



SMART HOME EXPERIENCE CENTER STATIONS

WHOLE HOUSE APP CONTROLLED SOLUTIONS:



MUSIC

This home has 9 audio zones. Music from Pandora, Spotify, Deezer and dozens of other music source can be streamed to the front porch, living room, family room, guest bathroom, kitchen, loft, wine cellar, and the backyard. Each of these audio zones are independently powered by a Sonos Connect Amplifier driving high fidelity Sonance and Wisdom Audio speakers in each zone. These zones can be independently controlled from the Sonos application running on any phone, tablet, or computer inside or outside the home.



LIGHTING

All of the home's lights and shades are controlled by the Lutron Radio RA2 control system. This system can easily be installed in any existing home to control lights and shades. The RadioRA2 lighting control system can be controlled from in-wall or table top keypads as well as any smart phone or tablet in the home or away from home. Lighting scenes can easily be programmed to create welcome home, entertain, or all off scenarios. Lutron has already announced support of the Apple Watch interface.



TELEVISIONS

This home has 3 independent TV viewing zones – the living room, family room, and the backyard theater. In addition, live or recorded TV is streamed to the iPad in the guest bathroom and the kitchen. The one centralized TiVo recorder that is in the closet AV rack can hold up to 450 hours of high definition recorded cable TV shows and stream live or recorded TV to each of the TV zones in the home. Each TV in the home captures one of 4 available tuners in the host TiVo recorder to watch live TV. When a TV is turned off the tuner becomes available to another TV that comes online. In addition, these

tuners can all be used for recordings as well – so that up to 4 shows can be recorded simultaneously. TiVo has recently announced an upgrade to their TiVo recorder line – the TiVo Mega – which has support for up to 6 tuners and up to 3 years of recorded content! TV recorded content can also be downloaded to iPads for later viewing away from home or streamed to a client's iPad in locations around the world over a wireless internet connection.



ENTERPRISE GRADE WIRED AND WIRELESS NETWORK

The telecom rack contains the central networking system for the home. The swing out rack holds the cable modem, router, and two 24 port gigabit switches that provide high speed internet connections to the 48 wired ports throughout the home and 3 wireless access points. This infrastructure gives the property complete wired and wireless high speed internet coverage. All the homes music, TV, cameras, and control information travel on this home network to enable the control of each of these systems from smart phone and tablets. Mounted on the side of the rack you will find all of the internet gateways for various subsystems in the home – such as the Honeywell thermostat that controls the heating and air conditioning upstairs, the LiftMaster gateway provides a network interface to the garage door, and the Philips Hue hub provides the network interface to the accent lighting above the AV rack. On the rack shelves we have a Synology drive that provides local back up storage for the computers in the home and also serves as video recorded storage for the high definition Mobotix camera under the backyard roof eve.

INDEPENDENT APP CONTROLLED STATIONS:



LOCK STATE CONNECT DOOR BOLT (1)

This keypad door lock allows the guest to enter a code to unlock the door with a number that is specifically programmed for their use. Assign separate codes and times for cleaning service providers, repair personnel, or any guest from your internet browser. Keep track of who has entered and left your home and the time of their arrival and departure. The lock can also be remotely opened or closed from any smart phone or tablet.



MOBOTIX FRONT DOOR STATION (2)

This is the Mobotix intelligent front door camera station. When a guest approaches this door station and rings the doorbell it will ring a chime inside the home, a phone, as well as notify all of the smart phone and tablets that someone is at the front door. When you open the Mobotix application you can see and speak with the guest at the front door. If desired, the front door (or gate) can be opened from the application – whether you are at home or away.



RACHIO SPRINKLER CONTROLLER (3)

This intelligent irrigation controller is connected to the network of the home. The programming of each of the sprinkler zones is done from the app or a password protected web interface – making it very easy to reschedule watering times at each zone. These zones can also be controlled by any smart phone or tablet. This is a very useful feature when you are working on sprinkler line repairs. In addition – this intelligent sprinkler system knows the weather forecast and will not provide irrigation when the forecast call for rain.



MOBOTIX FRONT DOOR STATION (4)

This is the Mobotix intelligent gate station. When a guest approaches the gate and rings the bell it will ring a chime inside the home, a phone, as well as notify all of the smart phone and tablets that someone is at the front door. When you open the Mobotix application you can see and speak with the guest at the front gate. If desired, the front gate can be opened from the application – whether you are at home or away.



GE SECURITY ALARM PANEL (5)

This GE Security system monitors all the doors and detects motion in the main rooms of the home. With the Alarm.com application it is easy to arm and disarm the home from any smart phone or tablet inside or outside the home. In addition you can easily see who has entered the home and when they left based on when the keypad arm and disarm code was entered. Working with the Lutron lighting system, when an Armed Away code is given the lights of the home can be automatically turned off.



SAMSUNG HOME THEATER SURROUND SOUND SYSTEM (6 & 8)

In the living room you can experience an immersive 5.1 TV and movie viewing surround sound experience. Kaleidescape movies, high definition cable broadcasts, and Apple TV content are all brilliantly displayed on an ultra-high definition 65" Samsung TV via the Denon 2K to 4K up converting receiver. 105 watts of power are delivered to each of the left, center, right, and rear Sonance Cinema Living ceiling speakers and the Sonance in-wall subwoofer. This entertainment content is easily

controlled by a button based Universal Remote Controller and/or the graphic iPad touchscreen mounted on the living room wall.



IPOINT IN-WALL IPAD CONTROL STATION (7)

This is one of the central control stations for the home. From this in-wall iPad Air tablet you can easily control the home's lighting, security, temperature, music, and audio video systems. You can also see who is the front door or gate, watch TV, view the energy production of the solar panels and even know if your house plants need watering.



NEST THERMOSTAT (9)

This elegantly designed smart thermostat can be controlled by any smart phone or tablet inside or outside the home. If you forget to turn off the heating when you leave the home you can turn it off from your smart phone or the NEST thermostat will know that you have not walked by the thermostat over a certain extended period of time and will automatically turn off. Combined with recipes from IFTTT the NEST thermostat can be turned off and lights will automatically turn off as well.



MID-ATLANTIC AV RACK (10)

This AV rack contains all the of the home's main AV equipment, including the whole house TiVo recorder, the Kaleidescape Movie Server, the receiver for the living room surround sound zone, and all the Sonos amplifiers for the home. These are all plugged into a 12 outlet intelligent power conditioner that can be controlled by any smart phone or tablet throughout the home – making it very easy to reboot any of these AV devices for maintenance and troubleshooting. These telecom racks are typically located in a home's mechanical room.



SMAPPEE ELECTRICAL MONITORING STATION (11)

The SmappEE electrical monitoring app shows cyberManor's total energy usage, standby power consumption and the corresponding costs. With the installed solar panels at cyberManor, SmappEE can also monitor their power production. Using a variety of useful graphs, the logging of on and off events per appliance, and the real-time electrical usage views helps us understand exactly where, when and how much energy we consume. The app includes a historical view of consumption and energy costs per day, week or year.



ARTICULATING IPAD - STREAMING TV (12)

From this iPad mounted next to the bathroom sink you can stream TV from your centralized TiVo recorder to watch the morning news. It also can be used to control the music from the Sonance stereo speaker overhead or turn on or off the lights. The iPad is magnetically attached to the swivel out mount and can easily be removed if you want to hold it in your hand.



SONANCE INVISIBLE IN-WALL SPEAKER (13)

The music that you hear in the kitchen is coming from an invisible speaker that is located on the wall opposite the sink. This speaker mounted in the wall is connected to a Sonos amplifier and can be controlled by the iPad that is mounted on the face of the refrigerator. You can listen to all of your favorite music sources in the kitchen – from Pandora, to Spotify, Google Music, and now Deezer, the high resolution music streaming service.



REFRIGERATOR MOUNTED IPAD STATION (14)

This iPad station is primarily used to control the music and lighting in the kitchen. It is also used to stream live or recorded TV from the central TiVo Roamio. With the Sanus magnetic cradle the iPad can be mounted to the face of the refrigerator or detached and mounted on a swing arm mount in the kitchen for easy viewing of recipes, photos, read the morning newspaper or simply to see and talk to a guest at the front door or gate.



MID-ATLANTIC SWING OUT TELECOM RACK (15)

This rack contains the central networking system for the home. This swing out rack holds the cable modem, router, and two 24 port gigabit switches that provide high speed internet connections to the 48 wired ports throughout the home and 3 wireless access points. This infrastructure gives the property complete wired and wireless high speed internet coverage. All the homes music, TV, cameras, and control information travel on this home network to enable the control of each of these systems from smart phone and tablets. Mounted on the side of the rack you will find all of the internet gateways for various subsystems in the home – such as the Honeywell thermostat that controls the heating and air conditioning upstairs, the LiftMaster gateway provides a network interface to the garage door, and the Philips Hue hub provides the network interface to the accent lighting above the AV rack. On the rack shelves we have a Synology drive that provides local back up storage for the computers in the home and also serves as video recorded storage for the high definition Mobotix camera under the backyard roof eve.



IPAD MINI TV UNIVERSAL REMOTE CONTROLLER (16 & 17)

In the family room the 4K TV viewing experience on the curved Samsung 55" TV is controlled by the Roomie Remote universal remote control software running on an iPad mini installed in an iPort cradle with buttons. This button based cradle allows one to control volume up or down, channel up or down, power on or off via buttons that can be easily controlled in the dark or while watching a TV show. The large graphical screen of the iPad mini allows one to see an entire electronic programming guide, review the contents of an upcoming show, set recording options and easily switch to Apple TV or Google Chromecast content sources – graphically rich screens best seen on a large touch-screen, not on the small screen of a typical button based universal remote control. Buttons and a rich graphical screen – the best of both worlds in a universal remote controller.



LUTRON MOTORIZED SHADES (18)

These Lutron motorized shades can be controlled by a keypad on the wall or any smart phone or tablet. The shades can be made of fabric or the honeycomb material that stows very close to the top of the window. These can be mounted inside or outside the window sill. They can also be set to an automatic timer so they open or close at specific times of the day. Or they can be included in a lighting scene where the lights turn off and these shades will close.



NEST PROTECT (19)

The Nest Protect provides an intelligence based alarm protection in the home for smoke and carbon monoxide. When it detects an initial level of smoke it provides a cautionary verbal warning and a message to your smart phone application that there may be a fire hazard – but if it doesn't reach a certain level of smoke detection it assumes that it may simply be burnt toast or other non-threatening fire conditions. Once a more concentrated stream of smoke is detected than an alarm will sound and a notification streamed to your smart phone application. Similar warnings are given when carbon monoxide levels rise – and if they rise to a sufficiently high level than homes equipped with a NEST thermostat will automatically turn off the furnace.



WEARABLES AND PROXIMITY SENSORS (20)

These next generation smart home control devices will augment the smart phone and tablet control of audio/video, lighting and security systems. The proximity sensor will know the location of your smart phone inside your home and only provide home control options relevant to the room that you are in. Products like the Apple Watch and Google Glass will give you control of these systems from your wrist or the blink of your eye.



AUGUST AUTOMATED DOOR LOCK (21)

The August Smart Lock allows us to control who can enter the cyberManor back door and who cannot enter—without the need for keys or codes from a smartphone or computer. August's encrypted locking technology is safer than keys that can get lost and codes that can be copied. With Auto-Unlock, August senses one's approach and magically unlocks for our employees without them having to reach for their phone. In addition, with August's EverLock™ technology it can automatically lock your door behind them.



IGRILL BBQ MONITORING (22)

Using this intelligent temperature probe in your meat on this grill will send a wireless signal to the smart phone and tablets in the home with the actual temperature of the meat and notify you when it is cooked to your desired taste. The days of overcooking your meat and chicken are over! You can view this temperature probe application in operation on the wall iPad in the family room.



LUTRON SMART FOUNTAIN (23)

In the backyard outdoor landscaping a fountain has been installed and the water pump control is connected to the Lutron lighting control system in the Experience Center Home. It is programmed to be part of the backyard entertainment lighting scene - a scene where the low voltage landscape lights turn on, the back deck lights turn on and the fountain starts to flow. It is also on a timer so that at midnight it will automatically shut down.



APPLE TV OUTDOOR HOME THEATER (24)

This outdoor home theater is the ideal entertainment experience for larger crowds on warm summer evenings. Utilizing a short throw high definition projector and a 140" outdoor screen gives a movie like entertainment experience in the backyard. Watch streaming concerts from an Apple TV or your favorite football team streaming from a TiVo mini connected to the home's TiVo Roamio server. And the dramatic high definition, large screen experience is enhanced by the immersive surround sound audio experience of the Sonance SonArray system installed around the circumference of the backyard.



PIANO DISC PLAYER PIANO (25)

This intelligent player piano plays songs that have been recorded by professionals and stored in digital format on a smart tablet or phone. You can stream this content from your phone directly to this piano to have it automatically play piano music from your favorite artists. In addition, if there is orchestra or singing that accompanies the piano music it can be played through the whole house audio system giving the effect that you are listening to a live concert. And if there is a video of the artist this information can be sent to a TV for live viewing of the concert.



TIGO INTELLIGENT MONITORING SOLAR PANELS (26)

The 3.2 KW photovoltaic solar panels on the roof of the back garage generate all of the energy needed for the audio video and control systems in this Smart Home Experience Center. The output of each of these photovoltaic panels can be seen on any computer or smart phone or tablet inside or outside the home. Energy production can be viewed hourly, daily, weekly, monthly, or annually.



MOBOTIX HIGH DEFINITION BACK YARD CAMERA (27)

The high definition color camera above your head is capturing real time viewing of the entire driveway and deck. This video is stored on a hard drive in the telecom rack and can be viewed live or from a recording from any smart phone or tablet. The 180 degree fish eye lens in this camera gives the greatest range of view from one camera location – eliminating the need to have 2 or more cameras pointing in different directions.



LIFTMASTER AUTOMATED GARAGE DOOR (28)

This garage door can be open or closed from any smart phone or tablet inside the home or from anywhere in the world where you have internet connection for your phone. If you are expecting a large delivery you can open the garage door remotely to have it stored. When you come back from a bike ride you can open the garage door from your smart phone and if you forget to close the garage door when you leave home you can see that it is open and close it with the touch of a button on your phone.



ELERTUS TEMPERATURE AND HUMIDITY MONITORING (29)

Using this application on any smart phone or tablet you can monitor the temperature and humidity levels of your wine cellar at home or away. With a security contact closure on the door you can also monitor who goes in and out of your wine cellar and the times they entered and left. From the iPad Mini in this custom wood cradle you can control the music and lights in this wine cellar.



CYBERMANOR SMARTHOME EXPERIENCE CENTER IPAD APP

Available now in the Apple Store

Take a tour of the
CYBERMANOR SMART HOME EXPERIENCE CENTER

EXTERIOR	LIVING ROOM	BEDROOM
1 Smart Front Door Station	5 Alarm.com Security Keypad	11 Electrical Monitoring Station
2 Automated Dead Bolt Keypad Lock	6 Home Theater Surround Sound Experience	
3 Smart Irrigation Control	7 In-Wall iPad Control Station	BATHROOM
4 Smart Gate Control	8 4K Ultra HDTV And Movie Experience	12 Articulating iPad Streaming TV
		KITCHEN
	HALLWAY	13 Invisible In-Wall Speaker
	9 Nest Thermostat	14 Refrigerator-Mounted iPad Station
	10 AV Rack On Rollout Casters	
	FAMILY ROOM	15 Swing-out Telecom Rack
	16 iPad Mini Universal TV Remote Controller	17 4K Ultra HD Curved TV
	18 Motorized Shades	19 Nest Protect
	20 Wearables And Proximity Sensors	21 August Automated Door Lock
	BACKYARD & GARAGE	22 iGrill BBQ Monitoring
	23 Smart Fountain	24 Outdoor Home Theater
	25 Pianodisc Player Piano	26 Intelligent Monitoring Solar Panels
	27 High-Def Backyard Camera	28 Automated Garage Door
	WINE CELLAR	29 Temperature And Humidity Monitoring
	WHOLE HOUSE	• Whole House Audio - Sonos
	• Whole House Lighting And Shading - Lutron	• Whole House TV - Tivo
	• Enterprise-Grade Wired And Wireless Network	

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INNOVATION. INTELLIGENCE. INTEGRATION.

Experience how each of the entertainment, comfort, and security systems in the cyberManor Smart Home can be easily and intuitively controlled from any smart phone or tablet.

Smart Home Showcase Partners Include:

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OLUTRON
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nest
SONANCE

More details on each smart home feature on the reverse side



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610 University Avenue
Los Gatos, CA 95032
www.cybermanor.com
408-399-3331

