

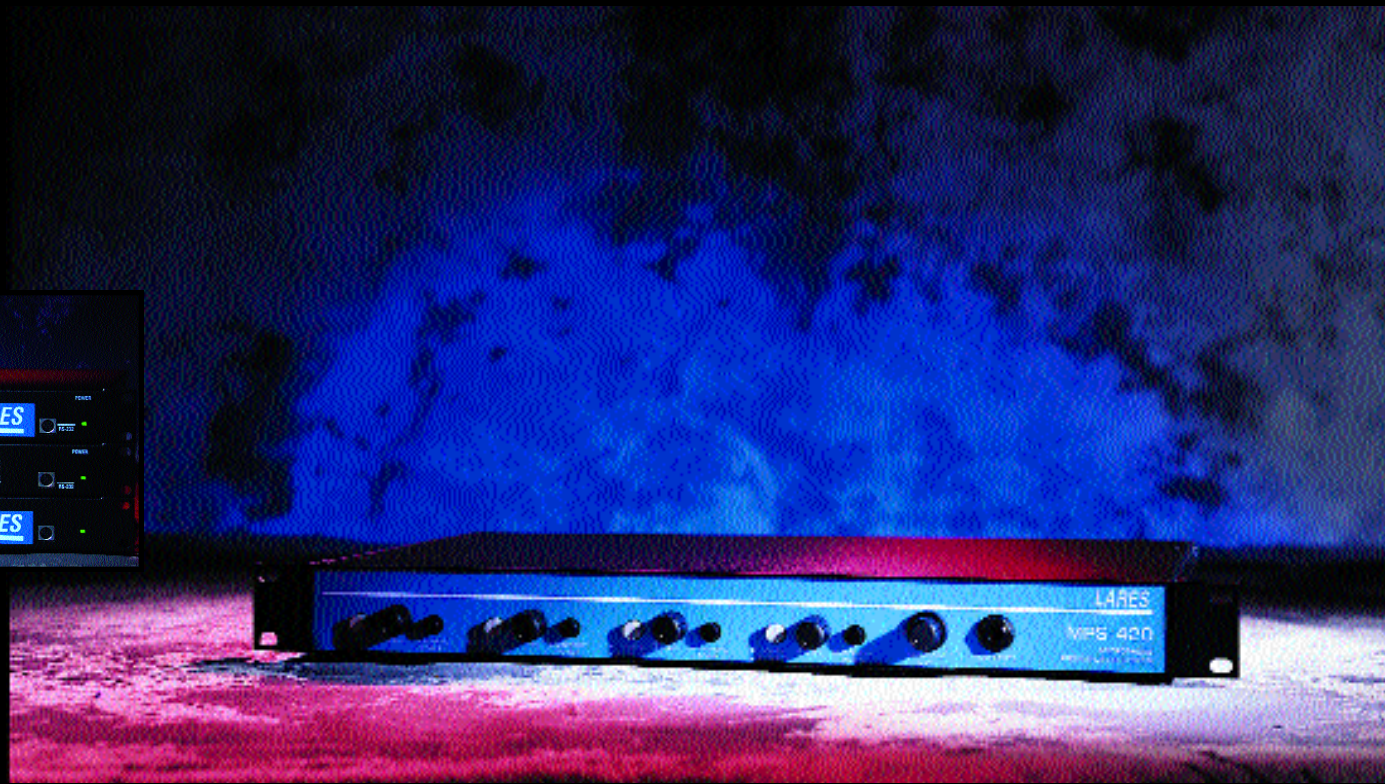
LARES

LARES MPS-420 MICROPHONE PREAMPLIFIER

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 microphones, 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

ELECTRICAL

GAIN RANGE

- +18 TO +73 DB.
WITH 20 DB PAD, -2 TO +73 DB.

FREQUENCY RESPONSE

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.

THD

@ 40 DB & +20 DBU, 2 KHZ
THD = 0.0007%
@ 20 KHZ THD = 0.00088%
ALLELECTROLYTICS PARALLELEDWITH
LARGEFILMCAPACITORS

IMD

@ 40 DB OFGAIN,
50 KHZ CCIF = 0.0015%
@ 0 DBU
0.0035% @ + 10 DBU OUT

TIM

DIM30 OR DIM100-
< 0.003% @ + 20 DBU OUT

NOISE

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

MAX OUT

BALANCED = +29 DBU
UNBALANCED = +23 DBU INTO 2 K OR GREATER
600 LOAD NOT RECOMMENDED.

MAX INPUT

GAINDEPENDENT, MIN GAIN (WITH PAD) =
+29 DBU

INPUT IMPEDANCE

NO PAD = 8.06 K || 780 PF
WITH PAD = 1.47 K || 25 PF

RF PROTECTION

2 POLE COMMON MODE FILTER -26 KHZ
CM BANDWIDTH DOWN 60 DB @ 1 MHZ,
DIFFBANDWIDTH > 200 KHZ.

POWER SUPPLY

PLUSOR MINUS 18 VOLTS AT 200 MA,
+50 VOLTS AT 50 MA.

MECHANICAL

CHASSIS

HIGH QUALITY EXTRUDED ALUMINUM
1 RACK UNIT (1.75" H) X 12.5" D,
(ALLOW 2" FOR CONNECTORS)

POWER SUPPLY

5.75" W BY 9.45" D BY 1.50" H

PS CABLE LENGTH

6' WITH 4 PIN LOCKING
XLR TYPE CONNECTOR.

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