



The Smart Home People™



Smart Home Capabilities

TriVista Smart Homes is pleased to provide advanced Control4® Smart Home Capabilities to the Princess Margaret Hospital Foundation Fall Lottery Showhouse. This automated home is safer, more enjoyable, and offers far greater comfort and convenience than an ordinary home. The home's various systems can be easily controlled from a simple remote control, in-wall touchscreen, iPod, or internet connection. It will notify the homeowner when needed, and delivers advanced energy management capabilities, helping the homeowner contribute to a green living lifestyle.

Control4 home automation gives the homeowner simple, centralized control over lighting, music, home theater, temperature and security. Wireless, IP-based products integrate existing technology into one complete system, providing a new level of entertainment, comfort and convenience to the family. Control4 smart lighting uses timers, motion sensors and dimmers to enhance security and reduce energy costs.

One-Touch Home Theater/TV

Simplifies the control of audio, video and home-theater components, eliminating the need for multiple remotes. A simple, whole-house remote feature bi-directional wireless communication, a backlit LCD screen, and the ability to browse media and control other automated devices in the home. A true cinematic experience can be enjoyed in the recreation room.

Comfort & Convenience

Control all the home's systems with an in-wall touchscreen, on-screen TV, or a wireless iTouch, featuring an intuitive, rich colour user interface. Temperature and lighting levels are set according to one-touch scenes like "Good Night", or based on events such as occupancy or time of day. Temperature is adjusted automatically when the family arrives or leaves, goes to bed, etc. The home can be monitored and adjusted from anywhere in the world via internet.

Multi-room Music

Digital music collections and DVDs can be stored, organized, and streamed to several rooms in the house from multiple sources.

Smart Lighting

Main room lights are controlled by Control4 automated dimmers. Lights can be controlled from the touchscreen, keypad, iTouch, or remote control. Lighting scenes offer simple and elegant control over lighting. Lights will react automatically when entering or leaving a room.

Safety and Security

Lights will turn on automatically in the event of an emergency such as an intrusion or fire. If away, the home will automatically notify the homeowner by phone of any problem or emergency. Parents will be notified of children's arrival home, and TV watching during homework hours. See camera images on TV, iTouch, or in-wall touchscreen. Simulated night-time occupancy reduces odds of intrusion. Monitor children's arrival home, gaming time, or TV viewing.

Energy Management

Electricity wastage is reduced by automatically shutting off lights when not needed. Lighting levels are reduced when full brightness is not needed, reducing electrical costs and prolonging bulb life. The home reduces heating/cooling energy consumption by automatically adjusting temperature based on when people are home, what they are doing, and what parts of the home are occupied. And the system will adjust energy consumption in response to the forthcoming Ontario Time of Use (ToU) electrical billing. Even the audio amplifier has a power-save feature that automatically puts the amp into a low power state when not in use.

One-Touch Home Theatre/TV	<ul style="list-style-type: none"> • Single remote to operate home theatre/TV • Select movies by cover art • Automatically adjust lighting/temperature for movie/TV watching
Comfort/Convenience	<ul style="list-style-type: none"> • One wireless remote for entertainment, security, lighting, etc. • Automatic temperature adjustment • Pre-programmed lighting scenes (<i>Welcome, Goodbye, Entertain, Watch TV, etc.</i>) • Automatic homeowner alert notifications
Multi-Room Music	<ul style="list-style-type: none"> • Stream digital Digital music throughout the home • Select different music by room • Control music source with remote, in-wall touchscreen, or portable Apple iTouch • Manage digital music collections
Smart Lighting	<ul style="list-style-type: none"> • All ON, all OFF convenience • 0-100% light level (dimming) control • Convenience scenes (<i>Welcome, Goodbye, Entertain, Watch TV, etc.</i>) • Proximity Lighting control • Event-driven lighting control (arrive/leave home, intrusion, fire, etc.)
Safety & Security	<ul style="list-style-type: none"> • Simulated occupancy • Automatic Homeowner Alerts • View camera feeds on TV, touchscreen, smartphone • All ON Lighting upon intrusion • Flash exterior Lights in emergency • Lights ON, Furnace OFF if fire detected
Green Home	<ul style="list-style-type: none"> • Motion Sensor for proximity-based room control • Smart Thermostat for program control of heating/cooling • Lighting dimming, scene control • Lights Auto-OFF on leaving room • Occupancy-based lighting, heating/cooling control • Ready for Ontario Time of Use (ToU) Electricity Billing

Equipment List

Smart Home Controller

Music and Home Controller. Control music, comfort, security, lighting, video. Online music recognition and storage, digital audio streaming.



- wireless communication
- Browse by artist, song, genre, cover art.
- IR, contact, relay, serial connections.
- USB storage connection
- HD onscreen navigation.

Smart Home Remote

Sleek, compact remote provides customization and control never before possible in a handheld device.

- Backlit LCD screen
- Wireless—no need to point at device
- Single-button Audio/Video control
- Replaces all other remotes
- Context sensitive programmable buttons
- Rogers/Bell ExpressVu onscreen Guide/PVR
- Motion-activated power on/off



Smart Thermostat

Intelligent climate control. Bi-directional communication with heating/cooling system.



- ☑ Personalized programming with up to six different setpoint periods/day
- ☑ Automatic changeover between heating and cooling, plus overshoot and undershoot settings for reduced system cycling.
- ☑ Manual override
- ☑ Backlit LCD
- ☑ Intuitive user interface
- ☑ 5 soft menu buttons
- ☑ single/multi-stage system control

Multi-Zone Amp

Delivers audio throughout the home. Digital amplifier delivers music from any connected source, via local household network.



- ☑ 4-zone audio distribution matrix
- ☑ 5 band parametric equalizer
- ☑ 60W per channel
- ☑ 2 analog, 2 digital inputs
- ☑ Ethernet port

My House iTouch® Interface

Full fingertip home control on a portable wireless Apple iPod Touch.



- ☑ WiFi Connection
- ☑ Full Control4 Director Menu
- ☑ Control music source and playlists
- ☑ Easy setup/configuration
- ☑ View Camera images

Smart Light Switches

Elegant and convenient lighting control via beautiful dimmable wall switches.



- ☑ Control up to 100W load, or music, etc.
- ☑ Customizable LED status lights for user feedback
- ☑ Ergonomic smoothed design for fingertip control
- ☑ Decora wall plate

In-Wall Touchscreen

Touchscreen control of your entire home. Rich colour graphics and touchscreen convenience.



- ☑ Simple onscreen navigation
- ☑ 7-inch screen
- ☑ View optional camera video
- ☑ Bright LCD screen
- ☑ Programmable shortcut buttons
- ☑ View music cover art

In-Wall Keypad

Complete control of your home with 6 programmable buttons. One-touch operation of lighting/entertainment scenes containing any operational commands or sequences.



- ☑ 6 control buttons
- ☑ LED Feedback lights
- ☑ Custom button engraving

Room by Room

Mechanical Room	
Equipment	Capabilities
HC 300 Home Controller	Wireless control of all home systems. Music streaming and management. Integrates various home entertainment and systems, devices. Multiple IR and serial outputs and intelligent video sensing for home theater control. Devices throughout the home are controlled via communication over wireless ZigBee™ (802.15.4) mesh networking, Ethernet, or WiFi. Works with all Control4 components and a comprehensive array of third party devices. High-Definition on-screen navigation provides large, bright, clear 16x9 graphics
Multi-Channel Amplifier	A compact, state of the art digital amplifier that delivers high quality sound to different rooms in the house. 100 watts per channel. Centralized control, easy configuration, and seamless integration with other A/V component. Connects directly to any Control4 home automation system and is fully controllable throughout the home. Adjustable bass, treble, and gain for each room. Includes a matrix switch for complete flexibility in distributing any source to any set of zones. Independent volume control and a 5 band parametric equalizer customizable for each zone. Rack mountable.

Smart Thermostat	Bi-directional communication and seamless integration with the Control4 home automation system. Sophisticated, sleek profile fits beautifully in any home. Large backlit LCD .Intuitive interface for common features. Personalized programming with up to six different set point periods per day. Multiple hold options when departing from programmed schedule. Automatic changeover between heating and cooling system control plus overshoot and undershoot settings for reduced system cycling. Robust, reliable, wireless connectivity using the ZigBee™ (802.15.4) mesh networking standard. Connects to heating and cooling systems following standard thermostat wiring conventions. Operates as a stand-alone thermostat if connection to controller is ever lost.
Video Server	The Axis 241S Video Server converts the analog CCTV camera image to an IP-based signal, for presentation on Control4 touchscreens and the family room TV. Built-in motion detection, SNMP and simultaneous Motion JPEG and MPEG-4 streams in resolutions up to 704x576. De-Interlace Filter for improved image quality.
Kitchen	
Equipment	Capabilities
7-inch in-wall Touchscreen	Bright, easy-to-read touch screen with rich color graphics, and easy-to-navigate interface. Provides the same style and menus of other Control4 interfaces. Dynamic color graphics featuring tabs and icons for simple touch access to intelligent technology. Four programmable buttons allow customized, quick access to common or critical functionality and lighting scenes.
Smart Light Switches (pot lights, pendant, counter lighting)	Elegant and convenient lighting control. Customizable top and bottom LED lights provide instant user feedback. Easily adjust the brightness of each LED. Custom screw-less faceplate. Works with decorative Decora® style screw-on faceplates. Curved button follows natural curves and motion of fingertips. Button is detachable from the lighting load, so lights can be controlled from anywhere in the house. Dimmer can be used as a two-button keypad that controls anything in the house. Intelligent, reliable, wireless connectivity using the 802.15.4 mesh networking standard.
6-Button in-wall Keypad	Control anything in the house, from a group of lights to music volume to a customized series of security events. Control multiple events with the push of a single button. Intelligent wireless connectivity.
Audio	Music delivered to in-ceiling speakers. Control the source on in-wall touchscreen, iPod Touch, or remote control.
Family Room	
Equipment	Capabilities
Fireplace Control	On/Off fireplace control means that the family room fireplace can be included in the scenes such as <i>Good Night</i> or <i>Party</i> . The fireplace can be automatically turned ON/Off as part of pre-programmed events.
iPod Touch Control	An Apple iPod application developed by Control UI for the iPhone or iPod Touch for the Control4 system. Control the home from the iPod Touch. The hand-held interface is the same as on the Control4 family of touch panels and on-screen interfaces, making navigation simple and familiar. Users have complete access to any aspect of the system including security, lighting, temperature control, multi-room music, home theatre control and more.
Smart Light Switches (chandelier)	Elegant and convenient lighting control. Customizable top and bottom LED lights provide instant user feedback. Easily adjust the brightness of each LED. Custom screw-less faceplate. Works with decorative Decora® style screw-on faceplates. Curved button follows natural curves and motion of fingertips. Button is detachable from the lighting load, so lights can be controlled from anywhere in the house. Dimmer can be used as a two-button keypad that controls anything in the house. Intelligent, reliable, wireless connectivity using the 802.15.4 mesh networking standard.
Audio	Music delivered to in-ceiling speakers. Control the source on in-wall touchscreen, iPod Touch, or remote control.
Foyer	
Equipment	Capabilities
Smart Light Switches (pot lights)	Elegant and convenient lighting control. Customizable top and bottom LED lights provide instant user feedback. Easily adjust the brightness of each LED. Custom screw-less faceplate. Works with decorative Decora® style screw-on faceplates. Curved button follows

	natural curves and motion of fingertips. Button is detachable from the lighting load, so lights can be controlled from anywhere in the house. Dimmer can be used as a two-button keypad that controls anything in the house. Intelligent, reliable, wireless connectivity using the 802.15.4 mesh networking standard.
Audio	Music delivered to in-ceiling speakers. Control the source on in-wall touchscreen, iPod Touch, or remote control.
Office	
Equipment	Capabilities
Smart Light Switches (pot lights)	Elegant and convenient lighting control. Customizable top and bottom LED lights provide instant user feedback. Easily adjust the brightness of each LED. Custom screw-less faceplate. Works with decorative Decora® style screw-on faceplates. Curved button follows natural curves and motion of fingertips. Button is detachable from the lighting load, so lights can be controlled from anywhere in the house. Dimmer can be used as a two-button keypad that controls anything in the house. Intelligent, reliable, wireless connectivity using the 802.15.4 mesh networking standard.
Audio	Music delivered to in-ceiling speakers. Control the source on in-wall touchscreen, iPod Touch, or remote control.
Living Room	
Equipment	Capabilities
Smart Light Switches (pot lights)	Elegant and convenient lighting control. Customizable top and bottom LED lights provide instant user feedback. Easily adjust the brightness of each LED. Custom screw-less faceplate. Works with decorative Decora® style screw-on faceplates. Curved button follows natural curves and motion of fingertips. Button is detachable from the lighting load, so lights can be controlled from anywhere in the house. Dimmer can be used as a two-button keypad that controls anything in the house. Intelligent, reliable, wireless connectivity using the 802.15.4 mesh networking standard.
Dining Room	
Equipment	Capabilities
Smart Light Switches (pot lights)	Elegant and convenient lighting control. Customizable top and bottom LED lights provide instant user feedback. Easily adjust the brightness of each LED. Custom screw-less faceplate. Works with decorative Decora® style screw-on faceplates. Curved button follows natural curves and motion of fingertips. Button is detachable from the lighting load, so lights can be controlled from anywhere in the house. Dimmer can be used as a two-button keypad that controls anything in the house. Intelligent, reliable, wireless connectivity using the 802.15.4 mesh networking standard.
Audio	Music delivered to in-ceiling speakers. Control the source on in-wall touchscreen, iPod Touch, or remote control.
Exterior	
Equipment	Capabilities
Smart Light Switches (soffit pot lights, Coach lights)	Elegant and convenient lighting control. Customizable top and bottom LED lights provide instant user feedback. Easily adjust the brightness of each LED. Custom screw-less faceplate. Works with decorative Decora® style screw-on faceplates. Curved button follows natural curves and motion of fingertips. Button is detachable from the lighting load, so lights can be controlled from anywhere in the house. Dimmer can be used as a two-button keypad that controls anything in the house. Intelligent, reliable, wireless connectivity using the 802.15.4 mesh networking standard.

Scenes

Scenes	
Name	Functionality
Watch TV (Family Room)	Reduce lighting. Turn on Fireplace. Turn off ambient music. Power up TV, switch to Guide. Adjust temperature for comfort level.
Party	Play music in all four rooms. Set volume level. Sports on TV. Adjust lighting. Turn on Kitchen fireplace. Adjust temperature for comfort level.
Away	Arm security system. Turn off all interior lights. Turn off music/TV. Turn on exterior lighting after sunset. Start simulated occupancy lighting after midnight if nobody is home. Turn Foyer lights off after 2 minutes. Adjust temperature for away level.
Good Night	Turn fireplace off. Arm security system in Night mode (occupied). Turn off all interior lights. Turn on exterior lighting after sunset. Turn Foyer lights off after 2 minutes. Turn off music/TV. Adjust temperature for sleeping level.
Fire/Intrusion Alert	Send message to touchscreens and homeowner mobile phones in the event of an intrusion alarm. Turn on all interior lights. Flash exterior lights. Turn off furnace in vent of fire.

Green

This home contains state-of-the art smart home energy conservation capabilities. The homeowner will contribute to a green living lifestyle, and realize financial savings on the monthly energy bills. **This home will eliminate over 850 pounds of CO2 emissions each year.** That's like not driving a car for a month. Below are some of the ways the home will reduce energy consumption:



- Lights will come on when needed, and go off when not needed, reducing lighting bills.
- By operating incandescent lighting for a greater percentage of time at less than 100% brightness, not only is energy reduced, but the life of the bulbs are extended. Further saving can be realized by purchasing fewer bulbs. A typical 75-watt halogen pot light can cost \$8 or more, and the home can easily have 60 or more such bulbs.
- Lights can be programmed to turn on and off at the appropriate time of day and year in order to reduce waste. For instance, the exterior lights turn on precisely at dusk, and turn off exactly at dawn every day, by following the dawn/dusk times each day according to the latitude and longitude of the home.
- Motion sensors let the Control4 system know when to turn lights off in unoccupied rooms
- Control4 can dim lights to reduce energy consumption with the ability to manage energy-saving dimming that is imperceptible to the human eye
- The heating/cooling will be adjusted based on whether or not anyone is home. If nobody is home, less energy will be consumed. The temperature is automatically adjusted back to comfort levels when someone returns home.
- Power-save mode on the audio amplifier reduces energy consumption when not in use.
- Ontario will soon be implementing Time of Use (ToU) electrical billing. The home's smart electrical meter will charge more for electricity usage during peak daytime hours then in off-peak evening hours. This smart home can automatically adjust consumption downwards during peak hours to further reduce energy costs.

DIMMING THE LIGHT THIS MUCH:	10%	25%	50%	75%
SAVES THIS MUCH ENERGY:	10%	20%	40%	60%
& EXTENDS YOUR BULB LIFE BY:	2x LONGER	4x LONGER	20x LONGER	More than 20x LONGER