

KEYER LM48

4 IN 8 OUT LOUDSPEAKER MANAGEMENT SYSTEM



Overview

The Erthpot Keyer LM48 is a professional-grade digital speaker management system, designed to deliver precise control and advanced audio processing for multi-speaker environments. Featuring an interactive LCD display and an intuitive embedded GUI, it enables quick, efficient parameter adjustments and system management.

Equipped with a stable, linear-phase 512-tap custom FIR filter, the LM48 ensures accurate, high-quality audio performance. It supports input/output channel duplication, channel binding, and multi-scene saving and recall, offering flexible system configuration and seamless setup changes.

With a convenient rotary encoder for menu navigation, the LM48 is user-friendly and integrates effortlessly with other Erthpot audio solutions. Ideal for live sound reinforcement, theatres, nightclubs, concert halls, and similar professional venues, the Keyer LM48 is built to meet the demands of modern audio control applications.

Key Features

- Supports multiple analog signal inputs and outputs for flexible multi-speaker management.
- Built-in high-performance DSP chip with 24-bit/48kHz processing and premium A/D, D/A converters.
- Interactive LCD display with a quick-access, embedded GUI interface for efficient control.
- 512-tap custom FIR filter with stable, linear-phase performance and third-party FIR parameter import support via graphical interface.

Technical Specifications

INPUT INTERFACES	4 Analog
OUTPUT INTERFACES	8 Analog
DISPLAY	Embedded GUI interface, quick adjustment of parameters
CONTROL INTERFACES	1 RJ45 interface, 1 RS232 interface, 1 USB Type B
INPUT CHANNEL	Functional module: Mute, Gain, Delay (0-180ms), 31-band Graphic Equalizer, Expander, Compressor. Physical interface: Balanced XLR female connectors.
OUTPUT CHANNEL	Functional module: Delay (0-60ms), Crossover, 15-band Parametric Equalizer (filter type selectable Low Shelf, High Shelf), Gain, Mute, Limiter, Phase. Physical interface: Balanced XLR male connectors.
INPUT IMPEDANCE	Balanced: 20K Ω
OUTPUT IMPEDANCE	Balanced: 100 Ω
FREQUENCY RESPONSE	20Hz~20KHz, ± 0.2 dB
NOISE FLOOR	-90dBu
THD+N	$\leq 0.002\%$ @1kHz, +4dBu
CHANNEL ISOLATION	105dB@1kHz, 4dBu
INPUT RANGE	$\leq +20$ dBu (A-Weighting)
CROSSOVER	Three types of high and low pass filters: Butterworth, Bessel and Link Witz-Riley
EQUALIZER	Parametric Equalizer: Frequency: 20 to 20kHz, Gain: -15 to +15dB, Bandwidth: 0.05 to 4. Graphic Equalizer: Frequency: 20~20kHz, Gain: -15~+15dB.
MAXIMUM OUTPUT LEVEL	20dBu
MAXIMUM INPUT LEVEL	20dBu

Functions

- Input channels feature Mute, Gain, Delay (0-180ms), 31-band Graphic EQ, Expander, Compressor, and Mixer.
- Output channels include Delay (0-60ms), Crossover with Butterworth, Bessel, Link Witz-Riley, and FIR filters with selectable slopes, 15-band Parametric EQ, Gain, Mute, Limiter, and Phase control.
- Professional Windows control software via USB or RJ45 for comprehensive device management.
- Software supports adding, routing, and managing multiple online devices.
- Supports input/output channel copy and binding functions.
- Multi-scene saving, recall, import, and export functions for flexible system configuration.
- User-friendly front panel with rotary encoder and switch menu selection.
- Equipped with bidirectional RS232 and standard Ethernet control interfaces with open protocol support.

WORKING VOLTAGE	AC 110V~220V, 50Hz/60Hz
MAXIMUM POWER	20W
WORKING TEMPERATURE AND HUMIDITY	-10 $^{\circ}$ C~50 $^{\circ}$ C, 10%~90%RH, No condensation
CHASSIS	1U
PRODUCT DIMENSION (L×W×H)	486mm×208mm×44mm
NET WEIGHT	2.7kg
PACKAGE DIMENSION (L×W×H)	590mm×430mm×110mm
PACKAGE WEIGHT	3.2kg



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