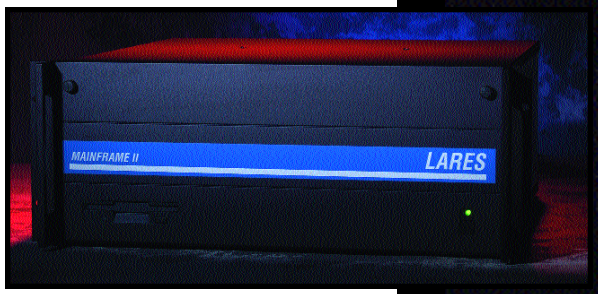
# LARES

LARES OUTPUT PROCESSOR

The LARES Output Processor is identical to the LARES Signal Processor but is supplied without input A/D converters. This provides a cost savings in LARES systems that do not require this capability. Like the LARES Signal Processor, it 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 D/A converters with 24 bit precision, operate at a user selectable sampling rate between 32 kHz and 96kHz. Analog outputs are electronically balanced and terminate using Phoenix type connectors. Analog output gain is independently adjustable, with maximum level of +20 dBu. Sixteen independent bi-directional digital audio terminations provide network interconnection between LARES 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 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

*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.*

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

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E L E C T R O N I C  A R C H I T E C T U R E