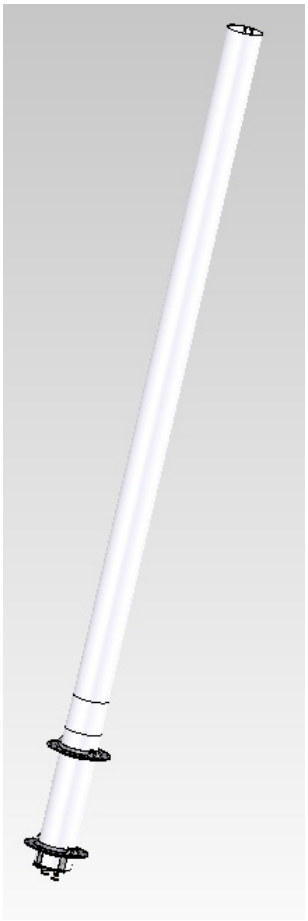
JVDC-U

JVDC-U VERTICALLY POLARIZED BROADBAND UHF CARDIOID ANTENNA



The JAMPRO JVDC-U UHF cardioid antenna is designed to produce a wide cardioid azimuth pattern from an array of co-linear full wave vertical dipoles. The dipoles are mounted to the narrow edge of aluminum 150mm x 50mm channels with a sheet metal cover containing the distribution cables.
A single model can cover the UHF band 470-800MHz.

The JVDC-U is fed via dual co-phased inputs and designed to be imbedded into the structure housed within a 425mm diameter GRP cylindrical radome as a top mount or as a side mount without the GRP radome.
The JVDC-U antenna is suitable for multiple Digital (DVB-T2, ATSC, ISDB-T) or Analogue channels. With a durable and rugged construction the antenna is designed for many years of trouble free operation.

Power ratings up to 10kW

Ideal for broadband & multi frequency applications

Excellent VSWR & bandwidth

Vertical polarization

DC Grounded

Electrical Specifications	
Frequency	470-800 MHz
Azimuth Pattern	Cardioid
Polarization	Vertical
Impedance	50 ohm
VSWR	<1.22:1
Input Connector	2 x 1 5/8” EIA

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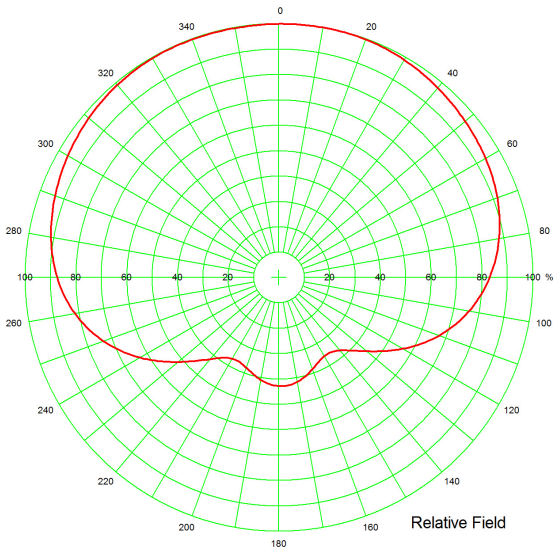
# of Bays	Power Gain	Gain	Beam Tilt	Length	Weight
4	7.6 x	8.8 dBd	6.4°	10.2ft / 3.1m	572lbs / 260kg
8	13.5 x	11.3 dBd	3.5°	21.3ft / 6.5m	880lbs / 400kg
12	19.1 x	12.8 dBd	2.0°	27.6ft / 8.4m	1078bs / 490kg
16	24.5 x	13.9 dBd	1.8°	33.8ft / 10.3m	1276lbs / 580kg



Typical Azimuth Radiation pattern

NOTES:

1. All inputs EIA flange, female.
2. Power derating occurs above 2,000 ft. elevation.
3. Power and dB gains are typical gains vertical components.
4. Special mounting brackets available.
5. Polarization is vertical.
6. Power gain is based on half wave dipole in free space.

Since many factors contribute to a station's compliance with the FCC exposure guidelines for radio frequency radiation (RFR), JAMPRO ANTENNAS, INC. cannot accept any responsibility in this matter. The station must examine and determine its status based on each individual situation. For reduced low angle radiation near the tower, a low RFR model of this antenna is available. Contact the factory for pricing data and further details.

*All specifications subject to change without notice. Higher power ratings available