



# SPEAKER SYSTEMS



## THE RSL PHILOSOPHY

After over 10 years as a loudspeaker manufacturer, we are extremely proud of the popularity of RSL Speaker Systems. There are many brands of speaker systems available to the consumer today. Yet only a limited number of them possess distinctive qualities that make them worthy of their existence in the marketplace. At RSL Speaker Systems we believe that our design philosophy has been directly responsible for the success of our loudspeakers.

A truly great speaker system must be very accurate, having instantaneous transient response, wide frequency response with low distortion, precise stereo imaging, exceptional dynamic range and the ability to handle large amounts of power without damage or distortion. It's also imperative that it is superbly constructed in order to last many years without degradation of any of these qualities.

## THE RSL EXECUTION

In order to obtain these desirable performance characteristics, at RSL Speaker Systems we regard every part of the speaker system with equal importance. Our standards demand the highest quality construction features. All RSL transducers (woofers, midranges, and tweeters) have large magnet structures and high temperature voice coils. We manufacture our own crossovers with the finest components in the industry. Our enclosures are hand built, placing strict emphasis on overall finish, matching of grain patterns, and quality of construction. For acoustical reasons, we insist on perfect panel fit to assure airtightness. We subject every part we use to stringent quality control both before and after assembly. Many of these procedures are costly and very time consuming. However, we believe that an extensive listening experience will easily convince you that it's well worth the effort.

## THE RSL STUDIO MONITORS

Probably the most critical demands put upon a speaker system today are those made in the recording studio, both in power handling and in sound accuracy. There the engineers make the crucial decisions (from the initial placement of the microphones, through hours of mixdown sessions, to the finished product on the master tapes). This is why it's so essential that the 'studio monitors' used must be capable of delivering clean, crisp, lifelike reproduction at live-performance volume levels.

Since the introduction of the original RSL Studio Monitor in 1970, many loudspeaker brands have donned the name 'studio monitor'. However, RSL Studio Monitors have remained a favorite of the professional music industry. Our thousands of satisfied customers include radio stations, recording studios, discos, colleges, and musicians, as well as perfectionists like yourself who hunger for absolute musical accuracy. Using high efficiency, heavily damped bass reflex enclosures, these designs don't require enormous amounts of power for proper results.

## THE RSL 3300 STUDIO MONITOR

Continuing in the tradition of the original RSL Studio Monitor, the RSL 3300 Studio Monitor has a heavy-duty 12-inch woofer and a highly-compliant 5-inch midrange driver. It incorporates



RSL 3300 Studio Monitor Components

RSL 3600 Studio Monitor Components



RSL 3600 Studio Monitors in a Modern Recording Studio

a new 3/4-inch dome tweeter to extend high frequency response with improved dispersion and greater definition. In addition to the traditional black 'studio finish', we offer the RSL 3300 Studio Monitor in an all new genuine walnut cabinet with independently removable grilles (one covering the drivers, the other the control panel), divided by a solid walnut accent strip.

**THE RSL 3600 STUDIO MONITOR**

Our finest shelf speaker system, the RSL 3600 Studio Monitor uses the same components as the RSL 3300 Studio Monitor, except the tweeter.

This high efficiency 1-inch dome tweeter combines smoothness with fast transient response in high power applications. The RSL 3600 Studio Monitor is available in the black 'studio finish' or an attractive genuine walnut enclosure with a unique full walnut front.



**RSL 3300 STUDIO MONITOR**

**RSL 3600 STUDIO MONITOR**

## THE RSL WOOFERS

In all high fidelity loudspeaker systems, the greatest power demands are put upon the low frequency drivers. All RSL woofers have been carefully engineered and painstakingly manufactured for high power handling capability as well as for maximum efficiency. This has been achieved primarily through the use of oversized 6½ pound magnet assemblies and large 2-inch high-temperature voice coils with four layer windings on aluminum formers. All machining and assembly procedures are done to precision tolerances to reduce magnetic losses and assure optimum alignment of the voice coil in the gap.

Our 'studio monitor' woofer is employed in the RSL Studio Monitors, the RSL Nevada, and the RSL 6600H, which uses two. This transducer has a rigid ribbed cone with a specially treated cloth accordion edge for long throw excursions and powerful bass response. In the RSL Nevada, an additional similarly constructed 8-inch woofer increases the total radiating area to greater than that of a 15-inch driver. The RSL Sierra has a specially designed 12-inch woofer with foam roll surround carefully engineered to match the 12-inch passive radiator for extended low frequency output.

## THE RSL MIDRANGE

The most critical portion of the frequency spectrum (middle tones such as strings, piano, and the human voice) is also the most difficult to accurately reproduce. We have designed a 5-inch midrange driver with a special cone that demonstrates the seemingly opposite virtues of lightness and stiffness. It features a 1-inch high temperature aluminum voice coil and a 1.5 pound magnetic assembly. This unit has a sealed back to form an acoustically independent enclosure and critically damp its output to optimize natural response characteristics.



## THE RSL SIERRA

This attractive column speaker system requires only a little over one square foot of floor space. With the accuracy of our studio monitors, this giant tower configuration yields deeper bass while projecting a larger sound image. The RSL Sierra, a 3-way system, features our heaviest 12-inch woofer used in conjunction with a 12-inch passive radiator for noticeably deeper and tighter bass response. Midrange frequencies are clearly reproduced by a high efficiency 5-inch driver. A special 1-inch polycarbonate dome tweeter exhibits excellent dispersion characteristics

while matching the other drivers in efficiency and clarity.

The cabinet of the RSL Sierra is beautifully hand crafted to enhance any decor. The long, uninterrupted slab side panels are offset by a sleek fabric grille. Removal of this panel reveals the driver complement and adjustable midrange and tweeter controls. The RSL Sierra is available with either genuine walnut or genuine oak veneered enclosure.



RSL Sierra Components



**THE RSL CROSSOVER NETWORKS**  
 To extract optimum performance from all drivers and provide a smooth transition between them, we have engineered crossovers with advanced circuitry using the finest quality components. Saturation-free inductors are wound with 18 gauge copper wire to eliminate transient and harmonic distortion at all power levels. We use costly military spec. mylar capacitors to guarantee long term stability and eliminate power losses. Fully adjustable heavy-duty wire-wound L-pad controls are provided to regulate the levels of the mid and high frequency drivers. This compensates for deficiencies in room acoustics and accommodates personal preferences. Our systems have fuses and/or electronic tweeter protection circuits in order to help prevent damage from accidental misuse. On the back of each speaker we provide easy to connect push terminals (no tools required) which accept large speaker wires.

**RSL NEVADA**

**THE RSL NEVADA**  
 Slightly larger than the average shelf type speaker system, the RSL Nevada delivers astounding accuracy associated with only the largest theater or concert hall sound systems. It effortlessly reproduces any type of music with exceptional realism, superior definition, accurate imaging, and silky smoothness. The extreme high efficiency of this speaker system can be attributed to the matched 8-inch and 12-inch woofers. These drivers combine for bass performance surpassing that of

a 15-inch woofer. An RSL 5-inch midrange reproduces critical middle frequencies with closely matched efficiency. The RSL Nevada employs the same high output compression horn tweeter used in the RSL 6600H, monitored by our exclusive RSL tweeter protection circuit.

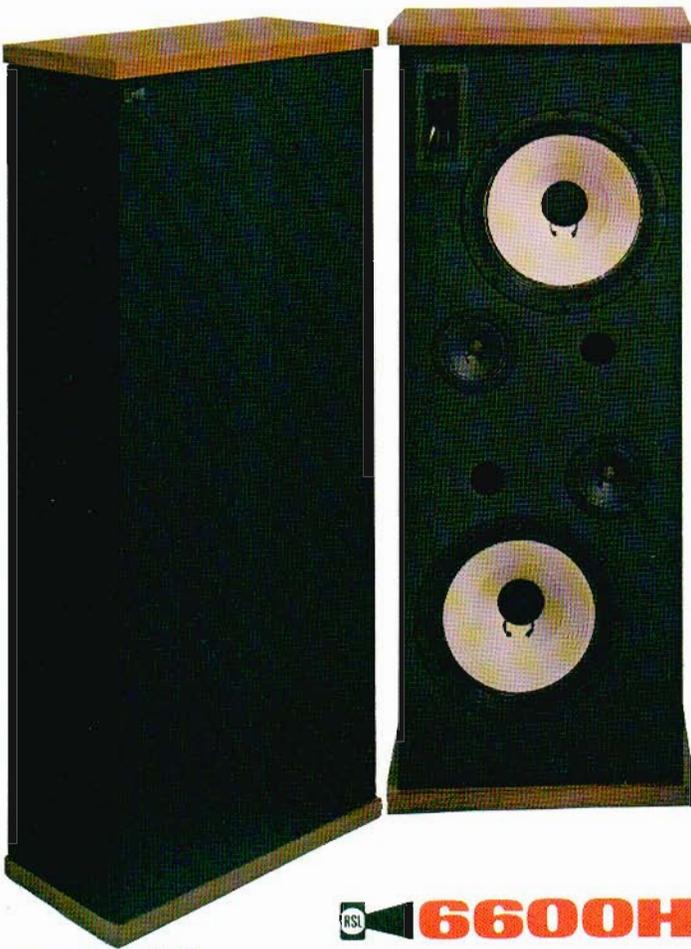
The RSL Nevada is available in a black 'studio finish' enclosure with separate grilles (one for the drivers, one for the midrange and tweeter controls) separated by a solid walnut accent strip. A beautiful genuine walnut veneer enclosure with radiused corners is also available. This cabinet has a separately removable solid walnut panel which conceals the tweeter and midrange controls.

**THE RSL ENCLOSURES**  
 An extremely important area in the design of a loudspeaker is the enclosure. Each RSL speaker cabinet is engineered to obtain the optimum performance from all transducers as well as to integrate them to perform as a system. We use 3/4-inch (or thicker) high density particle board on all panels for maximum strength. Our carefully mitered joints assure perfect panel fit and critical airtightness. Acoustic damping material is abundantly applied to all interior surfaces to eliminate standing waves inside the enclosure. All drivers are mounted with specially formed, expanded foam gaskets to eliminate air leaks and vibrations.

At RSL Speaker Systems, we place great importance upon furniture quality craftsmanship. We use only the finest walnut and oak veneers and solid walnut trim. The 'studio finish' cabinets are finished with a durable satin black lacquer.



RSL Nevada Components



## 6600H

### THE RSL 6600H

This giant column speaker is our most powerful system. Intended for high volume, low distortion applications, the RSL 6600H is a favorite in larger studios, theaters, discos and top quality home installations. Specifically engineered for these conditions, this is our highest efficiency design. Thus, it can operate properly with almost any amplifier or receiver ranging from the lowest to the highest wattage output. This allows unprecedented flexibility in the selection of hi-fi components to be used in conjunction with the RSL 6600H speaker system.

Because of the extreme demands put upon a loudspeaker used under such conditions, rugged construction is absolutely essential. All components and materials used in the RSL 6600H have been specially selected for their longevity as well as their critical role of accurately reproducing music.

In large playback monitor systems, virtually every top recording studio employs costly compression horn tweeters such as the Electro-Voice unit we use in the RSL 6600H. This transducer exhibits excellent transient response due to the low mass and minimal excursion of its diaphragm. It is able to sustain high power input with the aid of our exclusive RSL tweeter protection circuit.

To match the high efficiency of the horn tweeter, we have employed two midranges. These 5-inch drivers feature a special cone material which is light yet stiff, yielding sharp focusing of the critical middle tones such as voice, strings and piano. These units have sealed backs forming acoustically independent enclosures. Their output is critically damped to optimize natural response characteristics.

Many speaker systems that employ horn drivers do not have sufficient bass output to match that of the horn. In the RSL 6600H, we use two of our 'studio monitor' 12-inch woofers to yield extremely high efficiency and power handling capacity.

The RSL 6600H crossover network features the same construction as our 'studio monitors' with the addition of a higher power L-pad for the midrange control.

The huge monolithic form of the 6600H enclosure reflects the solidity of its construction. This painstakingly engineered tower configuration has twin sub-enclosures with reflex tubes to extend the bass response. To afford maximum strength and eliminate cabinet resonance, the enclosure is constructed with full 3/4-inch interlocking baffles and side panels. The extra thick 1-inch top and bottom pieces are veneered with specially selected genuine walnut. The sleek wraparound three-sided grille panel is covered with acoustically transparent black knit fabric.



RSL 6600H Components

## THE RSL MINICRON 100

Advanced speaker technology has resulted in a small speaker capable of performance previously associated only with much larger systems. The RSL Minicron 100 can be used in the home, automobile, recreational vehicle, or in the studio as a mixdown monitor. Compact in size, the RSL Minicron 100 can solve almost any space problem with very satisfying sound reproduction. In the smaller listening area of the typical automobile, the RSL Minicron 100 is capable of reproducing full range sound when properly matched with a booster amplifier/equalizer. In the larger listening area of the home, it will reproduce smooth, accurate sound in all ranges except the extreme bottom end. These marvels of miniaturization deliver performance considered excellent without regard to size.

The die-cast aluminum enclosure of the RSL Minicron 100 performs as well as or better than larger wooden enclosures. The 4 inch (10 cm) woofer has a large magnet structure and enormous cone excursion that moves a surprising amount of air. This same driver also accurately reproduces the critical midrange frequencies with ease. This impressive bass and midrange performance is coupled with the smooth response of the high frequency driver. This 1 inch (2.5 cm) soft dome tweeter is very similar to those used in larger and more expensive European speaker systems. The low distortion crossover network uses very tight tolerance components including a low-loss air-core inductor. The RSL Minicron 100 also features our exclusive RSL tweeter protection circuit and easy to connect push terminals. A pair of 'easy to install' swivel mounting brackets are included along with all necessary mounting hardware.



**RSL MINICRON 100**

## THE RSL HEADPHONES

Throughout our history, RSL Speaker Systems has been strictly a manufacturer of high quality loudspeaker systems. With the introduction of the RSL headphones, we can now provide the famous sound of RSL speaker systems for your private private enjoyment. Like RSL speaker systems, these RSL headphones offer exceptional sound performance at very affordable prices.

Now, through the form of a personal listening experience, you can appreciate many of the distinctive qualities that make RSL products so desirable.

We have approached the design of these headphones with the same philosophies we apply to the design of our loudspeaker systems. All materials and component parts have been specified to be of the highest quality in order to insure lasting performance.

### THE RSL H-1

This headphone is intended to permit private listening while isolated from ambient noise, with minimum weight. The soft, foam-filled, vinyl ear cushions create the necessary seal for extended linear bass response. The coiled cord allows greater flexibility for movement by the listener. The headband is foam padded for hour-after-hour listening comfort.

### THE RSL H-2

This lightweight open-air model utilizes the most up-to-date thinking in stereo headphone design. Weighing less than 8 ounces, these headphones don't induce the usual fatigue associated with headphone listening. The back sound pressure is vented through the rear of the earcups without raising resonance or inhibiting transient response. With this hear-thru design you still hear what goes on around you.



**RSL H-1**

**RSL H-2**

SPECIFICATIONS	RSL 3300	RSL 3600	RSL SIERRA	RSL NEVADA	RSL 6600H
WOOFER					
Diameter	12 in (30 cm)	12 in (30 cm)	12 in (30 cm)	12 in (30 cm)/8 in (20 cm)	Two 12 in (30 cm)
Magnet Structure	6.5 lbs (3 kg)	6.5 lbs (3 kg)	6.75 lbs (3 kg)	6.5 lbs (3 kg)/4 lbs (1.8 kg)	6.5 lbs (3 kg)
Voice Coil Diameter	2 in (5 cm)	2 in (5 cm)	2 in (5 cm)	2 in (5 cm)/1.5 in (3.8 cm)	2 in (5 cm)
PASSIVE RADIATOR					
Diameter			12 in (30 cm)		
MIDRANGE					
Diameter	5 in (12.7 cm)	Two 5 in (12.7 cm)			
Magnet Structure	1.5 lbs (680 g)	1.5 lbs (680 g)			
Voice Coil Diameter	1 in (2.5 cm)	1 in (2.5 cm)			
TWEETER					
Diameter	.75 in (1.9 cm)	1 in (2.5 cm)	1 in (2.5 cm)	2 x 5.25 in (5 x 13.3 cm)	2 x 5.25 in (5 x 13.3 mm)
Magnet Structure	10 oz (285 g)	1.25 lbs (567 g)	1 lb (454 g)	1.5 lbs (680 g)	1.5 lbs (680 g)
Voice Coil Diameter	.75 in (1.9 cm)	1 in (2.5 cm)	1 in (2.5 cm)	1 in (2.5 cm)	1 in (2.5 cm)
ENCLOSURE					
Type	Bass Reflex	Bass Reflex	Passive Radiator	Acoustic Suspension	Bass Reflex
ELECTRONIC NETWORK					
Crossover Frequencies	800 & 5000 Hz	800 & 5000 Hz	1000 & 5000 Hz	1000 & 4000 Hz	800 & 4000 Hz
Crossover Slopes	6 dB/Octave	6 dB/Octave	6 dB/Octave	6 dB/Octave	6 dB/Octave
CHARACTERISTICS					
Frequency Response	35 Hz to 22 KHz	35 Hz to 22 KHz	25 Hz to 22 KHz	28 Hz to 20 KHz	25 Hz to 20 KHz
Efficiency*	87 dB	87 dB	88 dB	90 dB	96 dB
Nominal Impedance	8 Ohms	8 Ohms	8 Ohms	4 Ohms	4 Ohms
System Resonance	71 Hz	71 Hz	30Hz	61 Hz	70Hz
POWER CAPACITY					
Recommended Minimum	15 Watts RMS	15 Watts RMS	15 Watts RMS	10 Watts RMS	8 Watts RMS
Maximum Power**	125 Watts RMS	125 Watts RMS	150 Watts RMS	160 Watts RMS	200 Watts RMS
DIMENSIONS					
Height	25 in (63.5 cm)	25 in (63.5 cm)	40 in (101.6 cm)	26.5 in (67.3 cm)	46 in (116.8 cm)
Width	14.5 in (36.8 cm)	14.5 in (36.8 cm)	14.5 in (36.8 cm)	17 in (43.2 cm)	18 in (45.7 cm)
Depth	11.5 in (29.2 cm)	11.5 in (29.2 cm)	12.5 in (31.8 cm)	13.5 in (34.3 cm)	11 in (27.9 cm)
Shipping Weight	49 lbs (22 kg)	50 lbs (23 kg)	71 lbs (32 kg)	63 lbs (29 kg)	90 lbs (41 kg)
LIMITED WARRANTY					
Parts and Labor	Five Years	Five Years	Five Years	Five Years	Five Years

SPECIFICATIONS	RSL MINICRON 100
WOOFER	
Diameter	4 in (10 cm) Cone
Magnet Structure	1.4 lbs (635 g)
Voice Coil Diameter	1 in (2.5 cm)
TWEETER	
Diameter	1 in (2.5 cm) Dome
Magnet Structure	14 oz (400 g)
Voice Coil Diameter	1 in (2.5 cm)
ENCLOSURE	
Type	Acoustic Suspension
ELECTRONIC NETWORK	
Crossover Frequencies	2500 Hz
Crossover Slopes	6 dB/Octave
CHARACTERISTICS	
Frequency Response	70 Hz to 20 KHz
Efficiency*	94 dB
Nominal Impedance	8 Ohms
System Resonance	130 Hz
POWER CAPACITY	
Recommended Minimum	10 Watts RMS
Maximum Power**	30 Watts RMS
DIMENSIONS	
Height***	7 in (177 mm)
Width***	4.5 in (114 mm)
Depth***	4 in (102 mm)
Shipping Weight (Pair)	10.5 lbs (4.77 kg)
LIMITED WARRANTY	
Parts and Labor	Two Years

SPECIFICATIONS	RSL H-1	RSL H-2
DRIVER		
Type of Element	Dynamic Coaxial	Dynamic Coaxial
Diaphragm Material	Polyester "Mylar"	Polyester "Mylar"
Diaphragm Diameter	2 in (50 cm)	2 in (50 cm)
Voice Coil Diameter	0.5 in (1.27 cm)	0.5 in (1.27 cm)
PHYSICAL PARAMETERS		
Earcushions	Foam-filled Vinyl	Soft Acoustical Foam
Headband	Stainless Steel	Molded Plastic
Cord	Coiled Extends to 9 Ft	9 Ft
Connection	3 Conductor Plug	3 Conductor Plug
SYSTEM CHARACTERISTICS		
Frequency Range	20 Hz to 22 KHz	20 Hz to 22 KHz
Sensitivity	100 dB	100 dB
Matching Impedance	4 to 16 Ohms	4 to 16 Ohms
Maximum Input	0.5 Watt	0.5 Watt
WEIGHT		
Without Cord	9.5 oz (271 g)	7.2 oz (206 g)
Shipping Weight	15 oz (428 g)	12 oz (343 g)
LIMITED WARRANTY		
Parts and Labor	One Year	One Year

#### THE RSL WARRANTIES

First, you must be totally satisfied with your RSL speaker systems. We guarantee they will sound great in your home. If for any reason they don't completely live up to your greatest expectations, we'll be more than happy to take them back within seven days and cheerfully refund your money.

Second, all RSL speaker systems, with the exceptions of the RSL Minicron 100 and the RSL H-1 and RSL H-2 headphones, have a liberal five year warranty on both parts and labor. Please read the complete terms in our stores or on the back of the speaker system.

Third, in the unlikely event that warranty repairs are needed, our service is the quickest around, usually completed in less than seven days from the time we receive the speaker system for repair.

\* Measured with 1 Watt input at 1kHz at 1 Meter

\*\* Note: Higher powered amplifiers may be used if care is taken to not operate the speakers at maximum amplifier power for extended periods of time.

\*\*\* Measurement does not include mounting brackets.



8381 Canoga Avenue, Canoga Park, California 91304 (213)882-4600/873-3051