



Broadcast Antenna & Service Guide



Multiple Solutions
Various Patterns and Gain
Coaxial, Dipole and Patch Designs

www.alivetele.com

Alive Telecom - Variety of Antenna System Solutions

Antenna Development

- Standard and Custom Patterns, Available
- All tested in House Full Scale Anechoic Chamber
- Specialty and Unique Antenna opportunities
- Premium Construction 100% Made in the USA

Complete RF System Designs and Services

- System Sweep & Optimization
- Filter Tune
- Refurbished Replacement Passive Components
- Phased Cable Assemblies
- Batwing Feed Line and Power Divider Replacements
- RF Exposure (OET 65) Testing
- Interference Studies
- Tower Mappings
- Pattern Verifications
- AM/FM IBOC System Analysis
- Microwave Path Cost Analysis and Alignment
- Preventative Maintenance
- Full Turn Key Program Management

Antenna Part Number Nomenclature

ATC-BC Polarization Beam Tilt EL Gain Az PAT – Channel
Ch 45 12 bay Horizontal Wide Cardioid 0.75 BeamTilt
ATC-BCH312C1-45



ATC-BCX Coaxial Slot Antenna



Coaxial Pylon Style Antenna

Horizontal, Vertical, or Circular Polarization

Slot-Cover & Full Radome Available Pressurized

1kW to 32kW Input Power

<1.08 VSWR per 6 MHz Channel

Corporate or End Fed

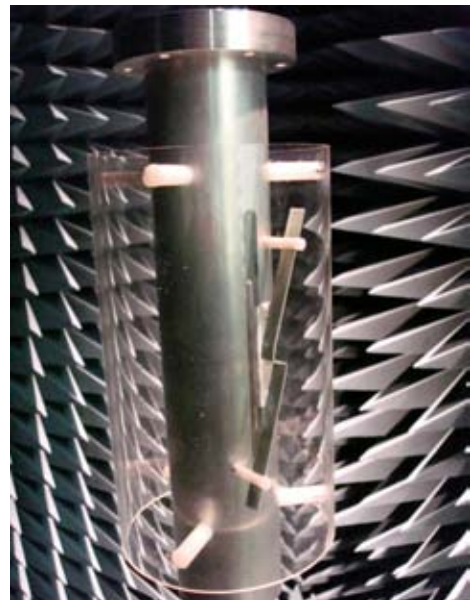
4 to 32 Bay Designs

0.75 Degree Beam Tilt Standard

7/8" 1-5/8" 3-1/8" 50 ohm EIA Input

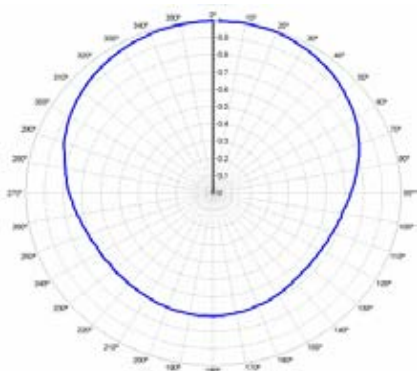
6" Input required for 32 kW Power Handling

Tower Top or Side Mount

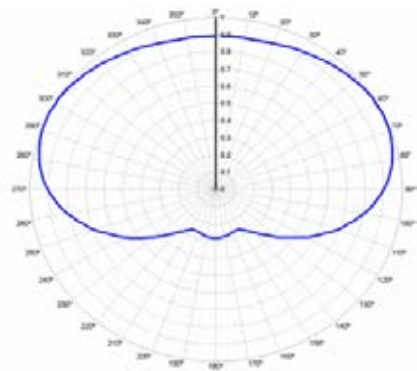


Variance of Standard Products Available
Upon Request

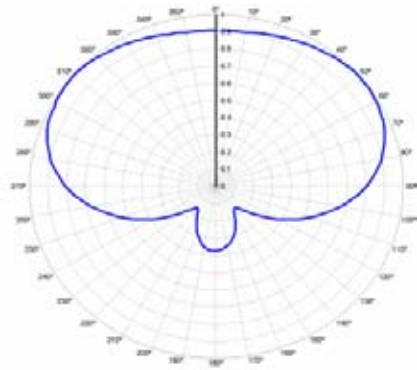
Azimuth Patterns



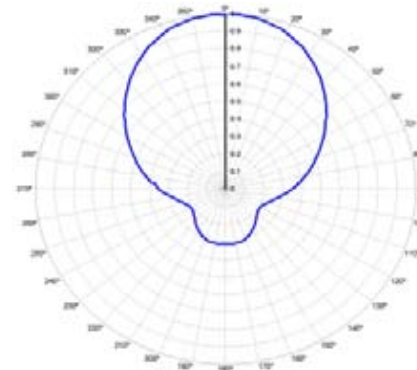
Omnioid



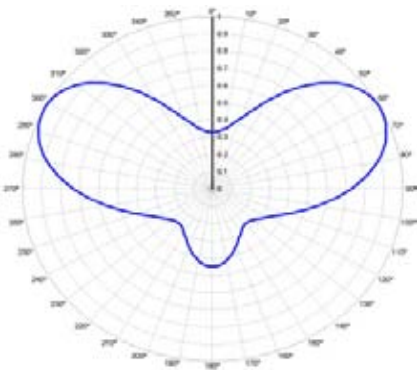
C1



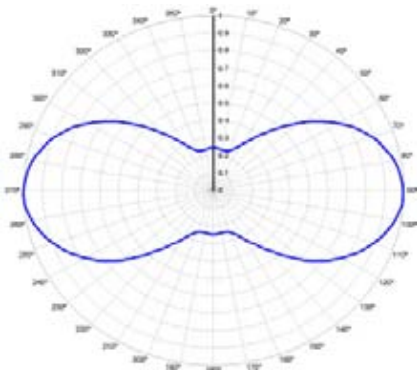
C2



C3



B1



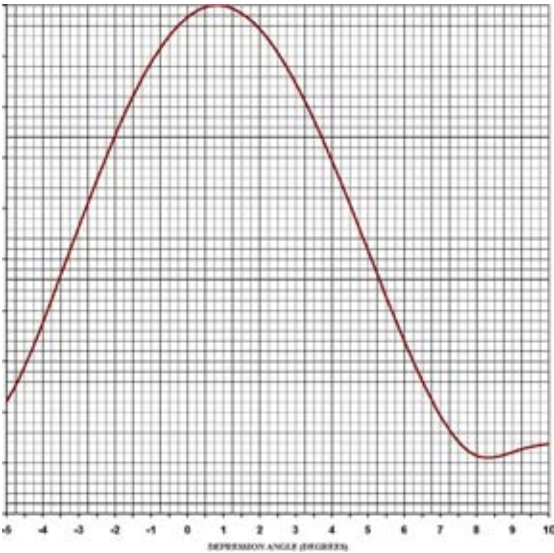
P1



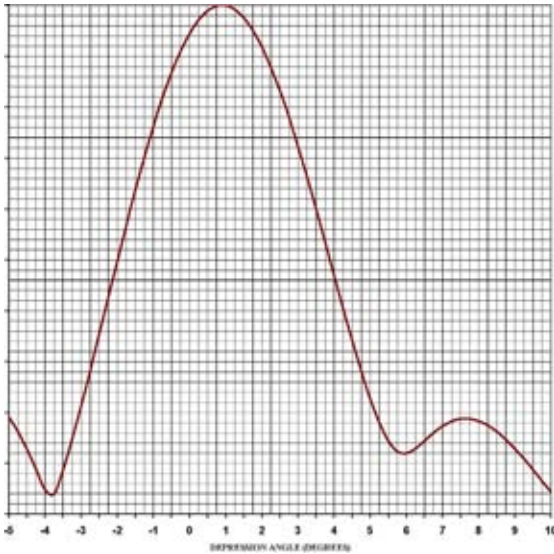
Omni-Directional and Custom
Patterns Available



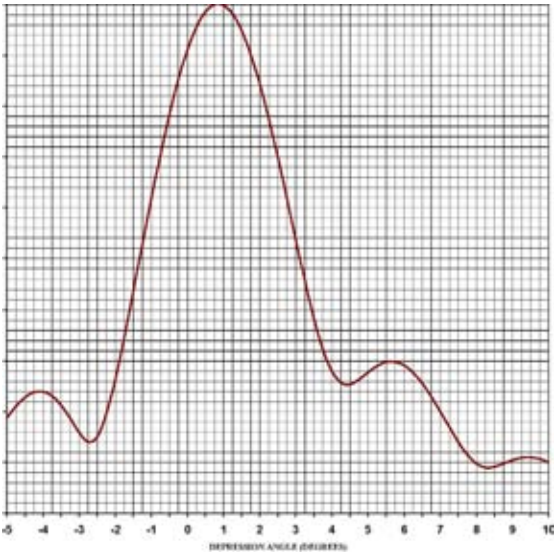
Elevation Patterns



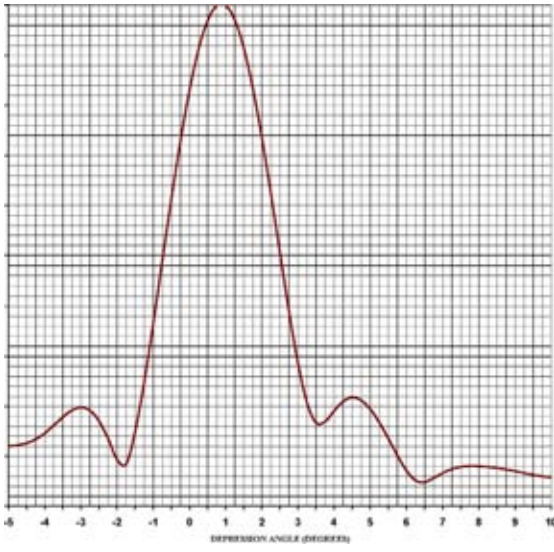
8 Bay 9.5 dBd



12 Bay 11 dBd



16 Bay 12.3 dBd



24 Bay 14 dBd



Mechanical Data Low & Mid Power Antennas

<u>Channel</u>	<u>Height (ft)</u>	<u>Weight (lb)</u>	<u>Windload (lb)</u>
<u>4 Bay</u>			
14-30	10.5	60	200
31-45	9.6	57	190
46-61	8.5	55	180
62-69	8.0	50	170
<u>8 Bay</u>			
14-30	20.5	120	390
31-45	18.4	114	370
46-61	16.4	110	350
62-69	15.0	100	330
<u>12 Bay</u>			
14-30	30.0	175	575
31-45	18.4	170	545
46-61	24.0	165	515
61-69	22.0	160	490
<u>16 Bay</u>			
14-30	40.4	240	770
31-45	35.4	230	730
46-61	31.4	220	690
62-69	29.0	210	660
<u>24 Bay</u>			
14-30	58.4	345	1150
31-45	53.3	325	1090
46-61	47.3	305	1030
62-69	43.0	290	980
<u>32 Bay</u>			
14-30	78.0	435	1535
31-45	70.8	415	1450
46-61	62.8	395	1370
62-69	57.0	380	1310



ATC-BC8 LPTV Antenna

8 BAY Low Power Television Antenna

Omnioid, C1, C2, C3 & P1 Azimuth Patterns

7/8" EIA 50 ohm Input - 1.5 kW Max Average Power

1.5 Degrees Standard Beam Tilt

<1.08 VSWR across 6 MHz Channel

Lightweight Aluminum Construction

Slot Cover Radome

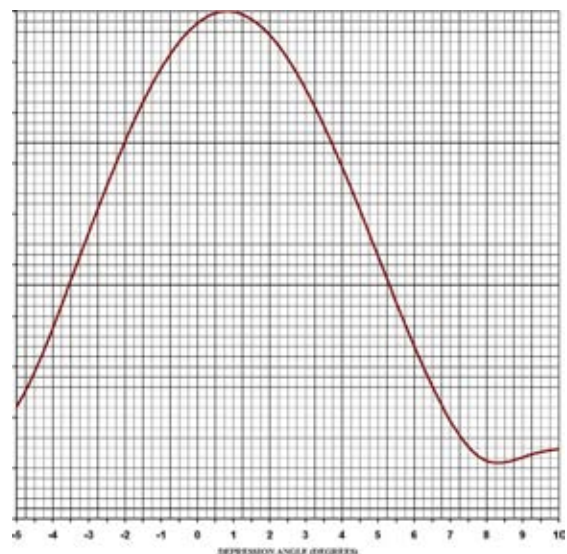


1-5/8" EIA 50 ohm Input

5 kW Max Average Available

Pressurized or Unpressurized Styles

2 and 3 Channel Wide Versions Offered



Using Your NTSC Antenna for DTV?

Before You Switch Back,

Verify Antenna System Performance

Electrical Testing – System Sweep

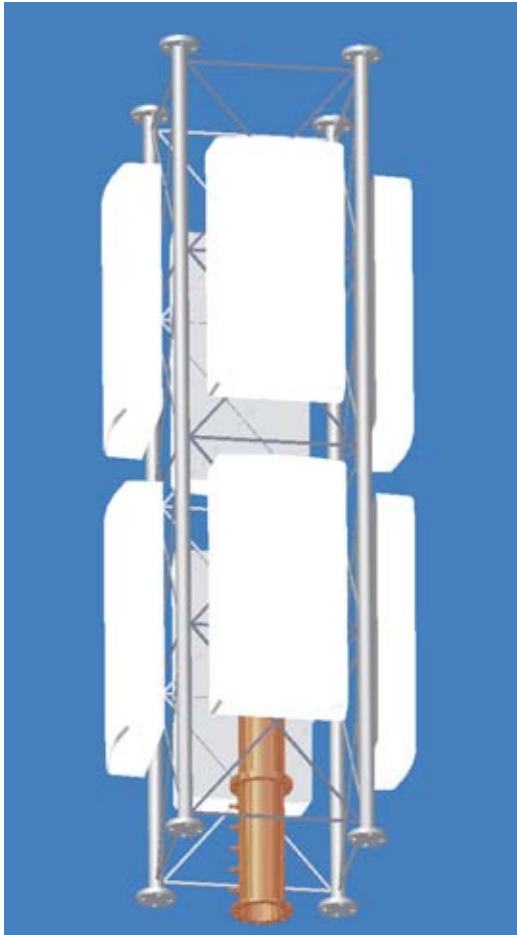
- Check Antenna Match, Flange to Flange Ripple
- Optimization Retune System for Flat Response
- Field Strength Measurements

Mechanical Testing – Tower Inspection

- Inspect Transmission Line & Antenna
- Verify Flange Torque, Spring Hanger Tension



Broadband Auxiliary Antenna



As the Switch to DTV Occurs
Broadcasters Need Options
Moving Your DTV
Side Mount to Top Mount
Changing Channels
Available for Rent or Purchase

6-1/8" or 3-1/8" EIA 50 ohm Input
Ch 14—69
12.5 kW Average Power Max Input
Horizontally Polarized