



Build Your Own DTV Super-Antenna

J.D. Adams

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Build Your Own DTV Super-Antenna is a step-by-step guide to constructing a low-noise UHF antenna with over 15 dBi of gain for robust reception of free digital High-Definition television, four times the received power of "flat" antennas being marketed. The compact 2-bay antenna can be mounted on a mast or made as a self-supporting structure that is suspended in free space. This design is tuned to receive UHF frequencies from 450 to 700 MHz and it also exhibits 8.3 dBi of gain on high-band VHF.

Television broadcasters have completed the digital transition and offer high quality video, audio, and integrated services. All of the major network channels are still available for free along with local and alternative programming, retro movies, music videos, and Public Broadcasting. To receive digital TV signals, you only need a digital tuner on your TV set and an inexpensive indoor antenna. Television receivers manufactured after 2007 include digital tuners; if your TV set is older, a converter box can be purchased for about \$30 to convert broadcast DTV to analog TV. The legacy roof-mounted television antennas still work fine for receiving the VHF channels 2 through 12 for DTV. With a device called a low-loss combiner, you can add the VHF TV signal to a UHF signal from the DTV Super-Antenna and have an economical system for receiving all the available HDTV channels.

Antennas are rated by their signal Gain parameter, which is a measure of how much the antenna can gather and focus the incoming energy into a narrow beam. As a point of reference, a DTV antenna having a Gain of 15 dBi or greater can receive DTV signals 60 miles away from the transmitter over rugged topography. Whether an antenna works at a distance of 150 miles for UHF (as is often advertized) depends to a great extent on the transmitter broadcast power, the flatness of the intervening terrain and the weather conditions at the time. The DTV Super-Antenna project meets or exceeds most comparable commercial DTV antennas for Gain.

Rev C includes an improved fastening technique for the antenna elements.

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