

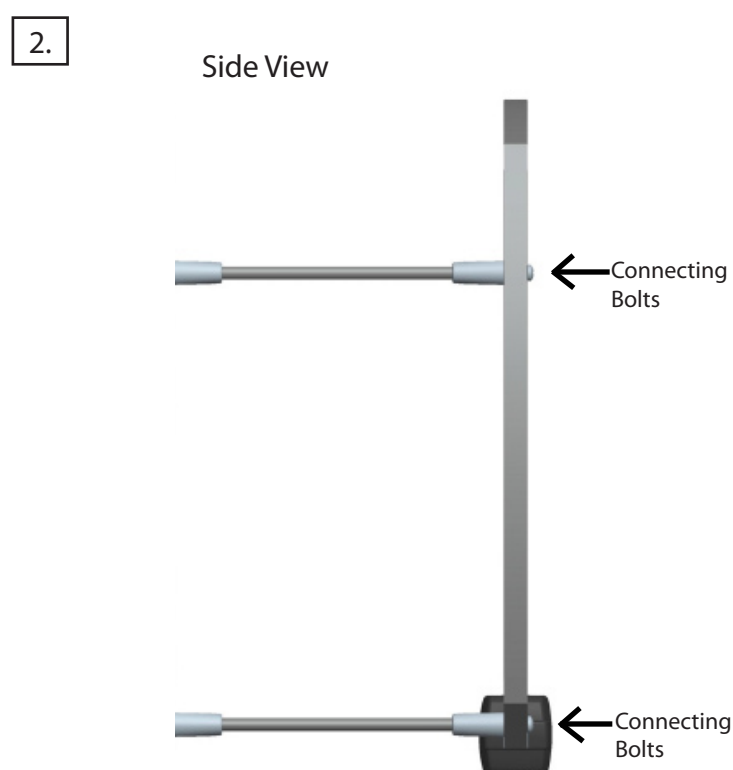
## C5 - CLEARSTREAM 5 ANTENNA ASSEMBLY

The C5 was specifically developed to receive low power and fringe high VHF DTV stations. It can be used by itself or can augment an existing UHF antenna. Includes a UHF/VHF combiner.



### 1. The ClearStream 5 antenna comes with:

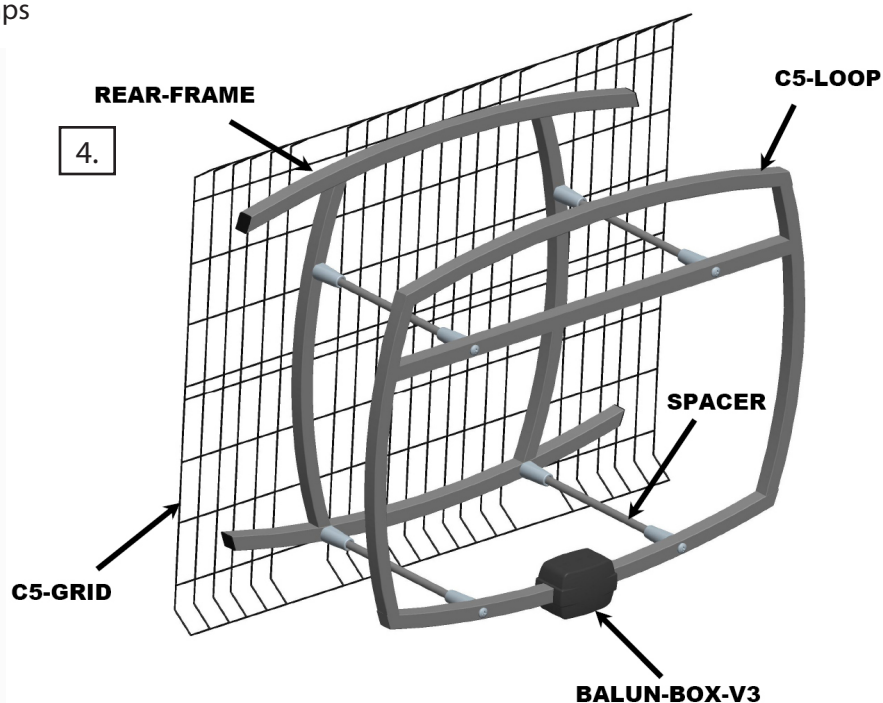
- 1 reflector
- 1 VHF loop element
- 4 Fiberglass Spacers
- 75 ohm balun (internal)
- 8 Threaded Bolts
- 8 Washers
- UHF/VHF diplexer
- 2 "U" Bolt mast clamps



2. Feed the supplied bolts through the 4 holes in the square loop element. Connect the square element to the fiberglass spacers with the bolts and tighten.



3. Align the separating spacers and attach the reflector (grid) to the spacers by threading the 4 bolts into the spacers. Next attach the 2 "U" Bolt clamps through the holes in the rear frame.



4. **Assembly complete.** Attach the C5 antenna to any kind of mast or mount (up to 2" in diameter) with the adjustable "U" bolt clamps.

# PERFORMANCE

## 5. ClearStream 5

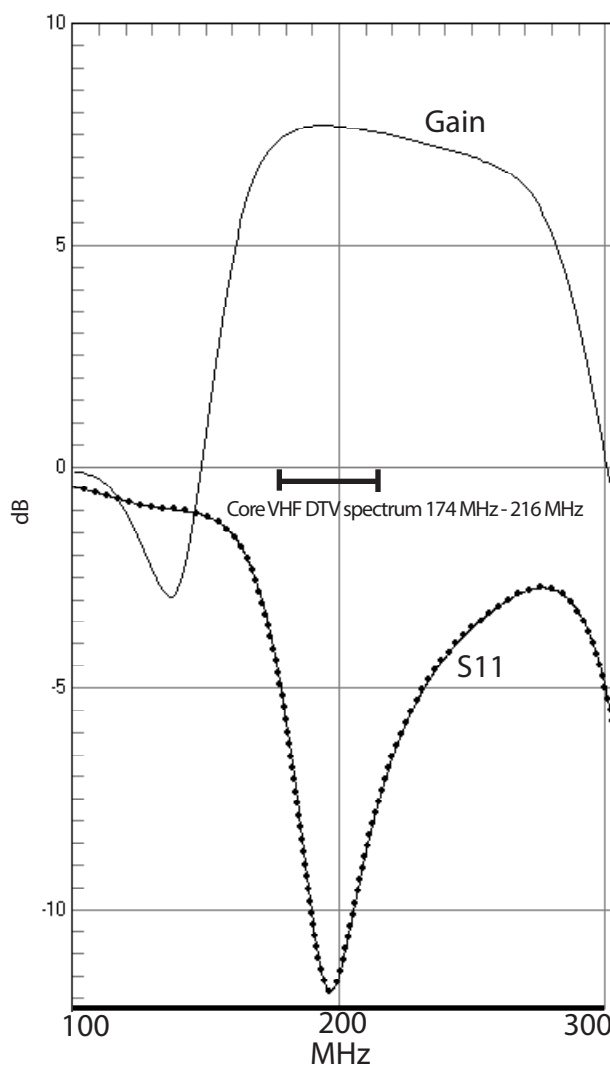
### Gain and S11 vs Frequency

**Gain** is a measure of an antenna's ability to concentrate radiated power from a particular direction. Unlike other antennas that claim high peak values, The gain of the C1 is not only extremely high but nearly uniform across the DTV spectrum

**S11** The method used to compute losses from impedance mismatches. The lower the number, the better.

The efficiency of an antenna is how much signal received by the antenna actually makes it to the cable. The C5 is an extremely efficient antenna.

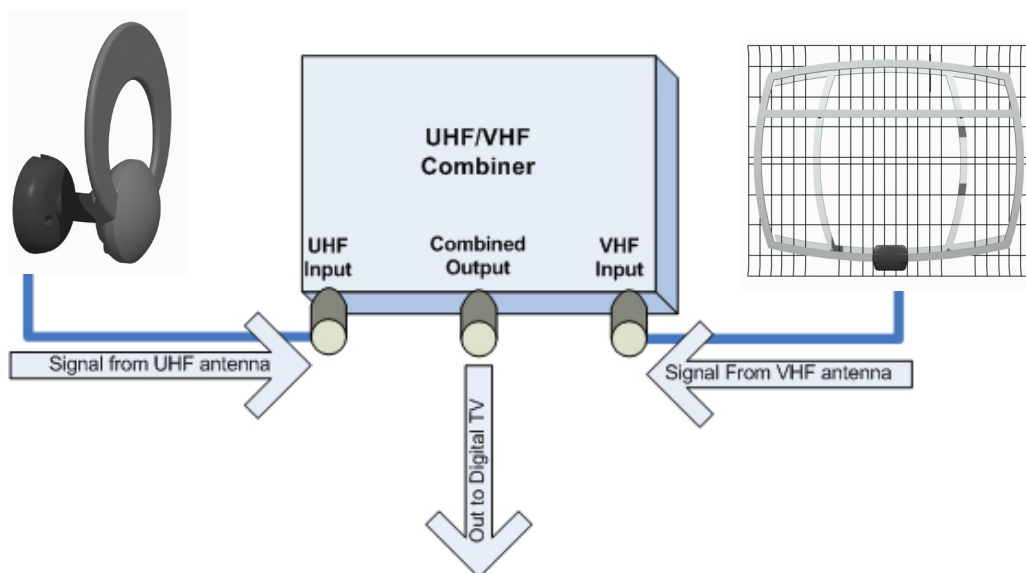
At its optimum frequency, the mismatch loss for the C5 is very low - less than .1 dB.



## UHF/VHF ANTENNA COMBINER

The Antennas Direct UHF/VHF antenna combiner allows you to join a UHF antenna and a VHF antenna with much lower insertion loss than a conventional splitter.

There are also filters on each input to prevent frequency overlap between both antennas, avoiding possible phase cancellation.



### Helpful Tips:

- If your cable run is greater than 75', A pre-amplifier may be required.
- UHF signals are line of sight. Get as much elevation as practical.
- Attic Installations will cut 40% -50% of your signal strength.
- **KEEP ANTENNA AWAY FROM POWER LINES**



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