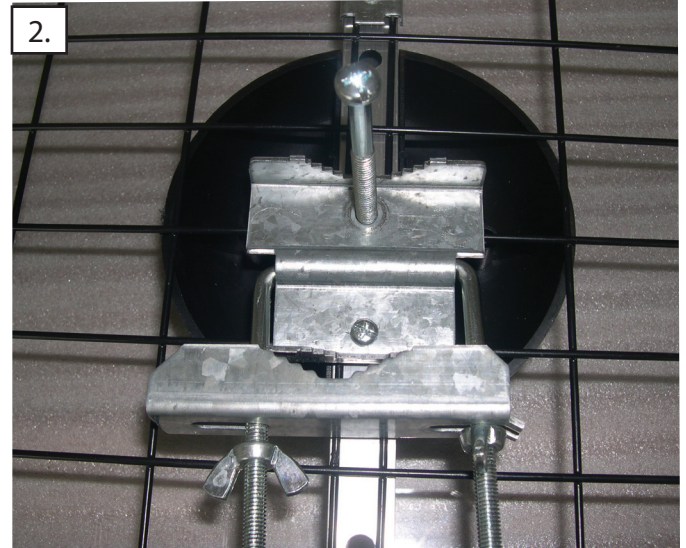
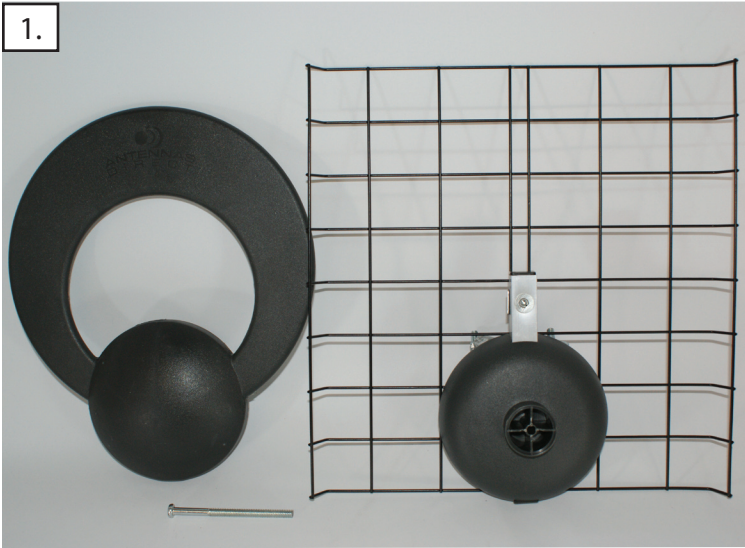


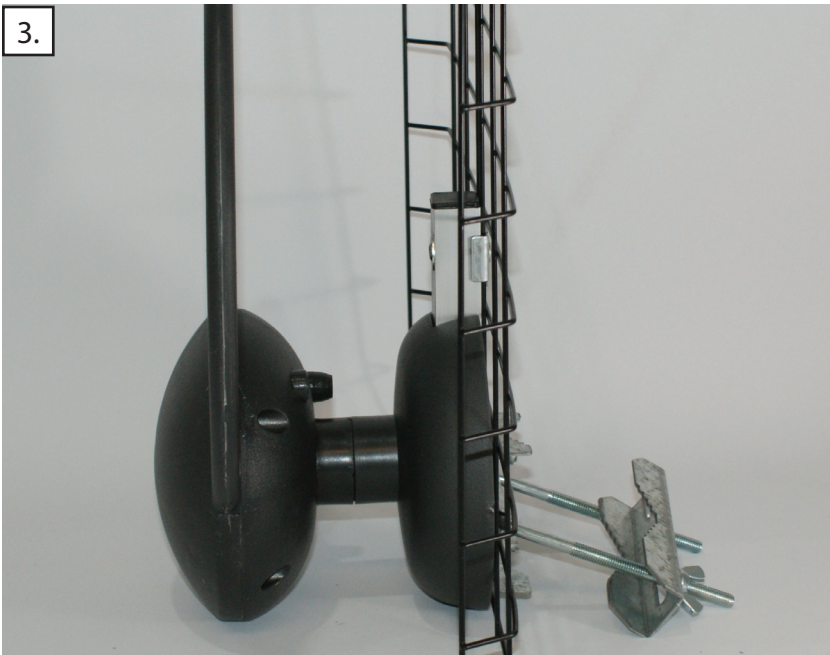
# C1 - CLEARSTREAM 1 ANTENNA ASSEMBLY



**1. The ClearStream 1 antenna comes with:**

- 1 reflector
- 1 tapered loop element
- 75 ohm transformer (internal)
- 1 threaded bolt
- 1 adjustable mast clamp

**2.** Feed the supplied bolt through hole in U clamp assembly.



**3.** Align the two halves of the separating column and attach the reflector (grid) to the antenna element (Tapered loop) by threading the bolt through the center of the column. Tighten.



**4. Assembly complete.** Attach the C1 antenna to any kind of mast or mount (up to 2" in diameter) with the adjustable U bolt clamp. The 75 ohm coax connector is in the center rear.

# Performance

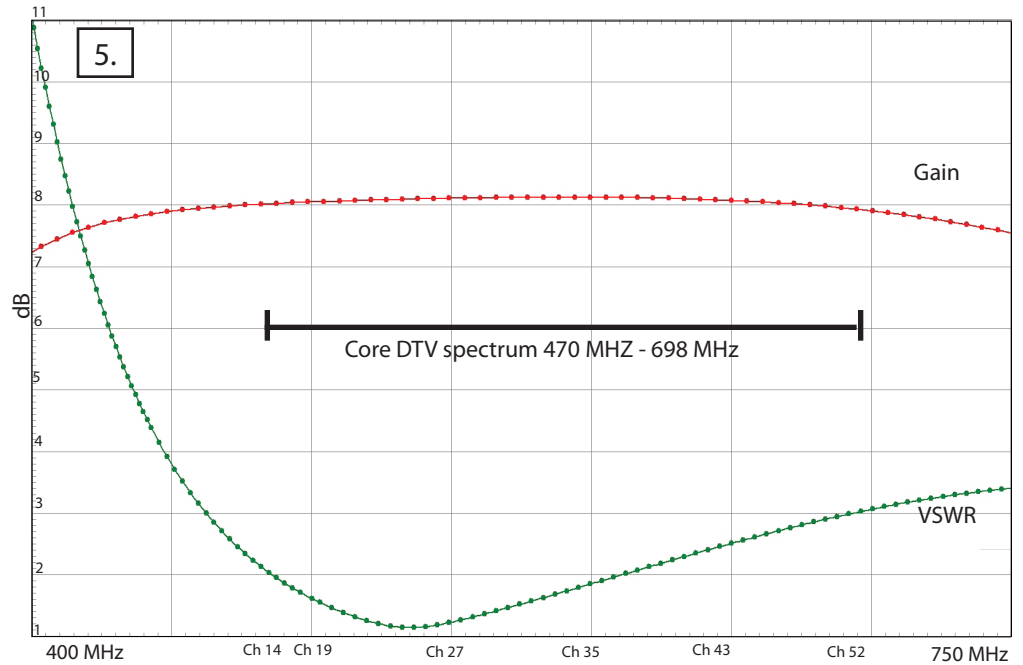
## 5. ClearStream 1 Gain and VSWR vs Frequency

**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

**VSWR** ( Voltage Standing Wave Ratio). The method used to compute losses from impedance mismatches. The lower the number the better. If the VSWR = 1 then there is no loss.

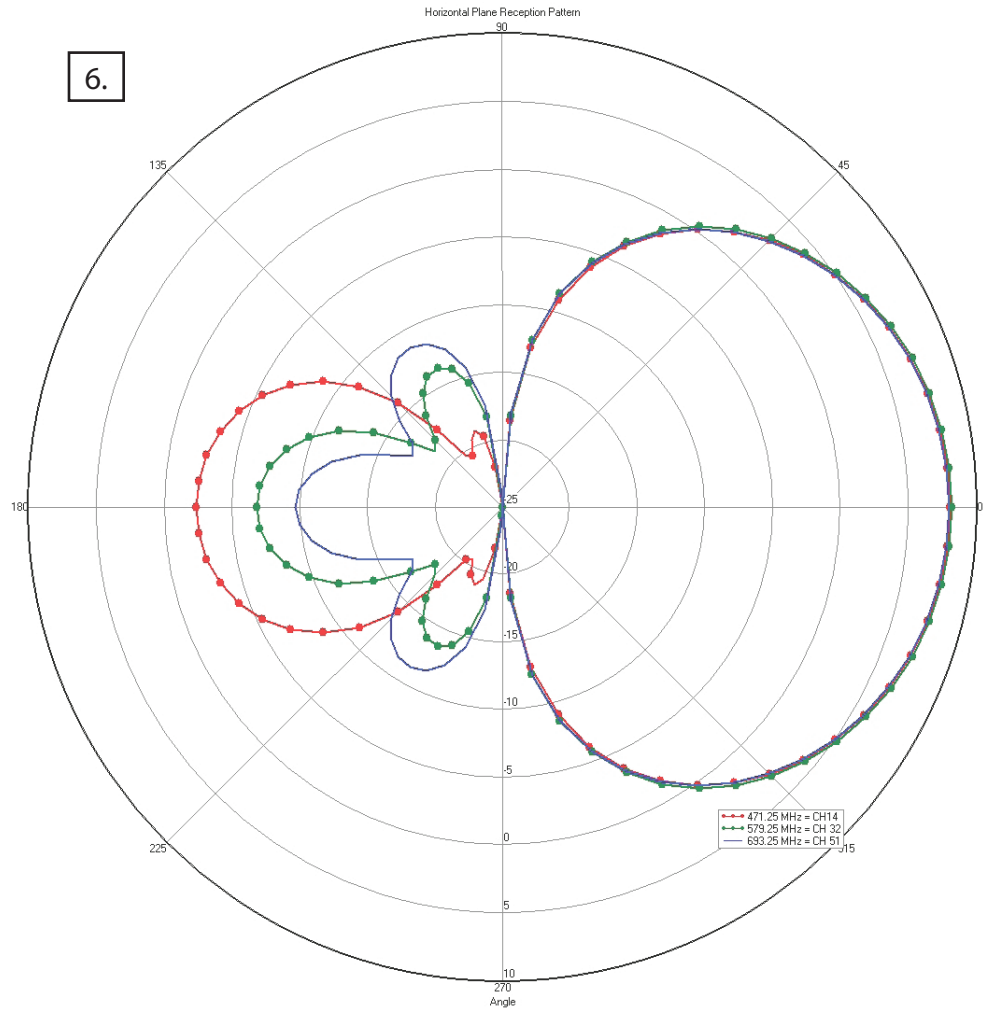
The efficiency of an antenna is how much signal received by the antenna actually makes it to the cable.

The C1 is an extremely efficient antenna. At its optimum frequency, the mismatch loss for the C1 is very low - less than .1 dB.



## 6. ClearStream 1 Horizontal Plane Reception Patterns

The ClearStream 1 has very forgiving aiming characteristics with more than 70 degrees of beamwidth across the main lobe as well as a powerful secondary rear lobe. This allows the C1 to receive signals from multiple directions with a single fixed installation.



### 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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