

INTUITIVE DESIGN



INTUITIVE DESIGN LOUDSPEAKERS

Even the best music systems pale in comparison to an acoustical performance - whether its full-scale orchestral, a choral ensemble, or a jazz club. While recording processes are far from perfect, Intuitive Design loudspeakers remove layers of misinformation that have previously obscured your music recordings. Their ability to retrieve and maintain the integrity of minute information is one of many factors that allow Intuitive Design loudspeakers to recreate the realism and excitement of the original performance, while presenting a complete sense of listening ease.

Far from just floating an image of voices or instruments on a silent background, Intuitive Design loudspeakers present these with a tangible solidity. The sound field is illuminated with ambient information, while the speakers themselves appear to remain completely silent. While the information here reveals many of the underlying design features of Intuitive Design loudspeakers, the proof is in the listening. Visit your dealer with music with which you are thoroughly familiar. We are confident that you will immerse yourself in the performance in ways you have never experienced. And this, of course, is the best introduction we could make.

DESIGN PHILOSOPHY

The concepts and technologies demonstrated in Intuitive Design loudspeakers reveal a new way of thinking. Our advances in the areas of vibration control, mechanical grounding, and acoustical wave propagation allow us to reproduce a truer musical sense of the original performance. An absence of spatial and vibrational artifacts provides for an accurate presentation of instrument timbre. Although the application of our principles finds its highest level of refinement in our Denali loudspeaker, these principles are effectively addressed in each of our products. The following represents some of the advances that are common to all Intuitive Design loudspeakers:

Electrical energy is transferred without loss of information:

Intuitive Design loudspeakers convey electrical information without the loss due to stored energy or the influence of induced microphonics. The components that divide this energy into the specific frequency bands are designed and constructed at our facility. Each of these components exhibits extremely fast transfer speed without energy storage artifacts. All components are cryogenically treated in a proprietary process, which removes mechanically and thermally induced stresses. This attention to detail in the electrical path provides an uncompromised signal to the transducers.

Electrical and acoustical energy is protected from vibration:

Central to reconstructing the harmonic structure and ambient fields of the original performance is the ability to retrieve and preserve the integrity of extremely low level information. Our creation of a silent, mass-loaded, and mechanically grounded envelope around each transducer provides for greater conversion of low level information without it reemerging as a modulated haze.

Mechanical energy is terminated through a silent ground:

Intuitive Design speakers provide a unique mechanical grounding system to conduct vibration away from the transducers. Machined aluminum assemblies used in conjunction with Stillpoints® (Stillpoints.us.com) provide for an effective transfer of vibrational energy away from the speakers into an isolated termination.

Electrical and Acoustical energy is presented in a time correct fashion:

Recordings are essentially a time capsule, with information laid down in a precise sequential pattern. In order to retrieve all of this information intact, is critical for the speaker to maintain the time integrity of this information and present it to the ear in a time correct fashion. The componentry in the signal path of Intuitive Design speakers provides an uncompromised signal to the transducers. The transducers are configured such that the sound from each element arrives at the ear at the same time.

Acoustical energy emulates a point source:

Reproducing the character of voices and instruments, as well as the spatial properties of an acoustical recording, requires that the speaker mirror the acoustical properties that the microphone sees in the recording process. The acoustical wave propagation from Intuitive Design speakers is structured to emulate the point source configuration of a microphone.



Summit

THE SUMMIT

Form follows function throughout the Summit. Each facet of our design philosophy finds expression, sometimes in surprising ways. As an example, the elegant polished granite enclosures might appear to be a lavish afterthought. They are actually an extension of several of our core philosophies. The granite wall construction provides for an extremely rigid and non-resonant enclosure, free from vibrational effects. This allows the Summit to articulate extremely low level information without the haze that often obscures spatial and harmonic nuances.

The Summit is a two-way loudspeaker configured around a triangular, wool damped transmission line. The 7" pulp/carbon fiber driver and the chambered 1" silk dome tweeter are configured to emulate an acoustical point source. The Summit is fast, transparent, and coherent. It provides astonishing articulation of low frequencies.

The Summit's design provides for effective coupling of vibration into a stand system. The machined aluminum bottom plate features three tapped holes that can be used in conjunction with isolation feet or points. Although the Summit will work with most stand systems, the full benefits of our design philosophy is realized when it is used in conjunction with Stillpoints® and our Path Stand.

THE PATH STAND SYSTEM

With its polished black granite faces and its black anodized aluminum top, the Path Stand is the perfect aesthetic complement for the Summit speakers. Far more than just placing the Summits at an optimal height, they also provide a sophisticated system for mechanical grounding, mass loading, and the termination of vibration.

The tapped holes on the bottom of the Summits correspond to the centers of three columns inside the Path Stands. Utilizing Stillpoints® as a coupling mechanism between the Summit and the stands, vibrational energy is transferred into the internal structure of these columns, which dissipates this energy and provides for a silent mechanical grounding path. Provision for filling the stands with media such as sand provides additional dissipation of vibration. This also provides an isolated mass which gives the speakers acoustical projection and vibrational isolation from room surfaces.



Path Stand

THE DENALI

Our reference product, the Denali, is a visual reflection of many of its underlying principles. The Denali does not look or sound, like anything that has preceded it. The integration of unique technology, advanced materials, and singular construction quality provides for a new benchmark in loudspeaker performance.

Over 200 machined aluminum pieces comprise the core subassemblies in the Denali. These aluminum structures are central to the three separate transducer housings, isolation platforms, and the framework that provides support and mechanical grounding. Within the framework of these aluminum structures are various types of castings and mechanisms which provide additional rigidity and energy absorption.

Each housing is a silent, mass-loaded, and mechanically grounded envelope around the individual transducer. A system of 15 Stillpoints® in each Denali mechanically couple these housings to the adjacent platforms, and then on to the mechanical grounding support framework. This provides the foundation for the unique adjustable wavelaunch feature. The combination of these features provides for a time-correct, uncompressed acoustical wavefront that emulates a point source.

The science that is applied in the Denali culminates with its installation by factory trained personnel in your listening environment. A sophisticated system of laser leveling and positioning assures that the relationship of the individual housings is correct. Measurements of the customers listening arrangement are entered into a proprietary computer program, which provides the correct offsets for the individual transducers. An accurate protractor system provides for transducer alignment to within .005". The installer will demonstrate the simple use of the included protractor should the customer change the listening arrangements.



Denali

We believe that the Denali demonstrates the most comprehensive application of physics to loudspeaker design. The resulting performance however, is a revelation. The original recording space is recreated with a startling sense of realism. Voices and instruments are suspended in space with a tangible solidity. The sound field is alive with ambient information. Tonal structures are illuminated with harmonic information. There is a complete sense of listening ease. Close your eyes. The musicians are no longer visiting images. You are there.

INTUITIVE DESIGN OVERVIEW

Technical Overview

Intuitive Design loudspeakers pioneer significant new technologies in the areas of electrical energy transmission, vibration isolation, mechanical grounding techniques, acoustical point source emulation, and transducer alignment. The integration of each design aspect allows Intuitive Design speakers to retrieve and maintain the integrity of minute information and present this in a time correct and spatially accurate form.

Sonic Benefits:

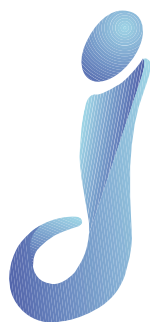
Intuitive Design loudspeakers provide a new listening window into the original performance. Far from just floating images of instruments and voices on a black background, music is presented with a sense of solidity and realism in a sound field illuminated with ambient information. The speakers appear to remain completely silent. The nuances that define the timbre and harmonic structure of instruments are revealed in an entirely new light. There is a complete sense of listening ease.

Visual Elegance:

Our use of the highest grade materials available - granite, aluminum, black nocturne - an eye for aesthetic detail, pure craftsmanship, and attention to detail at every level of construction provide speakers of singular beauty. Customers have a number of finish choices. There are several standard granites, and a variety of granites and marbles are available as custom finishes.

Heritage:

Intuitive Design loudspeakers are designed for Intuitive Design by industry veteran Dale Pitcher. His involvement in the industry spans over 30 years. His product designs include the Essence Amethyst 10 loudspeaker- the first speaker to utilize the concepts of transducer mass-loading and adjustable transducer geometry. He has been involved in the design and manufacture of products throughout the industry. He was also a principle designer for the Essence line of electronics. He provided pioneering work in areas encompassing the reduction of microphonics, mechanical grounding principles, and the use of piezoelectric compounds as electronic buffers.



INTUITIVE DESIGN CORPORATION

5309 'B' State Highway 92, Torrington, WY 82240
Voice: 307-532-2616

www.intuitiveaudio.com