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Congratulations! You have purchased a FutureSmart Pro/SuperPro Series Home Network for your home or office. This Home Network will permit you to control which signals go to which rooms. It will allow you to network (connect together) your video products, computers, telephones; and many other products you now own, or may purchase in the coming months and years. Contained in this User’s Guide is information about your Home Network, its benefits and the ways in which you can control, adjust or add to your Home Network.

Components of a Home Network System
Before we get started let’s get acquainted with the components of your Home Network System. These are:

The FutureSmart Pro series system is made up of four key parts that make the network integrate seamlessly:

1. Pro panels (the brain of the system)
2. The Multimedia cable and wire
3. The Multimedia outlets
4. System Options (cameras, computers, etc.)
Pro/SuperPro panel
The Pro/SuperPro panel is the brain of the FutureSmart home network system. All information such as TV, phones, computer, Internet, security, etc. coming into the home will go through this panel and are distributed to individual rooms. This is also where all of the information generated inside the home will be either redistributed or sent back out to the world.

These panels were designed for you, the homeowner to make simple changes to your system, such as activating phone or/and TV outlets in your home, or even disconnecting or moving the signals around in the home. The design also allows your installer to make quick and easy upgrades to your system. The features that make up the system will vary from home to home depending on the services used. A standard Pro/SuperPro includes the following features and functions.

[1] The zone location is where all of your low voltage outlets are connected to on the backside of the panel. From the front side of the panel there will be different types of patch cords coming from the bottom of panel up to the zones that need to have telephone, TV, and computer signals.

[2] The coax hub will send the video signals to 8, 12, or to 16 (depending on the model type) multi-media outlets and/or TV outlets throughout the home such as antenna, cable TV, Satellite, DVD, VCR player’s signals and any other types of video signals.

[3] The telephone hub is a distribution point for up to 4 incoming phone lines that will send phone signals to 11 rooms that require phone service.

[4] The service input hub is where the outside services connect to the panel. Services such as phone lines, cable TV, antenna, and satellite signals will be connected to the backside of the hub and then patched to the corresponding distribution hubs.

[5] Expansion bay may have blank covers or you may have Network Accessories installed. This is
where optional hubs may be installed for computer networking, video distribution, security, satellite TV, etc.

2. Multimedia cables and Wire

The extremely high volume of information in today’s and tomorrow’s technology requires that the cables and wires inside your walls that are connected to the Pro panel be of high quality. There will be different types and combinations of cables used with the FutureSmart Pro panel. The black and pink cables are known as “**coaxial RG6 quad shield cable**”. This kind of cable is used to send TV video signal to the outlets in the rooms and to send signals from the room to the panel. The blue and yellow cables are “**Category 5e or 6 Category twisted pair telephone cables**”. These cables are generally used for phone, fax outlets and to connecting computers together.

Together with these single cables you may find a **Multimedia cable** that is 2-RG6 cables and 2-Category 5e or 6 cables that are bundled or jacketed together. Or the same cable with the addition of an orange and gray cable, which are fiber optics that in the future, will be used to send all (video, computer, and phone) types of signal at a very high speed and rate. All of these cables are “Home Run” which means that from the Pro panel each cables run out to one location and one location only.

3. Multimedia Outlets

The Multi Media outlet or single phone and TV outlets will be found in each room that a “Home run “ cable or wire is run to. They are installed at convenient locations through out the home to access the information coming into the Pro/SuperPro panel. The **Multimedia outlet** you can access different kinds of information at one outlet such as phone, TV, and Internet service.

Optional outlets you may have, contain a different version of the Multimedia outlet. These versions may contain different qualities of cables it may be as simply as a single port plates with just a phone or TV connector or you could have and combination of the two types.

[1] Two RJ45 telecom ports (accept standard telephone jacks inserts) Used for single or multiple
line telephones or dedicated fax lines, dedicated modem lines, and data.  
**To access multiple lines See LBO in System Option.**

Used for hooking computer together for high speed communication, phone lines, and TV video signals.

[3] Two RG6 coax TV jacks (“F” connectors)  
Used for video (cable TV, antenna, satellite, cable modem, and internal video).

4. System Options  
System Option are options that are added to the system for enhanced capabilities. System options include whole house audio, satellite distribution, home security system, and more. Your Pro series panel may contain one or more options depending on the services you will be utilizing in your home.

Satellite Distribution (HBDS-4)  
This Module will allow you to expand your standard Digital Satellite system from two receivers to up to four receivers. So that you can watch four different channels at four locations at the same time.

Note: This hub will only work with a dual LnB satellite system.

[1] OUTPUTS-  
**Warning Note:** ONLY hook these lines up to a satellite receiver, voltage on the line can cause damage to TV’s or VCR’s.

[2] INPUTS-These ports connect the lines from a Satellite Dish and split the voltage to four outputs.

Data and Computer Networks (HBEN-10/100)  
One of the many benefits of a Home Network is the ability to share information between all the computers in the home or office. A Local Area Network (LAN) or computer network requires 4 components. A Network Interface Card (NIC) installed at each computer, an Ethernet, wiring and networking software. Before purchasing the components for your home network, you should decide on the speed at which you would like to operate your LAN. Current options are 10BaseT (10 Mbps) and 100BaseT (100Mbps).

1. Install the Network Interface Cards (NIC’s) into
the computers which you want to be connected to your LAN. Be sure to follow the NIC manufacturers installation instructions.

2. Connect the power transformer to the rear of the Ethernet hub.

3. Install the FutureSmart Ethernet hub into the expansion bay of your Pro series panel by removing a blank cover and placing the hub in the open slot.

4. Use a patch cord to connect the NIC in the computer to the data jack in your receptacle.

5. Connect the data cable from the desired room into one of the 4 inputs on the front of the Ethernet hub. Be sure to label the port so you know where the cable originated from.

6. The Ethernet hub can be linked to another Ethernet hub by patching from the I port to one of the new Ethernet hub X ports.

7. Configure your LAN with the Network software you have chosen. Be sure to follow the instructions provided by the software manufacturer.

Security System (HBSC)
FutureSmart offers a security system that mounts directly into the expansion area of your Home Network. The security system supports up to 32 zones and can be partitioned to function as 4 separate systems. FutureSmart offers accessories to customize your security system, such as smoke detectors, motion detectors, glass break detectors, window & door contacts, sirens, etc.

The sleek security keypad is easy to understand and use. The large LCD display is easy to read. Additionally, with the use of wireless motion detectors and contacts, expansion of the security system is simple.

Whole House House (HBAD-8)
With the addition of a FutureSmart Audio hub, you can enjoy music in any area of your home. The Audio hub connects to your existing stereo receiver that has a CD player, tape deck, DVD player, etc. and distributes the sound to 8 stereo locations. This hub contains the following:
[1] SPEAKER INPUT - The hub receives right & left speaker signals from a stereo receiver.

[2] SPEAKER OUTPUTS - The hub distributes audio signal through speaker cable to volume controls located in eight separate room/areas of your home. Each volume control is then connected to the individual speakers mounted in the designated room.

Line Breakout Box (LBO-1)
Provides an easy way to access individual phone lines (up to four) from a Multimedia outlet telecom phone jack or a standard telephone outlet. The LBO can be added anytime, and can be attached directly to the outlet plate or it can be placed at a remote location behind the equipment.
Multi-room video

Triple Channel Modulator (HBMD)
The Triple channel modulator is used for creating in-home television channels that can be viewed from any TV in the house. Signals from three different audio/video source such as TVs, VCRs, DVD, DBS satellite TV, and security cameras can be given on open channel in your TV system that is not being used and then you can tune that channel in on any of the TV’s and see the video source.

Pro/SuperPro Series Systems Basic Functions and Descriptions

Your System
Because you FutureSmart dealer or installer has installed this system to fit your needs you may never need to make changes to your Pro series panel. Should you ever need to change phone, TV or computer outlets connections or experience any problems with your system, this section will help you navigate the panel.

Zone Location
May have a different layout but regardless they all function the same, as a connection point for all of your phones, TVs and computer outlets. The important thing is to look at the labels to understand which outlet location you are working with.

Coax hub

Patching video signals
The HBC-408, 412, 416 all have the same number of video inputs. The one “INPUT” on the left that stands alone is for antenna or cable TV and the four that are grouped together are for modulated signals for example camera’s, DVD player’s, VCR’s, etc. Whatever is connected to any of the “Inputs” will be distributed to all of the “Outputs” which will be either 8, 12, or 16. (see in Fig #2)
Patching to TV Zone Locations
Once your video signal has been connected into the coax hub you must now connect the yellow coax patch cords from the “Outputs” (see Fig. #2) up to the zone location. These patch cords will activate the TV outlets in your rooms. Also all of the Coax hubs do require power because there is a TV amplifier built into the hub. So if you experience a sudden problem with your TV signal check that power is reaching the coax hub. You will find a black transformer with a coax cable connected to it, and to the coax hub. (see fig. #3)

Changing To Cable TV or Antenna
Should you ever need to change the video signal from antenna to cable TV or the reverse, it only requires simple change of the cable connected to the port labeled “Antenna’ or “Cable TV” on the service Input Hub and changing it to the new video signal. You will need to make sure that the new video signal that you are changing to is activated. (see fig. #4)

Warning: Never connect cables coming from a satellite dish into any of the “Inputs” or “Outputs” of the coax module. There is voltage on those cables that can damage the amplifier and/or TV’s that are hooked up to the system.
Telephone hub

Patching Telephone Signals
The HBT-124P telephone hub will distribute up to four individual phone numbers to eleven Multimedia or phone outlets in the home. To make this hub work, you must patch the phone numbers from the port labeled “Phone” on the Service Input Hub. This will distribute the incoming phone numbers to the eleven phone ports on the hub and now can be patched up to telephone zone locations with telephone patch cords (blue). (see fig. #5)

Patching to Phone Zone Locations
Once your phone numbers have been connected into the telephone hub you must now connect the blue telephone patch cords from the “Outputs” (see Fig. #5) up to the zone location. These patch cords will activate the phone outlets in your rooms.(see fig. #6)
Testing Phone Service

This can been done in a couple of different ways. We will review the two easiest tests to determine the location of phone services problem has gone down. If you should ever have your phone service go down and you are not sure why, this is an easy way to check whether your Phone Service Provider or whether something wrong with your FutureSmart panel.

You need to take a standard home telephone (preferably one that does not need power) down to the panel and disconnect the phone service link cable from the Service Input Hub (see figure #5). Then plug your home phone into the port that you just unplugged the link cable from (see figure #7).

If your phone and it does not work that usually means that you do not have phone service from your provider and will need to call them to fix the problem. If your phone does work when plugged into this port, this usually means that the problems inside your home. At this point you will need to call your installer that installed your system.