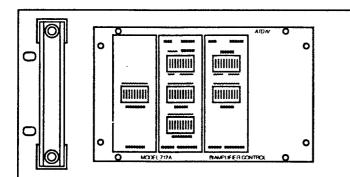
ADVANCED TECHNOLOGY DESIGN SERIES







ADVANCED TECHNOLOGY

Advanced Technology Design Series IV from AB International is a modular system of high performance power amplifiers and electronic signal processing that may be precisely tailored to the specific requirements of professional loudspeaker components.

The experience gained from building three generations of signal-processing power amplifiers brings new features and new standards of performance to ATD IV. The low frequency power amplifier of the 712A is fully complementary and operates from a six-level logic-gated power supply that adapts to the input waveform to provide only the DC rail voltages necessary for undistorted amplification. The result is tremendous output capability, cool operation and unconditional stability over an unusually wide range of load conditions. A delayed-ON, instant-OFF muting control circuit allows internal supply voltages to stabilize before loudspeakers are connected. Speaker connections are instantly removed, should there be an interruption of AC power.

Included in the 712A are two apportioned power amplifiers, selectable system high pass filters, precision step attenuators, fourth-order Bessel active crossovers. an adjustable all-pass delay network for LF-HF time-phase correction at crossover, adjustable low frequency Thiele-Small alignment equalization, balanced and unbalanced inputs with looping provision and high frequency power response compensation for professional compression drivers.

For users desiring specific non-standard features and/or signal processing, a wide range of options are available, including high pass frequencies, crossover frequencies and filter topology and HF power response equalization. See 'Optional Equipment' brochure for details.

SPECIFICATIONS

Type:

Biamplifier system with on-board signal processing

Power output:1

500 w at 8 Ω

750 w at 4 Ω 1000 w at 2 Ω

HF:

150 w at 8 Ω

Gain:

32.5 dB. LF-HF

Input sensitivity:2

1.5 Vrms (referred to rated 8Ω LF output)

Input impedance:

15 kΩ, balanced or unbalanced

Noise level:

100 dB below rated outputs, unweighted

Crossover:3

800 Hz, 4-pole (24 dB/octave) Bessel response

Signal processing:3

System high pass (40 or 80 Hz) 2nd-order M-derived w/adjustable underdamping for

assisted Thiele-Small alignments

Adjustable low-pass delay for LF output Adjustable equalization for HF

power response compensation

Controls:

Power, system level

Delay, level, high pass/EQ level, EQ LF: HF:

Input connectors:

XLR-3 (bal.) with loop-thru and ground lift

switch, 1/4-inch (unbal.)

Power requirements:

120/240 VAC, 50/60 Hz, 400w (avg.)

1500 w (max.)

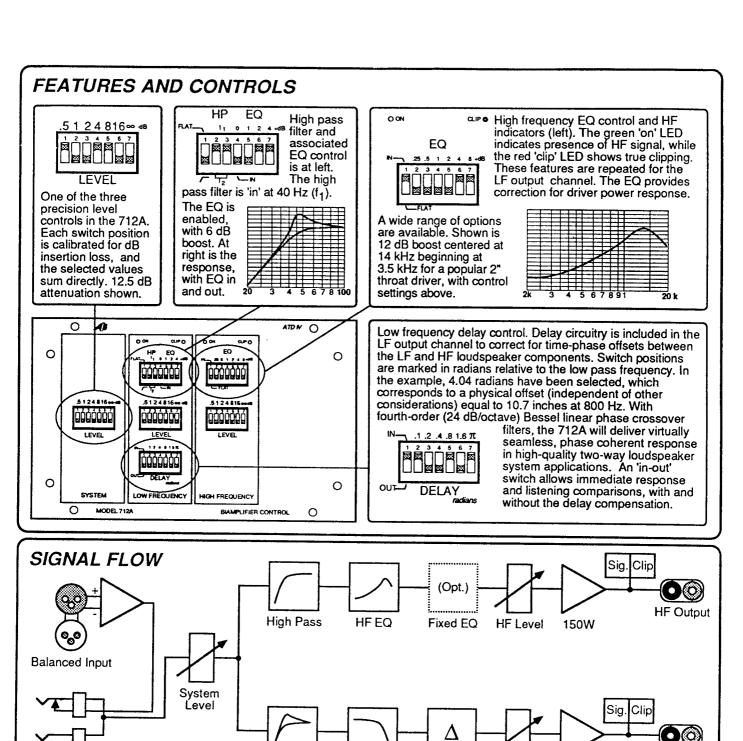
Physical:

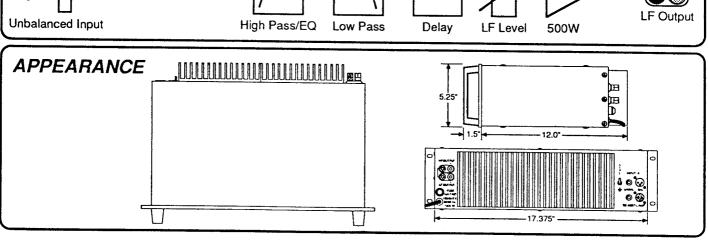
5-1/4" (13.3cm) H x 19" (48.3cm) W x 13-1/2" (34.3cm) D; 42 lbs. (19.1 kg.)

Continuous power output at less than 0.1% THD, 20 Hz to 20 kHz, outputs normalized for full-range operation.

^{2.} With all level controls adjusted for zero attenuation, normalized response to a swept input signal will be 'flat'.

A wide range of optional crossovers and signal processing is available. Please refer to optional equipment for details.







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