



Home Technology Planning Guide

Pre-Construction Design Consultation Idea Guide



This eBook is designed to help you begin to imagine the possibilities your new home can hold, and to illustrate what planning steps are required today to accomplish your dreams tomorrow.

We'll discuss the following topics:

- Network Installation & Maintenance
- TV & Home Entertainment
- Distributed Audio
- Security Alarms & Surveillance
- Central Vacuum System
- Smart Home Controls

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Network Installation & Maintenance

Let's Get Connected

The average American home has over 50 wireless devices in operation, and that number is expected to grow well into the triple digits within the next couple of decades. That being said, having a robust network is a vital part of ensuring that your new home is capable of supporting both your current and future technology needs. Here are a couple things to consider:

- **What does your current network usage look like? How many users are there?**
- **How do you use your current devices? How many do you have or want?**
- **Where do you want or need access? Indoors, in the garage, in the front or backyard?**

What Is a Wireless Access Point (WAP) And Why Does Placement Matter?

It's what enables all compatible devices to connect and operate on the local area network (LAN). A WAP is a network hardware device that allows other Wi-Fi devices to connect to a wired network. Placement of the WAP's is crucial in making sure that optimum Wi-Fi coverage is achieved throughout your home. Your MIProTechs team will work with you & your floorplan to design a home with the best Wi-Fi coverage for your family.



Considerations

How many people might be online at any given time? How many wireless devices are on your network today and tomorrow.

How do you watch TV?

Cable: _____

Streaming: _____

How many devices? _____

How much gaming does your family do?

Do you work/school from home?

How do you entertain outdoors?

Other considerations



How and Where Do You Watch TV?

It's a given that TV is a basic necessity these days. Now here's what you need to think about: **how** and **where** will you watch in your new home? This is a major area of pre-construction planning in which pre-wiring really comes into play, as the more wiring you have us run through the walls, the more options that will be available to you immediately and in the future should you decide to switch things up. Here are a couple things to consider:

- **Do you use cable, streaming or both?**
- **Will you mount your TVs on a wall, place them on furniture, or both?**
- **How many rooms will have TVs? Where are they located?**

TV & Home Entertainment

Do You Want Wires Running Down Your Wall?

Don't Forget About Preps for Wall-Mounting TVs, or Cable & Data Outlets for Placing TVs on Furniture

Your TV mounting location boils down to **how** and **where** you plan to experience your home entertainment. For example, a wall-mounted TV in a living room is prepped at 54" from the floor because you'll likely be seated when watching, while 72" off the floor in bedrooms is ideal from a lying down position. But in either case, you don't want stray wires running down your wall. If you're adding a TV to a spare bedroom, a cable and data outlet should be enough. As always, creating as many options as possible for yourself is important at this phase, and your MIProTechs expert will help you explore them all.

Suggested Locations for TV



Considerations

Where do you want TVs located?
How do you use them?

Gathering Room

Kitchen

Home Office

Bedrooms

- Master

- Others

Other Locations



Whole- House Distributed Audio

How Do You Want to Experience Music in Your New Home?

Perhaps more than any other amenity, the way we experience sound and music in our homes is the most unique. Think about the following:

- Are you a casual listener or audiophile?
- Do you want a whole-home system, a single room, or a sophisticated multi-zone system with wireless control?
- Do you want audio in the garage? Outdoors?

Even if distributed audio isn't a priority for you right now, it could be in the future. The pre-construction phase is the time to run the necessary wiring in order to prepare for whenever that time comes. Your MIProTechs expert will walk you through all the possibilities and help you make the best decisions possible.

All In-Ceiling Speakers Are Not Created Equal?

There's more that goes into designing a distributed audio system than you might think, and the speakers you may find at the store are not all created equal. Depending on their intended purpose, speakers have various levels of sound quality. We work with you to establish what type of speaker will be best for your space. For surround sound applications, Dual Tweeter (left and right channel from a single speaker) or Stereo Pairs (left and right channels from a properly placed pair of speakers) can be used in-wall and/or in-ceiling, along with a soundbar, a subwoofer or any combination.

Suggested Locations for Audio



Considerations

Sound Quality & Distribution

How many sound zones do you require?

Your Important Sound Locations

- Gathering Space
- Kitchen
- Foyer/Hallways
- Basement
- Outdoors/Deck/Landscape
- Master Bedroom
- Master Bathroom
- Other Bedrooms
- Garage

Other:



Safe, Sound, & Informed 24/7

Home surveillance systems have become one of the most sought after systems in new homes today; and offer various types of sophistication from video doorbells that let you view, hear and talk to whoever is in view, to full video coverage around your home with 24/7 visual access from anywhere on your smartphone or tablet. As with all the home technology options discussed in this guide, prewiring for a surveillance system is crucial. Preparing your home now can make the installation of cameras possible and seamless.



Surveillance

Camera Locations & Recording Options without Monthly Fees

MIProTechs can deliver a property surveillance system to meet your requirements:

- **Network Camera Systems**
- **Wi-Fi Video Doorbells**
- **On-Site Storage Systems**
- **Cloud-Based Storage & Access**
- **Multi-Device Playback Options**

Suggested Locations for Surveillance



Considerations

Location, Location, Location
Do you need a full property surveillance system, or just a way to know who is at your door?

Front Door/Entrances:

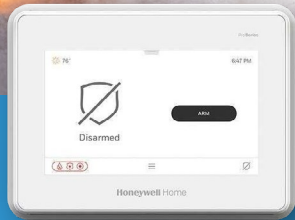
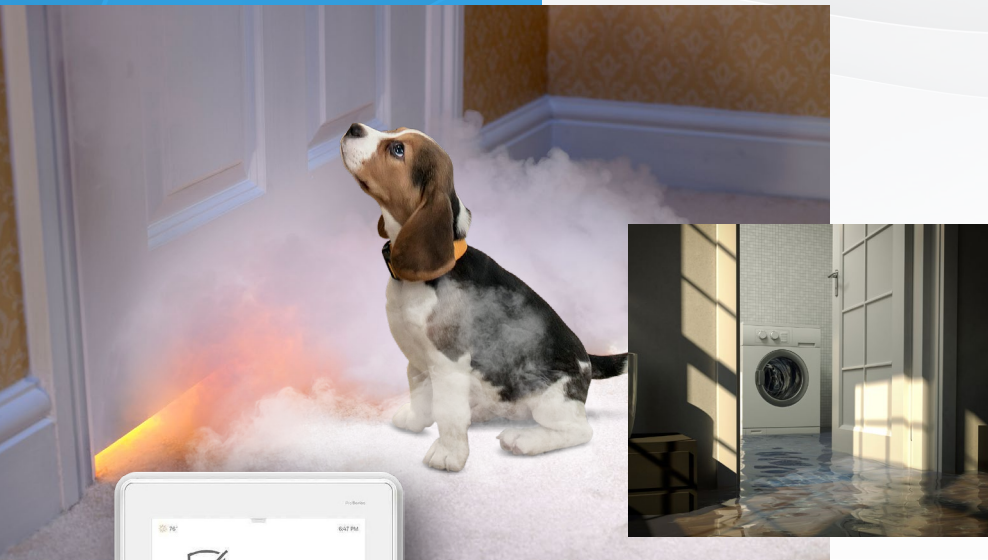
Back Door/Deck:

Walk Out Access:

Blind Spots:

Driveway/Garage:

Interior Cameras:



Home Protection

Protect Your Home & Family

Home protection devices come in various forms and they all play equally important roles in keeping your family and property safe. While many of these devices are wireless, they still warrant planning during the pre-construction phase in terms of placement and necessity.

More and more home protection devices are capable of connecting to mobile devices like smartphones and tablets. This enables them to alert you and/or emergency response personnel of the hazards they're designed to detect the moment they happen - even when you're not home.

Home Protection & Life Safety Considerations

When these life-saving devices are connected to your security panel, Fire, Police, and EMS are automatically called in the event of an emergency.

Smoke and Carbon Monoxide Detectors

- The National Fire Protection Association (NFPA) recommends one smoke detector on each floor and in every sleeping area. For new constructions, they must be AC powered and interconnected.
- Some smoke detectors are also temperature-sensitive, meaning that they can detect sudden extreme rises in heat and thus actual fire.
- The Center for Disease Control (CDC) reports that 500 deaths and 1500 emergency room visits are attributed to carbon monoxide poisoning.
- Many smoke detectors also include carbon monoxide detection capability.

Water and Sump Pump Sensors

- These devices detect water when placed in locations where it shouldn't be present like around washing machines, dishwashers, sump pumps, and hot water tanks.
- The average cost of a home water damage claim is nearly \$7000.

Security Systems

- On average, a burglary occurs every 26 seconds.
- 60% of burglars casing a home are less likely to break-in if they determine that a security system is installed.

Suggested Locations for Home Protection



Considerations

Fire

Carbon Monoxide

Water/Sump

Security

Family Care



Central Vacuum System

The Hard Truth About Hardwood

One of the biggest misconceptions amongst homeowners is that having almost entirely hardwood floors in their homes means less vacuuming. In reality, the opposite may be true. There's really nothing better than a central vac system to keep hardwood floors clean (especially dark wood that tends to show a lot more dirt)! Regular sweeping doesn't clean up everything, making it a waste of time and effort. A central vac system, on the other hand, features specialized tools designed for hardwood floors that capture everything from dust to dander and then exhaust it outside for complete removal from your home.

Improved Indoor Air Quality

Did you know that indoor air can be up to 5 TIMES more polluted than the air outside? This fact is not helped by traditional vacuum cleaners, which often recirculate more dust, dander, allergens and harmful particles back into the air than they actually pick up. By completely removing these pollutants from your home via exterior exhaust, a central vac system not only keeps your home visibly cleaner, but also the air you breathe.



Retractable Hose Central Vacuum System

Whether they're clunky and old or sleek and modern, no one likes to lug a traditional vacuum cleaner around the house. Not only that but the cord is often too short to really make any efficient progress without frequently changing outlets, and then the vacuum just takes up room in a closet until you need it again. With Hide-A-Hose, you're able to access your central vac system directly from conveniently placed wall ports then retract it back again when you're done.

Central Vacuum System

Choose Your Ideal Central Vac Outlet Locations

You can choose where you'd like your central vac outlets installed for the utmost convenience. Of course your kitchen and main living areas are prime locations, but don't forget about other areas where easy cleaning access is convenient, such as the garage or basement. Most homes have at least three central vacuum inlet valves per level. The adaptable, lightweight hose and inlet system eliminates the need to drag a bulky canister vacuum up the stairs, out to the car, or in tight spaces.

Suggested Home Control Options & Locations



Considerations

Home control at your fingertips...

- Garage Doors
- Door Locks
- Thermostat(s)
- Audio
- Video/TV's
- Window Shades
- Video Doorbells

Other

Understanding the Building Process

Your Roadmap to
a Home that Fits
Your Life!

Pre-Construction Planning & Inspiration - You Are Here!

Congratulations on the purchase of your new home! Not only is this a very exciting time, but it's also the most crucial phase in the building process. Why? Because the decisions you make now will directly impact the future of your home and budget. This is the time to really put your imagination to work in visualizing the kind of space you want to live in. A common phrase that we hear from our customers is, "I wish I would have thought of that before!" Don't worry, you're in good hands. During your meeting with the team at **MIProTechs**, we'll help you navigate and discover all of the possibilities for your home.

Construction & Project Implementation

When construction gets underway, the **MIProTechs** Team will coordinate directly with your builder to implement the plans you made during the pre-construction phase. We'll make sure all pre-wiring and infrastructure is in place, and we will keep you informed as each step is completed via our project management system. Once we've done that, a simple approval from you to confirm the installation matches your plans, is all you need to do!

Finish Installation - Bringing Ideas to Life

As construction of your new home nears completion, we'll meet with you again approximately 2 weeks prior to closing. This is when the fun really begins, as you'll get to explore all the pieces that will truly bring your home to life. Prior to this meeting, we'll send you another planning guide similar to this one, with more detailed information about final products such as televisions, distributed audio systems, surveillance monitoring packages, and much more. To help you make the best decisions possible, you'll be able to experience all of these things firsthand in our interactive showroom!

Post Closing - MIProCare Support & Service

At **MIProTechs**, we will always be here for you. If you need tech support, device monitoring, installation, education on new products, or anything else - we've got you covered.

Let Us Make Your Home Fit Your Life

Tell us how you imagine living in your home and we'll make sure your home delivers! You'll be wondering why you waited so long... Imagine living in a home where all your technology seamlessly flows with your daily routine, giving you more control over your space so it just works with your life. We help you integrate your home with your lifestyle – let's get started.

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