

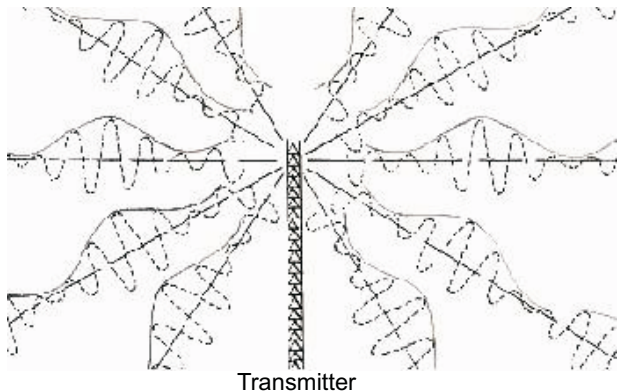
UHF & VHF Television



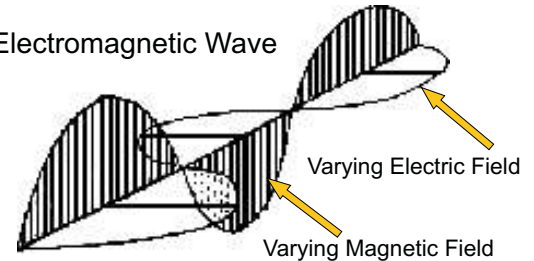
By Richard Henry

Understanding the Signal Helps You Know How to Receive It.

Television (TV) Broadcasts are sent from the Transmitter as electromagnetic waves called RF (Radio Frequency) waves.



Electromagnetic Wave

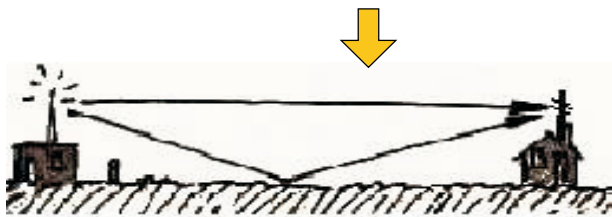


Electromagnetic Waves

Radio and TV waves are part of a large family of rays and waves known as electromagnetic waves. They consist of electric and magnetic fields that vibrate at right angles to each other.

Light Rays are also electromagnetic and so too are radar microwaves, infrared rays, ultraviolet rays and X-rays. All electromagnetic waves move at the speed of light which is 300,000 kilometres per second (186,000 miles per second) They travel through air and space.

UHF & VHF signals travel a short distance bouncing off the ground or large objects.



For TV these RF waves are further categorised as UHF & VHF:

VHF (Very High Frequency waves) are signals ranging from channel 0 to 12, or radio frequencies between 0 to 300 megahertz.

UHF (Ultra High Frequency waves) are signals ranging from channel 28 to 69, or radio frequencies between 300 to 3000 megahertz.

Your Antenna

Radio waves strike the aerial connected to the TV. They affect the metal atoms producing weak electric carrier signals in the aerial. The signal travels down the cable to the TV. Your antenna should be able to pick up both UHF and VHF channels to cover the full range of Australian broadcasts. (80% of transmitters are UHF in Australia.) VHF is used most commonly in the capital cities.

Polarity - Horizontal or Vertical?

The transmitter can transmit the RF signal either horizontally or vertically. To correctly receive the signal you will need to set up the antenna to match the signal by mounting it either horizontally or vertically. You will need to find out each time you set up .

Ask your caravan dealer for the **explorer antenna System - The one that works!**

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