



The 2012 New American Home Winter Park, Florida

Technology Overview

Architectural Electronics - a ZIO Company, CEDIA Member **Electronic Systems Contractor for the 2012 New American Home**

What's the story on The New American Home's technology?

Technology now permeates the entire building industry. Electronic systems in the home are no exception. In fact, residential uses are on the leading edge of the rapid evolution in personal technology. The 2012 New American Home utilizes the most innovative solutions for energy management, security, lighting control and entertainment. Technology tools at home are no longer reserved for the rich and famous.

You'll instantly realize how we're already utilizing some "far-out" gadgets - which were a part of *The Jetsons'* futuristic home - when you experience the technology in the 2012 New American Home. What would the country's finest show home be without the latest in home technology?

While systems in the past may have been unattainable to the average buyer, the majority of the technology incorporated into The 2012 New American Home can scale from a 2,500 square foot residence to a 25,000 square foot estate.

Energy Management:

Natural resources aren't getting any less expensive and the demand for power is increasing at a faster rate than production. With the advent of smart meter technology, your utility will soon be giving you discounts when you use power at off-peak times – and charging you extra when you use power during peak demand periods. The 2012 New American Home will be equipped to automatically shift consumption to discounted rate periods and decrease demand during peak high-rate periods. The system will also feature the ability to measure and display historical power usage and related costs, allowing you to make immediate decisions that keep money in your pocket.

Home Automation and Control:

Each of the electronic systems in the home will be connected to an advanced yet very cost effective home automation and control system. Gone are the days of complex and proprietary touch panels and programming. If you have a smart phone or tablet, you already know how to control the 2012 New American Home – both in the home or anywhere with Internet access. This revolutionary control technology makes homeowner customization simple and the technology affordable.

Lighting Control:

Today's advanced energy efficient LED and fluorescent lighting have unique control requirements, and the lighting control system in the 2012 New American Home will allow the full benefits of this lighting technology – while still providing beautiful architectural and accent lighting throughout the home. The lighting control system is also a key component of the Energy Management System to ensure that the home actively adapts to the demands of the "smart grid".

Motorized Shading:

Reducing solar gain is a very effective way to decrease energy consumption. The 2012 New American Home will take advantage of both exterior solar screens and interior privacy shades. These motorized systems can automatically adapt to the time of day and weather conditions to minimize solar gain and maximize natural light.

Security:

The 2012 New American Home features a complete home security system with a few key advancements. All keypads are now touch screens making the system simple to use. The system will also feature the ability to arm, disarm and check the status over the Internet, from any smart phone.

Video Surveillance:

We anticipate the future occupants of The 2012 New American Home will be empty-nesters and therefore spend a large amount of time out of town. To ensure everything at home is okay, the home features six high-definition digital video Internet connected cameras with automatic motion recording. These cameras can be viewed from any touch screen in the home or from any smart phone or tablet with Internet access. Additionally, the homeowner can set up alerts to notify them when activity is detected.

Entertainment:

The 2012 New American Home features all of the amenities you'd expect in this 4,000 square foot "empty-nester" home. Two media systems with digital surround sound allow simple access to a variety of audio and video entertainment, including streaming media from the Internet. Twelve zones of audio allow each area of the home to listen to just about any streaming Internet music source plus virtually limitless capacity of high-quality locally stored music. Each room features either a wall mounted Apple iPod Touch or iPad or a wireless handheld remote or iPad for convenient wireless control anywhere in the home.

Structured Wiring:

An electronics system requires proper infrastructure to meet a modern homeowner's expectations. Wireless technology will never replace the need for properly located wiring for TVs, built-in speakers, in-wall touch screens and high-speed reliable Internet. The 2012 New American Home has a lean yet adequate offering of structured wiring for Telephone, TV, Internet, Audio, Video and Communications. In addition, almost every room is outfitted with an empty conduit routed to the equipment room. Additionally, an exterior service provider approved enclosure with space for future fiber-optics including power and a conduit to the equipment room is installed should any future services or cabling need to be added.

Central Vacuum:

One of the most overlooked building technologies is central vacuum. This technology, which has been available since the 70s has come a long way since it was first introduced. The system in the 2012 New American Home will allow the homeowners to take advantage of a short hose with built-in power and vacuum control, plus floor level vacuum powered dust pans for quick cleanups. Additionally, because the vacuum system vents debris to the outside, it helps to maintain a healthy home.

"The 2012 New American Home isn't just Smart, it's Brilliant".



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