MONTOYA RESIDENCE
CUSTOM SMART HOME

In April of 2018 the Montoya family began a remodel of their 3000 SF home in Santa Monica California. They were referred to Digital Installers by their General Contractor. During the design phase Digital Installers worked with their architect to design a robust WIFI network, smart lighting, house audio, camera system, alarm system, TV room, backyard projector, motorized outdoor TV, and a backyard sound system. The project was completed in March of 2019.

PROJECT ELEMENTS

Backyard Projector Screen

Motorized Drop Down Projector

The Montoyas spend a great deal of time in their outdoor living space. Digital Installers was inspired to designed a custom outdoor projector system after learning the father is an avid sports fan and the children enjoy movie nights. A 238" projector screen was built into the tree line at the back of the property. A motorized lift was installed in the patio ceiling to hide the projector when not in use. The projector is controllable via the home's automation system making it simple and convenient to use. Since the installation was completed family, friends, and neighbors have thoroughly enjoyed this outdoor watching experience.
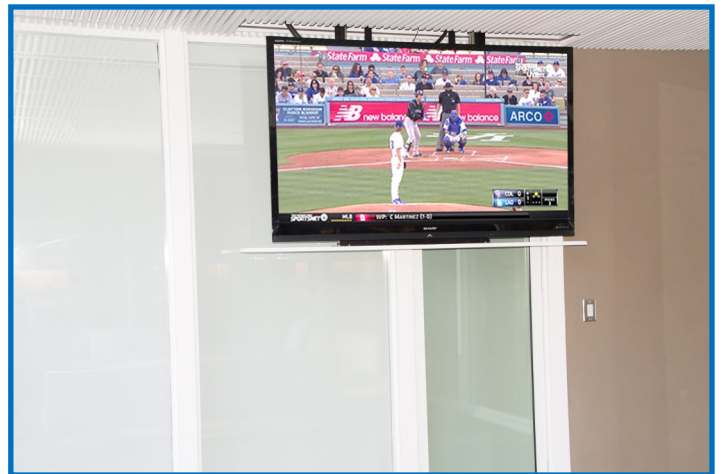
Motorized Drop Down TV
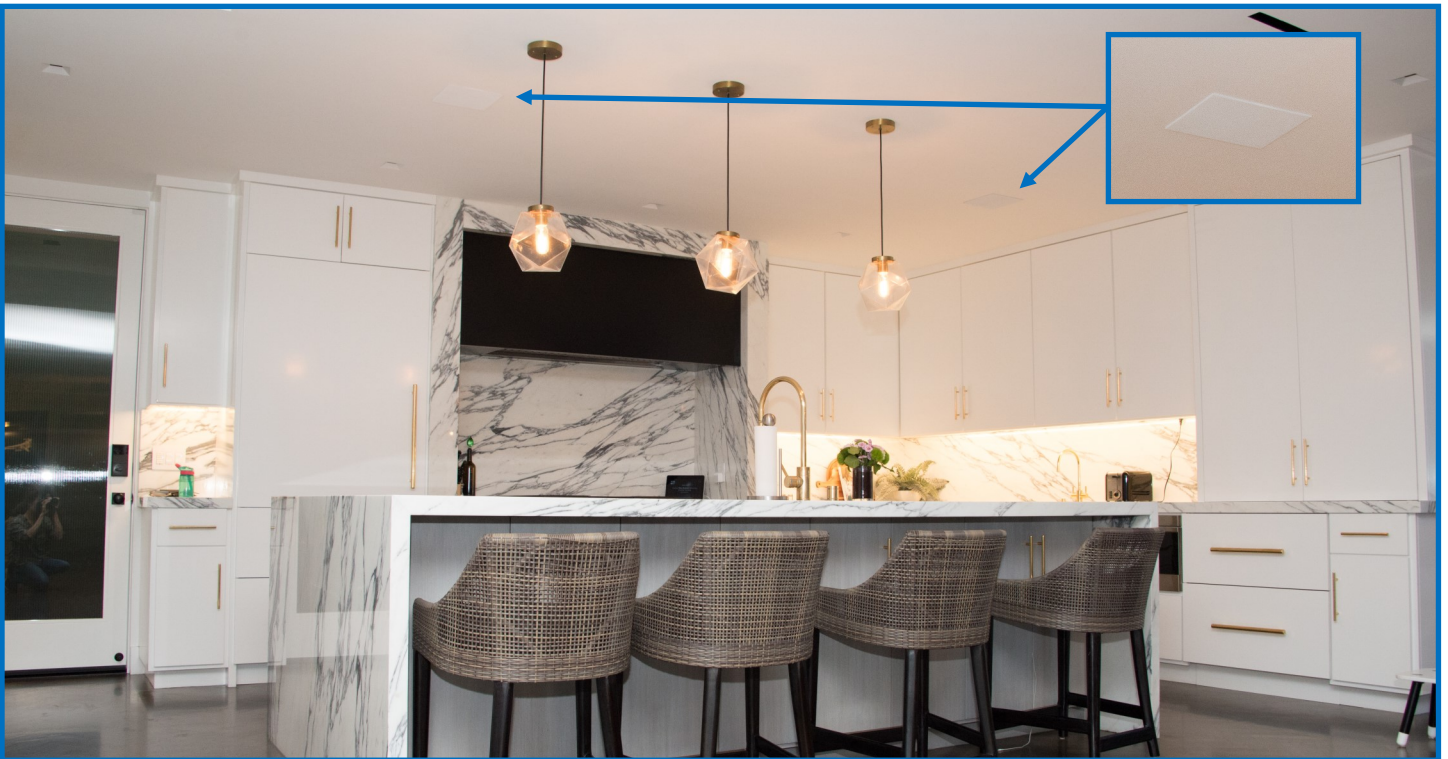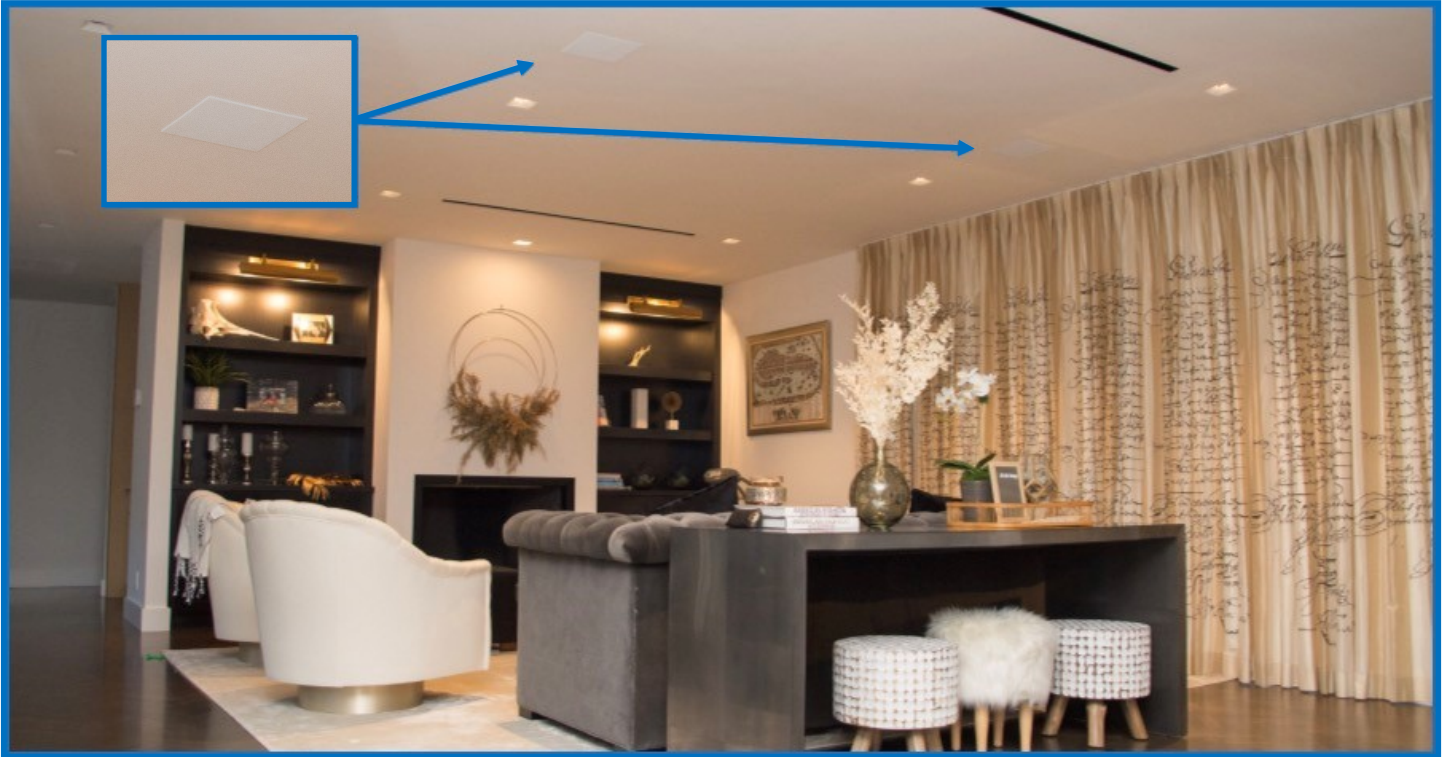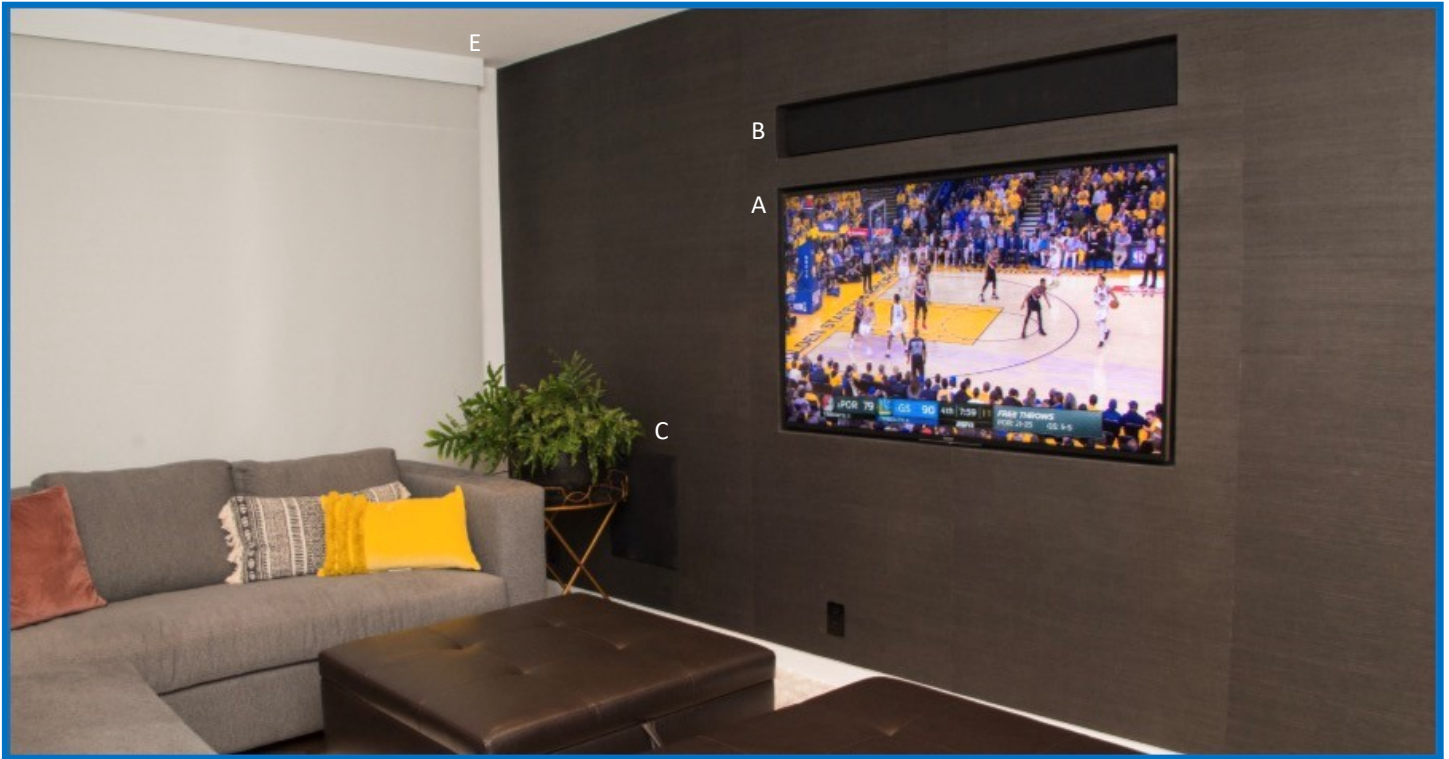

Up Position

Down Position

The Montoya family has a beautiful patio suitable for both entertaining large groups and having intimate conversations with friends and family. A TV is not always desired for these moments and can be a distraction. With the viewer's discretion in mind, Digital Installers put in a motorized lift with an outdoor rated TV. To further hide the TV when retracted, a custom base plate was fabricated to match the pattern of the lattice work. Four speakers and a subwoofer were hidden above the lattice for engulfing sound. The TV and speakers are controllable via the home's automation system making it simple and convenient to use.

House Audio

Throughout the house 18 in ceiling speakers were installed. Square speaker grills were used to match the homes angular design. When looking around the room the speakers do not stand out or draw attention, but blend in well with the ceiling. Each rooms' sound is controllable independently by use of wall switch, touchscreen, or mobile app. The Montoyas regularly select Spotify, Apple Music, and TV audio as sources.

TV Room

A. Recessed Mounted TV

The TV room at the Montoya residence is a clean minimalist design. In order to mount the TV perfectly flush the entire wall was built out an additional 2 inches. A half inch gap around the TV allows for ventilation.

B. Recessed Mounted Custom Length Soundbar

To compliment the recessed mounted TV, we ordered a custom soundbar cut to the exact length of the TV. The soundbar was then recessed in the wall above the TV.

C. In-Wall Subwoofer

Continuing with the recessed design we installed an in-wall subwoofer. It's clean appearance is not only visually appealing, but increases floor space that would have been occupied by a traditional floor standing sub.

D. In-Ceiling Surround Speakers (out of frame)

To complete the 5.1 surround sound two rear speakers were cut in-ceiling above the couch.

E. Motorized Window Shades

To provide optimum lighting in the room we installed dual roll window shades. With the press of a button the natural light entering the room can be reduced to 5% with a standard shade or 0% with a black out shade.

F. Control (out of frame)

The audio/video, lighting, and climate is controllable via a handheld remote, wall station, or via mobile app. The receiver and all source components are distributed from the homes headend room.

Security & Control

Custom Switches

For ultimate convenience a variety of wall switches, keypads, and dimmers were installed to control 16 separate lighting loads. Wall keypads also control fireplaces, thermostats, speakers, TVs, and alarm system. With one touch the customer can trigger a preset scene such as "goodnight," "good morning," and "entertain."

Wall Stations

Located throughout the home, each wall station is a 10" screen that allows for control of TVs, sound, lighting, thermostat, security, and more. Most devices from the cameras to the coffee maker are "smart" making control and customization a breeze. Life for the Montoyas is safer and more efficient.

Video Doorbell

Allows communication with front porch, realtime motion/ring alerts, and Cloud storage.

Smart Locks

Remotely lock and unlock doors from anywhere. Assign pin codes to friends and family.

Cameras

Hard wired high resolution cameras with night vision. Onsite storage with remote viewing capability. Realtime alerts when a preset line is crossed on the property.

Alarm

Never again will the Montoyas need to prepare their house when coming or going. Upon arming and disarming the system their door locks, lights, thermostat, TVs, and sound will respond accordingly.

Network & Automation

Centralized Distribution

Wiring from all TVs, speakers, projectors, WIFI access points, cameras, alarm, and wall stations comes back to the headend room. All major components are organized in one location allowing for a cleaner look throughout the house. The Montoyas can access any audio or video source in any room using a handheld remote control or with the mobile app.

The Equipment

The 44u rack is on casters making it easy to access the front and back for service. Inside the rack is a power conditioner, network switch, router, remote management system, amplifiers, receivers, automation controller, camera recorder, cable boxes, audio matrix, video matrix, and a rack mounted cooling fan. The alarm panel is mounted to the wall adjacent to the rack, but the alarm keypad is custom mounted to the side of the rack.

Benefits of Automation

Integrating all the home's technology into one simple to use interface has made life much more convenient. The Montoyas can access that interface from their phones, tablets, handheld remote and at wall stations. Additionally custom scenes were programmed such as "entertain," "goodnight," and "good morning." These scenes prepare multiple devices with one touch saving time.