

ES - 224



CROWN
INTERNATIONAL

AURALINEAR SPEAKERS



WHY A CROWN SPEAKER?

We have asked ourselves that for years — knowing full well that none of the current speaker designs were up to the quality of the other CROWN components. You already know of the ultralow distortion figures on the D-60, D-150, and DC-300 amplifiers — and the incredibly low S/N figures of the IC-150 Pre-amp. But, although all speakers sound better with CROWN components, there has never been a transducer that could take full advantage of our component performance figures. That is, until the CROWN Auralinear line.

Using the basic design idea of electrostatic theory, CROWN, in association with many top men in the field of electrostatic design has come up with a new electrostatic — one that is truly linear over the entire audible sound spectrum and beyond — AURALINEAR sound!

Through the use of thinner membranes and improved production techniques, an electrostatic panel has been developed that has:

- 1) Extremely wide range — response between 350Hz and 32,000Hz — with no crossover between these frequencies. This lack of crossover between 350 & 32,000Hz produces a speaker with no phase shift interference patterns (no cancellations or additions at any point over the full range).
- 2) Because of the unique wide-range response, it is impossible to imbalance the midrange & tweeter.
- 3) At upper frequencies the mass of diaphragm effectively disappears contributing to the clean distortion free sound of the CROWN speaker.
- 4) Tolerance between wires that create the electrostatic field and the mylar diaphragm are kept so exact that variation in level produced from panel to panel is the lowest ever achieved.

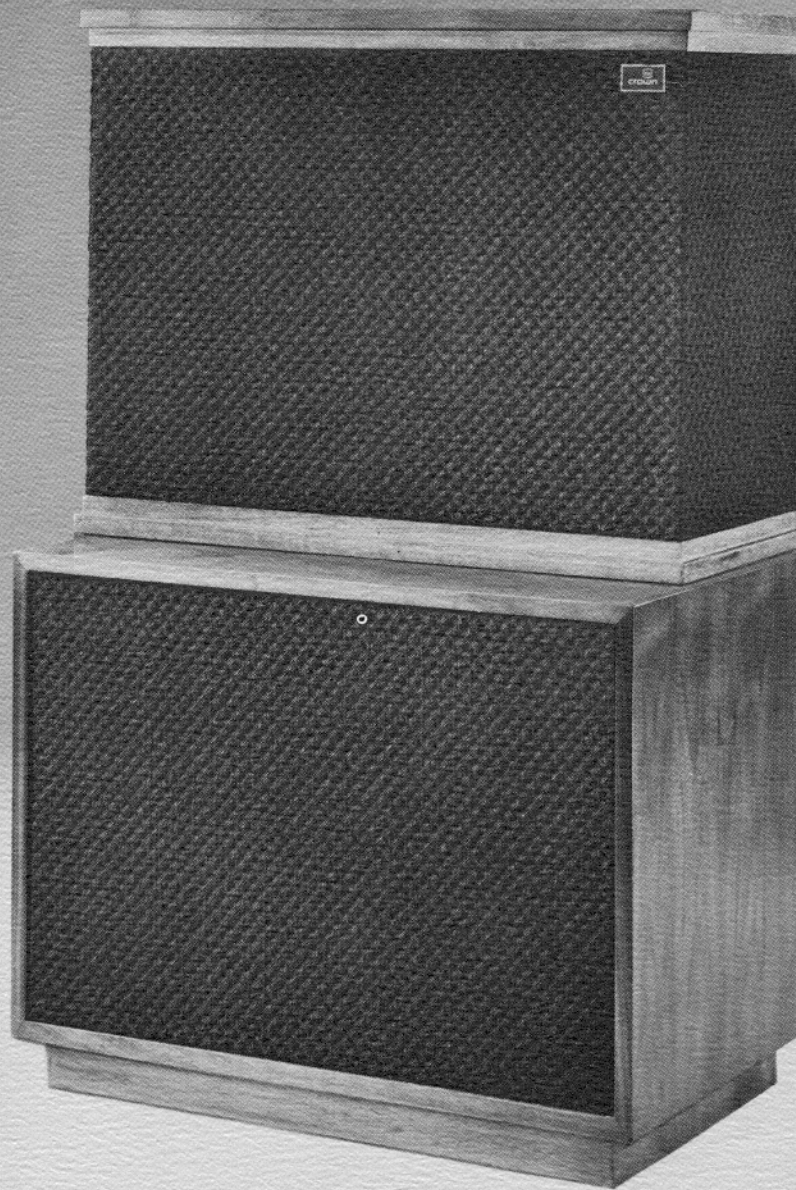
For the Bass section (below 350Hz), CROWN uses two - 10 inch woofers (one in the case of the ES 14's) in an acoustic suspension environment. The long-throw characteristic on the woofer permits realistic excursions at frequencies as low as ½Hz. The response of the CROWN woofer can be shown dramatically by watching it respond to the rumble on the quiet grooves of a record. Fundamental tones are solidly there. Yet, even in utilizing a separate woofer — it is impossible to hear the crossover point, even sweeping through it with a signal generator.

Greater Sound Pressure levels are obtainable than were before possible in an electrostatic. Measurements done in a 12' x 25' living room show levels of 116-122dB with the amplifier below clipping. Yet, this speaker is capable of enduring huge sustained power levels over long periods. (Typically, the ES 224 has sustained the full output of the DC-300, with a music source, for several hours. Needless to say, we left the room during this period.) The speaker showed no signs of stress, and only practical time limitation and the neighbors prevented us from continuing the test.

In addition, both the electrostatic and woofer sections are protected from over load by solid state circuit boards (separate circuits for each section), coupled with a resettable circuit breaker. Both visual and audible overload indications are provided.

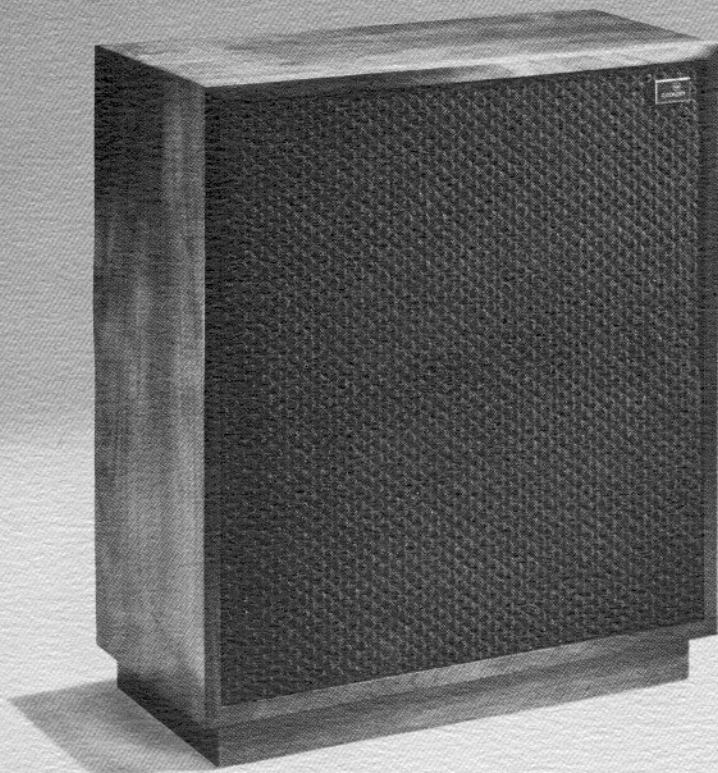
Visit your audio specialist and bring your own source material. The better your source material is, the more exhilarating the experience will be.

WARRANTY: The Crown Auralinear Line of Speakers is backed by the Crown total warranty! 3 years parts and labor and shipping to and from Crown.



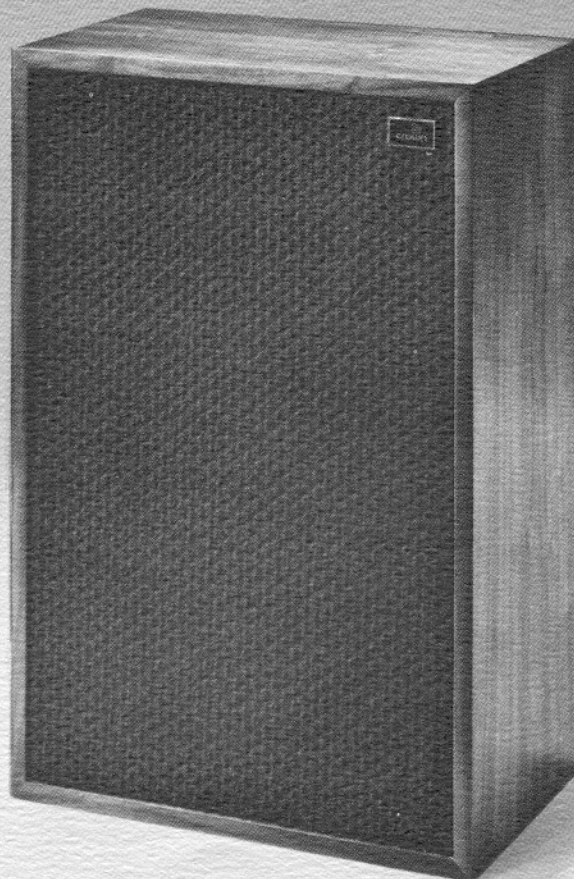
ES - 212

	ES - 212	ES - 224
Speaker Complement	2 - 10", 12-HF-150	2 - 10", 24-HF-150
Usable Frequency Response in Recommended Max. Room	22 Hz - 30 kHz	22 Hz - 30 kHz
Crossover Frequencies	375 Hz	350 Hz
Recommended Max. Room Size	4000 Cu. Ft.	6000 Cu. Ft.
Recommended Max. Amp Power	75 watt	150 watt
Dimensions: Tweeter	26 x 21 x 12 Deep	26 x 39 x 12 Deep
Woofer	26 x 21 x 16 Deep	26 x 21 x 16 Deep
Power Requirements	115 v, 60 Hz, 3w	115 v, 60 Hz, 3w
Special Features:	1. Dacron damping material in woofer enclosure. 2. Woofer exhibits absolutely no peakiness over entire range. 3. Seamless electrostatic response above 350 Hz from an all new extended range electrostatic high frequency radiator. No crossover points between 350 Hz and 30 kHz.	



	ES - 26
Speaker Complement	2 – 10" loaded 6-HF-100
Usable Frequency Response in Recommended Max. Room	25 Hz – 30 kHz
Crossover Frequencies	1500 Hz
Recommended Max. Room Size	4000 Cu. Ft.
Recommended Max. Amp Power	75 watt
Dimensions	24 x 27 1/2 x 12 Deep
Shipping Weight	70 lbs.
Power Requirements	115 v, 60 Hz, 3w
Special Features:	
	1. Dacron damping material in woofer enclosure.
	2. Woofer exhibits absolutely no peakiness over entire range.
	3. Seamless electrostatic response above 1500 Hz.

ES - 26



	ES - 14
Speaker Complement	1 – 10" 4-HF-100
Usable Frequency Response in Recommended Max. Room	30 Hz – 30 kHz
Crossover Frequencies	1500 Hz
Recommended Max. Room Size	2500 Cu. Ft.
Recommended Max. Amp Power	40 watt
Dimensions	18 x 27 1/2 x 12 Deep
Shipping Weight	60 lbs.
Power Requirements	115 v, 60 Hz, 3w
Special Features:	
	1. Dacron damping material in woofer enclosure.
	2. Woofer exhibits absolutely no peakiness over entire range.
	3. Seamless electrostatic response above 1500 Hz.

ES - 14



DIVISION OF INTERNATIONAL RADIO AND ELECTRONICS CORPORATION
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