

# LARES

# LARES SIGNAL PROCESSOR

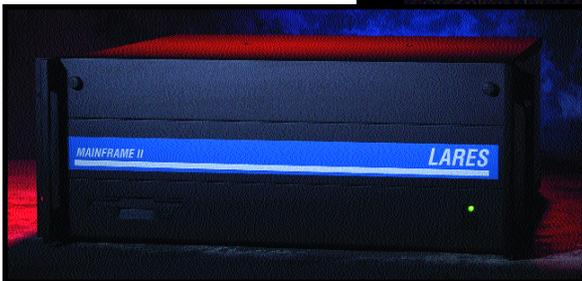
The LARES Signal Processor provides both the DSP functionality, as well as the audio and control networks, which enable LARES systems to be easily configured for a wide range of applications. Eight A/D and D/A converters, each with 24 bit precision, operate at a user

selectable sampling rate between 32 kHz and 96kHz.

Analog inputs and outputs are electronically balanced and terminate using

Phoenix type connectors. Analog input and output gain is independently adjustable, with maximum level of +20 dBu. Sixteen independent bi-directional digital audio terminations provide network interconnection between LARES Signal Processors. Control signals are also independently routed over the network. This allows a single control surface to communicate to an unlimited number of LARES Processors - whether they are mounted together in a single rack, or in numerous locations throughout the facility. Network termination is made using industry standard RJ-45 connectors and Category-5 cable.

LARES Signal Flow Designer Software for Windows provides password protected system configuration and management. Digital Signal Processing functions include Mixing, Routing, Equalization, Bandpass Filtering, Dynamics, Leveling and Signal Generation. These functions can be used in any combination, and in any routing configuration, to provide the optimum processing complement for each LARES installation. All settings - including input and output levels - can be stored, recalled remotely, and be set to default when the unit is powered.



## Specifications

### GENERAL

Frequency response (+/-0.5 dB): 15 Hz to 20 kHz  
THD (20 Hz to 20 kHz, +10dBu output): <0.01%  
Dynamic range (22 Hz to 22kHz Unweighted) 105 dB typ. A-Weighted 108 dB  
Maximum output level: +20 dBu  
Inter-channel crosstalk: <-75 dB  
EIN <128dB typ.with 150 ohm source

### INPUTS

Input Impedance: 10 kOhm  
Maximum input level: +20 dBu (+8 dBu with 12 dB gain)  
Gain range: 0 or 12dB

### OUTPUTS

Maximum input level: +20 dBu  
Gain range: -15dB to 15dB

### CONTROL PORTS

Logic output voltage: 0 or +5 V  
Logic output impedance: 440 Ohm  
Optical output series impedance: 220 Ohm (isolated)  
Control input voltage: 0 to 4.5 V  
Control fader input impedance: 47 kOhm (log) to common

### POWER

85-270 VAC 50-60 Hz  
Consumption < 35VA

### DIMENSIONS

19" x 1.75" x 11.5" (483mm x 45mm x 292mm), w x h x d

*All information in this document is correct to the best of our ability. However, we reserve the right to modify any product description or specifications without notice.*

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