

MACKENZIE

MacFi-mp

MP3 DIGITAL AUDIO
RECORD / PLAY SYSTEM

MacFi-mp^e

Features:

- MPEG 1, Layer 3 (MP3) record and playback
- Local Record capability
- User-friendly controls
- 99 independent messages(01 - 99)
- Instantaneous, random access of messages
- Flash memory, no battery backup required
- DML - Dynamic Message Length
- Line and microphone inputs
- Line and speaker outputs
- Shock and vibration resistant
- Several playback modes
- Playing relay
- Rack mount kits available as an option

MacFi-mpe Adds:

- Serial (RS-232) control, setup and audio file transfer
- MPEG 1, Layers 1, 2 & 3 playback capability
- Synchronization relay for sequencing applications
- Front mount LED indicators and manual controls for convenience in rack applications with optional rack mount kit.



As the latest addition to the highly successful MacFi series, the MacFi-mp offers higher fidelity and larger message capacity than its predecessor. The MacFi-mp incorporates a MPEG processor for record and playback quality of up to 15kHz bandwidth. With its increased capacity, the MacFi-mp is able to store up to 99 individual messages. Mackenzie's Dynamic Message Length (DML) technology allows each of the 99 messages to be of different duration. DML also provides for replacement messages to be a different length than the original, maximizing memory efficiency and compatibility with future applications.

Local recording is accomplished through a straight forward user interface with standard line level and microphone connections. Line and amplified audio outputs are provided with level control. Eight message triggers are available on the remote control terminal while the remainder may be accessed by the user interface or the Serial (RS-232) interface of the MacFi-mpe.

The MacFi-mpe adds enhanced functionality to the standard MacFi-mp. These features include Serial (RS-232) interface and synchronization relay. Push buttons and LED indicators of the MacFi-mpe are relocated to the front of the system for better accessibility in rack mount applications. The Serial interface of the MacFi-mpe allows for complete control of recording and playback as well as customization of default settings. Audio files may be mastered on a Personal Computer then digitally transferred to the MacFi-mpe in MPEG 1 Layer 1, Layer 2 or Layer 3(MP3) formats.

The MacFi-mp utilizes solid state, non-volatile, FLASH memory which stores messages until they are re-written. Message data is protected from power outages and no battery is required. The system contains no moving parts and offers unsurpassed reliability.

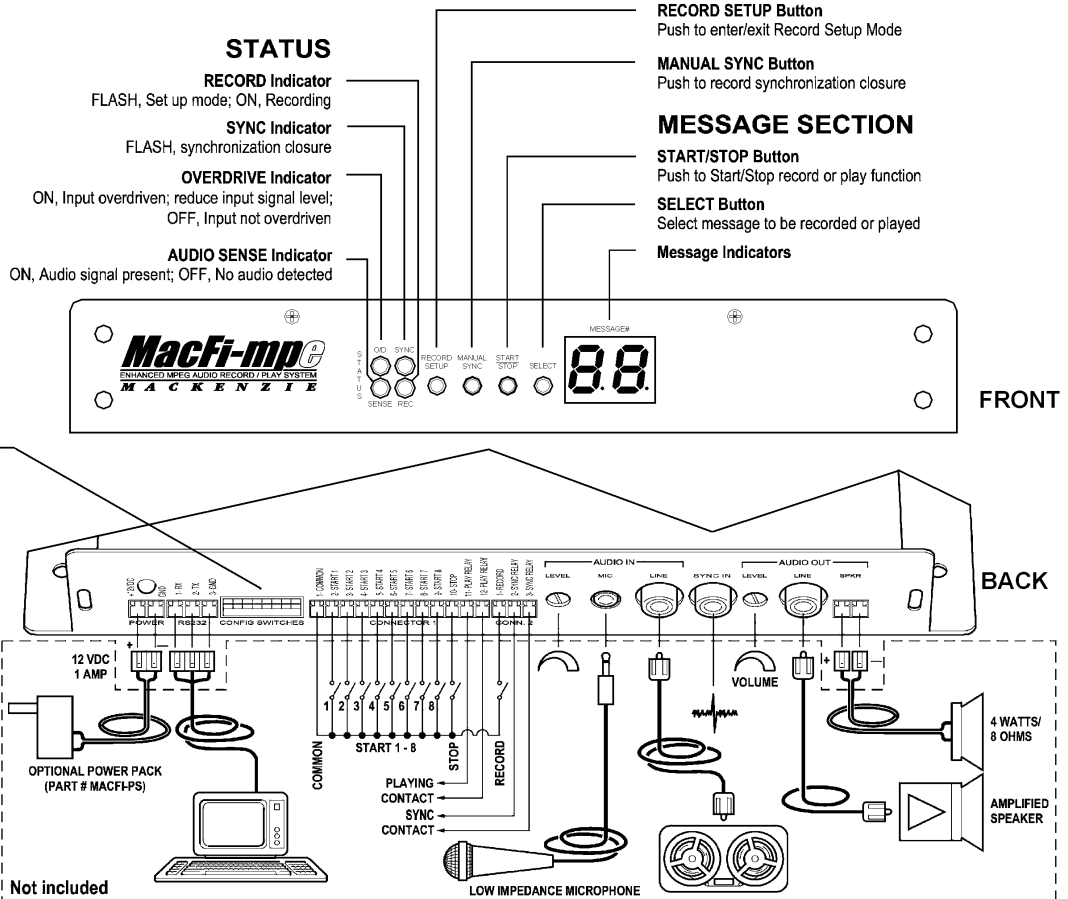
The MacFi-mp offers a standard one year warranty and is proudly manufactured in the USA.

Models and Accessories Available:

MacFi-mp 40	Standard version, 40 minutes of local recording (32MB)
MacFi-mpe 40	Enhanced version (RS-232, sync relay), 40 minutes of local recording (32MB)
ICM-25	Adds 25 start contacts to the MacFi-mpe. Multiple units may be used.

Making A Difference, One At A Time

- CONFIG SWITCHES**
 OFF ON
- 1 2 Repeat**
 Play message **One** time
 Play message **Two** times
 Play message **Three** times
 Play message **Four** times *
- 3 4 Delay**
 1 sec delay
 5 sec delay
 10 sec delay
 30 sec delay *
- 5 6 Operation Mode**
 Standard Operation
 Play one sequence per closure
 Play while active
 Re-trigger *
- 7 Play Next**
 Disable
 Enable
- 8 Memory Protect**
 Enable record
 Disable record
- * Configurable Over R232



SPECIFICATIONS

Audio Coding:

Recording: MPEG1, Layer 3(VBR)
 Playback: MPEG 1, Layer 3(VBR) or MPEG 1, Layer 1, 2 & 3 via audio file transfer capability of the MacFi-mp

Audio Quality:

Dynamic Range: 80dB, Typical
 Signal to Noise: 80dB, Typical
 Frequency Resp.: 50Hz to 15kHz
 THD: <0.5% at 1kHz, Typical

Audio Input:

Line: 10k ohm, RCA
 Mic: 1.5k ohm, 1/8" mini jack
 Level: +4dBm max., potentiometer

Sync Input(MacFi-mp^e Only):

Interface: 10k ohm, RCA
 Mode: Audio sensor detects tones 100mS in duration

Audio Output:

Line: 600 ohm(+4dBm max.), transformer isolated, RCA
 Amplified: 4 watts into 8 ohm, 2 pin pluggable terminal
 Level: Potentiometer

Audio Memory:

Type: FLASH EPROM
 Capacity: 32MB, 40 min local record

Power Requirement:

Input Voltage: 12vdc, 1 amp
 Connection: 2 pin pluggable terminal

Serial Interface (MacFi-mp^e version only):

Type: RS-232
 Mode: 9,600 or 115,200 baud, 8 data bits, 1 stop bit, no parity, no flow control
 Commands: Play, Record, Stop, File Download, Status, etc.
 Connection: 3 pin pluggable terminal

Control I/O:

Control Inputs: Record, Stop, 8 individual message Start contacts.
 ICM-25(Optional): Add to the MacFi-mp^e for 25 more start inputs per module.
 Status Outputs: Playing, Sync(MacFi-mp^e version only)
 Output Type: Dry relay contact, 1A @24VDC non-inductive load
 Connection: Pluggable terminal

Mechanical:

Package: Wall mount chassis, 10" W x 8" D x 1.5" H
 Material: 18 gauge cold rolled steel chassis; black powder coat, white silkscreen
 Rack mount(option): 1U adapter

Regulatory Agency Approvals:

FCC, Part 15, Class A; UL/CSA approval on external power pack(sold separately)

Specifications and Pricing are subject to change without notice