

SENSORORA

SENSORORA A MULTI-SENSORIAL ENVIRONMENT

The Sensora is a set of special audiovisual components that transform a dedicated room into a multi-sensorial environment.

In this environment, you are immersed in a deeply relaxing field of pure colors, 3-D sound in motion and massaging, kinesthetic vibrations.

At the dawn of the 21st century, more and more people are interested in finding moments of meditation or rejuvenation in the midst of a fast-moving modern life. To meet this demand, a new technology harnessing the beneficial properties of light and sound is currently emerging among wellness services.

The Sensora clearly stands at the high end of this technology: it has been designed for uncompromising individuals, therapists and corporations looking for the very best that audio-visual stimulation can offer. The Sensora is more than just a piece of equipment; it is actually a complete environment into which you can enter, sit and relax. Its operation is simple and does not require any extra personnel.

Integrating extraordinary light projections on a large hemispherical screen, a surround-sound audio field and a sound massage from within a comfortable reclining chair:

the Sensora experience is unlike anything you have seen before...

"The Sensora is without doubt the most advanced, complete, multi-sensorial system made. Sensortech has definitely taken light, sound and tactile stimulation to its highest level."

Michael Landgraf, editor
Audio/Visual Stimulation Journal

"Sensora gently guides us into a state of oneness where heaven and earth merge and we once again see through the eyes of God. The experience is extraordinary and unforgettable."

Dr. Jacob Liberman, author
Light: medicine of the future

Application Areas:

- In Health Centers, Clinics and Counseling Centers
- At Hotels and Resorts, as an exclusive light therapy station
- In Spas and Wellness Centers
- In Fitness and Sports Centers
- In Waiting Rooms and Airports
- In the Executive Corporate Office, to help clear the mind before important planning sessions or delicate negotiations
- In the Home of individuals concerned with their quality of life



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THE SENSORA PROCESS

During more than 25 years of research and development, Sensortech's team has found that the deepest experiences brought about by sound/light stimulation occur when many senses merge into a harmonious whole, a phenomenon known as *synesthesia*. That is why the Sensora integrates sound (hearing), light (vision) and kinesthetic vibrations (touch).

LIGHT:

The Sensora illuminates a hemispherical projection screen large enough to cover your whole field of vision, so that you feel immersed in a field of exquisitely pure colors – a very powerful and moving experience.

Sensortech has developed and patented a unique process called *Light Modulation*, which is at the root of the effectiveness of the light projection patterns used in the Sensora. Colors appear alive and shimmering, with an intensity and texture reminiscent of the vivid colors sometimes perceived in dreams.

With the complete spectrum of visible colors available, the full benefits of the emerging science of the mind/body effect of colors can be realized. Light projections can also be modulated for *brainwave entrainment*, gently inducing deeper relaxation states.

SOUND:

The Sensora uses four audio channels to create the extraordinary sensation of a sound space completely surrounding and filling the listener, where each sound can be positioned and delicately moved at will.

The designer of the Sensora instruments, Anadi Martel, is a physicist who has been a pioneer in the field of *sound spatialization*. The award-winning Spatial Sound Processors he created have been used around the world, for research (by NASA) and in the entertainment and cinema industries (such as IMAX).

KINESTHETIC VIBRATION:

Sensora sessions are enjoyed while comfortably resting on our elegant, avant-garde looking Transducer Chairs ergonomically designed for maximum comfort.

Each chair is embedded with sound transducers and implements a new process called *Dynamic Sound Transduction*, working at two levels:

- **First** it transforms music coming from the Sensora program into vibrations that can be felt when lying on the chair.
- **Then it goes a step further** by distributing the sound vibrations across the surface of the chair in moving patterns or waves. This produces a pleasant kinesthetic sensation that can only be described as a *sound massage*.

THE SENSORA INSTRUMENTS

LPA-2 and LPA-3 Light Projection Arrays:

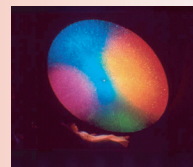
Making use of the latest LED technology, these sophisticated light projectors provide a level of integration and functionality previously unseen in single units. Powerful enough to light a complete room, they contain 20 independent light sources (organized as 5 groups of 4 primary colors) as well as special high-precision linear power drivers (avoiding the common pulse-width modulation approach) for clean, pure light output.



Both the LPA-2 and LPA-3 incorporate a complete Light Modulation processor capable of generating complex light patterns, bringing for the first time to light the type of modulation processes up till now reserved to sound synthesizers.

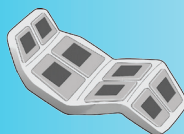
Circular Projection Screen:

This large-scale screen (3m in diameter for the LPA-2, 2m for the LPA-3) is inclined at 45° in the Sensora room. Its surface is coated with a special silvery compound to enhance the perceived depth of the light projections. A small independent light source located at its center acts as a focal point for the viewer's gaze.



Surround-Sound audio system:

Includes a surround-sound multi-channel amplifier, and a sound delivery system comprising subwoofers and four satellite speakers.



TC-2 and TC-3 Transducer Chairs:

Embedded within the chair structure are 8 sound transducers, each vibrating a section of the chair's surface. They are positioned as two rows (left and right) of 4 transducers

each. Each row contains a transducer at the level of the shoulders, the lower back, the thighs and the feet. The TC-2 is motorized for automated control, while the TC-3 is folding and portable.



TD-3 Transdriver:

A unique audio processor designed to drive the Transducer Chair. It extracts low-frequency information from any sound source, and distributes it in programmable patterns across 8 discrete amplified channels. It features a selection of 30 different vibration patterns.



THE SENSORA PROGRAMS

All the instruments composing the Sensora system are designed to be driven by special *multi-sensorial programs* incorporating the sound, light and kinesthetic information. The process is entirely automated, and does not require an attendant.

Sensortech has developed a library of *Core Sessions*, each with a different application having its own range of specific colors and frequencies. The series currently available include Relaxation, Energy (for creativity enhancement), Balancing and Meditation.

As this library keeps expanding, Sensora operators will always be able to renew their system's possibilities. Sensortech will also create customized programs to order for clients with special requirements.

SOFTWARE APPLICATIONS:

- **Sensora Player:** visual selection and playback of Sensora Core Sessions.
- **Light Painting:** interactive creation of Light Modulation patterns.
- **Color Balancing Advanced Tool:** an interactive Color Test for live generation of Color Balancing Sensora sessions specially adapted to the user's current needs.
- **Color Sweep Advanced Tool:** generate light sessions sweeping across the full color spectrum, to be used as part of a colour treatment protocol.
- **Sensora Sequencer Advanced Tool:** an authoring tool allowing experienced operators to create and record their own Sensora sessions.

SYSTEM OPTIONS:

Sensora-Pro I: for high-end, full-scale installations, includes the LPA-2 light projector with 3m screen, the TC-2 chair with TD-3 processor, surround sound system and control PC.

Sensora-Pro II: for therapists, includes the LPA-3 light projector with 2m screen, the TC-3 chair with TD-3 processor, stereo speakers and control tablet.

INSTALLATION REQUIREMENTS:

In order to create an ideal Sensora space, you will require a room with adequate ventilation, with good sound- and light-proofing, and with these minimum areas:

- *For a single-chair installation:* 3m x 4m
- *For a 2-chair installation:* 4m x 4m
- *For 3-chair and more:* 5m x 4m or more

The Sensora room can be decorated at will in order to reflect the enchanting nature of its function. Our experienced designers can assist you in customizing your own version.



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