

Sonorous® Model 1



One-Touch
MP3 Loading!

Message-On-Hold • Background Music Source

Nel-Tech Labs Digital Messaging System

The Sonorous® Model 1 is a state-of-the-art digital audio recording and playback device designed to provide a continuous-play audio source for message-on-hold, background music, or any other audio application where high-quality audio playback is required. The audio program is loaded from a CD with standard MP3 files onto high-density flash memory using a pure digital-to-digital file transfer. After loading audio, the CD can be removed and audio plays from the 8Ω or 1KΩ RCA output jack.

The Sonorous has a base memory of 64 minutes which can be used for message-on-hold or shorter message applications. If longer memory capacities are required, The Sonorous is available with up to 34 hours of message storage.

The Sonorous is also available with the optional Sonocrypt® encryption key technology. This technology enables resellers to protect units against unauthorized loading of MP3 files. The Sonocrypt® will only work with CDs that have burned in the “key” files. When a CD is burned

for your customer an additional key file must be placed on the CD to make it work. These key files are only supplied to authorized dealers using this feature.

The Sonorous Model 1 features include:

- 64 minutes base memory (32Kbps)
- CD autoloads standard MP3 files
- Playback of single or multiple MP3 files
- Supported bit-rates up to 128Kbps
- Supported sample rates up to 48KHz
- Industry standard CD-ROM drive
- LED status indicator
- Sonocrypt® encryption key technology
- Extruded aluminum & steel construction
- Exceptional dealer support
- 5-year parts and labor warranty

Each Sonorous Model 1 is built to exacting quality standards using state-of-the-art assembly equipment for outstanding reliability and years of dependable service.



Specifications

Technical

Encoding	MPEG (.mp3)	Message Capacity	Up to 500 messages
Frequency Response ...	20Hz to 20KHz (depending on sample rate)	Message Loading	CD using built-in CD-ROM
Bit Rate	8K to 128Kbps	Message Playback	Continuous or shuffle (optional)
Sample Rate	16KHz to 48KHz	Power	15VDC @ 1.67A
Signal-to-Noise	>100dB	Audio Output	Mono RCA jack
File Compression	6:1 to 96:1		Adjustable volume control
Memory Type	High-density FLASH	Impedance	6V p-p @ 8Ω or 12V p-p @ 1KΩ
Memory Capacity	64 minutes @ 32Kbps (base) 34 hours @ 32Kbps (max)	Size	3.25" x 9.50" x 9.10" (H x W x D)
		Color	Black
		Shipping Weight	7¼ pounds

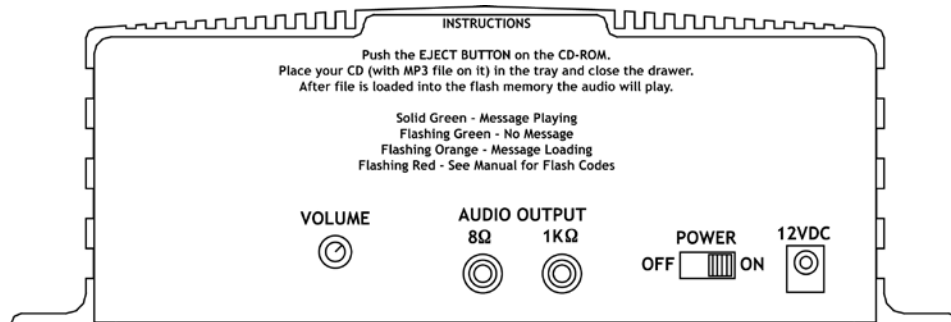
Memory Tables

The bit-rate of your .mp3 audio files determine audio quality and maximum storage time as shown in the table below.

Bit-rate	Quality	Message Time (Base)	Message Time (Max)
32Kbps	Analog Telephone	64 Minutes	34.13 Hours
48Kbps	↓	40 Minutes	21.33 Hours
64Kbps		32 Minutes	17.06 Hours
96Kbps		20 Minutes	10.67 Hours
128Kbps	CD	16 Minutes	8.53 Hours

Base message time calculated using a 16MB flash memory with a 32Kbps .mp3 file. Bit rates of 32Kbps or greater are recommended for quality playback.

Back View



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