

809A TIME ALIGN® STUDIO MONITOR



FEATURES:

Flat power response maintains frequency balance at low distortion over wide range of output levels

Time Align® design achieves accurate time domain response, minimizing fatigue while listening at high sound pressure levels

One-point sound source

Highly controlled sound field over entire frequency range

Accurate stereophonic imaging

Consistent ratio of direct to reverberant sound

Since their introduction the UREI Time Align® studio monitors have continually been installed in more and more recording studios and broadcast production facilities worldwide to replace older (and some newer) monitor designs.

Now a Time Align® monitor is available for the smallest control room or near-field monitoring in any room. The Model 809A features an all-new 300 mm (12 in) coaxial loudspeaker developed by UREI engineers. Utilization of the latest advances in materials and fabrication technology has provided another coaxial loudspeaker system for the UREI 800-Series "family" with the following characteristics:

High sensitivity.

High power handling capability.

Extended high frequency response.

Reduced transient distortion (ringing).

The coaxial loudspeaker incorporates a titanium diaphragm compression driver in the high-frequency section which extends the high frequency response envelope to beyond 17.5 kHz.

UREI

The 809A monitor has the patented high frequency horn with its diffraction buffer for correct acoustic impedance matching and smooth out-of-band-response. The ceramic magnet structures used on the drivers assure that the sensitivity of the system will not tend to degrade with time, even under continuous use at high monitoring levels.

The UREI 809A monitor uses a 300mm (12 in) coaxial driver to provide a true one-point sound source, tight bass, superior stereo imaging, and all of the other characteristics expected from studio monitors by UREI.

TIME OFFSET CORRECTION

Even though a coaxial loudspeaker delivers the entire frequency spectrum from one source, the voice coils of the two transducers are displaced from each other, and the low and high frequency portions of a sound do not arrive at the listener's ear at the same time. This phenomenon, called "time smear," can be extremely fatiguing, particularly after several hours of critical listening.

UREI, in a joint engineering project with E.M. Long Associates, perfected the first professional utilization of the Time Align® technique, which considers driver placement and adjusts crossover group delay parameters to achieve simultaneous arrival of the sounds from both sections of the coaxial loudspeaker at the listener's ear. The result is a uniform sound which is not fatiguing, even at the high levels required in recording studio control rooms.

MIRROR IMAGE

For stereo applications, all UREI monitors are available in mirror imaged pairs for superior stereo reproduction and centering at the listening position.

UREI TIME ALIGN® MONITOR SPECIFICATIONS

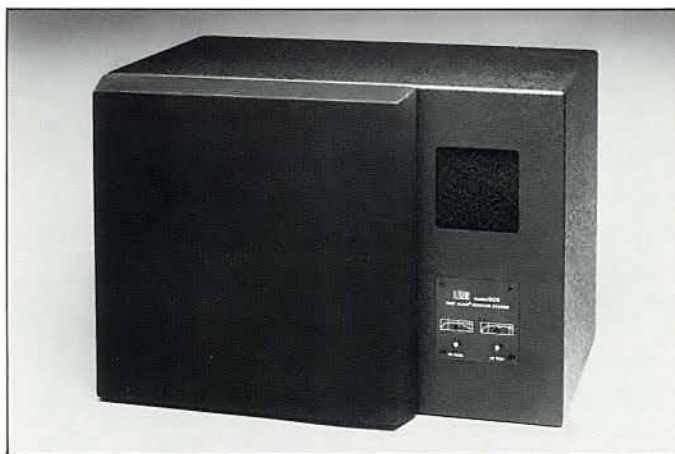
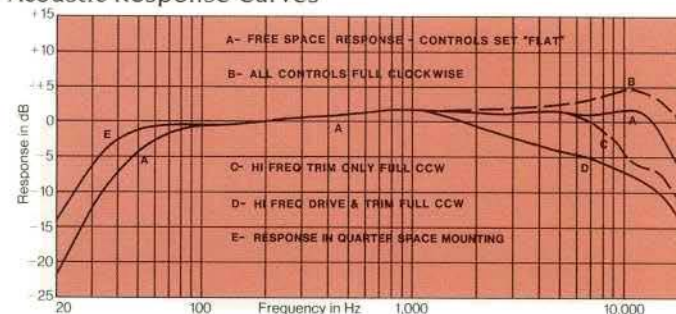
Model 809A

SPEAKER COMPLEMENT	Single Coaxial
POWER RATING	100 watts ¹
FREQUENCY RESPONSE	50 Hz-17.5 kHz \pm 3 dB
SENSITIVITY	93 dB SPL/watt/meter
IMPEDANCE	8 ohms, nominal (minimum > 6 ohms)
ENCLOSURE	Approx. 65 L (2 3/4 ft) ²
WEIGHT	27 kg (60 lb)
SHIPPING WEIGHT	34 kg (75 lb)
DIMENSIONS:	
Height	584 mm (23 in)
Width	419 mm (16 1/2 in)
Depth	343 mm (13 1/2 in)
Depth with grille	406 mm (16 in)
ENCLOSURE FINISH	Utility Flat Black Painted
OPTIONAL GRILLE	809GA

¹Time Align® and its derivatives are trademarks of E.M. Long, Assoc., Oakland, CA

²Rating based on test signal of filtered random noise conforming to international standard IEC 268-1 (pink noise with 12 dB per octave rolloff below 40 Hz and above 5000 Hz with a peak-to-average ratio of 6 dB).

Acoustic Response Curves



Model 809A shown with optional grille (809GA).

JBL/UREI continually engages in research related to product improvement. New materials, production methods, and design refinements are introduced into existing products without notice as a routine expression of that philosophy. For this reason, any current JBL/UREI product may differ in some respect from its published description but will always equal or exceed the original design specifications unless otherwise stated.