

ADB-HD-HV2

Dual Dipole Flat Panel Antenna



HORIZONTAL POLARIZED DUAL DIPOLE BAND III FLAT PANEL ANTENNA

The AlanDick ADB-HD-HV2 antenna is a half wave spaced dual dipole horizontally polarized flat panel antenna system. Rugged galvanized steel construction insures many years of dependable performance in even the harshest environments. Protective radomes can be added to protect against heavy ice buildup. The ADB-HD antenna has been proven to have excellent bandwidth, with typical VSWR of <math><1.05:1</math> on carrier, and <math><1.1:1</math> across the channel. Many standard and custom directional patterns are available to fit any of your coverage requirements.

**Designed for high band VHF (Ch 7-13)
Band III (174-230 MHz)**

Typical VSWR 1.05:1 or better

Omni-directional or custom directional patterns

Rugged Hot Dipped Galvanized Steel Construction

Stainless steel dipole

Pressurized Feed System

Radomes Available

**Custom Mounting Brackets Available for
Easy Installation**

Single Panel Gain 8.0 dB



Alan Dick Broadcast Ltd

Design, supply & manufacture communication infrastructure systems on a global scale by offering products and services for Wireless networks.

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# Bays	Panels per Bay	Pattern	Gain (times)	Gain (dBd)	Height (ft) / m	Projected Area (sq. ft)
1	2	Narrow Cardioid	3.2	5.1	Contact Factory	
	3	Wide Cardioid	2.2	3.5		
	4	Omni	1.6	2		
			*1.0	*0.0		
2	2	Narrow Cardioid	6.6	8.2		
	3	Wide Cardioid	4.5	6.5		
	4	Omni	3.3	5.2		
			*2.1	*7.2		
4	2	Narrow Cardioid	13.2	11.2		
	3	Wide Cardioid	8.9	9.5		
	4	Omni	6.5	8.2		
			*4.2	*6.2		
6	2	Narrow Cardioid	20	13		
	3	Wide Cardioid	13.5	11.3		
	4	Omni	10	10		
			*6.4	*8.0		
8	2	Narrow Cardioid	26.3	14.2		
	3	Wide Cardioid	17.8	12.5		
	4	Omni	13.2	11.2		
			*8.4	*9.2		

* Value provides Average/RMS gain; all other stated gains are Peak gains. Gains do not include losses for feed system,

Notes:

- Weights and windloads contact factory.
- All input EIA flange, female 50 ohm
- Input N, 7/16 or 7/8 (other type of connectors on request).
- Frequency range one channel in Band III (174-230 MHz).
- Null fill and beam tilt on request.
- Specifications are based on one wave spaced bays. Other spacing available.

- VSWR for individual panels and complete systems typical $\leq 1.1:1$
- Power rating per panel varies with input power
- Total number of frequencies/channels limited only by total input power.
- In an omni-directional configuration typical circularity +/- 1.5 dB or better. Directional patterns available

Options

Options available include FCC-Directionalization, Pattern Measurement Service, beam tilt, null fill, and special mounting brackets.

Non-ionizing Radiation

Since many factors contribute to a station's compliance with the FCC exposure guidelines for radio frequency radiation, JAMPRO Antennas, Inc. cannot accept any responsibility in this matter. The station must examine and determine its status based on each individual situation.

*All specifications are subject to change.

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