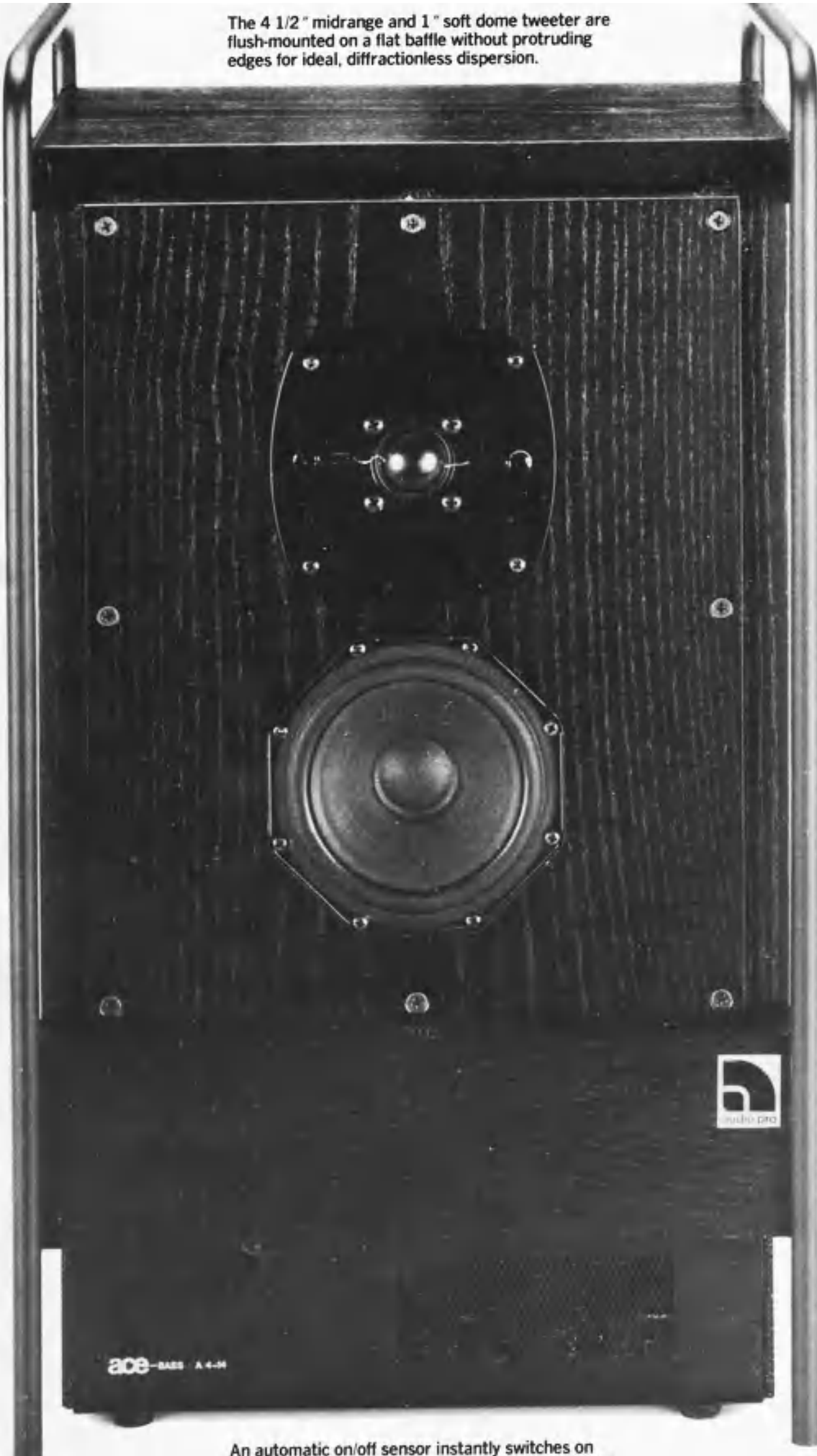


The A4-14 PRO is a compact, self powered, no compromise monitor loudspeaker covering the complete frequency range from 30 Hz to 20000 Hz. Based on Audio Pro's model A4-14 - one of the best speakers on the hi fi market — it is now adapted for professional stationary or field use.

The 4 1/2" midrange and 1" soft dome tweeter are flush-mounted on a flat baffle without protruding edges for ideal, diffractionless dispersion.



power amplifiers. One is used for the built-in ACE-Bass subwoofer, which handles frequencies from 30 Hz (-3 dB) to 300 Hz and the other feeds the midrange driver and tweeter.

Both the midrange and tweeter are high efficiency types and selected for uniform frequency response, low distortion and low coloration. By careful design of the box, baffle and grille, these drivers give their best performance in the completed system.

The biamplified design allows

load) without affecting clean midrange or treble reproduction. Combined with the high efficiency drivers, this makes sound pressure levels up to 110 dB (at 1 m) possible above 100 Hz.

The A4-14 PRO also offers a unique flexibility in placement. It is in fact, possible to get good reproduction with correct tonal balance at placements from corner (n/21) to free space (4n). This room matching is explained on next page.

In addition to the rugged mechanical construction of A4-14 PRO, it also includes triple overload protection making it almost

Proper driver placement, baffle and crossover design minimize the negative effects of out-of-phase rear reflections. Midrange and treble drivers are limited by the baffle to half-space ( $2\pi$  steradians) radiation. Down-firing, rearward mounted woofers and low crossover point ensure that direct and reflected waves remain in phase throughout the bass range.



Frameless, molded acoustical foam grille introduces no sonic colorations or diffraction problems.

An automatic on/off sensor instantly switches on both internal amplifiers in the presence of an audio signal. When no signal is present for 5 minutes, the amps switch off, leaving the speakers in the stand-by position, drawing virtually no current.

ace-BASS A 4-14

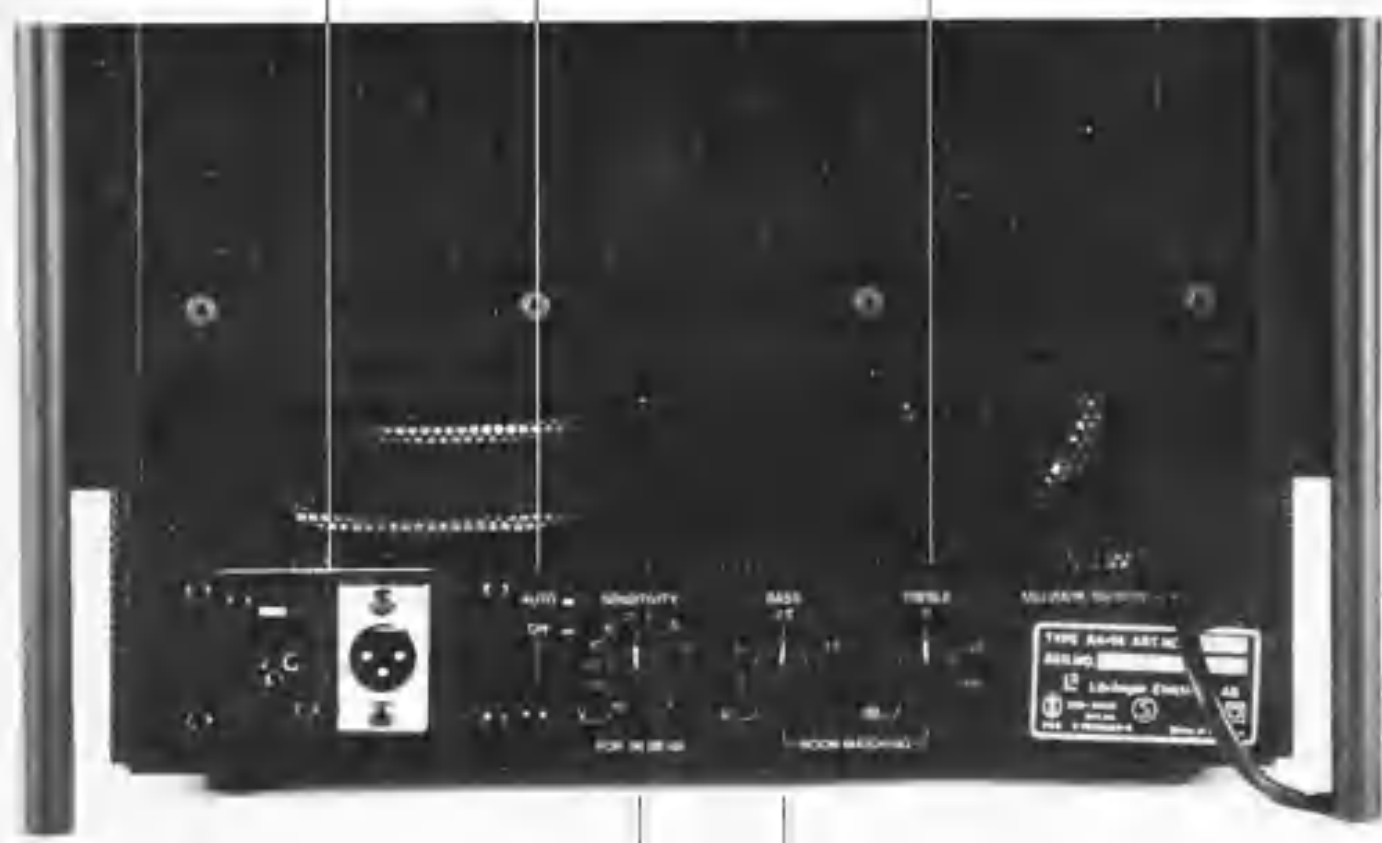
# MONITOR MODEL A4-14 PRO

Two XRL connectors permits cascading of several A4-14 PRO from a single signal source.

The Tweeter Control permits compensation of treble output for room hardness or damping.

Auto-On button makes it possible to lock A4-14PRO in on-position, for external power switching.

The built-in "ACE-Bass" Subwoofer (a compact version of the world's most highly regarded Audio Pro B2-50 Subwoofer) uses 2 down-firing 5" long throw drivers in a bass-reflex enclosure with a 14 liter volume; and a built-in amplifier for flat response down to 30 Hz (-3 dB). The bass amplifier includes softclipping which minimizes the audibility of overload and the bass reflex tube is specially designed to avoid hiss and noise.



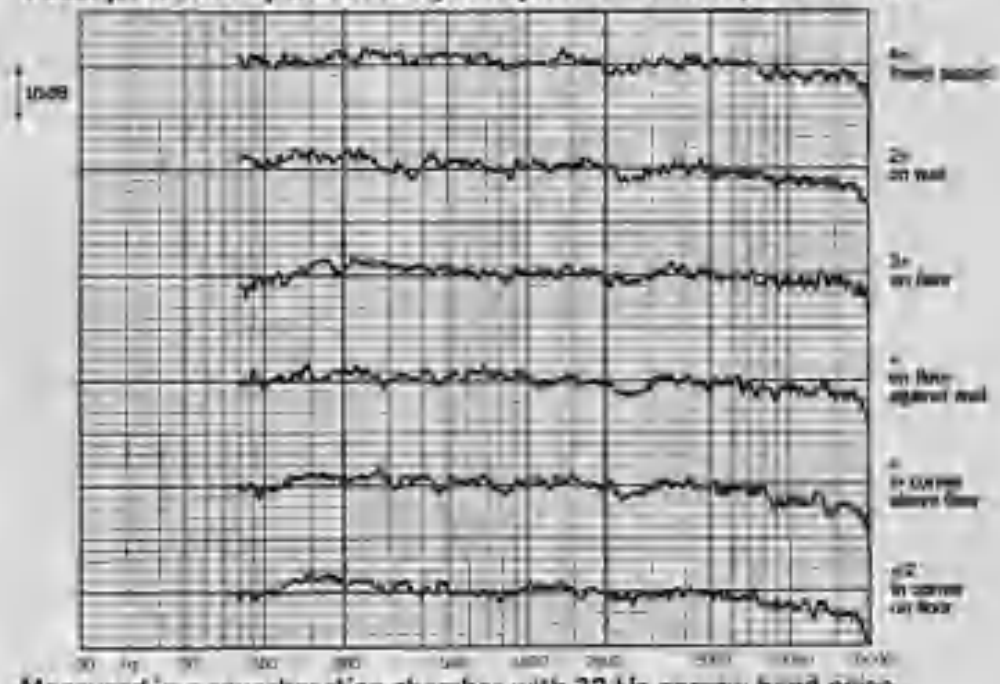
The Sensitivity Control permits the A4-14's to be driven directly from a pre-amp output or the speaker output of a receiver, and to match the level to the A4-14's to other speakers connected to the system.

The Woofer Control permits precise adjustments of bass outputs for placing the A4-14 in a corner ( $\pi/2$ ), on the floor against the wall ( $\pi$ ), free on the wall or floor ( $2\pi$ ) or free-standing ( $4\pi$ ). Optional speaker stands are available.

One of the drivers is mounted backwards, thus cancelling all even harmonic distortion. Triple-Overload Protection includes an electronic power dissipation sensor for the midrange driver and tweeter (which, unlike conventional limiting circuits, produces no distortion), thermal sensor on the heat sink, plus conventional fuses. Both the power amplifiers and the input stage are of high quality and designed with more than sufficient slewrate and speed and with low noise and distortion.

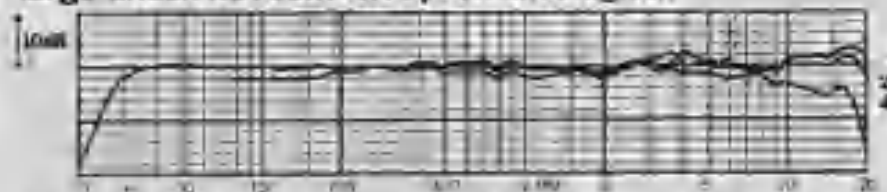
## SPECIFICATIONS:

Total power output vs. frequency for different placements:



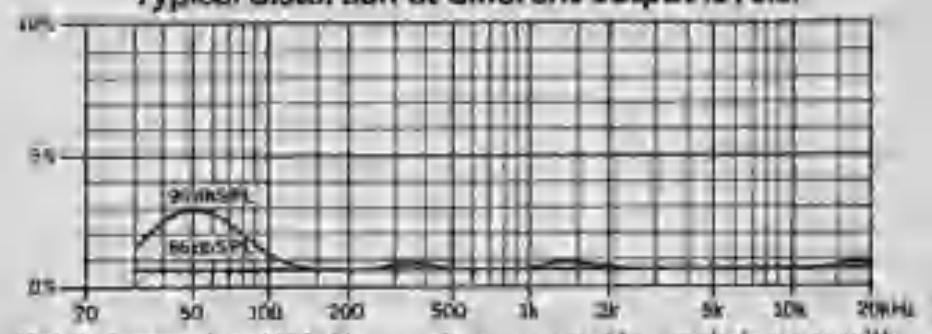
Measured in a reverberation chamber with 32 Hz narrow band noise. Treble control in zero position and bass control as stated above.

Frequency response under anechoic conditions, measured in a large anechoic room with pure sine signal:



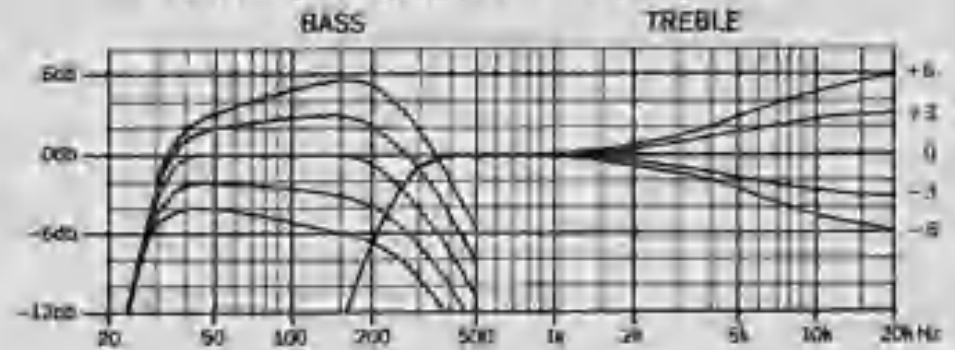
20Hz—200Hz curve: back against wall; microphone 0.32m from bass section; bass control in  $2\pi$  position. 80Hz—20kHz curve: freely placed, microphone 1.0 m in front of midrange driver, 0°, 20°, and 40° off axis horizontally; treble control in zero position and bass control in maximum position.

Typical distortion at different output levels:



Total of second and third harmonics measured in anechoic room with pure sine signal and 1/3 octave filters. Thus, lower distortion than 0.5% cannot be measured. Treble in zero position, bass in  $2\pi$  position.

Operating range of room matching controls:



POWER SUPPLY: 220—240 V, 50—60 Hz or 110—120 V, 50—60 Hz.

SIZE: 560 mm high x 280 mm deep x 320 mm wide (22" x 11" x 12-1/2")

WEIGHT: 19 kg net (42 lbs)

(U.S. Patent No. 4,118,600. Patents have been granted or are pending in most other industrial nations.)

# Loud and Proud

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