

# Cave 76

GREENWICH, CT

CASE STUDY | RESIDENTIAL

## ➔ Challenge

Create a system that offers advanced control and automation features and integrates with key sub-systems.

## ➔ Solution

A fully integrated Crestron system that controls audio, video, HVAC, lighting, motorized shades/draperies, hidden doors, pool, multiple security/alarm systems, and motorized exterior doors that drop into the basement.



## Crestron AV and Control Provides Ultimate Sanctuary for Movie Buff

“

The clients have a tremendous passion for technology and love the Crestron product line.”

— **John Clancy**  
Audio Command Systems  
CTO and Executive VP

Welcome to Cave 76. Named after the cave from the comedy skit “2000 Year Old Man” created by Mel Brooks and Carl Reiner in 1961, this amazing 40,000 square-foot Greenwich, CT home features the most advanced Crestron AV and control systems and delivers the ultimate entertainment experience for the homeowner and his family.

The residence has a fully integrated Crestron system that controls audio, video, HVAC, lighting, motorized shades/draperies, hidden doors, pool temperature, and filter system, multiple security/alarm systems, and motorized exterior doors that drop into the basement.

“The clients have a tremendous passion for technology and love the Crestron product line,” noted John Clancy, CTO and Executive VP, Audio Command Systems.

The new construction project took 4–5 years from design phase to move-in. “The size and scope of the project were huge. It took a lot of time, planning, and coordinating with the design team, which consisted of the homeowner, architect, builder, interior designer, and integrator,” said Clancy. “The team took a plot of land and created a truly magnificent estate, boasting the best control and automation solution, plus integration with many sub-systems.”

“We used Crestron for everything possible, from the surround sound processors to amplifiers and audio systems,” said Clancy.



## A tour of some of the unique rooms and features of the home

### Library/Office

On display in the library is the homeowner's vast comic book and memorabilia collection. With its high ceilings, all-wood walls, 12 bookshelf speakers, and lots of books, the room could easily be one found in Wayne Manor, residence of Bruce Wayne, the alter-ego of Batman®. The space combines the best of both worlds – high technology and high design to create a cool hangout and command center for the homeowner.

Audio Command made sure the homeowner's collectables are displayed and lit properly by using Crestron lighting control. Crestron motorized shades help protect the collection from damaging UV rays. Additionally, Audio Command installed electronic locks on the password-protected safe that contains the most valuable comic books.

Another unique feature of the library is the “hidden” technology. “By pulling the lever disguised as a book, the concealed Crestron-controlled door in the bookshelf opens, leading to a secret passageway to the upper library and balcony,” said Brett Hager, Senior Project Manager at Audio Command Systems.

The homeowner loves to enjoy a drink and a cigar in his office, but doesn't like the room filling up with smoke and lingering for days. The solution? An air filtration system akin to those used on submarines is integrated with the Crestron system to clear out the smoke and circulate fresh air.

### Gym

The Crestron touch screens are programmed with a one-touch button feature that turns on a path of lights to the gym for pre-sunrise workouts. The same button-touch simultaneously sets the HVAC to the desired temperature in the gym, and turns on the TV and music to the homeowner's favorite stations. With the Crestron system, the homeowner spends more time working out, and less time preparing the gym.



## Master Bedroom

The master bedroom features an 85-inch TV, full surround sound, Triad® speakers, and multiple subwoofers. The homeowners can control their entertainment, shades, lights, thermostats, alarm, security system, and much more from the MTX-3 handheld remote or tabletop V-Panel™ V12 touch screen. “The client can look at cameras and manage their entire property from their bedroom,” added Hager.

## Lighting & Shades

The house is enormous and the clients are very energy-conscious. Complete control and automation of shades and indoor/outdoor lighting enables them to increase energy efficiency while maximizing comfort.

## Home Theater

With a collection of more than 10,000 Blu-Ray™ discs and DVDs, this movie buff needed a place to enjoy his Mel Brooks collection and other favorite classic films. The 16-seat dedicated home theater controlled by Crestron does the trick.



“

The theater is amazing in its own right. In terms of sound, it’s definitely the best theater I’ve ever heard.”

— **Brett Hager**

*Audio Command Systems*

As they enter the theater, the homeowner, his family, and guests load up on popcorn and candy from the fully stocked concession stand in the lobby. Then, it’s show time! With path lighting, 26 powerful speakers, and the powerful ultra-bright Digital Projection® TITAN® projector (located in a separate room) it’s a mesmerizing experience.

“The theater is amazing in its own right. In terms of sound, it’s definitely the best theater I’ve ever heard.”

The Crestron DigitalMedia™ system routes any AV source to any room in the house, including the home theater. The homeowner can watch movies from his comprehensive collection and other content via the Kaleidescape® server, cable boxes, or Apple TV®. Whatever the client selects comes to life with the help of the Crestron PROCISE® surround sound processor and amplifiers.



## Indoor/Outdoor Pool Area

With one touch from the Crestron remote, the French doors surrounding the indoor/outdoor pool drop down and disappear into the basement. In just seconds, the indoor pool and lounge convert into a breathtaking outdoor space.

The Sonnex® multi-room audio distribution system pipes music throughout the home, and even through the barreled ceiling above the indoor pool for some added aquatic entertainment.

## Outdoor Entertaining

Inside and out, this home showcases the best of home automation. There are three large outdoor zones in which to enjoy music. There's also a screened-in porch with electric heaters tied to the Crestron system. If no one is occupying the space after a certain amount of time, the heaters turn off automatically.

## Security

The client can monitor the CCTV cameras around CAVE 76 using the Crestron touch screens throughout the home, or check in from anywhere with an iPad®. A sequence of camera images can be viewed by room or by floor.



The homeowner and Audio Command worked with a security consultant to integrate the burglar alarm, fire safety system, and perimeter system with the Crestron system to protect the entire estate and give the homeowners total peace of mind. If a visitor drives up to the front gate, an alert notification is activated and the panel displays a lock/unlock button. The homeowner simply taps the unlock button to allow the visitors to proceed to the house.

## End Result

After three months of cable management and systems integration of 14 racks of AV equipment, the result is an incredibly organized, easily serviced, clean space that the clients can show off to their guests as part of the home tour.

The customer is thrilled with the simplicity, control, and convenience the system brings to Cave 76. This was only possible with a very thoughtful and detailed system design, created brilliantly by Audio Command using Crestron technology.

## Meet the Team

**Integrator**  
Audio Command Systems  
[www.audiocommand.com/](http://www.audiocommand.com/)

**Architect**  
Mark P. Finlay Architects, AIA  
[www.markfinlay.com/](http://www.markfinlay.com/)

**Builder**  
Hobbs Inc.  
[www.hobbsinc.com/](http://www.hobbsinc.com/)