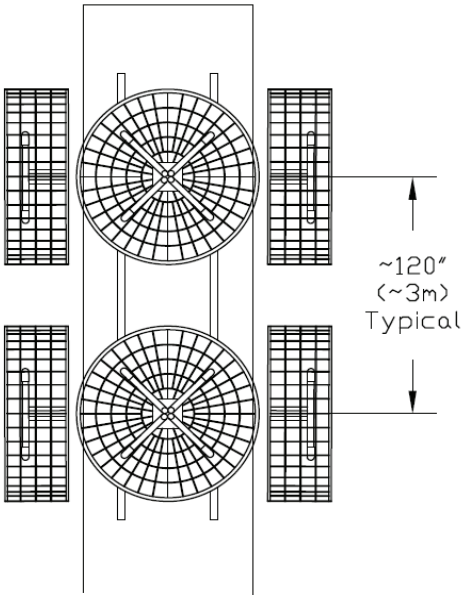
# ADB-ADP

## Broadband Cavity Broadcast Antenna

Product Description

The ADB-ADP antenna utilizes a band element to excite a cavity resonator for maximum beam control. The result is an antenna which is far superior to standard flat panel designs. This antenna has low VSWR, uniform pattern and axial ratio across a wide band of frequencies. The ADB-ADP is designed for Bands I, II (FM), and III and is easily adaptable for multi-station use. The feed system includes dry air pressurized power dividers, feed baluns and flexible copper coax cables. The balun and dipole feeds can be enclosed in a radome for harsh weather sites. Dual input HD field upgrade available. HD ready for low level, high level or mid level combining.




HD Radio

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| #BAYS | Panels Per Bay | Gain (Times) | Height (ft/m) | Net Weight (pounds) | Windload (pounds) |
|---|---|---|---|---|---|
| 1 | 1<br>2<br>3 | 2.0<br>1.0<br>0.47 | 6ft / 1.82m | Contact Factory | |
| 2 | 1<br>2<br>3 | 4.0<br>2.0<br>1.0 | 16ft / 4.87m | | |
| 4 | 1<br>2<br>3 | 8.0<br>4.0<br>2.1 | 36ft / 10.97m | | |
| 6 | 1<br>2<br>3 | 12.0<br>6.0<br>3.2 | 56ft / 17.06m | | |
| 8 | 1<br>2<br>3 | 16.0<br>8.0<br>4.3 | 76ft / 23.16m | | |
| 10 | 1<br>2<br>3 | 20.0<br>10.0<br>6.6 | 96ft / 29.26m | | |
| 12 | 1<br>2<br>3 | 24.0<br>12.0<br>8.0 | 116ft / 35.36m | | |

*All stated gains are Peak gains. Gains do not include losses for feed system, beam tilt or null fill.

NOTES:

1. Weights and windloads contact factory
2. All inputs EIA flange, female. 50 ohms
3. In an omni-directional configuration, circularity is ±1.5 dB or better. Directional patterns available.
4. Axial ratio is typically better than 1.0 dB
5. VSWR for individual panels and complete systems = 20% bandwidth under 1.1:1 available
6. Polarization is right hand circular
7. Power rating per cavity varies with input power.
8. Three panel per bay gains are 0.47 (omni) per layer.
9. Total number of frequencies limited only by total input power and dB gains are typical RMS gains for omni-directional, horizontal and vertical components.
10. Radomes optional. Specifications upon request

OPTIONS:

FCC Directionalization, Pattern Measurement Service, Electrical Beam Tilt, Null Fill, Special Mounting Brackets.

Since many factors contribute to a station's compliance with the FCC exposure guidelines for radio frequency radiation, Alan Dick Broadcast Ltd. 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 are subject to change without notice.