‘Come forth into the light of things, let nature be your teacher.’
William Wordsworth

‘I'm so fast that last night I turned off the light switch in my hotel room and was in bed before the room was dark.’
Muhammad Ali

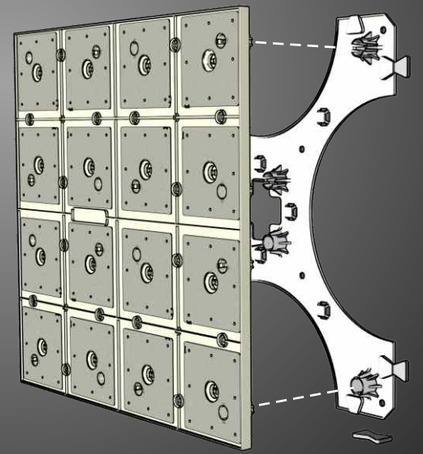
SENSACELL MODULAR SENSOR SURFACE

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Interactivity is the major buzzword in 21st century design;
now there's a product that makes interactivity easy - Sensacell.

www.sensacell.com

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Sensacell Introduces the New W3016-16-RGB Interactive Panel Lighting System

Sensacell's new modular interactive lighting panels combine LED lighting with motion sensing technology to create stunning interactive architectural lighting solutions.

Each modular 30 cm square wall panel contains the SensaSynth™ interactive lighting control engine that functions as a complete stand alone system; just add more modular panels to create surfaces of any size or shape. Combine designer surface materials with custom video and interactive behaviors to fully define your experience.

Main Features

- 16 high brightness RGB LEDs. 75 mm pixel pitch
- 16 capacitive motion / proximity sensors with 75 mm sensing range
- Built-in SensaSynth2™ interactive effects engine - fully programmable
- 20 minutes of 30fps on board embedded video storage
- 200 user programmable on board presets
- Stand-alone operation
- Reliable, easy to install
- Simple wall mounting system
- Compatible with 100's of different surface materials
- Low power - great for green projects
- Minimal heat output



Furniture: tables, benches.....



Walls / Windows



Unlimited design materials
(Resin, Glass, Acrylic, Corian etc)




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- **Residential & Commercial Architecture**
- **Tradeshows & Interactive Marketing**
- **Furniture**
- **Nightlife / Entertainment**
- **Hospitality**
- **Daycare / Pre-school**
- **Museum Interactive Exhibits**
- **Interactive Signage**
- **Art Installations**
- **Exergaming Systems**

The Sensacell module is a new type of light fixture, a light fixture that can be fully integrated within furniture, walls and displays.

An illuminated surface that responds to touch by changing color, brightness and pattern. It is a user controlled dynamic mood light.

It is a lighting system for creating dramatic and truly interactive architectural environments that meet today's modern design expectations.

- Systems can function as simple "stand alone" systems, requiring no external devices such as computers for simple and reliable installations.

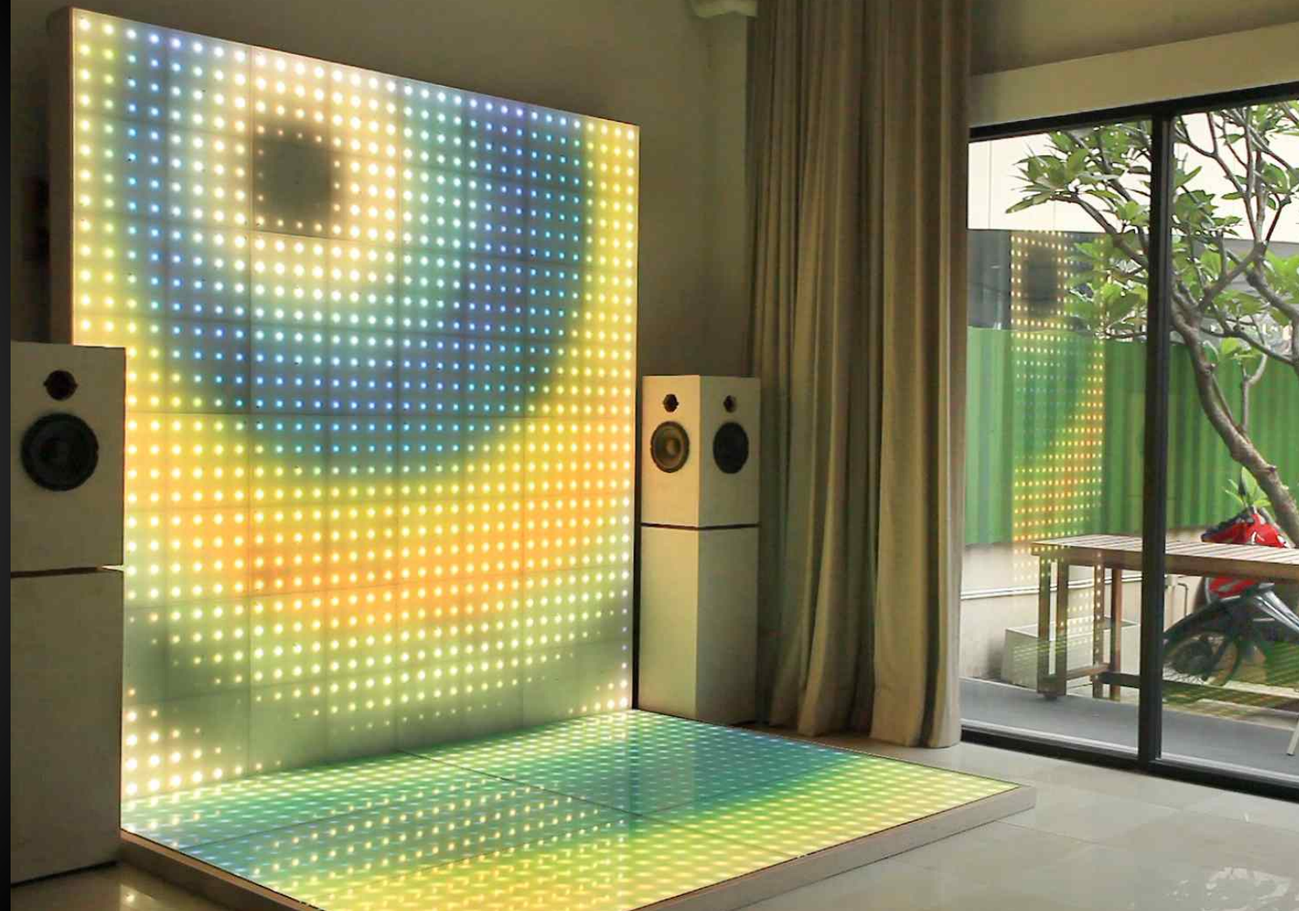
- True non-contact proximity sensing, with no moving parts ensures long life and high reliability.
Sensacell modules are inherently protected by the surface materials employed in typical installations.



Pop-Up and Events - (7 For All Mankind)



Tradeshows - (Volkswagen)



SensaSynth2™

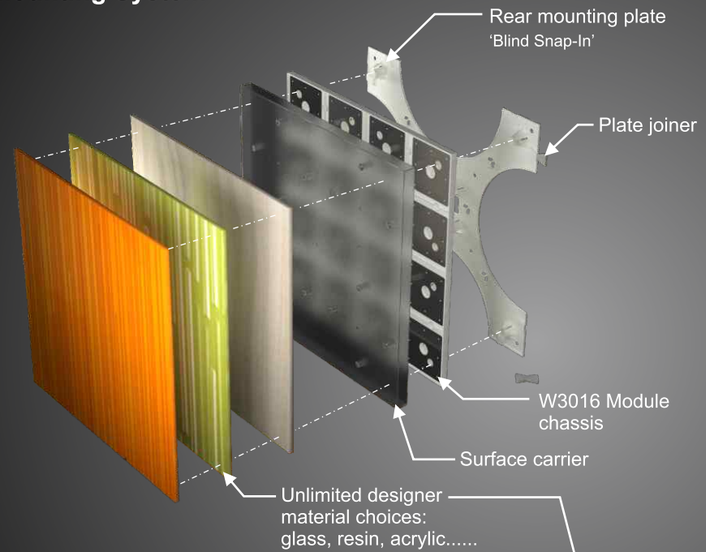


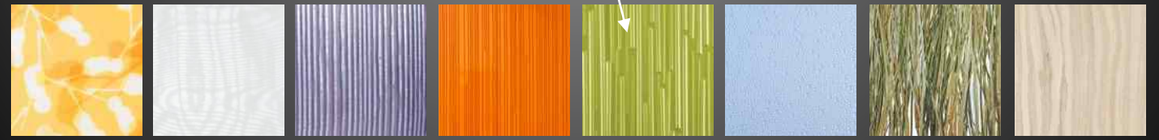
SensaSynth screen capture

Creative Flexibility
The embedded SensaSynth™ interactive engine is the heart of the system, delivering a unique visual and tactile interactive experience. Each module is intelligent, when connected together they act as a unified system capable of displaying video, animations and dynamic mood lighting effects, all interactively controlled by embedded motion sensing technology that can sense directly through most designer surface materials.

Easy to Configure
The W3016-16-RGB module and the SensaSynth™ configuration software are designed to make developing sophisticated interactive lighting effects a snap. Simply upload video to the panel, develop and explore the interactive concept live on the panel, then upload for stand-alone operation.

Mounting System



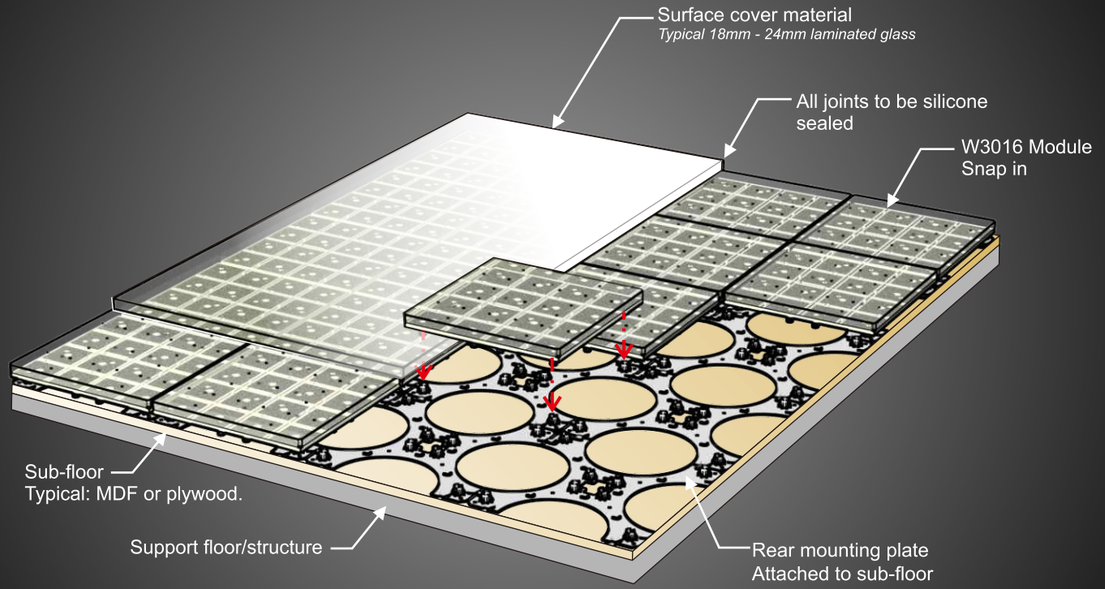


Easy to Install
Installing and connecting the interactive modules is quick and painless using the snap-in mounting plate system. Surface materials are installed to the front of each panel, the finished panel unit then snaps into the mounting plate, providing a clean finished look with all wiring and fasteners neatly concealed.

Rock-Solid Simplicity and Reliability
The W3016-16-RGB system is simple and totally self contained.
All that is required for operation is a 24 volt DC power supply.
No external controller is necessary. It's as simple to deploy as any other lighting fixture but with infinitely greater possibilities.

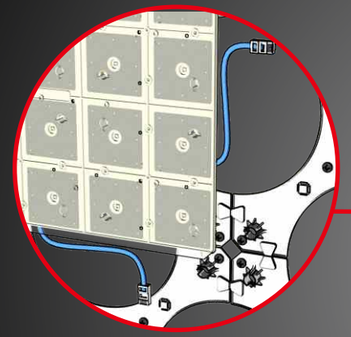
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Example #1: Typical floor installation

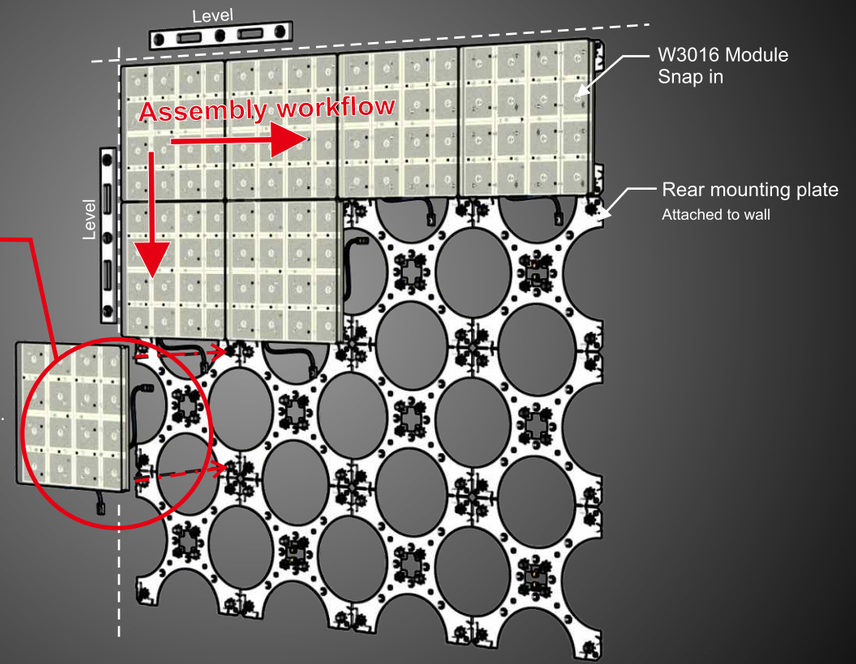


The floor needs to be flat within 6mm (1/8”) over 1200mm (48”).
This is critical as this will determine the levelness of the surface material and the final floor

Example #2: Typical wall installation



Add two jumpers to each module prior to attaching to rear mounting plate.
QTY: 2 times



Specifications

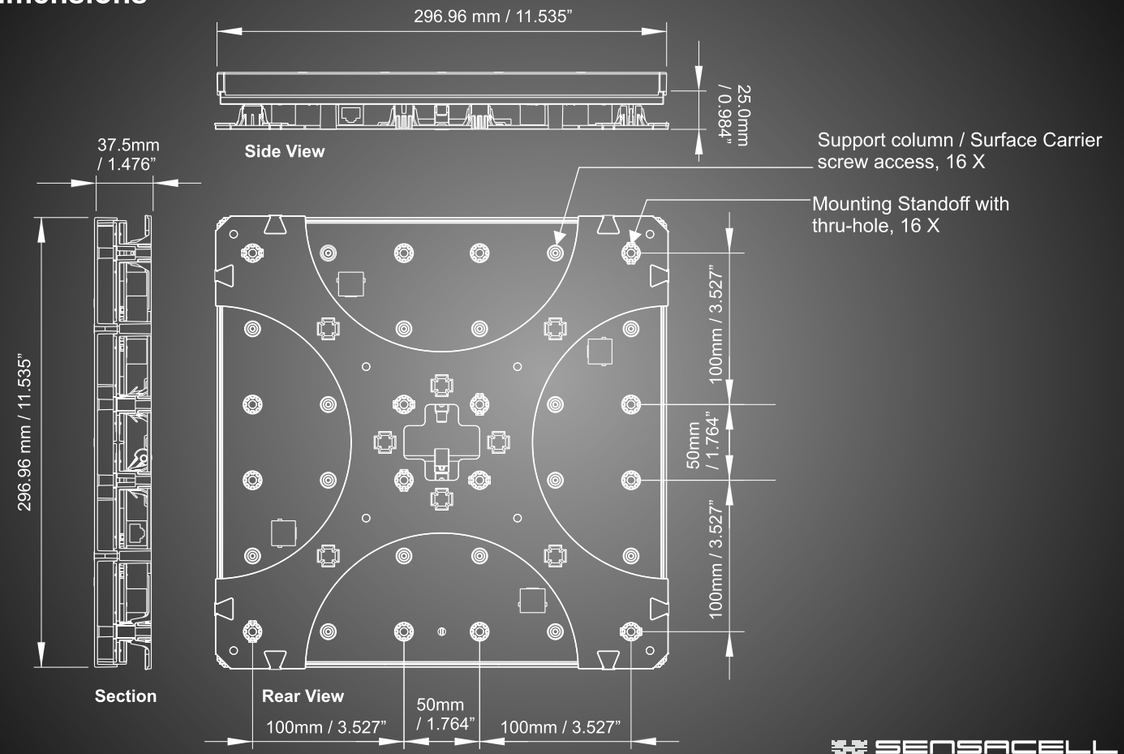
Physical

Module size	Module chassis + Rear mounting plate: 293.0mm x 293.0mm x **25.0mm** / 11.535” x 11.535” x **0.984”** Module chassis + Rear mounting plate + Surface carrier: 296.96mm x 296.96mm x **37.5mm** / 11.535” x 11.535” x **1.476”**
Weight	Module chassis: 811 grams / 28.61 ounces Rear mounting plate: 19.5 grams / 0.69 ounces Surface carrier: 240 grams / 8.46 ounces
Mounting pitch	300.0mm / 11.811” - module to module
LED pixel resolution	75.0mm / 2.952” pitch.
Construction	Injection molded plastic, PCB, Flame retardant to UL94V-0
Environmental range	Operating: -35 to 49 C / -30 to 120 F. Humidity: 5 to 90% - non condensing. Storage: -45 to 65 C / Storage: -50 to 150 F
Lighting	16 addressable pixels @ 75.0mm / 2.952” pitch. 16 digital gamma corrected PWM dimmers with 256 brightness levels
Sensors	16 x capacitive sensors, intelligent, adaptive. Sensing distance: 76mm / 3” Sensor response time: 100 milliseconds.

Electrical

Power	5.5 Watts, 24 Volts DC, 0.22 A Max, 0.025 A Nominal Power input connector: 1/4” Faston terminals
Communications	RS-485 half-duplex 230,400 Baud

Dimensions



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