

Five disturbing facts about loudspeakers no other manufacturer has the guts to tell you.



The Loudspeaker Jungle

and manufacturing philosophy, whether successful or not.

The remaining eighty are opportunistic marketing ventures, big and small, responding to the merchandising needs of stores, not the listening needs of the public.

2. About nine out of ten speaker manufacturers, the good guys as well as the bad guys, buy their drivers (woofers, tweeters, etc.) from outside suppliers in the U.S., Europe and Japan.

There are only a handful of these "raw speaker" houses and they stand ready to make anything their customers specify, from the most sophisticated drivers to the cheapest, a hundred thousand units or just five hundred.

There's nothing *inherently* wrong with assembling systems from other people's speakers, as long as a talented and experienced speaker designer is doing it.

At Rectilinear, we buy our drivers only from the best suppliers, who make them to our own rigid specifications to match the system designs we've developed. We make our own crossover networks and cabinets.

But not every manufacturer is like us.

3. Among the approximately twenty technologically and ethically respectable speaker brands, some six or seven are relevant only to a small coterie of dedicated audiophiles.

These are the avant-garde designs, utilizing electrostatic or other unconventional drive principles as well as diaphragms of exotic shape and construction.

In most cases, these speakers require special, expensive amplifiers and compulsive owners who enjoy fussing and fiddling.

4. The thirteen or fourteen speaker makers who are both serious and reasonably conservative, and among whom we confidently number ourselves, are hopelessly split on the issues of sound dispersion and speaker "personality."

Some believe, and so far we're one of them, that a speaker should radiate sound only forward, over as wide



The West Coast Sound

1. There are approximately one hundred different makes of "high fidelity" speakers sold in the United States, confronting the buyer with an incredible clutter of names, types, claims and counterclaims.

Of the hundred, no more than twenty are relevant, in the sense that they represent some sort of serious engineering effort



The Avant-Garde

an angle as possible. Others aim various drivers at the back wall or the ceiling, to bounce off the sound before it reaches the listener.

We feel that the arguments for the latter approach are unscientific and that the resulting sound is phony. (When somebody comes up with a reflective design that presents a correct spatial perspective, we may change our mind.)

As for personality or character, a speaker should theoretically have none, since it's a reproducer, not a musical instrument. *When two speakers sound different playing the same program material, at least one of them is wrong. Maybe both.*

But they do sound different, even in this heavily screened group.

There's the West Coast sound, for example, favored mainly by California-based firms and characterized by sizzling highs, a huge bass and lots of so-called presence. Everything a bit overstated and larger than life.

There's also the polite New England sound, with its origins in the Boston area. Nice and smooth, neutral, everything in its place, nothing shrill, but somehow muffled and less vivid than real life.

We believe that, despite their charms, both of these personalities are wrong. Only a totally characterless accuracy is right. What goes in must come out, no more and no less. Let the record producer create the type of sound you hear, not the speaker manufacturer. At least not Rectilinear.

5. There's also a new impediment to accurate sound reproduction: the epidemic of "three-dimensional" or "sculptured" speaker grilles made of polyfoam.

A speaker grille should be, above all things, acoustically transparent. There should be no audible, and virtually no measurable, difference in the output of the speaker with the grille on or off.

But the foam material these newfangled grilles are made of is the same as the appliance people use for muffling the mechanical noises of air conditioners!

RECTILINEAR SPEAKER SYSTEMS

Rectilinear III floor-standing speaker (6 drivers, 3-way crossover)	\$299.00
Rectilinear III Lowboy (6 drivers, 3-way crossover)	299.00
Rectilinear XII bookshelf speaker (3 drivers, 3-way crossover)	149.00
Rectilinear Mini-III bookshelf speaker (3 drivers, 3-way crossover)	109.00
Rectilinear XIa bookshelf speaker (2 drivers, 2-way crossover)	89.00

available, *our* grilles will remain prosaically two-dimensional.

So. Okay. Besides Rectilinear, are there any sincere, serious, nonexotic speaker companies that make forward-radiating, personality-less, accurate-sounding systems without 3-D grilles?

We don't know of any.

In our own cautious, methodical way, we're unique.

RECTILINEAR®

Rectilinear Research Corp., 107 Bruckner Blvd., Bronx, N.Y. 10454
Canada: H. Roy Gray Limited, Ontario



The Polite New England Sound



The 3-D Grille

How a reputable manufacturer can use a *sound deadener* for a speaker grille is beyond us, but everybody seems to be doing it.

Until acoustically transparent three-dimensional materials become

