

### WHY HTG?



HTG is the name you can trust for a proper design, installation, and programming of your Hi-Tech home. We are a family owned and operated telecommunications infrastructure design firm servicing commercial and residential clients in NY, NJ and CT.

As you work with us to best determine your lifestyle and homes needs, we believe you will find our 35 years of practical on the job design and installation experience in commercial electrical, communications, and building control & automation systems as one of the key characteristics that differentiates us.

Our employees maintain continuing education and are certified by the manufacturers of all the systems we design and install. Some hold highly acclaimed International BICSI design and project management credentials. All work within and around your home gets the best care, as only licensed communications technicians, electricians, and security professionals are working for you. HTG is a your single point of contact and knowledge resource from concept design to completion. We can produce drawings and documents that are necessary for an architect or builder. We would like you to know that having accurate documentation is critical for the value and long term functionality of your Hi-Tech home. At the completion of the installation, your system is warranted ; so you may rest assured that your investment is protected. At HTG, we want you to be happy with a home asset that is easy to use and reliable for many years to come.

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\*Installations available in areas of NY, NJ, CT

INTEGRATED HOME LUXURY, EFFICIENCY, SAFETY, AND CONVENIENCE TO ENHANCE TODAY'S "GREEN AND ECO FRIENDLY" BUILDING AND LIVING LIFESTYLES.

### HI-TECH HOME AUTOMATION



HARPER TECHNOLOGY GROUP

### BEST BANG FOR YOUR "GREEN" BUCK

#### What other home improvement can add to your home's value, future marketability, energy efficiency, and your family's comfort, convenience, and security?

If you are building a new home, renovating, or perhaps retrofitting to accommodate independent living as you age, you are most likely considering many options aimed to optimize your investment and personal comfort. HTG would like you to also consider home automation. It has been around dating pre-1985 and has proven to be reliable for the long term, since many of the pre-1985 systems are still in use today. It is flexible, offering you the ability to choose how much technology and the implementation process. You can design for your homes potential today, install as a whole, modularly over time, and as your needs change. This brochure is our way of sharing the stories a Hi-Tech home tells, and the added luxury, efficiency, and peace of mind it brings to a modern family's lifestyle.

Welcome to the Next Generation of homes  
Home automation is all about personalization and integration of a homes systems into an easy to use interface. E.g. touch screen, easy as your bank ATM!

#### Thermostats and Control:

- › A multi purpose motion sensor can control, monitor, and automate lighting , heating, cooling , audio, security alarm, and surveillance systems.
- › Steve loves safe guarding his lake house. In cold weather he checks the temperature, shuts off and drains the water lines, eliminating the risk of a break due to freezing. Prior to arrival, he can turn on any system from any phone or internet enabled device.
- › Would you love to know that your heating & AC (HVAC) fans are programmed to turn off upon a fire anywhere in the home, to prevent smoke and flame spread? Simultaneously, exterior lights flash, saving precious moments in locating you when help arrives?
- › Green & ECO minded homeowners like to conserve the energy used by water heaters, pool pumps, low voltage phone and game transformers. When not needed., your Hi-Tech home will cycle on/off or shut down these phantom loads at night, or when away.

- › Smart thermostats are intuitive, calculate average temperature in multiple rooms, are simple to use, and are Energy Star USDOE rated. They provide bar graphs of your homes recent energy use. Aesthetically, the LED screen is adjustable to 100 colors to match any décor .
- › Smart thermostats work with 95% of the HVAC systems and thermostats installed in existing homes today!
- › Older or window mounted HVAC units are not excluded from the benefits of an automation system. Temperature sensors and energy saving modules allow integration of these traditional units to work seamlessly with a modern automation controller. Are you aware that an automation controller has no moving parts? So, failures due to heat are non-existent.

### SWITCH LIGHTING INTO AN INVESTMENT

- › Utility rates have increased 21.7% over the last 3 years! 15+% of a homes energy is affected by lighting usage.
- › Lighting control is the flexible way to repurpose the lighting fixtures in your home into becoming more functional, efficient, and convenient for your lifestyle.
- › Lighting control can be installed incrementally or as a whole utilizing the existing wiring in your walls.
- › When properly designed, you can maximize the energy you pay for. Every time a bulb is illuminated you will conserve at the rate of 10% per bulb, per fixture!
- › Randomly initiated lighting scenes can make it appear as if someone is home, when actually they are not. Do you feel this is a great "passive" type of home security?
- › Lighting control provides homeowners the ability to turn individual room lighting, or entire areas of the home, off or on, from multiple locations throughout.
- › Lighting control can be automated by the actions of disarming or arming of a security system, programmed event, motion sensor, astronomical clock, internet sent command, telephone, and/or hand held remote control.
- › Homeowners love the one touch functionality of a scene switch. Scene switches provide options to set the lighting to predetermined levels in a single room or around a home for different lifestyle events like party, romance, good night, housecleaning, movie, etc.
- › Sal and Kim love not "tripping" in the dark, or stepping on the sleeping family dog Axo, when leaving the bedroom for a midnight snack now that the necessary pathway lights turn on automatically.

- › Homeowners love the elegance, safety, and “Green & ECO” effect when having exterior/landscape lights set at a 49% brightness. When compared to traditional control methods, (on or off), homeowners achieve a *conservation rate of 51% per bulb for every minute lights are turned on!* Upon arrival, lights brighten to 90% to safely illuminate pathways, driveways, hallways and rooms.



**Irrigation, Pro-Action, and sunlight control:**

- › After witnessing the sprinklers turn on again as it rained. Bob decided he no longer wants to watch his money run into the sewer. Bob added rain sensors to his automation system so that sprinklers only water when necessary. Since Bob has the luxury of convenience & control, he can monitor and control sprinklers from any where @ any time!
- › Allison loves the peace of mind that is assured with water detection sensors. These proactive sensors were placed in her 2nd floor laundry room, above her newly renovated kitchen, to alert the beginning of a flood situation before any major damage can occur.
- › Grandma loves her automated shades. They stop the sunlight from waking her up, and isolate the suns heat and rays from her home during peak hours of the day. Since grandma is on a fixed income, automatic shading maximizes efficiency of her AC system and protects assets like furniture and art from fading.

**Surveillance, Safety, And Security:**

- › Mom loves accessing the homes surveillance system to keep a watchful eye on what is happening at home while she is at work, in her home office, shopping, or when out in nature by way of her cell phone/PDA.
- › Victor just bought a home with an existing security system. An ideal situation for upgrading to a Hi-Tech home. All the existing wires and magnetic contacts were *re-used*. While the “brain” was easily replaced with a UL approved security and automation controller. Did Victor integrate safety and efficiency correctly?
- › Hi-Tech homes have a variety of ways to alert you about events in your home. You can receive an email, SMS message, screen pop up, or phone call. Providing you a rest assured feeling when a child gets home from school, when an elderly relative gets out of bed, or has opened the refrigerator to take their daily medication.

- › Working homeowners love the flexibility of having work done when they are not home, but yet be able to monitor the process, via surveillance system, while also knowing other parts of the house are alarmed.
- › A popular feature of a HTG home provides occupants with a small carry around pendant that may be used to trigger alarms and/or automation events due to a panic, emergency, or health situation.
- › Terri loves having the ability to escape momentarily from her office, by way of the internet, to check her beach house view and how her pet cat Ginger is.

**Legacy Convenience Re-invented**

- › Often overlooked, today’s Décor friendly intercoms are proven to be a value addition to any size home.
- › A centralized intercom system provides the ability to monitor, listen and talk to and from different areas of your property. E.g. the baby’s room, basement play room ,workshop, Pool cabana, front door , etc.
- › Systems permit *multiple private* conversations or room monitoring sessions to occur simultaneously.

**Whole House Audio**

- › Whole house audio allows selective listening from a choice of multiple input sources throughout the house. [e.g. i-pod, pc, TV or home theatre, AM/FM radio, satellite]. If you are a sports fans you may never miss a play again when you need to leave the room; because a quick turn of the volume source knob puts the play by play sound where you are! At the same time, moms spa music can play in the master bathroom, with classics rocking in the craft room for kids and guests.
- › For added convenience, each volume source control has wireless control, and touch screen ability. Additionally, VSC’s can transfer signals from your existing equipment remote control back to where your source equipment is, allowing you to change channels and tracks *wherever you may roam!*
- › An automation controller adds functionality to the convenience of whole house audio by providing services like disabling outside speakers at night, muting the sound of music or a central vacuum system when a phone or doorbell rings. Additionally you can broadcast announcements through all the homes speakers by picking up any in house telephone.

**If interested, complete and return this feedback form for your chance to win a Safe Entry lighting control package. Winners will never have to enter a dark home again.**

Did you enjoy this informational brochure?  
 Yes     No     Somewhat

Would you now consider home automation if you were renovating or building your home?  
 Yes     No     Some Smarts

Are you or do you know someone who is concerned or involved with the daily care of an elderly person ?  
 Yes     No

Would you be interested in learning about the specific technology available that can assist you in this care and promote a more graceful in home aging process?  
 Yes     No

Would you like to be contacted by HTG in the future about the latest “Parts and Smarts” that are available for your Hi-Tech home or care giver system?  
 Yes     No

If you would like to see the efforts of Brad Pitt, Ellen DeGeneres, and the American Idol teams, and how they are using the same smart thermostats you can have in your home, browse to:  
<http://www.makeitrightnola.org>

**If you like our stories, we have more to share:**  
 75% of consumers are aware of home automation.  
 83% are interested in installing a system of some type.  
 86% seek help of a certified and qualified installer.  
 90% of interested consumers have trouble finding assistance planning or retrofitting this integrated technology properly.

\_\_\_\_\_

Name

\_\_\_\_\_

Address (optional)

\_\_\_\_\_

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Preferred method and when we may contact you

**HTG’s Awareness Tweets:**



- › Fully Integrated Hi-Tech homes have the potential to lower energy usage by as much as 50%.
- › Lighting creates heat, as does sunlight. Have you ever thought if they affect your HVAC system and household energy consumption?
- › Energy used in an average home is responsible for more than twice the greenhouse gas emissions of the average car.
- › The U.S. Department of Energy’s recommended best practice is to set back thermostats when a home is unoccupied more than four hours.
- › **Just a two degree increase or decrease in your temperature setting will lower a utility bill 4%. A four degree temperature differentiation saves 8%.**
- › A 8% lower utility bill per home prevents 1000 pounds of carbon dioxide from being emitted into the atmosphere annually.
- › Heating and air conditioning can account for as much as 50+% of a homes energy usage.
- › **Many homes have hot water heater set above 120 degrees Fahrenheit? This is high. Do you?**
- › Dimming lights 25% will conserve 20% energy, dimming lights 50% will conserve 40% energy.
- › Studies prove that a 10% dimming of a rooms light level is not noticeable to the average eye. A 90% preset light level consumes 10% less energy, *doubles* a quality bulbs life, reduces emissions by 408 lbs, and preserves coal by 174 lbs annually.
- › Not all bulbs are the same! High quality bulbs are as much as 34% more efficient than a low quality bulb.
- › **A computer put in sleep mode consumes 30% less energy than when left running. Do you practice conserving with your computer while you sleep?**
- › A one horsepower pump or motor in use 24 hours a day consumes an average of \$39 worth of electrical energy per month.
- › Have you ever noticed that some household fans use *fractional* horsepower motors? The use of these fans will redistribute air evenly within your home, and can increase a thermostats accuracy? Are you aware that the use of simple household fans may lessen the usage of a high energy items like a AC motor?

