

# ilusión

A U D I O

# illusion

## AUDIO

“ 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 WOOFERS ON THE CARBON AND LUCENT 2-WAY COMPONENTS ALL 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.

BETTER COOLING: THE 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 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.

\* US PAT 7039213

### CARBON CONE

THE CARBON WOOFER 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.



### 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 SILK DOME WHILE HAVING THE HIGH DETAIL AND LOW DISTORTION OF THE BEST METAL DOME. THIS TWEETER IS EXTREMELY MUSICAL AND NEVER FATIGUING. A LOW RESONANCE FREQUENCY AND HIGH POWER HANDLING CAPACITY ALLOWS A 3000 HZ CROSSOVER FREQUENCY.



### COINCIDENT TWEETER

THE EVOLUTION OF THE COAXIAL: COINCIDENT.

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

THE SOLUTION IS THE COINCIDENT TWEETER, WHICH IS MOUNTED DIRECTLY ON THE POLE 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 WAVE GUIDE.

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

### PREMIUM CROSSOVERS

ALL ILLUSION CROSSOVERS HAVE BEEN DESIGNED FOR MINIMAL OR NO TUNING AND FEATURES AN ACOUSTICAL-12 DB PER OCTAVE LINKWITZ-RILEY ON THE WOOFER AND ON THE TWEETER AND ALL ARE FULLY BIAMPABLE. THEY USE PROPERLY ORIENTED COILS AND A POLYPROPYLENE CAPACITOR AND THE TWEETER LOUDNESS CAN ALSO BE FINE-TUNED IN SEVEN 1 DB STEPS.



# CARBON



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 2-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.

**BETTER COOLING:** THE 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.

## 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 7039213



## COAXIALS



### CARBON C3 CX

3" COAXIAL KIT

- MOUNTING DEPTH: 37 MM
- ALUMINUM BASKET, CARBON FIBER CONE
- SEPARATE CROSSOVER: BI-AMPABLE 12DB/OCT, WITH (7) 1DB TWEETER LEVEL ADJ.
- NOMINAL POWER: 50W
- MAX POWER: 100W
- TWEETER: BERYLLIUM/COPPER

★ SUGGESTED IN COMBINATION WITH CARBON C6-W OR C8-W



### CARBON C4 CX

4" COAXIAL KIT

- MOUNTING DEPTH: 53 MM
- ALUMINUM BASKET, CARBON FIBER CONE
- SEPARATE CROSSOVER: BI-AMPABLE 12DB/OCT, WITH (7) 1DB TWEETER LEVEL ADJ.
- NOMINAL POWER: 50W
- MAX POWER: 100W
- TWEETER: BERYLLIUM/COPPER



### CARBON C5 CX

5" COAXIAL KIT

- MOUNTING DEPTH: 62.4 MM
- ALUMINUM BASKET, CARBON FIBER CONE
- SEPARATE CROSSOVER: BI-AMPABLE 12DB/OCT, W/ (7) 1DB TWEETER LEVEL ADJ.
- NOMINAL POWER: 75W
- MAX POWER: 150W
- TWEETER: BERYLLIUM/COPPER



### CARBON C6 CX

6" COAXIAL KIT

- MOUNTING DEPTH: 80.3 MM
- ALUMINUM BASKET, CARBON FIBER CONE
- SEPARATE CROSSOVER: BI-AMPABLE 12DB/OCT, WITH (7) 1DB TWEETER LEVEL ADJ.
- NOMINAL POWER: 50W
- MAX POWER: 100W
- TWEETER: BERYLLIUM/COPPER

## COMPONENT KITS



### CARBON C3

3" 2-WAY COMPONENT KIT

- ALUMINUM BASKET,
- CARBON FIBER CONE
- MOUNTING DEPTH: 37 MM
- NOMINAL POWER: 50W
- MAX POWER: 100W
- TWEETER: BERYLLIUM/COPPER 1.89"
- SEPARATE CROSSOVER: BI-AMPABLE 12DB/OCT, WITH (7) 1DB TWEETER LEVEL ADJ.

★ SUGGESTED IN COMBINATION WITH CARBON C6-W OR C8-W



### CARBON C4 S

4" 2-WAY SLIM COMPONENT KIT

- ALUMINUM BASKET,
- CARBON FIBER CONE
- MOUNTING DEPTH: 39 MM
- NOMINAL POWER: 50W
- MAX POWER: 100W
- TWEETER: BERYLLIUM/COPPER 1.89"
- SEPARATE CROSSOVER: BI-AMPABLE 12DB/OCT, WITH (7) 1DB TWEETER LEVEL ADJ.

★ SUGGESTED IN COMBINATION WITH CARBON C6-W OR C8-W



### CARBON C5

5" 2-WAY COMPONENT KIT

- ALUMINUM BASKET
- CARBON FIBER CONE
- MOUNTING DEPTH: 43.4 MM
- NOMINAL POWER: 80W
- MAX POWER: 160W
- TWEETER: BERYLLIUM/COPPER 1.89"
- SEPARATE CROSSOVER: BI-AMPABLE 12DB/OCT, WITH (7) 1DB TWEETER LEVEL ADJ.



### CARBON C6

6" 2-WAY COMPONENT KIT

- ALUMINUM BASKET
- CARBON FIBER CONE
- MOUNTING DEPTH: 53.3 MM
- NOMINAL POWER: 100W
- MAX POWER: 200W
- TWEETER: BERYLLIUM/COPPER 1.89"
- SEPARATE CROSSOVER: BI-AMPABLE 12DB/OCT, WITH (7) 1DB TWEETER LEVEL ADJ.

★ CARBON C6 MIDBASS ALSO AVAILABLE INDIVIDUALLY AS C6-W



### CARBON C8

8" 2-WAY COMPONENT KIT

- ALUMINUM BASKET
- CARBON FIBER CONE
- MOUNTING DEPTH: 56 MM
- NOMINAL POWER: 100W
- MAX POWER: 200W
- TWEETER: BERYLLIUM/COPPER 1.89"
- SEPARATE CROSSOVER: BI-AMPABLE 12DB/OCT, WITH (7) 1DB TWEETER LEVEL ADJ.

★ CARBON C8 MIDBASS ALSO AVAILABLE INDIVIDUALLY AS C8-W

## SUBWOOFERS



### CARBON C10

10" SUBWOOFER - SLIM

- MOUNTING DEPTH: 75.6 MM
- ALUMINUM BASKET
- CARBON FIBER CONE
- VOICE COIL: SINGLE 4 OHM
- DESIGNED FOR SMALLER SEALED OR VENTED ENCLOSURES
- NOMINAL POWER: 300W
- MAX POWER: 600W



### CARBON C12

12" SUBWOOFER - SLIM

- MOUNTING DEPTH: 83 MM
- ALUMINUM BASKET
- CARBON FIBER CONE
- VOICE COIL: SINGLE 4 OHM
- DESIGNED FOR SMALLER SEALED OR VENTED ENCLOSURES
- NOMINAL POWER: 400W
- MAX POWER: 800W



### CARBON C10 XL

10" SUBWOOFER

- MOUNTING DEPTH: 147 MM
- ALUMINUM BASKET
- CARBON FIBER CONE
- VOICE COIL: DUAL 2 OHM
- DESIGNED FOR SMALLER SEALED OR VENTED ENCLOSURES
- NOMINAL POWER: 500
- MAX POWER: 1000



### CARBON C12 XL

12" SUBWOOFER

- MOUNTING DEPTH: 156 MM
- ALUMINUM BASKET
- CARBON FIBER CONE
- VOICE COIL: DUAL 2 OHM
- DESIGNED FOR SMALLER SEALED OR VENTED ENCLOSURES
- NOMINAL POWER: 600
- MAX POWER: 1200

## GRILLS



### GR LC5

PAIR OF 5" GRILLS

- COMPATIBLE WITH CARBON AND LUCENT PRODUCTS

### GR LC6

PAIR OF 6" GRILLS

- COMPATIBLE WITH CARBON AND LUCENT PRODUCTS

### GR C8

PAIR OF 8" GRILLS

- COMPATIBLE WITH CARBON PRODUCTS

# LUCCENT



**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 SHAPED 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 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 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.

**BETTER COOLING:** THE SECOND ADVANTAGE IS THAT SINCE THE FRONT MOUNTED MAGNET IS OUTSIDE OF THE ENCLOSURE IT DOESN'T TAKE ANY VOLUME IN THE ENCLOSURE AND THE HEAT IS OUTSIDE OF THE BOX AND THUS THE SPEAKER CAN HANDLE MORE POWER. THE BASKET IS ALUMINUM WITH BLACK POWDER COAT.

- 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\* 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 BIAMPABLE AND THE TWEETER LOUDNESS CAN ALSO BE FINE-TUNED IN SEVEN 1 DB STEPS.

\* US PAT 7039213



**LUCCENT L6 CX**  
6.5" COAXIAL KIT

[www.IllusionAudio-America.com](http://www.IllusionAudio-America.com)  
Designed & Engineered in California • Made in India

## COAXIALS



### LUCCENT L5 CX

#### 5" COAXIAL KIT

- MOUNTING DEPTH: 62.4 MM
- ALUMINUM BASKET
- BLACK POLYPROPYLENE CONE
- SEPARATE CROSSOVER:  
BI-AMPABLE 12DB/OCT,  
WITH 7) 1DB TWEETER LEVEL ADJ.
- NOMINAL POWER: 75W
- MAX POWER: 150W
- TWEETER: SILK DOME



### LUCCENT L6 CX

#### 6" COAXIAL KIT

- MOUNTING DEPTH: 80.3 MM
- ALUMINUM BASKET
- BLACK POLYPROPYLENE CONE
- SEPARATE CROSSOVER:  
BI-AMPABLE 12DB/OCT,  
WITH 7) 1DB TWEETER LEVEL ADJ.
- NOMINAL POWER: 100W
- MAX POWER: 200W
- TWEETER: SILK DOME

## COMPONENT KITS



### LUCCENT L5

#### 5" 2-WAY COMPONENT KIT

- ALUMINUM BASKET
- BLACK POLYPROPYLENE CONE
- MOUNTING DEPTH: 43.4 MM
- NOMINAL POWER: 75W
- MAX POWER: 150W
- TWEETER: POLYMER DAMPED  
ALUMINUM - 1.89" DIAMETER
- SEPARATE CROSSOVER:  
BI-AMPABLE 12DB/OCT,  
WITH 7) 1DB TWEETER LEVEL ADJ.



### LUCCENT L6

#### 6" 2-WAY COMPONENT KIT

- ALUMINUM BASKET
- BLACK POLYPROPYLENE CONE
- MOUNTING DEPTH: 53.3 MM
- NOMINAL POWER: 100W
- MAX POWER: 200W
- TWEETER: POLYMER DAMPED  
ALUMINUM - 1.89" DIAMETER
- SEPARATE CROSSOVER:  
BI-AMPABLE 12DB/OCT,  
WITH 7) 1DB TWEETER LEVEL ADJ.

## SUBWOOFERS



### LUCCENT L10

#### 10" SUBWOOFER

- MOUNTING DEPTH: 75.6 MM
- ALUMINUM BASKET
- BLACK POLYPROPYLENE CONE
- VOICE COIL: SINGLE 4 OHM
- DESIGNED FOR SMALLER SEALED  
OR VENTED ENCLOSURES
- NOMINAL POWER: 250W
- MAX POWER: 500W



### LUCCENT L12

#### 12" SUBWOOFER

- MOUNTING DEPTH: 83 MM
- ALUMINUM BASKET
- BLACK POLYPROPYLENE CONE
- VOICE COIL: SINGLE 4 OHM
- DESIGNED FOR SMALLER SEALED  
OR VENTED ENCLOSURES
- NOMINAL POWER: 250
- MAX POWER: 500

# ELECTRA



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.



## COAXIALS



### ELECTRA E4 CX

#### 4" COAXIAL KIT

- MOUNTING DEPTH: 52 MM
- STAMPED STEEL BASKET
- INTEGRATED 6DB/OCT. CROSSOVER
- NOMINAL POWER: 40W
- MAX POWER: 80W
- TWEETER: ALUMINUM DOME



### ELECTRA E5 CX

#### 5" COAXIAL KIT

- MOUNTING DEPTH: 61 MM
- STAMPED STEEL BASKET
- INTEGRATED 6DB/OCT. CROSSOVER
- NOMINAL POWER: 50W
- MAX POWER: 100W
- TWEETER: ALUMINUM DOME



### ELECTRA E6 CX

#### 6" COAXIAL KIT

- MOUNTING DEPTH: 66 MM
- STAMPED STEEL BASKET
- INTEGRATED 6DB/OCT. CROSSOVER
- NOMINAL POWER: 60W
- MAX POWER: 120W
- TWEETER: ALUMINUM DOME



### ELECTRA E57 CX

#### 5" X 7" COAXIAL KIT

- MOUNTING DEPTH: 61 MM
- STAMPED STEEL BASKET
- INTEGRATED 6DB/OCT. CROSSOVER
- NOMINAL POWER: 80W
- MAX POWER: 160W
- TWEETER: ALUMINUM DOME



### ELECTRA E69 CX

#### 6" X 9" COAXIAL KIT

- MOUNTING DEPTH: 93 MM
- STAMPED STEEL BASKET
- INTEGRATED 6DB/OCT. CROSSOVER
- NOMINAL POWER: 100W
- MAX POWER: 200W
- TWEETER: ALUMINUM DOME

## COMPONENT KITS



### ELECTRA E4

#### 4" 2-WAY COMPONENT KIT

- MIDBASS: 4" TITANIUM COATED POLYPROPYLENE CONE
- MOUNTING DEPTH: 52 MM
- NOMINAL POWER: 40W
- MAX POWER: 80W
- TWEETER: ALUMINUM DOME 1.89" DIAMETER
- SEPARATE CROSSOVER: BI-AMPABLE 12DB/OCT, WITH 7) 1DB TWEETER LEVEL ADJ.



### ELECTRA E5

#### 5" 2-WAY COMPONENT KIT

- MIDBASS: 5" TITANIUM COATED POLYPROPYLENE CONE
- MOUNTING DEPTH: 61 MM
- NOMINAL POWER: 50W
- MAX POWER: 100W
- TWEETER: ALUMINUM DOME 1.89" DIAMETER
- SEPARATE CROSSOVER: BI-AMPABLE 12DB/OCT, WITH 7) 1DB TWEETER LEVEL ADJ.



### ELECTRA E6

#### 6" 2-WAY COMPONENT KIT

- MIDBASS: 6" TITANIUM COATED POLYPROPYLENE CONE
- MOUNTING DEPTH: 66 MM
- NOMINAL POWER: 60W
- MAX POWER: 120W
- TWEETER: ALUMINUM DOME 1.89" DIAMETER
- SEPARATE CROSSOVER: BI-AMPABLE 12DB/OCT, WITH 7) 1DB TWEETER LEVEL ADJ.

## SUBWOOFERS



### ELECTRA E10

#### 10" SUBWOOFER

- MOUNTING DEPTH: 141 MM
- BASKET: STAMPED STEEL
- VOICE COIL: SINGLE 4 OHM
- DESIGNED FOR SMALLER SEALED OR VENTED ENCLOSURES
- NOMINAL POWER: 300W
- MAX POWER: 600W



### ELECTRA E12

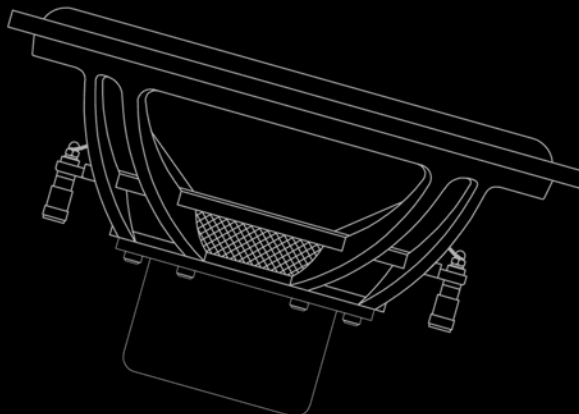
#### 12" SUBWOOFER

- MOUNTING DEPTH: 154 MM
- BASKET: STAMPED STEEL
- VOICE COIL: SINGLE 4 OHM
- DESIGNED FOR SMALLER SEALED OR VENTED ENCLOSURES
- NOMINAL POWER: 300W
- MAX POWER: 600W



## SUBWOOFER PARAMETER CHART

SR.NO.	9	10	11	12	18	19	29	30
MODEL	C10	C12	C10 XL	C12 XL	L10	L12	E 10	E 12
Fs (Hz)	32.05	28.06	42.69	31.61	33.44	35.26	28.84	31.36
RE (DC ohms)	3.18	3.67	3.9 VC series	3.9 VC series	3.40	3.40	3.61	3.38
QMS	4.15	2.94	6.35	5.89	7.47	2.81	4.67	4.44
QES	0.53	0.53	0.80	0.74	0.51	0.77	0.56	0.80
QTS	0.47	0.45	0.71	0.66	0.48	0.60	0.50	0.68
VAS (liter)	32.95	46.73	12.25	42.66	34.65	46.53	32.91	45.53
CMS	196	128	80	114	206	127	195	128
FIXED MMD	122.430	245.14	170.260	215.465	106.500	153.5	152.270	194.47
MMS grams	126.08	251.66	173.65	222.07	110.15	160.02	155.92	200.85
BL	12.34	17.59	15.04	15.24	12.42	12.52	13.49	12.89
Efficiency : 1 watt	84.9	84.8	82.6	84.4	85.9	86.1	83.3	84.2
Sensitivity 2.83 volt @ 1 meter	87.9	87.8	85.6	87.4	88.9	89.1	86.3	87.2
Xmax	+/- 10mm	+/- 12mm	+/- 18mm	+/- 18mm	+/- 7mm	+/- 7mm	+/- 14mm	+/- 14mm
Voice Coil Diameter	51mm	76mm	76mm	76mm	51mm	51mm	50mm	50mm
Nominal Power	300	400	500	600	250	250	300	300
Maximum Power	600	800	1000	1200	500	500	600	600
Outside Diameter mm	271	320	259	312	271	320	257	312
Mount Hole mm	240	281	234	284	240	281	232	280
Mount Depth mm	75.6	83	147	156	75.6	83	141	154
Recommended Sealed Box	21 liter	28 liter	21 liter	28 liter	21 liter	28 liter	21 liter	28 liter
-3 dB	48 Hz	42 Hz	46 Hz	42 Hz	49 Hz	45 Hz	43 Hz	41 Hz



# **ILLUSION AUDIO**

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