



# CLEARSTREAM 5™

Combination UHF/VHF antenna plus extreme VHF performance in a compact package.



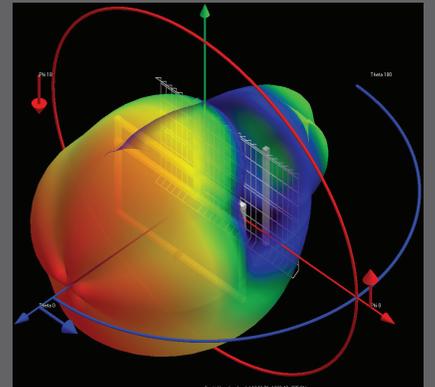
With 24% of the American DTV stations moving to high VHF assignment, a need exists for a powerful yet compact high VHF antenna.

Incorporating the same compact engineering which distinguishes the ClearStream™ family, the C5 is targeted specifically for the high VHF band as well as UHF broadcasts.

The ClearStream 5™ offers efficient, compact design with consistent gain across the entire post 2009 DTV spectrum and outstanding UHF capability. The ClearStream 5™ is superior to existing combination antennas for receiving DTV signals and delivers good directivity with a peak gain of 7.6dBi and 4.9dBi UHF.

This leap forward in efficient design allows up to 98% of the available broadcast signal to actually reach the incoming antenna cable rather than being lost to impedance mismatches. They are engineered for strength and durability, using anodized aluminum for corrosion resistance and are easy to assemble.

## CLEARSTREAM 5™



- Target frequencies:  
470 - 698MHz  
(Channels 14 - 51)  
174 - 216 MHz  
(Channels 7 - 13)
- Max gain: 7.6 dBi VHF  
4.9 dBi UHF
- VHF range: 65 miles +
- Impedance: 75 Ohm
- Size: 29"L x 23"W x 11.5"D
- 90% efficient @ 200 MHz
- 100% compatible with all ATSC tuners

SKU #	Master Carton	Item Description	Dealer Cost	Retail
C5	5	ClearStream 5™ VHF Antenna w/ UHF Combiner	<input type="text"/>	\$159.99



# Performance

## ClearStream 5™ 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 C5 is not only extremely high but nearly uniform across the DTV spectrum.

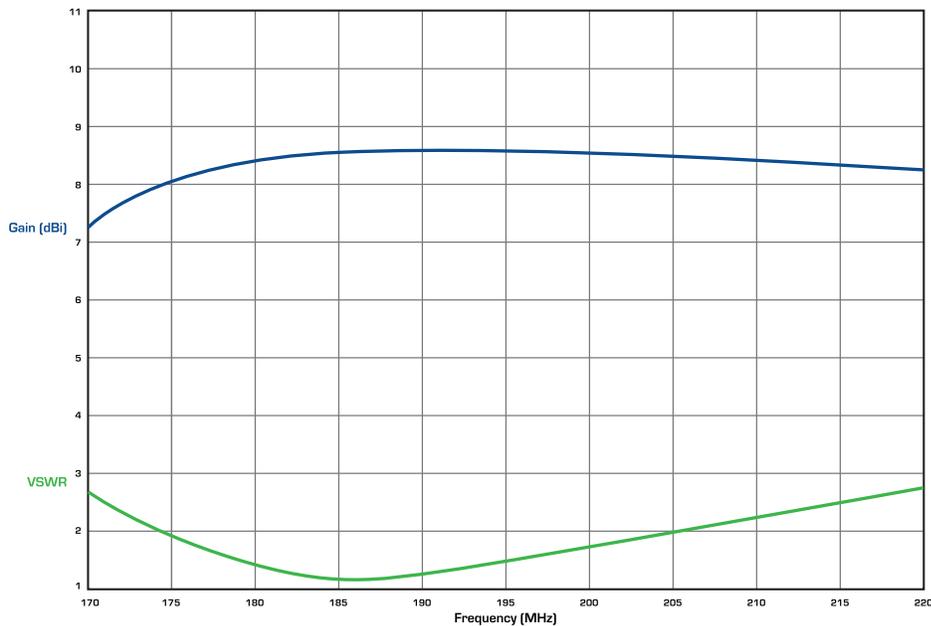
VSWR (Voltage Standing Wave Ratio)

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 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 .1dB).

C5 - Boresight Gain v. Frequency

C5 - VSWR v. Frequency



## ClearStream 5™ Horizontal Plane Reception Patterns

The ClearStream 5™ 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 C5 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.

C5 - High VHF Total Gain vs. Azimuth Angle

