TO DEVELOP THE NEW ILLUSION AUDIO SPEAKER LINE WE COMBINED OUR DECADES OF EXPERIENCE MANUFACTURING HIGH-END AUDIOPHILE SPEAKERS WITH OUR PASSION FOR MAXIMUM PERFORMANCE MOBILE AUDIO. THE DEVELOPMENT PROCESS COVERED SEVERAL YEARS AND COUNTLESS HOURS OF LISTENING TO EACH INDIVIDUAL MODEL IN ORDER TO FINE TUNE MUSICAL QUALITY AND DURABILITY. WE APPLIED THE HIGHEST AVAILABLE TECHNOLOGIES IN CONSTRUCTION MATERIALS, FINITE ELEMENT ANALYSIS ENGINEERING AND MANUFACTURING TO DEVELOP SPEAKERS THAT ARE COMPACT AND LIGHTWEIGHT FOR EASY INSTALLATION WITHOUT MAKING ANY PERFORMANCE COMPROMISES.

THE ILLUSION DIFFERENCE
TRUE AUDIOPHILE SOUND THROUGH INNOVATION

FROM THE BEGINNING, THE GOAL OF ILLUSION AUDIO WAS TO DEVELOP THE TECHNOLOGY TO BRING THE TRUE HOME AUDIOPHILE SOUND FROM THE LISTENING ROOM INTO THE CAR. THESE UNIQUE FEATURES TRULY SEPARATE ILLUSION AUDIO FROM THE REST OF THE CAR AUDIO WORLD.

FRONT-LOADED MAGNET WOOFERS
THE WOOFER ON THE CARBON AND LUCENT 2-WAY COMPONENTS ARE A 5-INCH MAGNETIC MOTOR THAT IS MOUNTED ON THE FRONT SIDE OF THE CONE. THIS ARRANGEMENT OFFERS TWO DISTINCT ADVANTAGES:

Installation: One advantage is that because the magnet is positioned in front, the driver itself is significantly shielded which greatly increases installation options.

Better Cooling: A second advantage is that since the front-mounted magnet is outside of the enclosure, it doesn’t take up any volume in the enclosure and the heat is outside of the box and thus the speaker can handle more power. The motor also has heat sink fins to further reduce the voice coil temperature.

XL SUBWOOFERS
THE MAGNETIC MOTOR OF THE ILLUSION XL SUBWOOFERS USES A HIGH QUALITY NIOBIUM MAGNET AND A SPECIAL PATENTED DUAL GAP DESIGN AND ALUMINUM FRAME. THIS TECHNOLOGY GIVES EXTREMELY LOW DISTORTION WITH VERY LONG LINEAR TRAVEL, WHILE MAINTAINING 1% DISTORTION OR LESS. THEY CAN PLAY UP TO 1 DB LARGER THAN CONVENTIONAL DESIGNED WOOFERS.

* US PAT 7030813

BERYLLIUM COPPER TWEETER
THE CARBON LINE FEATURES A HIGH END BERYLLIUM COPPER ALLOY DOME TWEETER THAT IS TRULY THE BEST OF BOTH WORLDS AS IT SOUNDS SMOOTH LIKE THE BEST BILLOUXES WHILE HAVING THE HIGH DETAIL AND LOW DISTORTION OF THE BEST METAL DOME. THIS TWEETER IS EXTREMELY MUSICAL AND NEVER FATIGUING. A LOW RESISTANCE FREQUENCY AND HIGH POWER HANDLING CAPACITY ALLOWS A 300 HZ CROSSOVER FREQUENCY.

COINCIDENT TWEETER
THE EVOLUTION OF THE COAXIAL CONCEIRED.

IN THE TRADITIONAL COAXIAL SETUP THE TWEETER IS MOUNTED ON A POST ABOVE THE CONE. THIS ARRANGEMENT PLACES THE TWEETER FAR AWAY FROM THE WOOFER IN TERMS OF TIME ALIGNMENT AND THE REFLECTION OF THE TWEETER SOUNDS OFF THE WOOFER CONE CAN GIVE A RAGGED FREQUENCY RESPONSE.

THE SOLUTION IS THE COINCIDENT TWEETER WHICH IS MOUNTED DIRECTLY ON THE RACE PIECE OF THE WOOFER. THE TWEETER IS NOW PERFECTLY TIME ALIGNED WITH THE WOOFER AND TAKES ADVANTAGE OF THE WOOFER CONE BOUNDARY AS A NATURAL HAA GUIDE.

WHAT IS THE BENEFIT? THE SOUND IS SMOOTHER, TONE COHESIVE, SUPERIOR OFF-AXIS AND REVERBERATION WITH CONSTANT DIRECTIVITY AT ALL FREQUENCIES.

CARBON CONE
THE CARBON WOOFER CONE IS MADE WITH WOVEN CARBON FIBERS MOLDED TOGETHER WITH A HIGH DAINING EPOXY RESIN, SHAPED WITH A CURVED PROFILE TO OFFER A SMOOTH HIGH FREQUENCY RESPONSE THAT WILL BLEND PERFECTLY WITH THE RESPONSE OF THE TWEETER. IT ALSO HAS A LONG LIFE RUBBER SURROUND FOR SMOOTH FREQUENCY RESPONSE WITH LONG LINEAR TRAVEL FOR LOW DISTORTION.

PREMIUM CROSSOVERS
ALL ILLUSION CROSSOVERS HAVE BEEN DESIGNED FOR MINIMAL OR NO TUNING AND FEATURES AN ADDITIONAL, 12 dB PER OCTAVE LINEAR ROLL-OFF THE WOOFER AND ON THE TWEETER AND ARE ALL FULLY DISCREET. THEY USE PROPERLY ORIENTED COILS AND A POLYPROPYLENE CAPACITOR AND THE TWEETER CROSSOVER CAN ALSO BE FIN-E-TUNED IN SEVEN 1 DB STEPS.
CARBON IS ILLUSION’S PREMIER LINE UTILIZING THE BEST TECHNOLOGIES. THEY DELIVER AUDIOPHILE SOUND QUALITY COMBINED WITH HIGH LOUDNESS AND EXTREME DURABILITY. CARBON SOUND QUALITY IS DETAILED, REVEALING, EXTREMELY DYNAMIC AND PUNCHY. BASS IS ARTICULATE AND EXTENDED WITH GOOD WEIGHT, REVEALING THE RHYTHM AND PACE OF THE MUSIC. THE LOW DISTORTION, EXTREME CLARITY AND ENORMOUS SOUND STAGE SIZE BRING THE CONCERT ALIVE. ILLUSION AUDIO CARBON SPEAKERS ARE TRULY “COMPACT WITHOUT COMPROMISE”.

CARBON CONE MATERIAL:
THE CARBON CONE IS MADE WITH WOVEN CARBON FIBERS MOLDED TOGETHER WITH A HIGH DAMPING EPoxy Resin. Shaped with a curved profile to offer a smooth high frequency response that will blend effortlessly with the response of the tweeter. It also has a long life rubber surround for smooth frequency response with long linear stroke for low distortion. The spider has woven in tensile wires for longer life.

BERYLLIUM COPPER TWEETER:
A HIGH END BERYLLIUM COPPER ALLOY DOME TWEETER THAT IS TRULY THE BEST OF BOTH WORLDS AS IT SOUNDS SMOOTH LIKE THE BEST SILK DOME WHILE HAVING THE HIGH DETAIL AND LOW DISTORTION OF THE BEST METAL DOME. THIS TWEETER IS EXTREMELY MUSICAL AND NEVER FATIGUING. A REAR CHAMBER HEAT SINK GIVES HIGH POWER HANDLING CAPACITY TO ALLOW A 2000 HZ CROSSOVER FREQUENCY.

COINCIDENT TWEETER MOUNTING:
A COINCIDENT TWEETER IS MOUNTED DIRECTLY ON THE POLE PIECE OF THE WOOFER. THIS ALLOWS IT TO BE PERFECTLY TIME ALIGNED WITH THE WOOFER AND TAKES ADVANTAGE OF THE WOOFER CONE BOUNDARY AS A NATURAL WAVE GUIDE.

THE SOUND IS SMOOTHER, TIME COHERENT, SUPERIOR OFF-AXIS RESPONSE WITH CONSTANT DIRECTIVITY AT ALL FREQUENCIES.

FRONT MOUNTED MAGNETIC MOTOR:
The magnetic motor of the woofer uses a high quality neodymium magnet and a special patented XBL Dual Gap Design and Aluminum Faraday Ring. The woofers on carbon 5-WAY COMPONENTS, AND SLIM SUBWOOFERS also feature a magnetic motor that is mounted on the front side of the cone. This arrangement offers two distinct advantages:

INSTALLATION OPTIONS: THE FIRST ADVANTAGE IS THAT BECAUSE THE MAGNET IS MOUNTED IN THE FRONT, THE DRIVER ITSELF IS SIGNIFICANTLY SHALLOWER WHICH GREATLY INCREASES INSTALLATION OPTIONS.


XBL WOOFER MAGNETIC MOTOR:
The magnetic motor of the woofer uses a high quality neodymium magnet and a special patented XBL Dual Gap Design and Aluminum Faraday Ring. This technology gives extremely low distortion with very long linear travel. While maintaining 1% distortion or less, they can play up to 6 db louder than conventional designed premium woofers. The motor also has extensive air flow venting to eliminate noise, distortion, compression and for increased durability. Basket is aluminum with black powder coat.

• THE C10 & C10XL ARE OPTIMIZED FOR A 0.75 CUBIC FOOT SEALED BOX.
• THE C12 & C12XL ARE OPTIMIZED FOR A 1 CUBIC FOOT SEALED BOX.

CROSSOVER:
A REAL CROSSOVER THAT FEATURES AN ACOUSTICAL -12 DB PER OCTAVE LINKWITZ-RILEY ON THE WOOFER AND ON THE TWEETER. IT USES PROPERLY ORIENTED COILS AND A POLYPROPYLENE CAPACITOR. IT IS FULLY BIAMPABLE AND THE TWEETER LOUDNESS CAN ALSO BE FINE-TUNED IN SEVEN 1 DB STEPS.

* US PAT 7,039,213
LUCCENT SOUND QUALITY IS SMOOTH AND SEDUCTIVE WITH PLENTY OF DYNAMIC PUNCH. BASS IS FAST, EXTENDED AND ENERGIZING. THE SOUND STAGE IS HUGE AND SIGNIFICANT SO THAT THE LISTENER FEELS AS IF THEY ARE HEARING IT LIVE.

LUCCENT CONE MATERIAL:

THE LUCCENT CONE IS COMPRISED OF CRITICALLY DAMPED BLACK POLYPROPYLENE WITH DEEP CONE GEOMETRY FOR MAXIMUM STIFFNESS. ITS PROFILE IS CURVE SHAPE TO OFFER A SMOOTH HIGH FREQUENCY RESPONSE THAT WILL BLEND EFFORTLESSLY WITH THE RESPONSE OF THE TWEETER. ALSO FEATURES A LONG LIFE RUBBER SURROUND FOR SMOOTH FREQUENCY RESPONSE WITH LONG LINEAR STROKE FOR LOW DISTORTION.

POLYMER DAMPED ALUMINUM TWEETER:

A HIGH END POLYMER DAMPED ALUMINUM DOME TWEETER THAT IS TRULY THE BEST OF BOTH WORLDS AS IT SOUNDS SMOOTH LIKE THE BEST SILK DOME WHILE HAVING THE HIGH DETAIL AND LOW DISTORTION OF THE BEST METAL DOME. THIS TWEETER IS EXTREMELY MUSICAL AND NEVER FATIGUING. A REAR CHAMBER HEAT SINK GIVES HIGH POWER HANDLING CAPACITY TO ALLOW A 5KHZ CROSSOVER FREQUENCY.

COINCIDENT TWEETER MOUNTING:

A COINCIDENT TWEETER IS MOUNTED DIRECTLY ON THE POLE PIECE OF THE WOOFER. THIS ALLOWS IT TO BE PERFECTLY TIME ALIGNED WITH THE WOOFER AND TAKES ADVANTAGE OF THE WOOFER CONE BOUNDARY AS A NATURAL WAVE GUIDE.

THE SOUND IS SMOOTHER, TIME COHERENT, SUPERIOR OFF-AXIS RESPONSE WITH CONSTANT DIRECTIVITY AT ALL FREQUENCIES.

FRONT MOUNTED MAGNETIC MOTOR:

THE WOOFERS ON LUCCENT 2-WAY COMPONENTS AND SUBWOOFERS ALL FEATURE A NEODYMIUM MAGNETIC MOTOR THAT IS MOUNTED ON THE FRONT SIDE OF THE CONE. THIS ARRANGEMENT OFFERS TWO DISTINCT ADVANTAGES.

INSTALLATION OPTIONS: THE FIRST ADVANTAGE IS THAT BECAUSE THE MAGNET IS MOUNTED IN THE FRONT, THE DRIVER ITSELF IS SIGNIFICANTLY SHALLOWER WHICH GREATLY INCREASES INSTALLATION OPTIONS.


- THE L10 IS OPTIMIZED FOR A 0.75 CUBIC FOOT SEALED BOX.
- THE L12 IS OPTIMIZED FOR A 1 CUBIC FOOT SEALED BOX.

COAXIAL MAGNETIC MOTOR:

THE MAGNETIC MOTOR OF THE LUCCENT COAXIALS USES A HIGH QUALITY NEODYMIUM MAGNET AND A SPECIAL PATENTED XBL\textsuperscript{2} DUAL GAP DESIGN AND ALUMINUM FARADAY RING. THIS TECHNOLOGY GIVES EXTREMELY LOW DISTORTION WITH VERY LONG LINEAR TRAVEL WITH LOW DISTORTION. WHILE MAINTAINING 1% DISTORTION OR LESS, THEY CAN PLAY UP TO 6 DB LOUDER THAN CONVENTIONAL DESIGNED PREMIUM WOOFERS. THE BASKET IS ALUMINUM WITH BLACK POWDER COAT.

CROSSOVER:

A REAL CROSSOVER THAT FEATURES AN ACOUSTICAL 12 DB LINKWITZ-RILEY ON THE WOOFER AND ON THE TWEETER. IT USES PROPERLY ORIENTED COILS AND POLYPROPYLENE CAPACITOR. IT IS FULLY BIMAMPABLE AND THE TWEETER LOUDNESS CAN ALSO BE TUNED IN EVEN 1 DB STEPS.

* US PAT 7039213
ILLUSION'S MOST AFFORDABLE OFFERING, THE ELECTRA LINE WILL SURPRISE YOU WITH ITS PREMIUM SOUND QUALITY AND HIGH QUALITY PARTS AT SUCH AN ATTRACTIVE PRICE.

ELECTRA CONE MATERIAL:

THE ELECTRA LINE FEATURES A TITANIUM COATED INJECTION MOLDED POLYPROPYLENE CONE WITH A LONG LIFE RUBBER SURROUND AND PREMIUM POLY COTTON SPIDER WITH WOVEN IN TENSILE LEADS FOR LONG LIFE.

TWEETER:

THE ELECTRA LINE FEATURES AN ALUMINUM DOME TWEETER WITH NEODYMIUM MAGNET, SILK SURROUND AND FERROFLUID COOLING.

COMPONENT AND COAXIAL MAGNETIC MOTOR:

THE MOTOR OF THE WOOFER ON THE ELECTRA COMPONENT AND COAXIAL MODELS HAS A CERAMIC MAGNET WITH AN EXTENDED POLE TYOKE WITH LARGE CENTRAL AIR VENT FOR LOW NOISE AND HIGH POWER HANDLING. THE BASKET IS STEEL WITH BLACK POWDER COAT.

SUBWOOFER MAGNETIC MOTOR:

THE MOTOR OF THE SUBWOOFER HAS A DOUBLE-STACK CERAMIC MAGNET WITH AN EXTENDED POLE TYOKE WITH LARGE CENTRAL AIR VENT FOR LOW NOISE AND HIGH POWER HANDLING. THE BASKET IS STEEL WITH BLACK POWDER COAT.

- THE E10 IS OPTIMIZED FOR A 0.75 CUBIC FOOT SEALED BOX.
- THE E12 IS OPTIMIZED FOR A 1 CUBIC FOOT SEALED BOX.

COMPONENT CROSSOVER:

THE ELECTRA COMPONENT MODELS FEATURE A CROSSOVER THAT FEATURES ACOUSTICAL-12 DB PER OCTAVE LINKWITZ-RILEY ON THE WOOFER AND ON THE TWEETER. IT USES PROPERLY ORIENTED COILS AND POLYPROPYLENE CAPACITORS. IT IS FULLY BIAMPABLE AND THE TWEETER LOUDNESS CAN ALSO BE FINE-TUNED IN SEVEN 1 DB STEPS.

COAXIAL CROSSOVER:

THE ELECTRA COAXIAL MODELS FEATURE AN INTEGRATED CROSSOVER WITH FILM CAPACITOR AND POLYSWITCH TWEETER OVERLOAD PROTECTION.
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<td>155.92</td>
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<td>-3 dB</td>
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