formats

Microsoft WAV	
Sample Rates (kHz):	44.1, 48, 88.2, 96, 178.4, 192
Sample Resolutions (bits):	16, 24, 32
Channels:	1-8
DVD-Audio	
Sample Rates (kHz):	44.1, 48, 88.2, 96, 178.4, 192
Sample Resolutions (bits):	16, 24
Channels:	2, 4, 5, 6
Raw PCM	
Sample Rates (kHz):	44.1, 48, 88.2, 96, 178.4, 192
Sample Resolutions (bits):	16, 24
Channels:	2, 4, 5, 6
DDP	
Sample Rates (kHz):	44.1
Sample Resolutions (bits):	16
Channels:	2



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