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How DIRECTV Works

By Gary Davis

How DIRECTV Works

It was in the summer of 1994 that DIRECTV launched a service that would revolutionize the way our skies broadcast high-quality multi-channel satellite transmissions back and fourth in geosynchronous orbit with the earth. For the very first time ever, an 18 inch size satellite dish was being used by DIRECTV satellite television viewers throughout rural communities the nation over. DIRECTV transmissions have taken our nation to new heights in terms of telecommunications and satellite tv forever and always. DIRECTV gives the leading quality in digital satellite quality multi-channel television viewing in the country, so power that traditional cable TV viewers are switching over completely.

DIRECTV Technology

DIRECTV technology uses a small ovular satellite dish for receiving satellite transmission signals from any one of its six highly powered photovoltaic satellites in geosynchronous orbit around the earth's equator. Each DIRECTV satellite with multiple transponders that relay DIRECTV signals from either of the two broadcasting stations (Castle Rock, Colorado or Los Angeles, California) that receive programming feed from any number of hundreds of content providers that send pre-recorded high-quality programming content through any a number of medias such as fiber optic cable, digital tape and most importantly, via satellite. Once this programming has been thoroughly digitalized and encrypted it is usually immediately up-linked for broadcasting.

DIRECTV Transmission

Sometimes pre-recorded shows however need to be screened and digitalized for the high DIRECTV standards. These are stored for later usage, but broadcasting a high-quality multi-channel digital signal from the programming station up to a satellite and then back down to the home is a work of pure genius. DIRECTV has been all about genius and creative innovation from its very foundations. DIRECTV sends a digital transmission from any of the six geosynchronously orbiting satellites above the equator down to the home owner's satellite dish and to ensure a perfect reception, state of the art

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technology is used. MPEG-2 is the new form of world standards for digital audio-visual transmissions and is the kind of compressed digital information used by DIRECTV. Upon touching the DIRECTV satellite dish above the home, the special DIRECTV system receives the signal and pipes it down to the family television set.

DIRECTV Reception

The DIRECTV system uses a satellite dish, an IRD receiver (integrated receiver/decoder) and a remote control. The satellite dish that DIRECTV uses is an antenna to receive signals from any one of the six satellites in geosynchronous orbit around the earth's equator. The DIRECTV digital Integrated Receiver/Decoder separates each and every channel accordingly, decompresses and translates that signal so that a television is able to show it. The DIRECTV remote control is used for interactive interface with the IRD to achieve multiple functions including programming guide manipulation.

How DIRECTV works is easily stated in one word: PERFECTLY. With two broadcasting stations inside the continental United States, DIRECTV is certain to always broadcast clear signals out to any of the six satellites in geosynchronous orbit around the earth's equator and the DIRECTV viewer is absolutely certain to always receive the highest quality digital MPEG-2 service available on the market today. DIRECTV is a world leader in satellite TV technology and one of the fastest growing electronics markets ever. MPEG-2 transmissions give DIRECTV an edge over the competition that will launch the world into a new era of satellite telecommunications and digital storage. DIRECTV customers receive both high-quality multi-channel digital satellite broadcasting as well as high-quality service.

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an authorized DIRECTV retailer, has over five

years experience in the Satellite TV business and has written numerous articles on the subject.

DIRECTV Installation?

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What goes into DIRECTV Installation?

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There are usually only three main parts to a DIRECTV Installation. But what goes into DIRECTV Installation? The first and most essential DIRECTV Installation is the Satellite Dish. Secondly most important in any DIRECTV Installation is the RG6 coaxial cable that should thread through the house down to the Audio-Visual equipment. And thirdly most important in a DIRECTV Installation is the receiver unit setup. Mostly they are all pretty self-explainable and self-understandable, as long as the setup is standard in the location where this particular DIRECTV Installation occurs.

DIRECTV Installation of the Satellite Dish

DIRECTV Installation of a satellite dish means knowing what size and type of dish you will need for your coverage area, how to install the mounting system, and how to point it correctly. Most all DIRECTV Installation now a days uses a small oval dish which is light weight and easy to mount. Sometimes in really rainy areas, or snowy, bigger heavy dishes are used. Once you have the proper DIRECTV dish for your site, then you need to do a thorough survey of the land and discover a place that is pointing in the general direction of Texas, unless you live in Texas (then point due south). You will want to point to the satellite which if you live in the south of the US means pointing really angled up (like around 60 degrees, however farther north close to Canada means pointing at around 30 degrees up or so. Once the whole surveying, mounting and initial pointing is done you will need to hook the RG6 coaxial cable up to the Dish and run it through the house.

DIRECTV Installation of the RG6 Coaxial Cable

Not everyone decides on using the same kind of high-quality DIRECTV Installation system nor decides exactly the same on where a dish is suppose should go, pure aesthetics (personal ideal of beauty). Outside the house, and the farther a Dish is from the inside of the house, the more Quad Shield RG6 coaxial cable will be needed. RG6 is the exact size of copper cable to carry DIRECTV broadcasting systems. Inside the house however, you can rig the cable with less expensive RG6 cables called Dual Shield cable. During DIRECTV Installation, when you want to run the same feed to two spot in the same room or general direction, RG6 Siamese cable runs two different feeds in the same direction parallel to each other (very convenient for basements and attics).

DIRECTV Installation of the Receiver Unit

The DIRECTV Installation of the receiver unit is probably the most exciting part. After you have the initial cable running from the satellite dish to the receiver, you should then finish pointing the dish with the coordinates that appear on the menu in the receiver unit itself. Once you have the dish pointing in the CORRECT direction, you can go ahead and distribute your DIRECTV Installation all over the house in as many or as little receiver units as you may have planned and already received for free or purchased extra. Then decide which feed and IRD (integrated receiver/decoder unit) is going to go where.

In the end everything is well hooked up and you know exactly what goes where. You have tested the reception from television to television every time you hooked another one up until all rooms have the

equipment you want. First make sure you know what kind of Satellite Dish you need, survey the land, figure out a place with a direct line of sight to Texas, point between 30 to 60 degrees up in the air and go lay RG6 cable. Quad Sheild RG6 cable should be used outside to avoid interference with other signals. Inside the house, Dual Shield RG6 cable should be fine for threading signals around from room to room. The IRD receiver unit can be used to know the correct coordinates of the satellite in the sky and help you adjust accordingly. Once you have properly adjusted the dish, you can go all over the house and thread cable as you wish, testing each DIRECTV Installation, TV and receiver as you go, until your masterpiece is exactly as you want it.

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