

# LARES

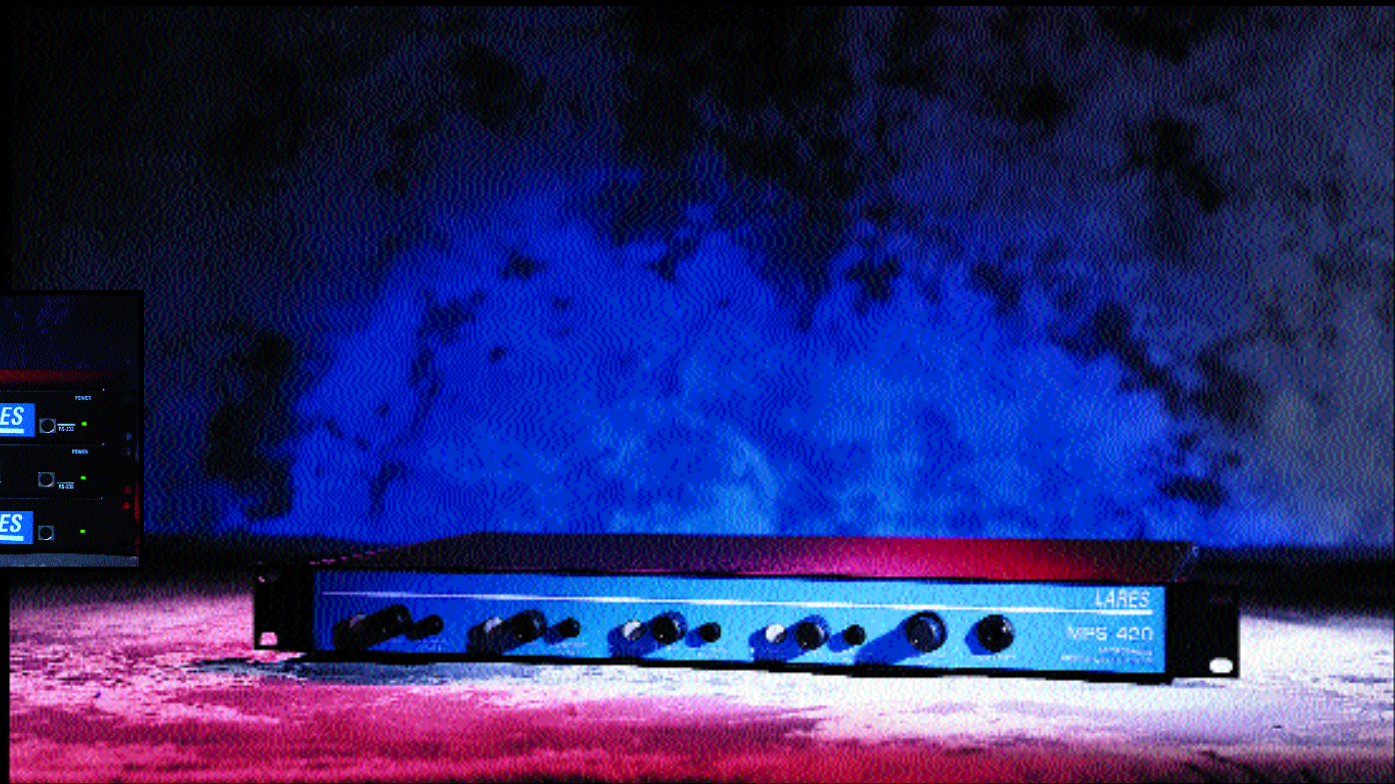
## LARES MPS-420 MICROPHONE PREAMPLIFIER

L A R E S M P S - 4 2 0 M I C P R E

The LARES MPS-420 microphone preamplifier provides the very highest performance for even the most demanding LARES installation. The MPS-420 has a dynamic range in excess of 120 dB, a one dB noise figure, 200kHz bandwidth, and virtually immeasurable distortion.

It will faithfully deliver every nuance captured by the world's best micro-phones, including dynamic output ranging from a whisper to sounds that exceed 120dB. RF rejection and immunity are outstanding - an important consideration when the microphone preamplifier is located near digital audio equipment.

Housed in a single rack unit, the MPS-420 provides four independent microphone preamplifiers with independent balanced outputs. For low AC line interference, the PS-10B power supply is housed in its own totally separate chassis. Front panel controls include gain trim, a 20 dB pad, and a switch for 48V phantom power. Two additional summed outputs are also provided, making the MPS-420 ideal for both single and multiple LARES mainframe installations.



### SPECIFICATIONS

<b>ELECTRICAL GAIN RANGE</b>	- +18 TO +73 DB. WITH 20 DB PAD, -2 TO +73 DB.	<b>NOISE</b>	UP TO A = 36 DB, -93 DBU. @ A = 50 DB, --79.5 DBU (1 DB N.F.) REF-150 SOURCE, 20-20 KHZ. E.I.N. = -130 DBU	<b>MECHANICAL CHASSIS</b>	HIGH QUALITY EXTRUDED ALUMINUM 1 RACK UNIT (1.75" H) X 12.5" D, (ALLOW 2" FOR CONNECTORS)
<b>FREQUENCY RESPONSE</b>	H F (GAINS TO 65 DB) >200 KHZ, @ MAXGAIN > 150 KHZ L F ISGAIN DEPENDENT- WORST @ A = 73 DB -26 HZ @ A = 40 DB, 0.85 HZ.	<b>MAX OUT</b>	BALANCED = +29 DBU UNBALANCED = +23 DBU INTO 2 K OR GREATER 600 LOAD NOT RECOMMENDED.	<b>POWER SUPPLY</b>	5.75" W BY 9.45" D BY 1.50" H
<b>THD</b>	@ 40 DB & +20 DBU, 2 KHZ THD = 0.0007% @ 20 KHZ THD = 0.00088% ALLELECTROLYTICS PARALLELED WITH LARGE FILM CAPACITORS	<b>MAX INPUT</b>	GAIN INDEPENDENT, MIN GAIN (WITH PAD) = +29 DBU	<b>PS CABLE LENGTH</b>	6' WITH 4 PIN LOCKING XLR TYPE CONNECTOR.
<b>IMD</b>	@ 40 DB OF GAIN, 50 KHZ CCIF = 0.0015% @ 0 DBU 0.0035% @ + 10 DBU OUT	<b>INPUT IMPEDANCE</b>	NO PAD = 8.06 K    780 PF WITH PAD = 1.47 K    25 PF		
<b>TIM</b>	DIM30 OR DIM100- < 0.003% @ + 20 DBU OUT	<b>RF PROTECTION</b>	2 POLE COMMON MODE FILTER -26 KHZ CM BANDWIDTH DOWN 60 DB @ 1 MHZ, DIFF BANDWIDTH > 200 KHZ.		
		<b>POWER SUPPLY</b>	PLUS OR MINUS 18 VOLTS AT 200 MA, +50 VOLTS AT 50 MA.		

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