



THE BEST LOUDSPEAKER YOU WILL NEVER HEAR.

Some artists believe their work "says" something beyond evidence. And if you don't hear it, you've missed the point.

Other artists insist their work "says" nothing extra at all. They'll let you hear whatever you want.

All artists, however, hope their work will remain unforgettable.

A loudspeaker is an instrument charged with reproducing an artist's work as faithfully as possible. It should not take liberties with the complex interplay of pitch, timbre, and intensity. A loudspeaker should never, ever "say" anything.

And yet, a loudspeaker must be unforgettable, too.

A MUSICAL JOURNEY

Mirage knows the traditional criteria for building high-performance loudspeakers. A broad and flat frequency response. Minimal distortion. Realistic stereo imaging. These should add up to faithful music reproduction. Yet something is missing: Why do such loudspeakers leave the listener unmoved?

The answer is simple: Like paint on canvas, a conventional loudspeaker forms a two-dimensional scene. That may work for a painting. But, like a sculpture, music is present in all three dimensions. How do you bring it to life?

Four years ago Mirage re-shaped conventional design with the M-1 Bipolar™ loudspeaker. Music came alive. And listeners were moved.

Unlike conventional forward radiating or dipolar loudspeakers, both of which radiate sound in a teardrop pattern, Mirage's Bipolar technology disperses sound 360 degrees around the speaker. If you could see the Bipolar musical wavefront, it would appear much like the ripples formed by dropping a pebble into a still pond.

What you hear is music with a lifelike spectral balance you'd normally enjoy only in fine concert halls.

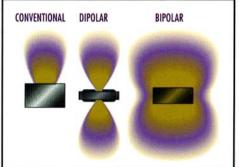
Here's how it works: Mirage Bipolar loudspeakers feature drivers on the front and the back of the cabinet. The rearradiating sound is delivered in-phase

Clearly, with the Mirage M-1 and the other M-Series loudspeakers it spawned, the grand question — "Will a loudspeaker ever sound as real as a live performance?" — had been whittled down to a manageable dimension.

But the musical journey has just

begun.

Introducing the new Mirage M-si Series Bipolar loudspeakers.



With Mirage's unique BipolarTM driver technology, sound radiates in-phase a full 360 degrees around the loud-speaker. The dispersion of conventional front-radiating and dipolar systems severely restricts the depth and width of the soundstage.

with the direct output from the front, like a pulsing column, creating a seamless soundstage throughout the listening area.

In a defining moment, the world-acclaimed Mirage M-1 Bipolar loudspeaker transcended the old limits of music reproduction. Audio critics around the world shouted their praise. Renowned critic Larry Archibald of Stereophile magazine said: "The Mirage M-1 has allowed me to listen to more music, of greater variety, with more involvement, fewer headaches, and more outrageous pleasure than any other speaker I've ever had in any house I've ever lived in."*

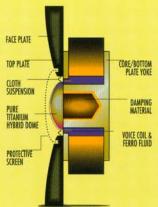
A VIRTUOSO PERFORMANCE

With the new
M-si Series, Mirage takes
Bipolar performance to a
new level. Advances in
materials and fabrication
techniques over the past
several years have
provided the opportunity
to exceed the original

M-Series' performance in virtually every respect.

In developing the new M-si Series, Mirage engineers and acousticians highlighted four critical areas: tweeter and midrange design; midrange and woofer cone materials; crossover points and slopes; and cabinet construction. The results are a collection of loudspeakers which set higher standards of excellence in Bipolar imaging, treble and midrange transparency, phase coherency, and resonance-free construction.





THE VOICE OF AN ANGEL

High frequencies — such as the clash of a cymbal or the tinkling of a piano's upper keys — are the undoing of many otherwise fine loudspeakers. A tweeter may sound shrill; a truly bad tweeter may sound like glass breaking. In either case, the

results are unreal and fatiguing to the ears.

This in large part is why expensive "electrostatic" tweeters enjoy such high regard among critical listeners. These tweeters exhibit a "transparency" and swiftness conventional dynamic tweeters lack. However, electrostatic tweeters typically exhibit an unacceptable degree of "overhang" as well. Like a trained musician, a good tweeter must not turn staccato into legato.

For the new M-si Series, Mirage has created the first dynamic tweeter which can claim the transparency and speed of an electrostatic or ribbon design — without overhang. Its sweet sound can best be termed angelic.

The Mirage Pure Titanium Hybrid (PTH) tweeter consists of a feather-light, pure titanium one-inch dome on a cloth suspension system. The dome's low mass and rigid, close-tolerance shape ensure near-instantaneous response to signal inputs, while the cloth suspension prevents any post-signal resonance. The revolutionary PTHTM tweeter achieves the lowest difference tone distortion of any high frequency transducer Mirage has ever measured.

All loudspeaker drivers are designed for optimum distortion and dispersion performance over a certain range of frequencies. Tweeters and midrange drivers can play only so low before distortion arises; midrange drivers and woofers can extend only so high before their

output becomes undesirably directional, like a narrow beam of light. Then, a tweeter with clean low-end response has "trickle-down" benefits for the entire speaker system.

Inherent in the PTH tweeter's design is a low fundamental resonance which allows it to extend lower, without distorting, into a range in which its dispersion is widest, or more "omnidirectional." Indeed, the tweeter's off-axis response is nearly identical to its on-axis response, which translates to better spectral balance in the listening area.

The arm

The anatomy of transparency: Mirage's Pure Titanium Hybrid tweeter uses a feather-light dome on a cloth suspension that eliminates ringing. A low fundamental resonance allows it to extend lower, without distortion.

throughout the

listening

area.

COMMANDING THE SYMPHONY

In essence, a crossover conducts the performance of the loudspeaker's various drivers. And like a real-life conductor, it is often underappreciated in its role.

A crossover is the first thing music signals encounter

when they enter a loudspeaker. From here, the signals are distributed to the appropriate driver. The first rule in crossover design is to avoid creating any distortion as the signal is passed along.

Mirage selects only the highest-quality components for its crossovers. All attempts are made to reduce not only the number of components, but also the distance any signal

must travel, in order to minimize distortion.

Circuits that conduct music: Designing a crossover demands good science and golden ears. Mirage uses only the finest crossover components and chooses optimal points and slopes.

The M-1si crossover conducts the performance of three pairs of drivers, maintaining phase coherency and therefore spectral balance

Next, one must choose the optimal crossover points and slopes. ("Slope" refers to the rate at which one driver takes over from its neighbor.) For some manufacturers, this process is a simple mathematical exercise. However, for Mirage, it is an exercise in seeking perfection.

Especially in a Bipolar design, coherency — or the seamless transition from low-to-higher-frequency driver — plays a critical role in achieving spectral balance throughout the listening area. Without phase coherency from one driver to another, subtle musical details can be virtually swallowed up, and grander moments entangled in a collapsed spatial image.

Mirage performed extensive measurements — using ears and instruments — in order to ensure phase coherency in the new M-si Series. The results can be heard in an absence of crossover distortion, an exceedingly flat response, and a natural timbral balance.

GRACE UNDER PRESSURE

When the going gets loud, many loudspeakers start going...to pieces. The forces at work on midrange drivers and woofers — even at moderate volume levels — can derail a cone-shaped driver from its ideal piston-straight

path. The result, of course, is distortion. It may be heard in the middle frequencies as harshness, and in the lower frequencies as muddiness.

However, it won't be heard in the new M-si Series. The all-new midrange and bass drivers are injection-molded polypropylene cones impregnated with carbon and other proprietary additives for increased strength and rigidity, with no gain in weight. The resulting tight, well-controlled cone motions guarantee clean and forceful reproduction, right down to the deepest bass notes.

The ironic fact is, without the new tweeter design, this performance would not have been possible. Because, like the tweeter, the midrange driver is designed with a low fundamental resonance, that allows it to perfrom distortion-free at the lower frequencies where its dispersion is optimal. And, since the tweeter covers lower-than-usual frequencies, the midrange driver avoids dealing with the higher frequencies where its dispersion would become undesirably directional.

Dynamic duo:
Mirage's completely
new bass and midrange
drivers are injection-molded
polypropylene cones impregnated with carbon
and other proprietary additives for increased strength
and rigidity.

Structural and musical integrity: Mirage cabinets use tongue-in-groove construction and rigid cross-bracing to stamp out unwanted vibrations before they join the music. Even the bass ports are designed for minimum wind-noise distortion.

SILENCE IS GOLDEN

suggest that the new Mirage M-si
Series are the best loudspeakers you'll never hear.
Solid, tongue-in-groove construction, rigid cross bracing, and thick medium-density fiberboard (MDF) outer walls ensure that the M-si Series cabinets will never themselves contribute to the music.
They will not pulsate in harmony with pounding bass notes; nor will they vibrate in unison with vivid highs. These are the tightest, most vibration-free enclosures Mirage has ever produced.

It may sound ironic to

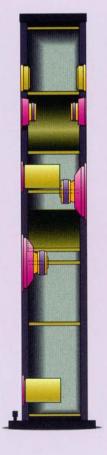
And they look it. Graced with highly polished black high-gloss trim panels, the M-si Series exudes an architectural honesty in keeping with the finest interior decors, both modern and traditional.

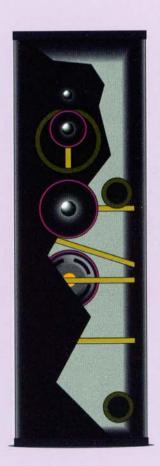
But that's not the end of the story. Rounded baffles front and rear ensure that the soundwaves emitted by the drivers are not subjected to "edge" diffraction upon meeting sharp cabinet edges. Imagine disrupting the ripples created by dropping a pebble into a pond and you will see how edge diffraction corrupts a musical wavefront.

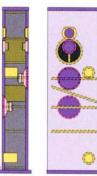
In another effort at soundproofing, the bass ports on the M-si Series have been re-engineered for maximum efficiency and minimum wind-noise distortion. Because no matter how soft or loud you play your music, silence can indeed be golden.



Correspondingly, with extended low-end response from the midrange driver, the woofers never become directional as a consequence of straining to reproduce upper-bass and lower-midrange frequencies. The woofers are dedicated only to the lowest of bass frequencies, delivering them in a truly omnidirectional pattern.

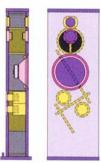






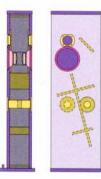
M-1si

The ultimate performer: Fully symmetrical, threeway Bipolar system Dual 8-inch subwoofers in individual chambers generate bass down to below 20Hz. Low tweeter and midrange crossover boints ensure minimal distortion and optimal dispersion for ideal Bipolar performance



M-3si

Heir to the throne: A three-way, Bipolar system with the same fully symmetrical tweeters and midrange drivers as in the flagship M-1si. A dual-vented 10-inch bass driver with Electro Dynamic Braking™ provides tightly controlled deep bass reaching 24Hz. Outstanding Bipolar performance.



M-5si

Bound for greatness: Fully symmetrical, two-way Bipolar system featuring the same transparent PTH tweeter as in the M-1si and M-3si. Dual 6-1/2-inch hass drivers in a vented half-hemispherical cabinet provide usable bass down to 29Hz. Like all M-si models, the M-5si can be bi-amped or bi-wired via gold-plated, five-way speaker binding posts.





M-7si

The overachiever: Three-way system featuring the PTH tweeter plus a rear-facing MSE full-range driver to create life-like Bipolar imaging. A vented 8-inch bass driver with Electro Dynamic Breaking, as in the M-3si, provides tightly controlled deep bass reaching 32Hz. The M-7si requires as little as 50 watts per channel to achieve its rated performance.

MAX POWER HANDLING

DIMENSIONS

WEIGHT (each)

GRILLE COLOR

FEATURES

(HxWxD)

FINISH

THE ART OF NUMBERS

Art and technology may often seem at odds. For instance, a concert pianist revered as a fine "technician" seldom creates a memorable performance. And yet such deficiency cannot be measured.

MIRAGE M-si SERIES SPECIFICATIONS

You will see in the accompanying specifications that all Mirage M-si Series loudspeakers boast state-of-the-art performance figures. Alas, such numbers are quite forgettable.

Thankfully, it is not practical to

create a specification in describing Mirage's Bipolar sound. As telling as they are, mere numbers cannot begin to reveal what your ears will hear.

That, we trust, will be unforgettable to you.

M-Isi M-3si M-5si M-7si SYSTEM TYPE Bipolar radiator with Bipolar radiator Bipolar radiator Bipolar radiator dual subwoofer vented vented vented chambers - vented half-hemispherical cabinet design **TWEETERS** 2-1" (25.5mm) PTH pure 2-1" (25.5mm) PTH pure 2-1" (25.5mm) PTH pure 1-1" (25.5mm) PTH pure titanium hybrid dome titanium hybrid dome titanium hybrid dome titanium hybrid dome with cloth suspension with cloth suspension with cloth suspension with cloth suspension MIDRANGE/FULL RANGE 2-5" (12.7cm) 1-5" (12.7cm) MSE™ 2-5" (12.7cm) injection-molded/ injection-molded/ injection-molded/ polypropylene cones polypropylene cones polypropylene cones WOOFER 2-8" (20.3cm) 1-10" (25.4cm) 2-6 1/2" (16.5cm) 1-8" (20.3cm) Polyflex treated carbon-filled injection-molded injection-molded polypropylene with 1-1/2" (38mm) voice carbon-filled polypropylene with polypropylene cone, 1" (25.5mm) voice polypropylene with 1" (25.5mm) voice 1-1/2" (38mm) voice coils with Electro coils. Termination via coils with Electro coils. Termination via Dynamic Braking™ Dynamic Braking™ Butyl surround Nitril/PVC surround Termination via Termination via Butyl surround Butyl surround FREQUENCY RESPONSE On axis +2dB Off axis +2dB @ 30' 25Hz-33KHz 30H2-33KHz 35Hz-22KHz 38Hz-22KHz 25Hz-20KHz 30Hz-20KHz 35Hz-20KHz 38Hz-20KHz DIRECTIONAL CHARACTERS Mean front hemisphere Mean front hemisphere Mean front hemisphere Mean front hemisphere within +dB of the within +dB of the within +dB of the within +dB of the on-axis response on-axis response on-axis response on-axis response 17Hz at -10dB **USABLE BASS RESPONSE** 24Hz at -10dB 29Hz at -10dB 32Hz at -10dB anechoic chamber anechoic chamber anechoic chamber anechoic chamber CROSSOVER POINTS 300Hz, 2.0KHz 350Hz, 2.0KHz 2.0KHz 480Hz, 2,0KHz 82dB at 2.83V 83dB at 2.83V 84dB at 2.83V SENSITIVITY 84dB at 2.83V (Anechoic) (Bipolar in normal room) 1m anechoic chamber Im anechoic chamber 1m anechoic chamber 1m anechoic chamber 86dB 87dB 88dB 884B IMPEDANCE 6 ohms nominal 6 ohms nominal 6 ohms nominal 6 ohms nominal 4 ohms minimum 4 ohms minimum 4 ohms minimum 4 ohms minimum REC. AMP POWER 150-500 watts RMS 100-300 watts RMS 70-200 watts RMS 50-175 watts RMS (clipping less than 10%) per channel

DESCRIPTIONS AND SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE MSE™ Broad Spectrum Mirage Soundstage Enhancement Transducer • PTH™ Pure Titanium Hybrid Dome Tweeter • MSP™ and PTH™ are trademarks of

per channel

300 watts RMS

135 lbs (61 kg)

Bi-amp/bi-wiring

Black

capable

52.5" x 18.1" x 8.3"

133.7 x 46.1 x 241.1cm

Black high-gloss cabinet

per channel

200 watts RMS

49" x 16" x 8"

85 lbs (39 kg)

Bi-amp/bi-wiring

Black

capable

124.6 x 40.7 x 20.3cm

Black high-gloss cabinet

per channel

175 watts RMS

45" x 14" x 7"

80 lbs (36 kg)

Bi-amp/bi-wiring

Black

capable

114.4 x 35.6 x 17.8cm

Black high-gloss cabinet



500 watts RMS

185 lbs (84 kg)

Bi-amp/bi-wiring

Black

capable

59.8" x 19.3" x 9.5"

152.3 x 49.1 x 24.2cm

Black high-gloss cabinet

THE ORIGINAL BIPOLAR LOUDSPEAKER

MIRAGE MC-SI CENTER CHANNEL LOUDSPEAKER

MIRAGE MC-si CENTRAL TO THE EXPERIENCE

AT MIRAGE LOUDSPEAKERS, WE BELIEVE THAT THE PERFECT SOUND SYSTEM EXPERIENCE IS A DELICATE COMBINATION OF DEDICATION AND PASSION.

WHEN WATCHING MOVIES, YOU MUST HEAR A FAITHFUL RECREATION OF THE COMPLEX LAYERS OF DIALOGUE AND EFFECTS INTERWOVEN BY HOLLYWOOD'S DEDICATED TECHNICIANS. FOR MUSIC, ALL THE NUANCES AND HARMONIES CREATED BY A PASSIONATE MUSICIAN MUST BE SUBTLY REVEALED.

IT IS A FORMIDABLE BALANCING ACT FOR ANY AUDIO SYSTEM, FRAUGHT WITH SONIC PITFALLS. FEW SYSTEM LOUDSPEAKERS CAN TRULY ACCOMPLISH IT.

THE MIRAGE MC-SI CENTER CHANNEL LOUDSPEAKER HAS BEEN ENGINEERED TO PERFECTLY CAPTURE BOTH THE COMPLEXITY AND THE PASSION. TWENTY YEARS OF RESEARCH HAS RESULTED IN LEADING EDGE TECHNOLOGY AND OUTSTANDING PERFORMANCE. SONICALLY IDENTICAL TO THE ACCLAIMED MIRAGE M-SI SERIES, THE MC-SI WILL COMPLEMENT VIRTUALLY ANY PAIR OF PREMIUM FRONT CHANNEL SPEAKERS.

UNIQUE TO THE MIRAGE MC-Si IS A USER-SELECTABLE JUMPER SYSTEM THAT ADJUSTS THE SONIC CHARACTER OF THE MC-Si FOR ITS IMMEDIATE SURROUNDINGS BY SHAPING THE ACOUSTIC CONTOUR, REDUCING THE "BOOM" ASSOCIATED WITH SPEAKER PLACEMENT ON TOP OF A PROJECTION TELEVISION OR ON A SHELF UNIT.

ITS PURE TITANIUM HYBRID (PTH) TWEETER CONSISTS OF A PURE TITANIUM DOME ON A CLOTH SUSPENSION SYSTEM THAT ENSURES

NEAR INSTANT RESPONSE TO SIGNAL INPUTS AND PREVENTS ANY POST-SIGNAL RESONANCE.

TWIN COMPUTER-DESIGNED WOOFER CONES ARE INJECTION MOLDED TO EXACT PARAMETERS; NECESSARY TO PRODUCE MINIMAL DISTORTION AND OPTIMIZE DYNAMIC RANGE. IMPREGNATED WITH CARBON AND OTHER PROPRIETARY ADDITIVES TO ADD STRENGTH, THEY NEVER SACRIFICE BASS AND MIDRANGE CLARITY WHEN YOU INCREASE VOLUME. AND OUR UNIQUE RUBBER SUSPENSION REDUCES DISTORTION EVEN FURTHER, IMPROVING TRANSIENT RESPONSE.

WITH THE MIRAGE MC-SI, SOUND DISPERSION DOES NOT BECOME UNDESIRABLY DIRECTIONAL. PRECISELY DEFINED CROSSOVER FREQUENCIES AND SLOPES MAINTAIN OPTIMAL CENTER IMAGING THROUGHOUT THE ENTIRE SPECTRUM. YOUR EARS HEAR EXACTLY WHAT YOUR EYES SEE.

Outside, the black high gloss exterior exhibits an architectural honesty that suits all interior decor themes. Rounded front and rear baffles ensure that

SOUND WAVES ARE NOT DISRUPTED BY EDGE DIFFRACTION. SOLID TONGUE-IN-GROOVE CONSTRUCTION, THE RIGID MIRAGE CROSS-BRACING SYSTEM, AND THICK MEDIUM DENSITY FIBERBOARD OUTER WALLS MAKE THE MIRAGE MC-SI THE TIGHTEST, MOST VIBRATION FREE CENTER CHANNEL LOUDSPEAKER AVAILABLE.

THE MIRAGE MC-SI CENTER CHANNEL LOUDSPEAKER IS BACKED BY THE MIRAGE 5-YEAR LIMITED WARRANTY AGAINST DEFECTS IN PARTS AND WORKMANSHIP.*

IF YOU LOVE YOUR MUSIC WITH THE SAME PASSION AS THE MUSICIANS WHO MADE IT, AND IF YOU ARE DEDICATED TO HEARING MOVIE SOUND EXACTLY AS IT WAS CRAFTED, THE MIRAGE MC-SI CENTER CHANNEL LOUDSPEAKER WILL MAKE THE EXPERIENCE COME ALIVE FOR YEARS TO COME.

VISIT YOUR NEAREST AUTHORIZED MIRAGE LOUDSPEAKER DEALER TODAY, AND ASK FOR A PROPER INTRODUCTION.

*THE TERMS OF THE LIMITED WARRANTY MAY VARY FROM COUNTRY TO COUNTRY TO COMPLY WITH LOCAL LAW.



SPECIFICATIONS

MC-si

DRIVER COMPLEMENT TWEETER:

WOOFERS:

SYSTEM TYPE:

FREQUENCY RESPONSE: (± 3 dB)

USABLE BASS: (-10 dB)
CROSSOVER POINTS:

SENSITIVITY:

IMPEDANCE:

DYNAMIC AMPLIFIER POWER: (RMS)

RECOMMENDED AMPLIFIER POWER:

MAXIMUM POWER HANDLING: DIMENSIONS: HXWXD IN.

CM

FINISH:

GRILLE:

BASS REFLEX 2 WAY MAGNETICALLY SHIELDED CENTER CHANNEL SPEAKER.

1 - 1" TITANIUM HYBRID DOME.

2 - 5-1/4" INJECTION MOLDED WITH RUBBER SURROUNDS.

45 Hz - 23 KHz

41 Hz

2,000 Hz

86 dB

8 онмѕ

N/A

50 - 150 WATTS RMS/CHNL

150 WATTS

8 x 19 x 11-3/4"

20 x 48 x 29

BLACK HIGH GLOSS TOP & BOTTOM.

BLACK GRILLE CLOTH.

Specifications and descriptions subject to change without notice.

PRINTED IN CANADA / 3PMB014E



THE ORIGINAL BIPOLAR LOUDSPEAKERTM