



CLEARSTREAM 1™

CONVERTIBLE

Three Antennas in one designed and optimized for digital TV frequencies. The ClearStream1 Convertible™.



Now DTV viewers have the choice of a single antenna that can be configured three ways: Tabletop, wall mounted or outdoors.

ClearStream™ antennas represent a new breakthrough in size, unmatched ultra-efficient design and directionality. Advanced design software allows these 12" X 12" antennas to be smaller and powerful across the entire DTV spectrum offering consistently high gain. This advancement in antenna efficiency allows up to 98% of the available broadcast signal to actually reach the incoming antenna cable rather than being lost to impedance mismatches. The ClearStream™ 1 Convertible Tapered-Loop available and higher

VHF frequencies with a range up to 30 miles. They are engineered for strength and durability using anodized aluminum for corrosion resistance and are easy to assemble.

The ClearStream™ 1 Convertible delivers DTV signals from widely located (spaced) broadcast towers. Normally, when TV towers are spaced more than 30 degrees apart from a viewer's home, an antenna rotor is recommended. This new antenna has a wider, 70 degree beam-width, pattern on lower UHF stations. Working with the newest generation 4 and 5 ATSC chip sets incorporated in newer digital and HDTV tuners, which mitigate multi-path, the ClearStream™ 1 Convertible delivers digitally perfect signals from multiple stations.

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- Range: Up to 30 miles
- Beamwidth(Horizontal Plane):
470 to 700 Mhz: 70 degrees
- VSWR: Typical 2:1 or better;
Max 3:1; < 2:1 from
470 to 700 MHz
- Front to Back Ratio: Typical 15dBi
- Directivity: Typical 8.1 dBi;
Max 8.25 dBi @ CH 35

SKU #	Master Carton	Item Description	Dealer Cost	Retail
C1C	10	ClearStream™ 1 Convertible Medium Range Indoor/Outdoor DTV Antenna	□	\$59.99



Performance

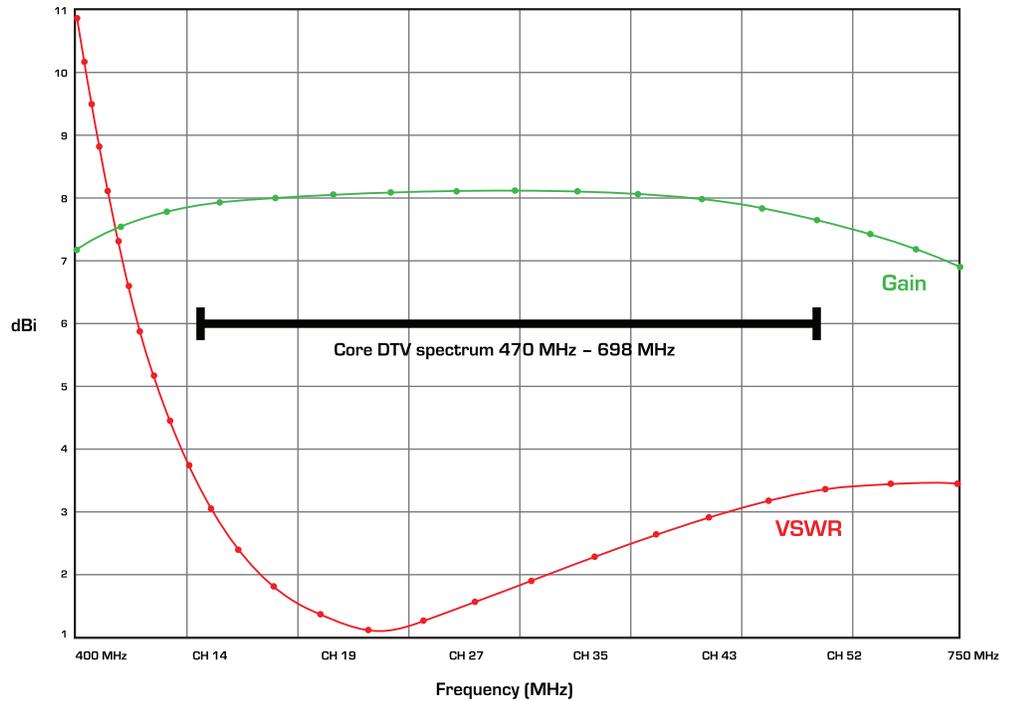
ClearStream™ 1 Convertible Gain and VSWR vs. Frequency

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 C1C is not only extremely high but it is nearly uniform across the UHF DTV spectrum.

VSWR (Voltage Standing Wave Ratio)

This method is used to compute losses from impedance mismatches. The lower the number, the better. If the VSWR = 1 then there is no loss.

The efficiency value of an antenna defines how much signal received by the antenna actually makes it to the cable. The C1C is an extremely efficient antenna. At its optimum frequency, the mismatch loss for the C1C is very low (less than .1dB).



ClearStream™ 1 Convertible Horizontal Plane Reception Patterns

The ClearStream™ 1 Convertible has very forgiving aiming characteristics with more than 70 degrees of beamwidth across the primary lobe, as well as a powerful secondary rear lobe. This allows the C1C 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.

