



CARVER
Sonic Hologram Generator
Model C-9

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Think of artificial flowers.
Now think of a rose garden in full summer bloom.

Think of shaking hands.
Now think of making love.

That's the sensually-stunning leap beyond conventional stereo that the C-9 Sonic Hologram Generator provides.

We're not exaggerating. While the best you can claim from good stereo is that it "images between the speakers," Sonic Holography expands that postcard of sound into a magnificent cycloramic mural.

Wider than your speakers. Higher than your speakers.

Extending around you, closer than, yet many feet deeper than your speakers. A true three-dimensional stage.

The difference between a porthole and a picture window.

How does Sonic Holography work? Snap your finger a few feet from your right ear. That single "sonic event" resulted in two "sound arrivals." One to your right ear and one at your left ear. The two sounds differ at each ear by frequency distribution, time of arrival and sound pressure level and that's how you can tell where the sound came from. Now while ALL sound events in real life result in two sound arrivals, conventional stereo bombards the ear with FOUR sound arrivals: two per speaker per ear, a muddled and completely different set of cues than your ear-brain system has learned to process over a millenia of evolutionary adaptation.

Put simply, Sonic Holography CANCELS, in the air and acoustic space around you, two of the four sound arrivals, restoring stereo program sources to a much more lifelike form which our ear-brain system can process realistically.

Executionally this simple effect is an extremely complicated process of generating interference signals which perfectly cancel the spurious extra sound arrivals with a complex, ever-varying sequential mix of spectral shading and time domain correction based on interaural ear spacing. The result is a psychoacoustic filtering of all but the true sound destined by nature to reach right and left ear. Once again, as in live listening, each ear is receiving only the information intended, by placement, for it.

Don't confuse Sonic Holography's natural sound with the plethora of artificial ambient additions and speakers which abound today. While they toss off terms such as "random reflection" and "spacial extension," the achievement of a merely "spacey" sound inevitably comes with the cost of even more confusing sound arrivals and sonic smearing. By making sound more NATURAL, the C-9 will never tire a listener the way mere "stereo enhancement" devices often can sound.

High Fidelity magazine said it "seems to open a curtain and reveal a deployment of musical forces extending behind, between and beyond the speakers."

Julian Hirsch of Hirsch-Houck Labs noted, "...the effect strains credibility."

Hal Rogers of Popular Electronics observed that, "...when the lights were turned out we could have almost sworn we were in the presence of a real live orchestra."

Example: TIME from DARK SIDE OF THE MOON by PINK FLOYD. Every clock, and there are many more than you would have believed, comes from an exact location. Did you know they were laid out in rows?

Example: OPUS 68 from FALSTAFF (symphonic Study in C Minor) by ELGAR. Every section of the orchestra has its own location within the listening room. You can even discern Second and Third violin sections and the exact location of the violas!

Example: ATOMIC from EAT TO THE BEAT by BLONDIE. It is actually possible to count the number of tracks laid down on this multi-track vocal number, a startling effect.

Example: ALLEGRO OPUS 14 from ROMANCE DE AMOR by KAZUHIITO YAMASHITA. Solid non-smearing imaging slightly akin to mono, until you realize you can follow the fretting and hand movement along the instrument as well as the resonance from each string pluck.

Example: Your Favorite Album, whatever style of music it may be.

The C-9 connects in seconds to any receiver, integrated amplifier or pre-amp having an external effects loop or tape monitor circuit.

The C-9 works with virtually any kind of multiple-element speaker, even electrostatic, reflecting and mini-monitor types.

Unlike expanders and equalizers it does not draw excessively more amp power.

And it does not require any separate amps or rear speakers as do spacial simulators.

Since two radically different types of recording techniques are used in modern recording (two-microphone and multi-mike/mixdown), two different processing modes are provided. Theoretical

and Normal. Also, to enhance the effect in rooms with less than optimum acoustics, a Listening Aperture switch is provided for Normal and Narrow settings.

And there IS a switch to take the Sonic Holography circuitry in and out of the signal chain. Yet, once installed we're certain you'd no sooner do without the C-9 than you'd trade your speakers for a transistor radio. The switch becomes solely a way of showing your friends what they're missing.

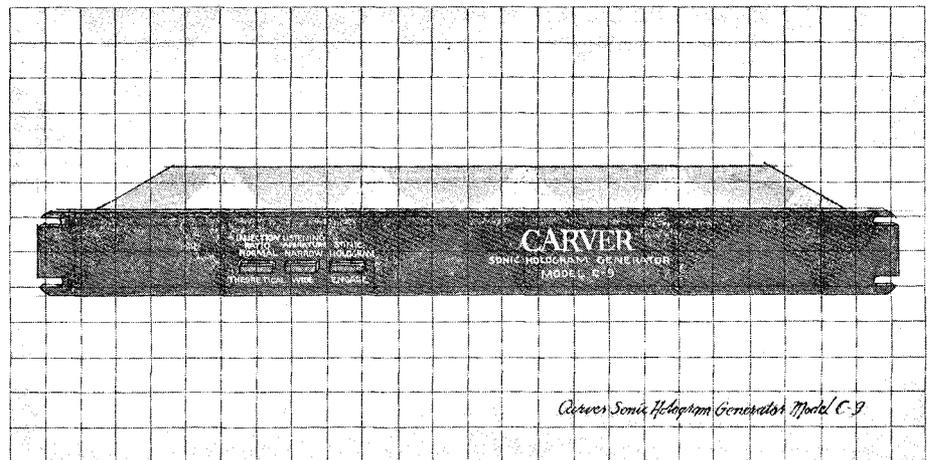
Quite frankly, while Sonic Holography works with virtually any speaker system, it requires precise attention to initial speaker placement and acoustics. This initial set-up is made easier by detailed, lucid instructions and rewards the listener with a quantum leap in sound reality, whether you fancy Lizst or Led Zep.

No matter how many years you have spent building up your system, you will have doubled its effectiveness in a matter of hours with the simple addition of the C-9.

Instead of adding and complicating your sonic landscape you've actually brought it into better focus by eliminating spacially confusing noise. The result is not just an improvement in sound, it is an improvement on what you always thought was sonic reality. Ask for a demo today.

Specifications:

Rated Output, 2 Vrms; Maximum Output, 6 Vrms; Distortion, THD, less than 0.05% 20Hz-20K Hz, IM Distortion, less than 0.05% SMPTE, TIM Distortion, Unmeasurable; Noise, < 100 micro volts, A-weighted; Sonic Hologram Generator, Image resolution, 5° horizontal, 20° vertical in Theoretical mode; Dimensions, 1 3/4" x 3 7/8" x 19", fitting standard rack mount; Weight, 3.5 lbs, (1.6 kg), Utilities, 1 unswitched 110V outlet.



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